Circular **sensor**
connectors

M12 cables & connectors

The M12 series features sensor and actuator connectors with a locking thread for electronics automation, process control, and commercial electronics. We offer many different cable connectors, panel mounted receptacles, field attachable/installable connectors and various accessories. Our connectors have industry-standard A,B,C, and D cording, for both screw-locking and quick-locking styles.

- Design as per IEC 61076-2-101
- IP67,IP68, IP69K and UL approvals
- 360° Shielded or non-shielded versions are available
- 2~17 poles are available
- A,B,C,D,S,T,X,K,L,Y codings are available
- Right angled PCB panel connector is available
- TPU over molded, PA+GF or metal shell
- T-splitter and Y-splitter are available
- Anti-vibration locking screw design
- Cable length customized, PUR and PVC cable options

FINECABLES ENTERPRISE CO., LIMITED

M12 cables & connectors

Quick Search Table

Available Coding	A-coding		B-coding		C-coding		A-coding		B-coding		C-coding		D-coding		S-coding		T-coding		Quick-lock		A-coding		B-coding		C-coding		K-coding		L-coding		C-coding		Y1-coding	Y3-coding	Quick-lock		A-coding		X-coding		Y2-coding	Y4-coding	A-coding		A-coding	
Rated Current	4A		4A		4A		4A		4A		4A		4A		12A(40℃)		4A		4A		4A		4A		16A		16A		2A		10A (Power),0.5A(Signal)		4A		2A		0.5A		6A (Power),0.5A(Signal)		1.5A		1.5A	
Voltage	250V		250V		250V		250V		250V		250V		250V		630V		250V		250V		60V		60V		60V		690V(A/C), NC(D/C)		NC(A/C), 63V(D/C)		30V		50V		60V		30V		50V / 60V		50V		30V		30V	
Wire Gauge / size	22AWG / 0.34mm²		22AWG / 0.34mm²		22AWG / 0.34mm²		22AWG / 0.34mm²		22AWG / 0.34mm²		22AWG / 0.34mm²		22AWG / 0.34mm²		16AWG / 1.5mm²		22AWG / 0.34mm²		22AWG / 0.34mm²		22AWG / 0.34mm²		22AWG / 0.34mm²		24AWG / 0.25mm²		14AWG / 2.0mm²		24AWG / 0.25mm²		24AWG / 0.25mm²		16/26AWG, 1.25/0.15mm²		22AWG / 0.34mm²		24AWG / 0.25mm²		27~24AWG / 0.14~0.25mm²		20/26AWG, 0.6/0.15mm²		26AWG / 0.14mm²		26AWG / 0.14mm²	
Pin layout	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Male	Male	Female	Male	Female	Male	Female	Female	Male	Male	Female	Male	Female
M12 cables & connectors	3 Pins						4 Pins														5 Pins										6 Pins						8 Pins				12 Pins		17 Pins	
Molded Cable																																													
Male Molded Cable Straight	97	-	97	-	97	-	97	-	97	-	97	-	97	-	117	-	127	-	-	-	97	-	97	-	97	-	-	-	-	-	97	-	-	-	-	-	97	-	-	-	-	-	97	-	97	-
Male Molded Cable Straight Shielded	101	-	101	-	101	-	101	-	101	-	101	-	101	-	121	-	129	-	-	-	101	-	101	-	101	-	136	-	138	-	101	-	140	142	-	-	101	-	131	-	141	143	101	-	101	-
Micro-change Male Molded Cable Straight	-		-		109		-		-		109		-		-		-		-		109				-		-		-		109		-	-	-	-	-		-	-	-	-	-		-	
Female Molded Cable Straight	-	99	-	99	-	99	-	99	-	99	-	99	-	99	-	119	-	128	-	-	-	99	-	99	-	99	-	-	-	-	-	99	-	99	-	-	-	-	99	-	-	-	-	99	-	99	-
Female Molded Cable Straight Shielded	-	102	-	102	-	102	-	102	-	102	-	102	-	102	-	122	-	130	-	-	-	102	-	102	-	102	-	137	-	139	-	102	-	102	-	-	-	-	102	-	132/133	-	-	102	-	102	-
Micro-change Female Molded Cable Straight	-	-	-	-	-	110	-	-	-	-	-	110	-	-	-	-	-	-	-	-	-	-	-	110	-	-	-	-	-	-	-	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Male Molded Cable Angled	103	-	103	-	103	-	103	-	103	-	103	-	103	-	123	-	-	-	-	-	103	-	103	-	103	-	-	-	-	-	103	-	-	-	-	-	103	-	-	-	-	-	103	-	103	-
Male Molded Cable Angled Shielded	107	-	107	-	107	-	107	-	107	-	107	-	107	-	125	-	-	-	-	-	107	-	107	-	107	-	-	-	-	-	107	-	-	-	-	-	107	-	134	-	-	-	107	-	107	-
Female Molded Cable Angled	-	105	-	105	-	105	-	105	-	105	-	105	-	105	-	124	-	-	-	-	-	105	-	105	-	105	-	-	-	-	-	105	-	105	-	-	-	-	105	-	-	-	-	105	-	105	-
Female Molded Cable Angled Shielded	-	108	-	108	-	108	-	108	-	108	-	108	-	108	-	126	-	-	-	-	-	108	-	108	-	108	-	-	-	-	-	108	-	108	-	-	-	-	108	-	135	-	-	108	-	108	-
Female Molded Cable Angled with LED (PNP)	-	111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Female Molded Cable Angled with LED (NPN)	-	112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Male Molded 2 Cables Straight	113	-	113	-	113	-	113	-	113	-	113	-	113	-	-	-	-	-	-	-	113	-	113	-	113	-	-	-	-	-	113	-	-	-	-	-	113	-	-	-	-	-	-	-	-	-
Female Molded 2 Cables Straight	-	114	-	114	-	114	-	114	-	114	-	114	-	114	-	-	-	-	-	-	-	114	-	114	-	114	-	-	-	-	-	114	-	-	-	-	-	114	-	-	-	-	-	-	-	-	-
Male Molded 2 Cables Angled	115	-	115	-	115	-	115	-	115	-	115	-	115	-	-	-	-	-	-	-	115	-	115	-	115	-	-	-	-	-	115	-	-	-	-	-	115	-	-	-	-	-	-	-	-	-
Female Molded 2 Cables Angled	-	116	-	116	-	116	-	116	-	116	-	116	-	116	-	-	-	-	-	-	-	116	-	116	-	116	-	-	-	-	-	116	-	-	-	-	-	116	-	-	-	-	-	-	-	-	-
Male Molded Cable Straight Plastic Screw	98	-	98	-	98	-	98	-	98	-	98	-	98	-	118	-	-	-	-	-	98	-	98	-	98	-	-	-	-	-	98	-	-	-	-	-	98	-	-	-	-	-	98	-	98	-
Male Molded Cable Angled Plastic Screw	104	-	104	-	104	-	104	-	104	-	104	-	104	-	-	-	-	-	-	-	104	-	104	-	104	-	-	-	-	-	104	-	-	-	-	-	104	-	-	-	-	-	104	-	104	-
Female Molded Cable Straight Plastic Nut	-	100	-	100	-	100	-	100	-	100	-	100	-	100	-	120	-	-	-	-	-	100	-	100	-	100	-	-	-	-	-	100	-	-	-	-	-	100	-	-	-	-	-	100	-	100	-
Female Molded Cable Angled Plastic Nut	-	106	-	106	-	106	-	106	-	106	-	106	-	106	-	-	-	-	-	-	-	106	-	106	-	106	-	-	-	-	-	106	-	-	-	-	-	106	-	-	-	-	-	106	-	106	-
Male Molded Cables Straight Snap-in Type	144	-	144	-	-	-	144	-	144	-	-	-	144	-	-	-	-	-	-	-	144	-	144	-	-	-	-	-	-	-	144	-	-	-	-	-	144	-	-	-	-	-	-	-	-	-
Male Molded Cables Straight Quick-lock Type with Fix Cap	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	146	-	-	-	-	-	-	-	-	-	-	-	-	-
Female Molded Cables Straight Snap-in Type	-	-	-	-	-	-	-	145	-	145	-	-	-	145	-	-	-	-	-	-	-	145	-	145	-	-	-	-	-	-	-	-	-	-	-	-	-	145	-	-	-	-	-	-	-	-	-
Female Molded Cables Straight Quick-lock Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	147	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	147	-	-	-	-	-	-	-	-	-	-	-
Female Molded Cables Straight Quick-lock Type with Fix Cap	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	148	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	148	-	-	-	-	-	-	-	-	-	-	-
Assembly Type																																														
Male Field Wirable Assembly, Straight, Solder	149	-	149	-	149	-	149	-	149	-	149	-	149	-	-	-	-	-	-	-	149	-	149	-	149	-	-	-	-	-	149	-	-	-	-	-	149	-	-	-	-	-	149	-	-	-
Male Field Wirable Assembly, Angled, Solder	151	-	151	-	151	-	151	-	151	-	151	-	151	-	-	-	-	-	-	-	151	-	151	-	151	-	-	-	-	-	151	-	-	-	-	-	151	-	-	-	-	-	-	-	-	-
Female Field Wirable Assembly, Straight, Solder	-	150	-	150	-	150	-	150	-	150	-	150	-	150	-	-	-	-	-	-	-	150	-	150	-	150	-	-	-	-	-	150	-	-	-	-	-	150	-	-	-	-	-	150	-	-	-
Female Field Wirable Assembly, Angled, Solder	-	152	-	152	-	152	-	152	-	152	-	152	-	152	-	-	-	-	-	-	-	152	-	152	-	152	-	-	-	-	-	152	-	-	-	-	-	152	-	-	-	-	-	-	-	-	-
Male Field Wirable Assembly, Straight, Screw joint, Shielded	153	-	153	-	-	-	153	-	153	-	-	-	153	-	-	-	-	-	-	-	153	-	153	-	-	-	-	-	-	-	153	-	-	-	-	-	153	-	-	-	-	-	-	-	-	-
Male Field Assembly, Shielded Crimp Type	155	-	155	-	-	-	155	-	155	-	-	-	155	-	-	-	-	-	-	-	155	-	155	-	-	-	-	-	-	-	155	-	-	-	-	-	155	-	-	-	-	-	-	-	-	-
Male Field Wirable Assembly, Straight, Piercing, Shielded	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	-	-		-		157		-		-		-		-	
Female Field Wirable Assembly, Straight, Screw joint, Shielded	-	154	-	154	-	-	-	154	-	154	-	-	-	154	-	-	-	-	-	-	-	154	-	154	-	-	-	-	-	-	-	-	154	-	-	-	-	-	154	-	-	-	-	-	-	-	-	-
Female Field Assembly, Shielded Crimp Type	-	156	-	156	-	-	-	156	-	156	-	-	-	156	-	-	-	-	-	-	-	156	-	156	-	-	-	-	-	-	-	-	156	-	-	-	-	-	156	-	-	-	-	-	-	-	-	-
Male Field Wirable Assembly, Straight, Screw joint	160	-	160	-	160	-	160	-	160	-	-	-	160	-	164	-	166	-	-	-	160	-	160	-	-	-	-	-	-	-	160	-	-	-	-	-	160	-	-	-	-	-	-	-	-	-
Male Field Wirable Assembly, Straight, Screw joint, Plastic Screw	161	-	161	-	161	-	161	-	161	-	-	-	161	-	-	-	-	-	-	-	161	-	161	-	-	-	-	-	-	-	161	-	-	-	-	-	161	-	-	-	-	-	-	-	-	-
Female Field Wirable Assembly, Straight, Screw joint	-	162	-	162	-	162	-	162	-	162	-	-	-	162	-	165	-	167	-	-	-	162	-	162	-	-	-	-	-	-	-	-	162	-	-	-	-	-	162	-	-	-	-	-	-	-	-	-
Female Field Wirable Assembly, Straight, Screw joint, Plastic Nut	-	163	-	163	-	163	-	163	-	163	-	-	-	163	-	-	-	-	-	-	-	163	-	163	-	-	-	-	-	-	-	-	163	-	-	-	-	-	163	-	-	-	-	-	-	-	-	-
Male Field Wirable Assembly, Angled, Screw joint	168	-	168	-	168	-	168	-	168	-	-	-	168	-	172	-	174	-	-	-	168	-	168	-	-	-	-	-	-	-	168	-	-	-	-	-	168	-	-	-	-	-	-	-	-	-
Male Field Wirable Assembly, Angled, Screw joint, Plastic Screw	169	-	169	-	169	-	169	-	169	-	-	-	169	-	-	-	-	-	-	-	169	-	169	-	-	-	-	-	-	-	169	-	-	-	-	-	169	-	-	-	-	-	-	-	-	-
Male Field Wirable Assembly Angled Screw joint Shielded with Die-cast body	158	-	158	-	158	-	158	-	158	-	-	-	158	-	-	173	-	175	-	-	158	-	158	-	-	-	-	-	-	-	158	-	-	-	-	-	158	-	-	-	-	-	-	-	-	-
Female Field Wirable Assembly, Angled, Screw joint	-	170	-	170	-	170	-	170	-	170	-	-	-	170	-	-	-	-	170	-	-	170	-	170	-	-	-	-	-	-	-	-	170	-	-	-	-	-	170	-	-	-	-	-	-	-	-	-
Female Field Wirable Assembly, Angled, Screw joint, Plastic Nut	-	171	-	171	-	171	-	171	-	171	-	-	-	171	-	-	-	-	-	-	-	171	-	171	-	-	-	-	-	-	-	-	171	-	-	-	-	-	171	-	-	-	-	-	-	-	-	-
Female Field Wirable Assembly Angled Screw Joint Shielded with Die-cast body	-	159	-	159	-	159	-	159	-	159	-	-	-	159	-	-	-	-	-	-	-	159	-	159	-	-	-	-	-	-	-	-	159	-	-	-	-	-	159	-	-	-	-	-	-	-	-	-
Male Field Wirable Assembly, Straight, Quick-lock Type, With Fix-cap	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Female Field Wirable Assembly, Straight, Quick-lock Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Female Field Wirable Assembly, Straight, Quick-lock Type, With Fix-cap	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Quick Search Table

Available Coding	A-coding	B-coding	C-coding	A-coding	B-coding	C-coding	D-coding	S–coding	T–coding	Quick-lock	A-coding	B-coding	C-coding	K–coding	L–coding	C–coding	Quick-lock	Y1–coding	Y3–coding	A-coding	X–coding	Y2–coding	Y4–coding	A-coding	A-coding
Rated Current	4A	4A		4A				12A(40℃)		4A	4A		2A	16A	16A	2A	4A	12A (Power),0.5A(Signal)		2A	0.5A	6A (Power),0.5A(Signal)		1.5A	1.5A
Voltage	250V	250V		250V				630V		250V	60V		60V	690V(AC), NC(D/C)	NC(A/C), 63V(D/C)	30V	60V	50V		30V	50V / 60V	50V		30V	30V
Wire Gauge / size	22AWG / 0.34mm²	22AWG / 0.34mm²		22AWG / 0.34mm²				16AWG / 1.5mm²		22AWG / 0.34mm²	22AWG / 0.34mm²		24AWG / 0.25mm²	14AWG / 2.0mm²	24AWG / 0.25mm²	24AWG / 0.25mm²	22AWG / 0.34mm²	16/26AWG, 1.25/0.15mm²		24AWG / 0.25mm²	27–24AWG / 0.14–0.25mm²	20/26AWG, 0.6/0.15mm²		26AWG / 0.14mm²	26AWG / 0.14mm²
Pin layout	Male / Female	Male / Female	Male / Female	Male / Female	Male / Female	Male / Female	Male / Female	Male / Female	Male / Female	Male / Female	Male / Female	Male / Female	Male / Female	Male / Female	Male / Female	Male / Female	Male / Female	Female	Female	Male / Female	Male / Female	Female	Female	Male / Female	Male / Female
M12 cables & connectors	**3 Pins**			**4 Pins**							**5 Pins**					**6 Pins**				**8 Pins**				**12 Pins**	**17 Pins**
Panel Mount Type																									
Male Panel Mount Die-cast Solder Front fastened	179 -	179 -		179 -	179 -		179 -	- -	- -	- -	179 -	- -	- -	- -	- -	179 -	- -	- -		179 -	- -	- -	- -	- -	- -
Male Panel Mount Die-cast Solder Rear fastened	183 -	183 -		183 -	183 -		183 -	- -	- -	- -	183 -	- -	- -	- -	- -	183 -	- -	- -		183 -	- -	- -	- -	- -	- -
Male Panel Mount Solder Front fastened	185 -	185 -		185 -	185 -		185 -	- -	- -	- -	185 -	- -	- -	- -	- -	185 -	- -	- -		185 -	- -	- -	- -	185 -	- -
Male Panel Mount Solder Rear fastened	188 -	188 -		188 -	188 -		188 -	- -	- -	- -	188 -	- -	- -	- -	- -	188 -	- -	- -		188 -	- -	- -	- -	188 -	- -
Male Panel Mount Solder Rear fastened Adjustable Nut	191 -	191 -		191 -	191 -		191 -	- -	- -	- -	191 -	- -	- -	- -	- -	191 -	- -	- -		191 -	- -	- -	- -	191 -	- -
Male Panel Mount Plastic Screw Nut Solder Front fastened	180 -	180 -		180/186 -	180 -		180 -	- -	- -	- -	180/186 -	- -	- -	- -	- -	180 -	- -	- -		180/186 -	- -	- -	- -	- -	- -
Male Panel Mount Plastic Screw Solder Rear fastened	- -	- -		189 -	- -		- -	- -	- -	- -	189 -	- -	- -	- -	- -	- -	- -	- -		189 -	- -	- -	- -	- -	- -
Female Panel Mount Die-cast Solder Front fastened	- 181	- 181		- 181	- 181		- 181	- -	- -	- -	- 181	- -	- 181	- -	- -	- 181	- -	- -		- 181	- -	- -	- -	- -	- -
Female Panel Mount Die-cast Screw Solder Rear fastened	- 184	- 184		- 184	- 184		- 184	- -	- -	- -	- 184	- -	- 184	- -	- -	- 184	- -	- -		- 184	- -	- -	- -	- -	- -
Female Panel Mount Plastic Screw Nut Solder Front fastened	- 182	- 182		- 182	- 182		- 182	- -	- -	- -	- 182	- -	- 182	- -	- -	- 182	- -	- -		- 182	- -	- -	- -	- -	- -
Female Panel Mount Solder Front fastened	- 187	- 187		- 187	- 187		- 187	- -	- -	- -	- 187	- -	- 187	- -	- -	- 187	- -	- -		- 187	- -	- -	- 187	- 187	
Female Panel Mount Solder Rear fastened	- 190	- 190		- 190	- 190		- 190	- -	- -	- -	- 190	- -	- 190	- -	- -	- 190	- -	- -		- 190	- -	- -	- 190	- 190	
Female Panel Mount Solder Rear fastened Adjustable Nut	- 192	- 192		- 192	- 192		- 192	- -	- -	- -	- 192	- -	- 192	- -	- -	- 192	- -	- -		- 192	- -	- -	- 192	- 192	
Male Panel Mount Die-cast Screw PCB Type Front fastened	199 -	199 -		199 -			199 -	- -	- -	- -	199 -	- -	- -	- -	- -	199 -	- -	- -		199 -	- -	- -	- -	- -	- -
Male Panel Mount Plastic Screw Nut PCB Type Front fastened	200 -	200 -		200 -			200 -	- -	- -	- -	200 -	- -	- -	- -	- -	200 -	- -	- -		200 -	- -	- -	- -	- -	- -
Male Panel Mount Die-cast Screw PCB Type Rear fastened	203 -	203 -		203 -			203 -	- -	- -	- -	203 -	- -	- -	- -	- -	203 -	- -	- -		203 -	- -	- -	- -	- -	- -
Male Panel Mount Die-cast Screw PCB Type Front fastened Shielded	205 -	205 -		205 -			205 -	- -	- -	- -	205 -	- -	- -	- -	- -	205 -	- -	- -		205 -	- -	- -	- -	- -	- -
Male Panel Mount PCB Type Front fastened	207/208 -	207/208 -		207/208 -			207/208 -	- -	- -	- -	207/208 -	- -	- -	- -	- -	207/208 -	- -	- -		207/208 -	- -	- -	- -	207/208 -	207/208 -
Male Panel Mount PCB Type Front fastened Shielded	211/212 -	211/212 -		211/212 -			211/212 -	- -	- -	- -	211/212 -	- -	- -	- -	- -	211/212 -	- -	- -		211/212 -	- -	- -	- -	211/212 -	211/212 -
Male Panel Mount PCB Type Rear fastened	- -	- -		- -			- -	- -	- -	- -	- -	- -	- -	230 -	238 -	- -	- -	240 -		- -	- -	241 -	- -	- -
Male Panel Mount Angled PCB Type Front fastened	- -	- -		215 -			215 -	- -	- -	- -	215 -	- -	- -	- -	- -	- -	- -	- -		215 -	- -	- -	- -	- -	- -
Female Panel Mount Die-cast Screw PCB Type Front fastened	- 201	- 201		- 201			- 201	- -	- -	- -	- 201	- -	- 201	- -	- -	- 201	- -	- -		- 201	- -	- -	- -	- -	- -
Female Panel Mount Plastic Screw Nut PCB Type Front fastened	- 202	- 202		- 202			- 202	- -	- -	- -	- 202	- -	- 202	- -	- -	- 202	- -	- -		- 202	- -	- -	- -	- -	- -
Female Panel Mount Die-cast Screw PCB Type Rear fastened	- 204	- 204		- 204			- 204	- -	- -	- -	- 204	- -	- 204	- -	- -	- 204	- -	- -		- 204	- -	- -	- -	- -	- -
Female Panel Mount Die-cast Screw PCB Type Front fastened Shielded	- 206	- 206		- 206			- 206	- -	- -	- -	- 206	- -	- 206	- -	- -	- 206	- -	- -		- 206	- -	- -	- -	- -	- -
Female Panel Mount PCB Type Front fastened	- 210	- 210		- 210			- 210	- -	- -	- -	- 210	- -	- 210	- 229	- 237	- 210	- -	- -		- 210	- -	- -	- 210	- 210	
Female Panel Mount PCB Type Front fastened Shielded	- 213	- 213		- 213			- 213	- -	- -	- -	- 213	- -	- -	- -	- -	- 213	- -	- -		- 213	- -	- -	- 213	- 213	
Female Panel Mount PCB Type Rear fastened	- -	- -		- -			- -	- -	- -	- -	- -	- -	- -	- 231	- 239	- -	- -	- 242		- -	- -	- -	- -	- -	
Female Panel Mount PCB Type Front fastened with Shielded Terminal	- 214	- 214		- 214			- 214	- -	- -	- -	- 214	- -	- 214	- -	- -	- 214	- -	- -		- 214	- -	- -	- 214	- -	- 214
Female Panel Mount Angled PCB Type Front fastened	- -	- -		- -			216 -	- -	- -	- -	216 -	- -	216 -	- -	- -	- -	- -	- -		216 -	217 -	- -	- -	- -	- -
Female Panel Mount Angled PCB Type Rear fastened Shielded	- -	- -		- -			- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -		- -	- -	- -	- -	- -	- -
Female Panel Mount Angled PCB Type Rear fastened Shielded shell without fixed holes	- -	- -		- -			- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -		- -	- -	- -	- -	- -	- -
Female Panel Mount Angled PCB Type Rear fastened Shielded shell with fixed holes	- -	- -		- -			- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -		- -	223 -	- -	- -	- -	- -
Female Panel Mount PCB Type without Screw X-coding Shielded	- -	- -		- -			- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -		- -	- -	- -	- -	- -	- -
Male Panel Mount Crimp Front fastened	- -	- -		- -			- -	- -	- -	- -	- -	- -	- -	224 -	232 -	- -	- -	- -		- -	- -	- -	- -	- -	- -
Male Panel Mount Crimp Rear fastened	- -	- -		- -			- -	195 -	197 -	- -	- -	- -	- -	226 -	234 -	- -	- -	- -		- -	- -	- -	- -	- -	- -
Female Panel Mount Crimp Front fastened	- -	- -		- -			- -	- -	- -	- -	- -	- -	- -	- 225	- 233	- -	- -	- -		- -	- -	- -	- -	- -	- -
Female Panel Mount Crimp Front fastened Shielded	- -	- -		- -			- -	- -	196 - 198	- -	- -	- -	- -	- -	- -	- -	- -	- -		- -	- -	- -	- -	- -	- -
Female Panel Mount Crimp Rear fastened	- -	- -		- -			- -	- -	- -	- -	- -	- -	- -	- 227	- 235	- -	- -	- -		- -	- -	- -	- -	- -	- -
Male to Female Panel Mount A-Coding	- -	- -		- -			- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -		- -	- -	- -	- -	- -	- -
Male to Female Panel Mount X-Coding Shielded	- -	- -		- -			- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -		- -	254 -	- -	- -	- -	- -
Female to Female Panel Mount X-Coding Shielded	- -	- -		- -			- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -		- -	- -	- -	- -	- -	- -
Male Panel Mount Solder with Flange	- -	- -		- -			- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -		- -	- -	- -	- -	- -	- -
Female Panel Mount Solder with Flange	- -	- -		- -			- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -		- -	- -	- -	- -	- -	- -
Male Panel Mount Solder Front fastened Quick lock Type	- -	- -		- -			- -	- -	- -	245 -	- -	- -	- -	- -	- -	- -	245 -	- -		- -	- -	- -	- -	- -	- -
Male Panel Mount PCB Type Front fastened Quick lock Type	- -	- -		- -			- -	- -	- -	247 -	- -	- -	- -	- -	- -	- -	247 -	- -		- -	- -	- -	- -	- -	- -
Female Panel Mount Solder Front fastened Quick lock Type	- -	- -		- -			- -	- -	- -	- 246	- -	- -	- -	- -	- -	- 246	- -	- -		- -	- -	- -	- -	- -	- -
Female Panel Mount PCB Type Front fastened Quick lock Type	- -	- -		- -			- -	- -	- -	- 248	- -	- -	- -	- -	- -	- 248	- -	- -		- -	- -	- -	- -	- -	- -
Male Plastic Housing with O-ring Solder	249 -	249 -		249 -			249 -	- -	- -	- -	249 -	- -	249 -	- -	- -	- -	- -	- -		249 -	- -	- -	- -	- -	- -
Male Plastic Housing with PCB O-ring Solder	250 -	250 -		250 -			250 -	- -	- -	- -	250 -	- -	250 -	- -	- -	- -	- -	- -		250 -	- -	- -	- -	- -	- -
Adapter & Splitter																									
I-Adapter Male-Female	255	255	-	255			255	-	-	255	-	-	255	255	-	-	-	-		-	-	-	-	-	-
I-Adapter Male-Male	257	257	-	257			257	-	-	257	-	-	257	257	-	-	-	-		-	-	-	-	-	-
Plastic I-Adapter Male-Female	256	256	-	256			256	-	-	256	-	-	256	256	-	-	-	-		-	-	-	-	-	-
L-Adapter Male-Female	258	258	-	258			258	-	-	258	-	-	258	258	-	-	-	-		-	-	-	-	-	-
Plastic L-Adapter Male-Female	259	259	-	259			259	-	-	259	-	-	259	259	-	-	-	-		-	-	-	-	-	-
Y-Splitter Male-2Female	260	260	-	260			260	-	-	260	-	-	260	260	-	-	-	-		-	-	-	-	-	-
Y-Splitter Female-Male-Female	261	261	-	261			261	-	-	261	-	-	261	261	-	-	-	-		-	-	-	-	-	-
T-Splitter Female-Male-Female	262	262	-	262			262	-	-	262	-	-	262	262	-	-	-	-		-	-	-	-	-	-
Plastic T-Splitter Female-Male-Female	263	263	-	263			263	-	-	263	-	-	263	263	-	-	-	-		-	-	-	-	-	-
T-Splitter Female-Male-Female Shielded	264	264	-	264			264	-	-	264	-	-	264	264	-	-	-	-		-	-	-	-	-	-
T-Splitter Male with Molded Cable	265	265	-	265			265	-	-	265	-	-	265	265	-	-	-	-		-	-	-	-	-	-
Plastic T-Splitter Male with Molded Cable	266	266	-	266			266	-	-	266	-	-	266	266	-	-	-	-		-	-	-	-	-	-
T-Splitter Female with Molded Cable	267	267	-	267			267	-	-	267	-	-	267	267	-	-	-	-		-	-	-	-	-	-
Plastic T-Splitter Male with Molded Cable	268	268	-	268			268	-	-	268	-	-	268	268	-	-	-	-		-	-	-	-	-	-
T-Splitter Male-Female Molded Cable	269	269	-	269			269	-	-	269	-	-	269	269	-	-	-	-		-	-	-	-	-	-
Plastic T-Splitter Male-Female Molded Cable	270	270	-	270			270	-	-	270	-	-	270	270	-	-	-	-		-	-	-	-	-	-
Multi-Way 4T-Splitter Male-3Female	271	271	-	271			271	-	-	271	-	-	271	271	-	-	-	-		-	-	-	-	-	-
Plastic Multi-Way 4T-Splitter Male-3Female	272	272	-	272			272	-	-	272	-	-	272	272	-	-	-	-		-	-	-	-	-	-
Multi-Way 6T-Splitter Male-5Female	273	273	-	273			273	-	-	273	-	-	273	273	-	-	-	-		-	-	-	-	-	-
Plastic Multi-Way 6T-Splitter Male-5Female	274	274	-	274			274	-	-	274	-	-	274	274	-	-	-	-		-	-	-	-	-	-
Male Terminator	275 -	275 -	-	-			275 -	-	275 -	-	275 -	-	-	-	-	275 -	-	-		275 -	-	-	-	275 -	-
Plastic Male Terminator	276 -	276 -	-	-			276 -	-	276 -	-	276 -	-	-	-	-	276 -	-	-		276 -	-	-	-	276 -	-
Female Terminator	- 277	-	277 -	-			- 277	- 277	-	-	- 277	-	-	-	-	- 277	-	-		-	277 -	-	-	-	277 -
Plastic Female Terminator	- 278	-	278 -	-			- 278	- 278	-	-	- 278	-	-	-	-	- 278	-	-		-	278 -	-	-	-	278 -

How to Order Part Number

M12 Series with cable molded

MA | 12 | F | A | F | 03 | ST | 03 | C | B | 25

SERIES

SIZE
12=M12

TYPE
F=Female
M=Male
FS=Female shield
MS=Male shield
LN=Female with led NPN
LP=Female with led PNP
FR=Female reversed polarity
MR=Male reversed polarity

CODING
A=A Coding
B=B Coding
C=C Coding
D=D Coding
K=K Coding
L=L Coding
S=S Coding
T=T Coding
X=X Coding
Y1= Y Coding type 1
Y2= Y Coding type 2
Y3= Y Coding type 3
Y4= Y Coding type 4

LOCKING SYSTEM
F=Fixed screw
I=Snap in
P=Plastic fix screw
Q=Quick-lock
HD=Hex Die-cast screw
N=Non-rotated

POLES
03=3 Poles
04=4 Poles
.....
17=17 Poles

INSERT DEGREE
ST=Straight
RA=Right angled

CABLE LENGTH
03=0.3m
10=1m
20=2m
100=10m
.....

CABLE SHEATH
C=PVC
R=PUR

CABLE COLOR
B=Black
G=Gray
O=Orange
Y=Yellow

WIRE SECTION
14=0.14mm^2
25=0.25mm^2
34=0.34mm^2
50=0.50mm^2

M12 Series Assembly / Panel-mount type

MB | 12 | FA | A | F | F | 03 | ST | – | 0

SERIES

SIZE
12=M12

TYPE
FB=Female PCB type
MB=Male PCB type
FS=Female solder type
MS=Male solder type
FC=Female crimp type
MC=Male crimp type
FA=Female assembly
MA=Male assembly
FW=Female assy screw joint
MW=Male assy screw joint
FBS=Female PCB shield type
MBS=Male PCB shield type
FWS=Female shield assy screw joint
MWS=Male shield assy screw joint
FCS=Female shield assy crimp type
MCS=Male shield assy crimp type
FPS=Female shield assy pierce type
MPS=Male shield assy pierce type

CODING
A=A Coding
B=B Coding
C=C Coding
D=D Coding
K=K Coding
L=L Coding
S=S Coding
T=T Coding
X=X Coding
Y1= Y Coding type 1
Y2= Y Coding type 2
Y3= Y Coding type 3
Y4= Y Coding type 4

ASSEMBLY METHOD
F=Front mount
R=Rear mount
FL=Flange

LOCKING SYSTEM
F=Fixed screw
I=Snap in
P=Plastic fix screw
Q=Quick-lock
HD=Hex Die-cast screw

POLES
03=3 Poles
04=4 Poles
.....
17=17 Poles

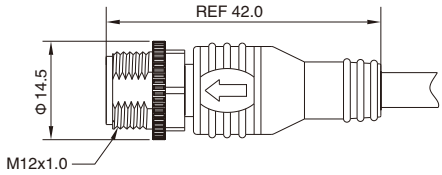
INSERT DEGREE
ST=Straight
RA=Right angled

MOUNTING THREAD
0=M12x1.0
1=M15x1.0
2=M16x1.5
3=PG9
4=PG7
5=M20x1.5
6=M18x0.75
7=PG11

M12 Male Molded Cable, Straight

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12M*HD**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification

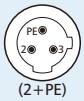
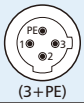
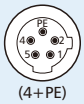
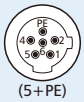


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68, IP69K in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12MAHD03ST<u>XXX</u>B34 MA12MBHD03ST<u>XXX</u>B34 MA12MCHD03ST<u>XXX</u>B34
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12MAHD04ST<u>XXX</u>B34 MA12MBHD04ST<u>XXX</u>B34 MA12MCHD04ST<u>XXX</u>B34 MA12MDHD04ST<u>XXX</u>B34
05 pins			 (4+PE)		4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC	MA12MAHD05ST<u>XXX</u>B34 MA12MBHD05ST<u>XXX</u>B34 MA12MCHD05ST<u>XXX</u>B25
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	MA12MCHD06ST<u>XXX</u>B25
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	MA12MAHD08ST<u>XXX</u>B25
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12MAHD12ST<u>XXX</u>B14
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA17MAHD17ST<u>XXX</u>B14

*17pin with different overmold from above other pins.

Note: X refers to cable specification

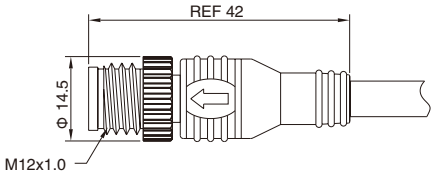
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Straight, Plastic Screw

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Straight
- Part No.: MA12M*P**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification

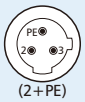
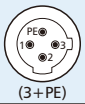
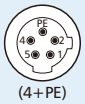
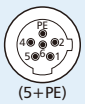


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	PA+GF

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12MAP03ST*XXX*B34 MA12MBP03ST*XXX*B34 MA12MCP03ST*XXX*B34
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12MAP04ST*XXX*B34 MA12MBP04ST*XXX*B34 MA12MCP04ST*XXX*B34 MA12MDP04ST*XXX*B34
05 pins			 (4+PE)		4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC	MA12MAP05ST*XXX*B34 MA12MBP05ST*XXX*B34 MA12MCP05ST*XXX*B25
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	MA12MCP06ST*XXX*B25
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	MA12MAP08ST*XXX*B25
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12MAP12ST*XXX*B14
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12MAP17ST*XXX*B14

*17pin with different overmold from above other pins.

Note: *X* refers to cable specification

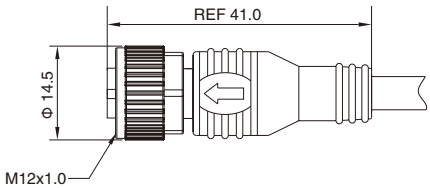
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Straight

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12F*HD**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification

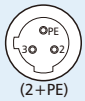
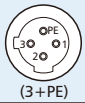
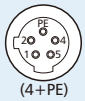


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Connector contacts:	Brass with gold plated
Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68, IP69K in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12FAHD03ST<u>XXX</u>B34 MA12FBHD03ST<u>XXX</u>B34 MA12FCHD03ST<u>XXX</u>B34
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12FAHD04ST<u>XXX</u>B34 MA12FBHD04ST<u>XXX</u>B34 MA12FCHD04ST<u>XXX</u>B34 MA12FDHD04ST<u>XXX</u>B34
05 pins			 (4+PE)		4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC	MA12FAHD05ST<u>XXX</u>B34 MA12FBHD05ST<u>XXX</u>B34 MA12FCHD05ST<u>XXX</u>B25
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	MA12FCHD06ST<u>XXX</u>B25
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	MA12FAHD08ST<u>XXX</u>B25
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12FAHD12ST<u>XXX</u>B14
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12FAHD17ST<u>XXX</u>B14

*17pin with different overmold from above other pins.

Note: <u>X</u> refers to cable specification

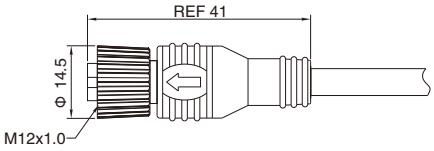
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Straight, Plastic Nut

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Straight
- Part No.: MA12F*P**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification

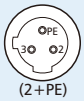
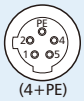


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector overmold:	TPU
Coupling nut/screw:	PA+GF
Seal / O-ring:	FKM

Connector contacts:	Brass with gold plated
Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12FAP03ST*XXX*B34 MA12FBP03ST*XXX*B34 MA12FCP03ST*XXX*B34
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12FAP04ST*XXX*B34 MA12FBP04ST*XXX*B34 MA12FCP04ST*XXX*B34 MA12FDP04ST*XXX*B34
05 pins			 (4+PE)		4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC	MA12FAP05ST*XXX*B34 MA12FBP05ST*XXX*B34 MA12FCP05ST*XXX*B25
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	MA12FCP06ST*XXX*B25
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	MA12FAP08ST*XXX*B25
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12FAP12ST*XXX*B14
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12FAP17ST*XXX*B14

*17pin with different overmold from above other pins.

Note: *X* refers to cable specification

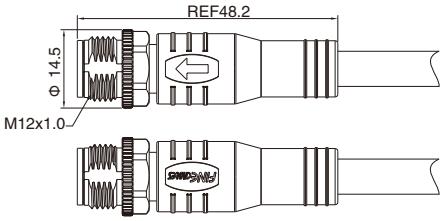
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Straight, Shielded

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MS*HD**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification

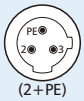
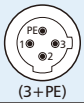
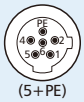


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68, IP69K in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12MSAHD03ST*XXX*B34 MA12MSBHD03ST*XXX*B34 MA12MSCHD03ST*XXX*B34
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12MSAHD04ST*XXX*B34 MA12MSBHD04ST*XXX*B34 MA12MSCHD04ST*XXX*B34 MA12MSDHD04ST*XXX*B34
05 pins			 (4+PE)		4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC	MA12MSAHD05ST*XXX*B34 MA12MSBHD05ST*XXX*B34 MA12MSCHD05ST*XXX*B25
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	MA12MSCHD06ST*XXX*B25
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	MA12MSAHD08ST*XXX*B25
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12MSAHD12ST*XXX*B14
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12MSAHD17ST*XXX*B14

*12pin, 17pin with different overmold from above other pins.

Note: *X* refers to cable specification

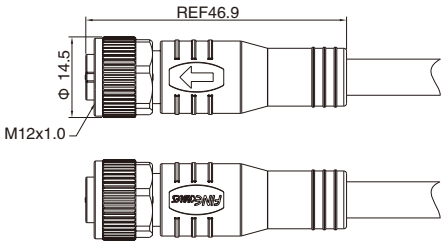
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Straight, Shielded

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12FS*HD**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification

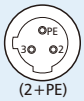
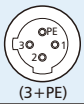
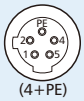
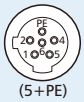


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Connector contacts:	Brass with gold plated
Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68, IP69K in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12FSAHD03ST<u>XXX</u>B34 MA12FSBHD03ST<u>XXX</u>B34 MA12FSCHD03ST<u>XXX</u>B34
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12FSAHD04ST<u>XXX</u>B34 MA12FSBHD04ST<u>XXX</u>B34 MA12FSCHD04ST<u>XXX</u>B34 MA12FSDHD04ST<u>XXX</u>B34
05 pins			 (4+PE)		4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC	MA12FSAHD05ST<u>XXX</u>B34 MA12FSBHD05ST<u>XXX</u>B34 MA12FSCHD05ST<u>XXX</u>B25
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	MA12FSCHD06ST<u>XXX</u>B25
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	MA12FSAHD08ST<u>XXX</u>B25
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12FSAHD12ST<u>XXX</u>B14
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12FSAHD17ST<u>XXX</u>B14

*12pin, 17pin with different overmold from above other pins.

Note: X refers to cable specification

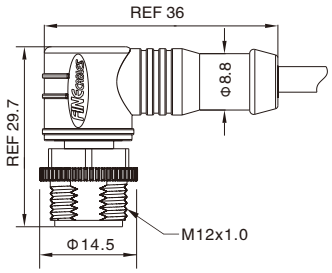
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Angled

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12M*HD**RAXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification

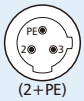
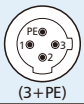
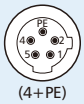
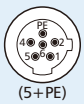


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68, IP69K in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12MAHD03RA*XXX*B34 MA12MBHD03RA*XXX*B34 MA12MCHD03RA*XXX*B34
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12MAHD04RA*XXX*B34 MA12MBHD04RA*XXX*B34 MA12MCHD04RA*XXX*B34 MA12MDHD04RA*XXX*B34
05 pins			 (4+PE)		4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC	MA12MAHD05RA*XXX*B34 MA12MBHD05RA*XXX*B34 MA12MCHD05RA*XXX*B25
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	MA12MCHD06RA*XXX*B25
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	MA12MAHD08RA*XXX*B25
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12MAHD12RA*XXX*B14
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12MAHD17RA*XXX*B14

*12pin, 17pin with different overmold from above other pins.

Note: *X* refers to cable specification

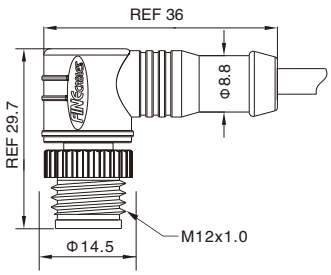
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Angled, Plastic Screw

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Right angled
- Part No.: MA12M*P**RAXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification

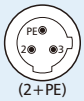
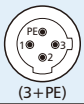


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	PA+GF

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68, IP69K in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12MAP03RA<u>XXX</u>B34 MA12MBP03RA<u>XXX</u>B34 MA12MCP03RA<u>XXX</u>B34
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12MAP04RA<u>XXX</u>B34 MA12MBP04RA<u>XXX</u>B34 MA12MCP04RA<u>XXX</u>B34 MA12MDP04RA<u>XXX</u>B34
05 pins			 (4+PE)		4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC	MA12MAP05RA<u>XXX</u>B34 MA12MBP05RA<u>XXX</u>B34 MA12MCP05RA<u>XXX</u>B25
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	MA12MCP06RA<u>XXX</u>B25
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	MA12MAP08RA<u>XXX</u>B25
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12MAP12RA<u>XXX</u>B14
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12MAP17RA<u>XXX</u>B14

*12pin, 17pin with different overmold from above other pins.

Note: <u>X</u> refers to cable specification

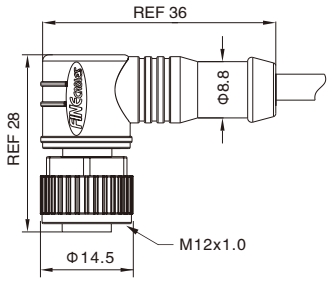
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Angled

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12F*HD**RAXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification

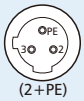
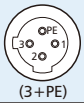
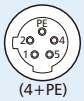
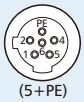


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Connector contacts:	Brass with gold plated
Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68, IP69K in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12FAHD03RA<u>XXX</u>B34 MA12FBHD03RA<u>XXX</u>B34 MA12FCHD03RA<u>XXX</u>B34
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12FAHD04RA<u>XXX</u>B34 MA12FBHD04RA<u>XXX</u>B34 MA12FCHD04RA<u>XXX</u>B34 MA12FDHD04RA<u>XXX</u>B34
05 pins			 (4+PE)		4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC	MA12FAHD05RA<u>XXX</u>B34 MA12FBHD05RA<u>XXX</u>B34 MA12FCHD05RA<u>XXX</u>B25
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	MA12FCHD06RA<u>XXX</u>B25
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	MA12FAHD08RA<u>XXX</u>B25
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12FAHD12RA<u>XXX</u>B14
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12FAHD17RA<u>XXX</u>B14

*12pin, 17pin with different overmold from above other pins.

Note: <u>X</u> refers to cable specification

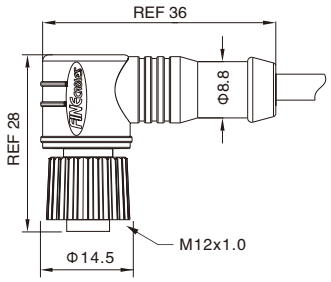
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Angled, Plastic Nut

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Right angled
- Part No.: MA12F*P**RAXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification

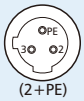


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector overmold:	TPU
Coupling nut/screw:	PA+GF
Seal / O-ring:	FKM

Connector contacts:	Brass with gold plated
Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68, IP69K in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12FAP03RA*XXX*B34 MA12FBP03RA*XXX*B34 MA12FCP03RA*XXX*B34
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12FAP04RA*XXX*B34 MA12FBP04RA*XXX*B34 MA12FCP04RA*XXX*B34 MA12FDP04RA*XXX*B34
05 pins			 (4+PE)		4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC	MA12FAP05RA*XXX*B34 MA12FBP05RA*XXX*B34 MA12FCP05RA*XXX*B25
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	MA12FCP06RA*XXX*B25
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	MA12FAP08RA*XXX*B25
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12FAP12RA*XXX*B14
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12FAP17RA*XXX*B14

*12pin, 17pin with different overmold from above other pins.

Note: *X* refers to cable specification

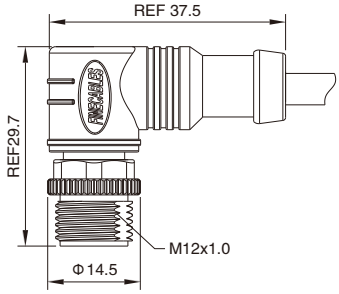
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Angled, Shielded

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12MS*HD**RAXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification

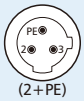
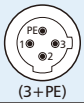
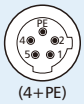
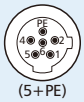


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68, IP69K in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12MSAHD03RA<u>XXX</u>B34 MA12MSBHD03RA<u>XXX</u>B34 MA12MSCHD03RA<u>XXX</u>B34
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12MSAHD04RA<u>XXX</u>B34 MA12MSBHD04RA<u>XXX</u>B34 MA12MSCHD04RA<u>XXX</u>B34 MA12MSDHD04RA<u>XXX</u>B34
05 pins			 (4+PE)		4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC	MA12MSAHD05RA<u>XXX</u>B34 MA12MSBHD05RA<u>XXX</u>B34 MA12MSCHD05RA<u>XXX</u>B25
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	MA12MSCHD06RA<u>XXX</u>B25
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	MA12MSAHD08RA<u>XXX</u>B25
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12MSAHD12RA<u>XXX</u>B14
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12MSAHD17RA<u>XXX</u>B14

*12pin, 17pin with different overmold from above other pins.

Note: <u>X</u> refers to cable specification

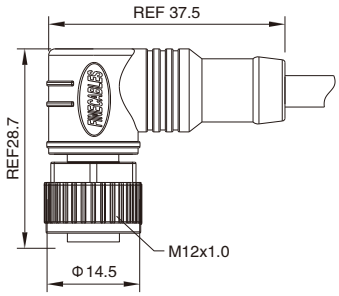
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Angled, Shielded

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12FS*HD**RAXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification

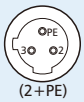
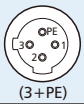
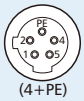
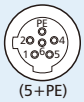


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Connector contacts:	Brass with gold plated
Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68, IP69K in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12FSAHD03RA<u>XXX</u>B34 MA12FSBHD03RA<u>XXX</u>B34 MA12FSCHD03RA<u>XXX</u>B34
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12FSAHD04RA<u>XXX</u>B34 MA12FSBHD04RA<u>XXX</u>B34 MA12FSCHD04RA<u>XXX</u>B34 MA12FSDHD04RA<u>XXX</u>B34
05 pins			 (4+PE)		4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC	MA12FSAHD05RA<u>XXX</u>B34 MA12FSBHD05RA<u>XXX</u>B34 MA12FSCHD05RA<u>XXX</u>B25
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	MA12FSCHD06RA<u>XXX</u>B25
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	MA12FSAHD08RA<u>XXX</u>B25
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12FSAHD12RA<u>XXX</u>B14
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	MA12FSAHD17RA<u>XXX</u>B14

*12pin, 17pin with different overmold from above other pins.

Note: <u>X</u> refers to cable specification

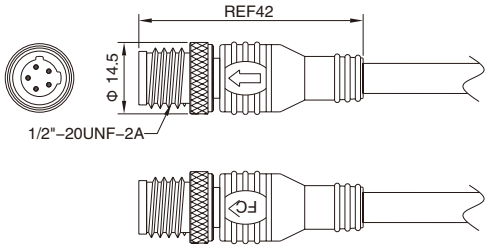
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

Micro-change 1/2"-20UNF Male Molded Cable, Straight

- Connector series: Micro-change
- Gender: Male
- Coding: C
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MC-WM**STMF-XXXXXX

** refers to pins number
X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	Brass with nickel plated

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68, IP69k in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
			A/C	D/C	AWG	mm²		
02 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	MC-WM02STMF-XXXB34
03 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	MC-WM03STMF-XXXB34
04 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	MC-WM04STMF-XXXB34
05 pins		2A	60V	60V	24AWG	0.25	PUR / PVC	MC-WM05STMF-XXXB25
06 pins		2A	60V	60V	24AWG	0.25	PUR / PVC	MC-WM06STMF-XXXB25

Note: X refers to cable specification

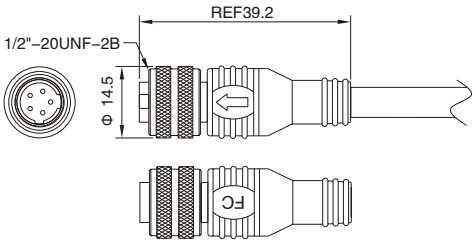
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

Micro-change 1/2"-20UNF Female Molded Cable, Straight

- Connector series: Micro-change
- Gender: Female
- Coding: C
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MC-WF**STMF-XXXXXX

** refers to pins number
X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68, IP69K in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
			A/C	D/C	AWG	mm²		
02 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	MC-WF02STMF-XXXB34
03 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	MC-WF03STMF-XXXB34
04 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	MC-WF04STMF-XXXB34
05 pins		2A	60V	60V	24AWG	0.25	PUR / PVC	MC-WF05STMF-XXXB25
06 pins		2A	30V	30V	24AWG	0.25	PUR / PVC	MC-WF06STMF-XXXB25

Note: X refers to cable specification

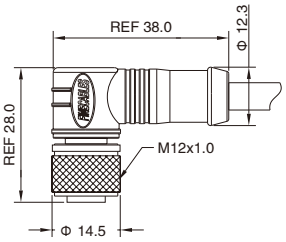
Remarks

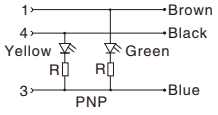
- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Angled, with LED Indicator(PNP)

- Connector series: M12
- Gender: Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12LPAF**RAXXXXXX

** refers to pins number
X refers to cable specification



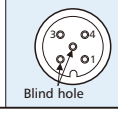


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector overmold:	Transparent TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
			A/C	D/C	AWG	mm²		
03 pins	 Blind hole	4A	30V	30V	22AWG	0.34	PUR / PVC	MA12LPAF03RA<u>XXX</u>B34

Note: <u>X</u> refers to cable specification

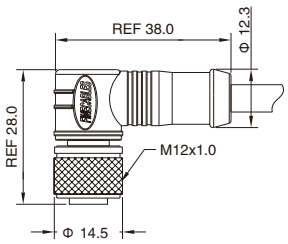
Remarks

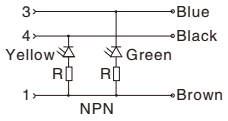
- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Angled, with LED Indicator(NPN)

- Connector series: M12
- Gender: Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12LNAF**RAXXXXXX

** refers to pins number
X refers to cable specification



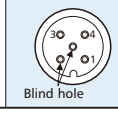


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector overmold:	Transparent TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
			A/C	D/C	AWG	mm^2		
03 pins	 Blind hole	4A	30V	30V	22AWG	0.34	PUR / PVC	MA12LNAF03RA<u>XXX</u>B34

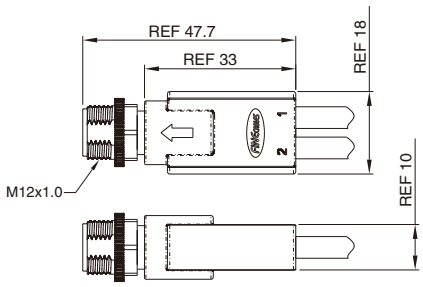
Note: <u>X</u> refers to cable specification

Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm^2.
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded 2 Cables, Straight

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MT-015~021;
  MT-049~052;
  MT-079



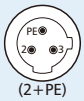
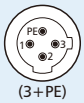
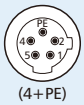
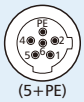
CE RoHS IP68

General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

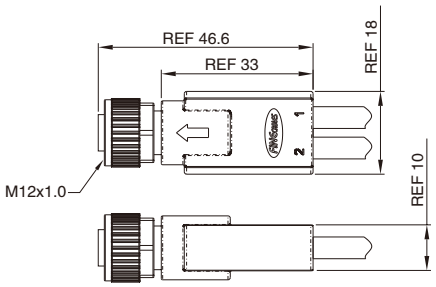
Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MT-015 (A-Coding) MT-018 (B-Coding) MT-049 (C-Coding)
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MT-016 (A-Coding) MT-019 (B-Coding) MT-050 (C-Coding) MT-021 (D-Coding)
05 pins			 (4+PE)		4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC	MT-017 (A-Coding) MT-020 (B-Coding) MT-051 (C-Coding)
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	MT-052 (C-Coding)
08 pins	 Available				2A	30V	30V	24AWG	0.25	PUR / PVC	MT-079 (A-Coding)

Remarks

• Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

M12 Female Molded 2 Cables, Straight

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MT-029~035;
  MT-057~060;
  MT-080



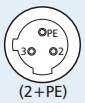
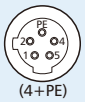
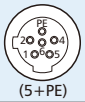
CE RoHS IP68

General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU;PA
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Connector contacts:	Brass with gold plated
Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

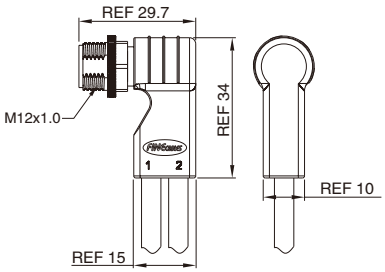
Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MT-029 (A-Coding) MT-032 (B-Coding) MT-057 (C-Coding)
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MT-030 (A-Coding) MT-033 (B-Coding) MT-058 (C-Coding) MT-035 (D-Coding)
05 pins			 (4+PE)		4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC	MT-031 (A-Coding) MT-034 (B-Coding) MT-059 (C-Coding)
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	MT-060 (C-Coding)
08 pins	 Available				2A	30V	30V	24AWG	0.25	PUR / PVC	MT-080 (A-Coding)

Remarks

• Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

M12 Male Molded 2 Cables, Angled

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MT-022~028;
  MT-053~056



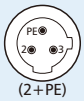
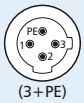
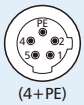
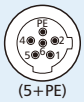
CE RoHS IP68

General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

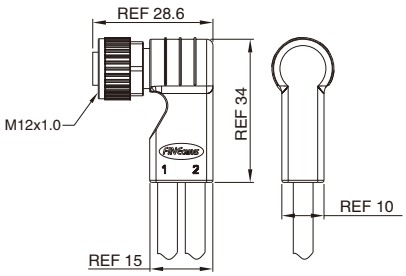
Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MT-022 (A-Coding) MT-025 (B-Coding) MT-053 (C-Coding)
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MT-023 (A-Coding) MT-026 (B-Coding) MT-054 (C-Coding) MT-028 (D-Coding)
05 pins			 (4+PE)		4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC	MT-024 (A-Coding) MT-027 (B-Coding) MT-055 (C-Coding)
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	MT-056 (C-Coding)

Remarks

• Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

M12 Female Molded 2 Cables, Angled

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MT-036~042;
  MT-061~064



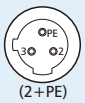
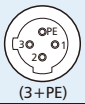
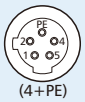
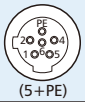
CE RoHS IP68

General information

Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Connector contacts:	Brass with gold plated
Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MT-036 (A-Coding) MT-039 (B-Coding) MT-061 (C-Coding)
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	MT-037 (A-Coding) MT-040 (B-Coding) MT-062 (C-Coding) MT-042 (D-Coding)
05 pins			 (4+PE)		4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC	MT-038 (A-Coding) MT-041 (B-Coding) MT-063 (C-Coding)
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	MT-064 (C-Coding)

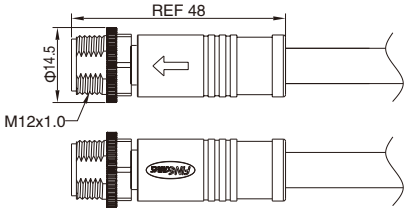
Remarks

• Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

M12 Male Molded Cable, Straight, S-coding

- Connector series: M12
- Gender: Male
- Coding: S
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MSHD04STXXXXXX

  X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Rated Voltage	Wire gauge / size		Cable jacket	Part No.
				AWG	mm²		
04 pins	 (3+PE)	12A(40℃)	630V	16AWG	1.5	PUR / PVC	MA12MSHD04ST*XXX*B150

Note: *X* refers to cable specification

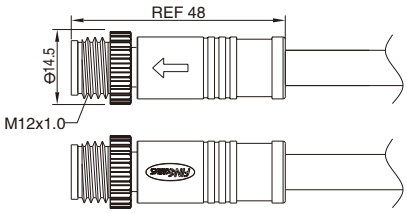
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Straight, S-coding, Plastic Screw

- Connector series: M12
- Gender: Male
- Coding: S
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MSP04STXXXXXX

  X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	PA+GF

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Rated Voltage	Wire gauge / size		Cable jacket	Part No.
				AWG	mm²		
04 pins	 (3+PE)	12A(40℃)	630V	16AWG	1.5	PUR / PVC	MA12MSP04ST<u>XXX</u>B150

Note: <u>X</u> refers to cable specification

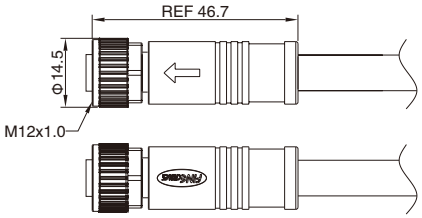
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Straight, S-coding

- Connector series: M12
- Gender: Female
- Coding: S
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12FSHD04STXXXXXX

  X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Rated Voltage	Wire gauge / size		Cable jacket	Part No.
				AWG	mm²		
04 pins	 (3+PE)	12A(40℃)	630V	16AWG	1.5	PUR / PVC	MA12FSHD04ST<u>XXX</u>B150

Note: <u>X</u> refers to cable specification

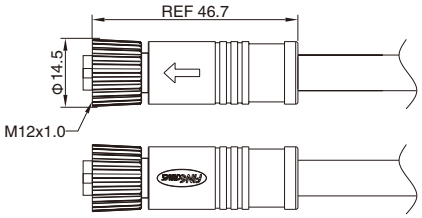
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Straight, S-coding, Plastic Nut

- Connector series: M12
- Gender: Female
- Coding: S
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12FSP04STXXXXXX

  X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Rated Voltage	Wire gauge / size		Cable jacket	Part No.
				AWG	mm²		
04 pins	 (3+PE)	12A(40℃)	630V	16AWG	1.5	PUR / PVC	MA12FSP04ST<u>XXX</u>B150

Note: <u>X</u> refers to cable specification

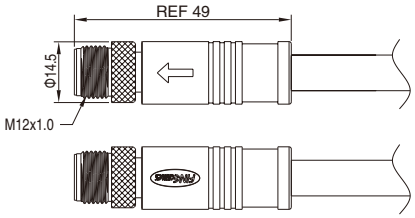
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Straight, S-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: S
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MSSF04STXXXXXX

  X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Rated Voltage	Wire gauge / size		Cable jacket	Part No.
				AWG	mm²		
04 pins	 (3+PE)	12A(40℃)	630V	16AWG	1.5	PUR / PVC	MA12MSSF04ST<u>XXX</u>B150

Note: <u>X</u> refers to cable specification

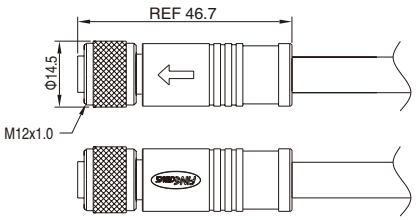
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Straight, S-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: S
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12FSSF04STXXXXXX

  X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Rated Voltage	Wire gauge / size		Cable jacket	Part No.
				AWG	mm²		
04 pins	 (3+PE)	12A(40℃)	630V	16AWG	1.5	PUR / PVC	MA12FSSF04ST<u>XXX</u>B150

Note: <u>X</u> refers to cable specification

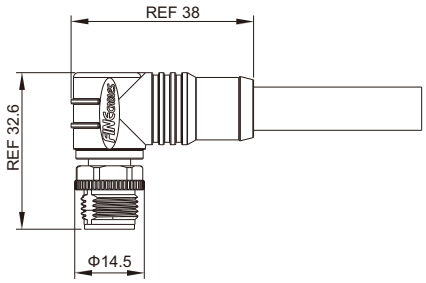
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Angled, S-coding

- Connector series: M12
- Gender: Male
- Coding: S
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12MSHD04RAXXXXXX

  X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Rated Voltage	Wire gauge / size		Cable jacket	Part No.
				AWG	mm²		
04 pins	 (3+PE)	12A(40℃)	630V	16AWG	1.5	PUR / PVC	MA12MSHD04RA<u>XXX</u>B150

Note: <u>X</u> refers to cable specification

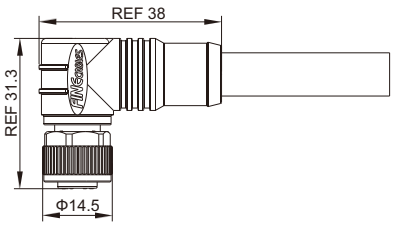
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Angled, S-coding

- Connector series: M12
- Gender: Female
- Coding: S
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12FSHD04RAXXXXXX

  X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Rated Voltage	Wire gauge / size		Cable jacket	Part No.
				AWG	mm²		
04 pins	 (3+PE)	12A(40℃)	630V	16AWG	1.5	PUR / PVC	MA12FSHD04RA<u>XXX</u>B150

Note: <u>X</u> refers to cable specification

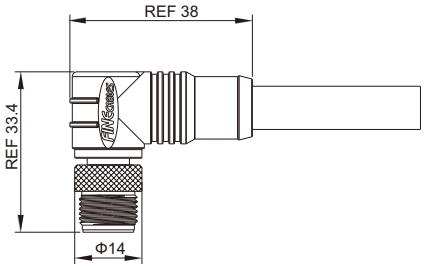
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Angled, S-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: S
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12MSSF04RAXXXXXX

  X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Rated Voltage	Wire gauge / size		Cable jacket	Part No.
				AWG	mm²		
04 pins	 (3+PE)	12A(40℃)	630V	16AWG	1.5	PUR / PVC	MA12MSSF04RA*XXX*B150

Note: *X* refers to cable specification

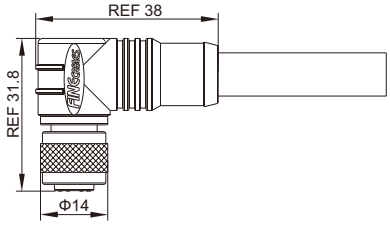
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Angled, S-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: S
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12FSSF04RAXXXXXX

  X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Rated Voltage	Wire gauge / size		Cable jacket	Part No.
				AWG	mm²		
04 pins	 (3+PE)	12A(40℃)	630V	16AWG	1.5	PUR / PVC	MA12FSSF04RA<u>XXX</u>B150

Note: <u>X</u> refers to cable specification

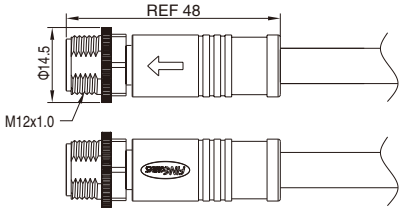
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Straight, T-coding

- Connector series: M12
- Gender: Male
- Coding: T
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MTHD04STXXXXXX

  X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Rated Voltage	Wire gauge / size		Cable jacket	Part No.
				AWG	mm²		
04 pins		12A(40℃)	630V	16AWG	1.5	PUR / PVC	MA12MTHD04ST*XXX*B150

Note: *X* refers to cable specification

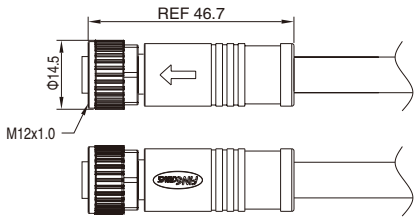
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Straight, T-coding

- Connector series: M12
- Gender: Female
- Coding: T
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12FTHD04STXXXXXX

  X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Rated Voltage	Wire gauge / size		Cable jacket	Part No.
				AWG	mm²		
04 pins		12A(40℃)	630V	16AWG	1.5	PUR / PVC	MA12FTHD04ST<u>XXX</u>B150

Note: <u>X</u> refers to cable specification

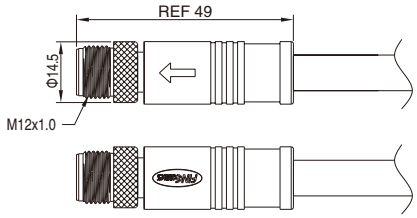
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Straight, T-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: T
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MSTF04STXXXXXX

  X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Rated Voltage	Wire gauge / size		Cable jacket	Part No.
				AWG	mm²		
04 pins		12A(40℃)	630V	16AWG	1.5	PUR / PVC	MA12MSTF04ST*XXX*B150

Note: *X* refers to cable specification

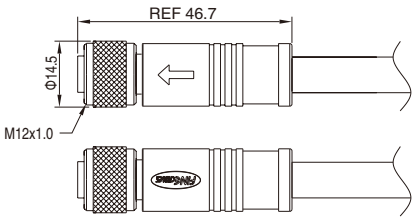
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Straight, T-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: T
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12FSTF04STXXXXXX

  X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Rated Voltage	Wire gauge / size		Cable jacket	Part No.
				AWG	mm²		
04 pins		12A(40℃)	630V	16AWG	1.5	PUR / PVC	MA12FSTF04ST<u>XXX</u>B150

Note: <u>X</u> refers to cable specification

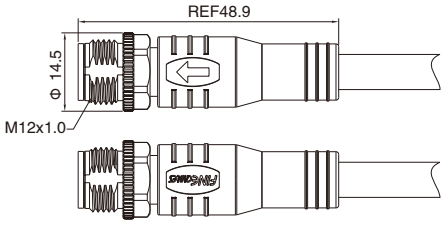
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Straight, X-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: X
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MSXHD08STXXXXXX

  X refers to cable specification



General information

Standard:	IEC 61076-2-109
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Transmission characteristic:	CAT 6A /CAT 7
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
			A/C	D/C	AWG	mm²		
08 pins		0.5A	50V	60V	27~24AWG	0.14~0.25	CAT 6A /CAT 7	MA12MSXHD08ST*XXXXXX*

Note: *X* refers to cable specification

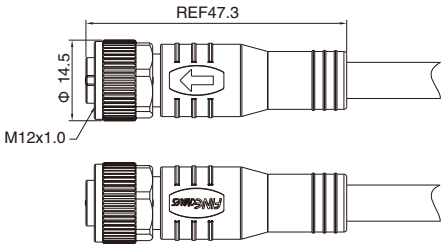
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Straight, X-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: X
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12FSXHD08STXXXXXX

  X refers to cable specification



General information

Standard:	IEC 61076-2-109
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector screw:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Transmission characteristic:	CAT 6A /CAT 7
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
			A/C	D/C	AWG	mm²		
08 pins		0.5A	50V	60V	27~24AWG	0.14~0.25	CAT 6A /CAT 7	MA12FSXHD08ST*XXXXXX*

Note: *X* refers to cable specification

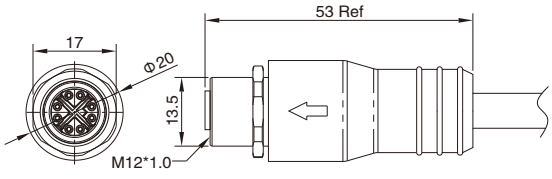
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Straight, X-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: X
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12FSXN08STXXXXXX

  X refers to cable specification



General information

Standard:	IEC 61076-2-109
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA / TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Transmission characteristic:	CAT 6A /CAT 7
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
			A/C	D/C	AWG	mm²		
08 pins		0.5A	50V	60V	27~24AWG	0.14~0.25	CAT 6A /CAT 7	MA12FSXN08ST*XXXXXX*

Note: *X* refers to cable specification

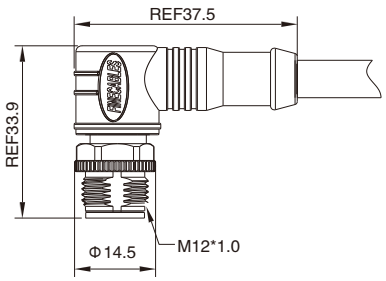
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Angled, X-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: X
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12MSXHD08RAXXXXXX

  X refers to cable specification



General information

Standard:	IEC 61076-2-109
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Transmission characteristic:	CAT 6A /CAT 7
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
			A/C	D/C	AWG	mm²		
08 pins		0.5A	50V	60V	27~24AWG	0.14~0.25	CAT 6A /CAT 7	MA12MSXHD08RA*XXXXXX*

Note: *X* refers to cable specification

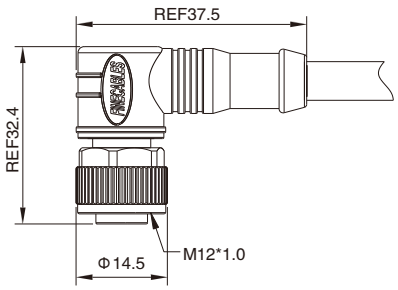
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Angled, X-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: X
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12FSXHD08RAXXXXXX

  X refers to cable specification



General information

Standard:	IEC 61076-2-109
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector screw:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Transmission characteristic:	CAT 6A /CAT 7
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
			A/C	D/C	AWG	mm²		
08 pins		0.5A	50V	60V	27~24AWG	0.14~0.25	CAT 6A /CAT 7	MA12FSXHD08RAXXXXXX

Note: X refers to cable specification

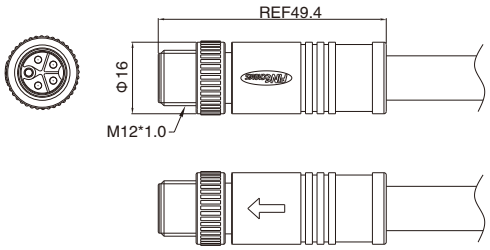
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Straight, K-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: K
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MSKF05STXXXX200

  X refers to cable specification



General information

Standard:	IEC 61076-2-111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU+PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽8mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
			A/C	D/C	AWG	mm²		
05 pins	 (4+PE)	16A	690V	NC	14AWG	2.0	PUR / PVC	MA12MSKF05ST<u>XXXX</u>200

Note: <u>X</u> refers to cable specification

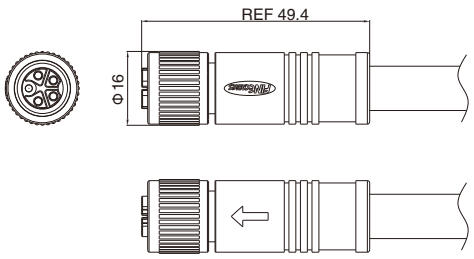
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Straight, K-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: K
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12FSKF05STXXXX200

  X refers to cable specification



General information

Standard:	IEC 61076-2-111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU+PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽8mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
			A/C	D/C	AWG	mm²		
05 pins	 (4+PE)	16A	690V	NC	14AWG	2.0	PUR / PVC	MA12FSKF05ST<u>XXXX</u>200

Note: <u>X</u> refers to cable specification

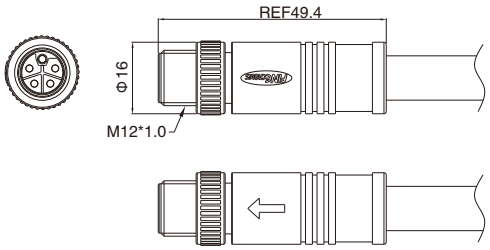
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Straight, L-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: L
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MSLF05STXXXX200

  X refers to cable specification



General information

Standard:	IEC 61076-2-111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU+PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
			A/C	D/C	AWG	mm²		
05 pins	 (4+PE)	16A	NC	63V	14AWG	2.0	PUR / PVC	MA12MSLF05ST*XXXX*200

Note: *X* refers to cable specification

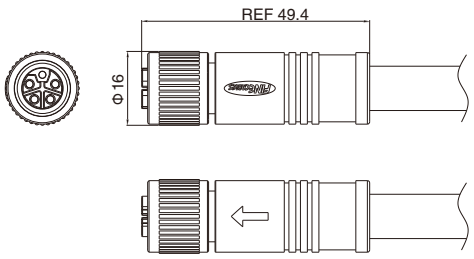
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Straight, L-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: L
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12FSLF05STXXXX200

  X refers to cable specification

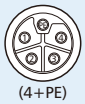


General information

Standard:	IEC 61076-2-111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU+PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
			A/C	D/C	AWG	mm²		
05 pins	 (4+PE)	16A	NC	690V	14AWG	2.0	PUR / PVC	MA12FSLF05ST<u>XXXX</u>200

Note: <u>X</u> refers to cable specification

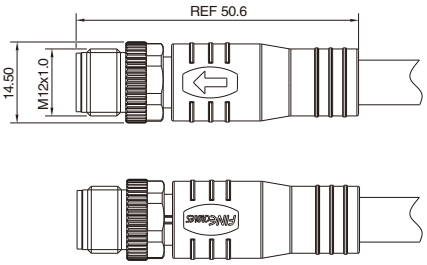
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Straight, Y1-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: Y1
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MSY1F06STXXXXXX

  X refers to cable specification



General information

Standard:	IEC 61076-2-113
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Part No.
			A/C	D/C	AWG	mm²			
06 pins		10A (Power pins) 0.5A (Signal pins)	50V	50V	16AWG (Power pins) 26AWG (Signal pins)	1.25 (Power pins) 0.15 (Signal pins)	PUR / PVC	PP	MA12MSY1F06ST*XXXXXX*

Note: *X* refers to cable specification

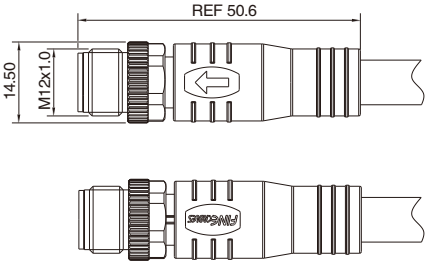
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Straight, Y2-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: Y2
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MSY2F08STXXXXXX

  X refers to cable specification



General information

Standard:	IEC 61076-2-113
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Part No.
			A/C	D/C	AWG	mm²			
08 pins		6A (Power pins) 0.5A (Signal pins)	50V	50V	20AWG (Power pins) 26AWG (Signal pins)	0.6 (Power pins) 0.15 (Signal pins)	PUR / PVC	PP	MA12MSY2F08ST<u>XXXXXX</u>

Note: <u>X</u> refers to cable specification

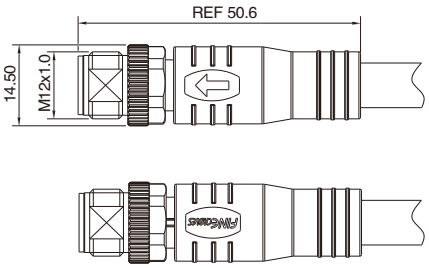
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Straight, Y3-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: Y3
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MSY3F06STXXXXXX

  X refers to cable specification



General information

Standard:	IEC 61076-2-113
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Part No.
			A/C	D/C	AWG	mm²			
06 pins		12A (Power pins) 0.5A (Signal pins)	50V	50V	16AWG (Power pins) 26AWG (Signal pins)	1.25 (Power pins) 0.15 (Signal pins)	PUR / PVC	PE+PP	MA12MSY3F06ST<u>XXXXXX</u>

Note: <u>X</u> refers to cable specification

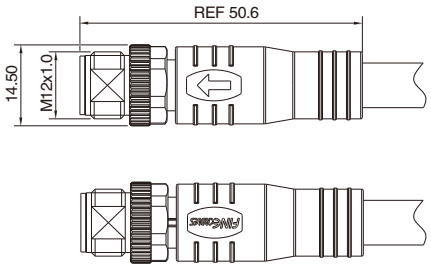
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Straight, Y4-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: Y4
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MSY4F08STXXXXXX

  X refers to cable specification



General information

Standard:	IEC 61076-2-113
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Part No.
			A/C	D/C	AWG	mm²			
08 pins		6A (Power pins) 0.5A (Signal pins)	50V	50V	20AWG (Power pins) 26AWG (Signal pins)	0.6 (Power pins) 0.15 (Signal pins)	PUR / PVC	PE+PP	MA12MSY4F08ST<u>XXXXXX</u>

Note: X refers to cable specification

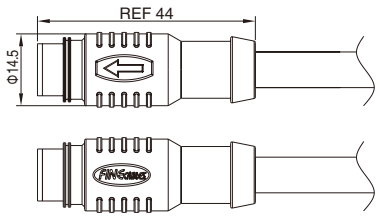
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Straight, Snap-in Type

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Snap-in
- Mounting type: Straight
- Part No.: MA12M*I**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP65 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D		A/C	D/C	AWG	mm²		
03 pins				4A	250V	250V	22AWG	0.34	PUR / PVC	MA12MAI03ST<u>XXX</u>B34 MA12MBI03ST<u>XXX</u>B34
04 pins				4A	250V	250V	22AWG	0.34	PUR / PVC	MA12MAI04ST<u>XXX</u>B34 MA12MBI04ST<u>XXX</u>B34 MA12MCI04ST<u>XXX</u>B34
05 pins				4A	60V	60V	22AWG	0.34	PUR / PVC	MA12MAI05ST<u>XXX</u>B34 MA12MBI05ST<u>XXX</u>B34
08 pins				2A	30V	30V	24AWG	0.25	PUR / PVC	MA12MAI03ST<u>XXX</u>B25

Note: <u>X</u> refers to cable specification

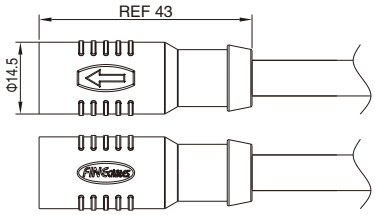
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Straight, Snap-in Type

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Snap-in
- Mounting type: Straight
- Part No.: MA12F*I**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP65 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D		A/C	D/C	AWG	mm²		
03 pins				4A	250V	250V	22AWG	0.34	PUR / PVC	MA12FAI03ST<u>XXX</u>B34 MA12FBI03ST<u>XXX</u>B34
04 pins				4A	250V	250V	22AWG	0.34	PUR / PVC	MA12FAI04ST<u>XXX</u>B34 MA12FBI04ST<u>XXX</u>B34 MA12FCI04ST<u>XXX</u>B34
05 pins				4A	60V	60V	22AWG	0.34	PUR / PVC	MA12FAI05ST<u>XXX</u>B34 MA12FBI05ST<u>XXX</u>B34
08 pins				2A	30V	30V	24AWG	0.25	PUR / PVC	MA12FAI03ST<u>XXX</u>B25

Note: <u>X</u> refers to cable specification

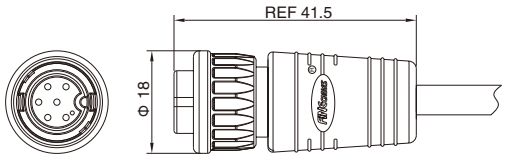
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Molded Cable, Straight, Quick-lock Type, With Fix-cap

- Connector series: M12
- Gender: Male
- Locking type: Quick-lock
- Mounting type: Straight
- Part No.: MA12MAQ**STXXXX34

** refers to pins number
X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Quick-lock Fix-cap:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP65, IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
			A/C	D/C	AWG	mm²		
04 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12MAQ04ST*XXX*B34
06 pins		4A	60V	60V	22AWG	0.34	PUR / PVC	MA12MAQ06ST*XXX*B34

Note: *X* refers to cable specification

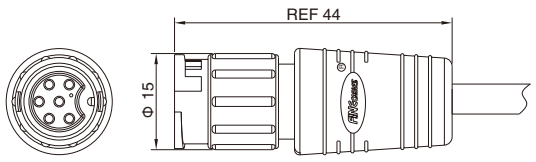
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Straight, Quick-lock Type

- Connector series: M12
- Gender: Female
- Locking type: Quick-lock
- Mounting type: Straight
- Part No.: MA12FAQ**STXXXX34

** refers to pins number
X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP65, IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
			A/C	D/C	AWG	mm²		
04 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12FAQ04ST*XXX*B34
06 pins		4A	60V	60V	22AWG	0.34	PUR / PVC	MA12FAQ06ST*XXX*B34

Note: *X* refers to cable specification

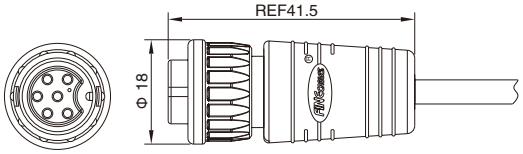
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Molded Cable, Straight, Quick-lock Type, With Fix-cap

- Connector series: M12
- Gender: Female
- Locking type: Quick-lock
- Mounting type: Straight
- Part No.: MA12FRAQ**STXXXX34

** refers to pins number
X refers to cable specification



General information

Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Quick-lock Fix-cap:	PA + GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP65, IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Rated Voltage		Wire gauge / size		Cable jacket	Part No.
			A/C	D/C	AWG	mm²		
05 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	MA12FRAQ04ST*XXX*B34
06 pins		4A	60V	60V	22AWG	0.34	PUR / PVC	MA12FRAQ06ST*XXX*B34

Note: *X* refers to cable specification

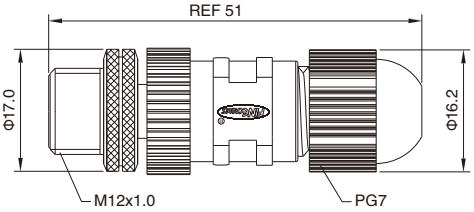
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Straight, Solder

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12MA*FF**ST

* refers to coding type
** refers to pins number

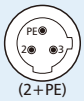
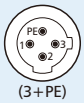
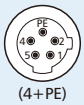
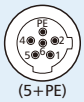


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	4~5.5mm
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D			A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MAAFF03ST MB12MABFF03ST MB12MACFF03ST
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MAAFF04ST MB12MABFF04ST MB12MACFF04ST MB12MADFF04ST
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR/PVC or customized	MB12MAAFF05ST MB12MABFF05ST MB12MACFF05ST
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MACFF05ST
08 pins					Solder version	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MAAFF05ST
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	PUR/PVC or customized	MB12MAAFF05ST

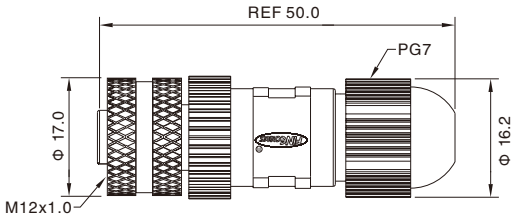
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Straight, Solder

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FA*FF**ST

* refers to coding type
** refers to pins number

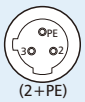
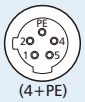
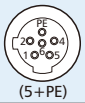


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	4~5.5mm
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D			A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FAAFF03ST MB12FABFF03ST MB12FACFF03ST
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FAAFF04ST MB12FABFF04ST MB12FACFF04ST MB12FADFF04ST
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR/PVC or customized	MB12FAAFF05ST MB12FABFF05ST MB12FACFF05ST
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FACFF05ST
08 pins					Solder version	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FAAFF05ST
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	PUR/PVC or customized	MB12FAAFF05ST

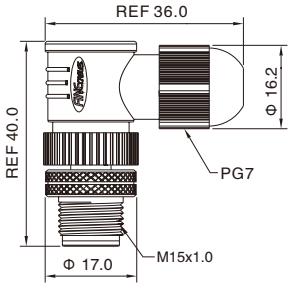
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Angled, Solder

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12MA*FF**RA

* refers to coding type
** refers to pins number

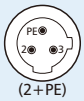
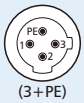
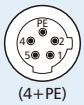
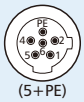


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	4~5.5mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 282
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D			A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	PUR / PVC or customized	MB12MAAFF03RA MB12MABFF03RA MB12MACFF03RA
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	PUR / PVC or customized	MB12MAAFF04RA MB12MABFF04RA MB12MACFF04RA MB12MADFF04RA
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR / PVC or customized	MB12MAAFF05RA MB12MABFF05RA MB12MACFF05RA
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	PUR / PVC or customized	MB12MACFF05RA
08 pins					Solder version	2A	30V	30V	24AWG	0.25	PUR / PVC or customized	MB12MAAFF05RA

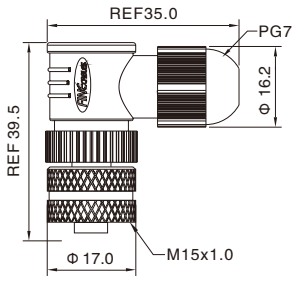
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Angled, Solder

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12FA*FF**RA

* refers to coding type
** refers to pins number

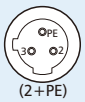
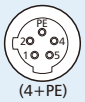
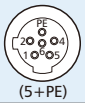


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	4~5.5mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 283
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	C	D			A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FAAFF03RA MB12FABFF03RA MB12FACFF03RA
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FAAFF04RA MB12FABFF04RA MB12FACFF04RA MB12FADFF04RA
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	PUR/PVC or customized	MB12FAAFF05RA MB12FABFF05RA MB12FACFF05RA
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FACFF06RA
08 pins					Solder version	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FAAFF08RA

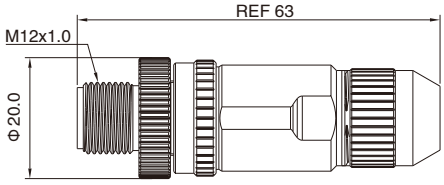
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Straight, Screw joint, Shielded

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12MWS*FF**ST-A
  MB12MWS*FF**ST-B

* refers to coding type
** refers to pins number
– suitable cable Dia: A:4~6mm B:6~8mm



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
Suitable cable Dia:	A: 4~6mm; B: 6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 285
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWSAFF03ST-A/B MB12MWSBFF03ST-A/B
04 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWSAFF04ST-A/B MB12MWSBFF04ST-A/B MB12MWSDFF04ST-A/B
05 pins				Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12MWSAFF05ST-A/B MB12MWSBFF05ST-A/B
08 pins				Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MWSAFF08ST-A/B

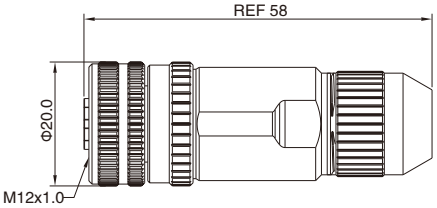
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Straight, Screw joint, Shielded

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FWS*FF**ST-A
  MB12FWS*FF**ST-B

* refers to coding type
** refers to pins number
– suitable cable Dia: A:4~6mm B:6~8mm



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
Suitable cable Dia:	A: 4~6mm; B: 6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 285
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWSAFF03ST-A/B MB12FWSBFF03ST-A/B
04 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWSAFF04ST-A/B MB12FWSBFF04ST-A/B MB12FWSDFF04ST-A/B
05 pins				Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12FWSAFF05ST-A/B MB12FWSBFF05ST-A/B
08 pins				Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FWSAFF08ST-A/B

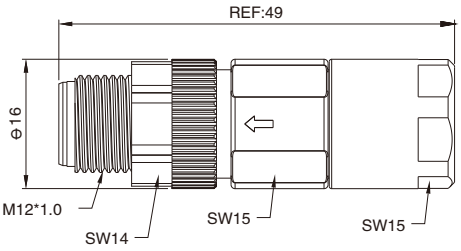
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Field Assembly, Shielded Crimp Type

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12MCS*FF**ST-A
  MB12MCS*FF**ST-B

* refers to coding type
** refers to pins number
– suitable cable Dia: A:4~6mm B:6~8mm



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
Suitable cable Dia:	A: 4~6mm; B:6~8mm
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Crimp type	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MCSAFF03ST-A/B MB12MCSBFF03ST-A/B
04 pins				Crimp type	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MCSAFF04ST-A/B MB12MCSBFF04ST-A/B MB12MCSDFF04ST-A/B
05 pins				Crimp type	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12MCSAFF05ST-A/B MB12MCSBFF05ST-A/B
08 pins				Crimp type	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MCSAFF08ST-A/B

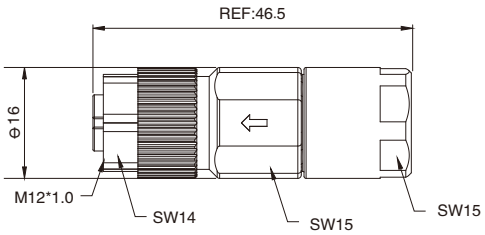
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Field Assembly, Shielded Crimp Type

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FCSxFF**ST-A
  MB12FCSxFF**ST-B

* refers to coding type
** refers to pins number
– suitable cable Dia: A:4~6mm B:6~8mm



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
Suitable cable Dia:	A: 4~6mm; B: 6~8mm
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

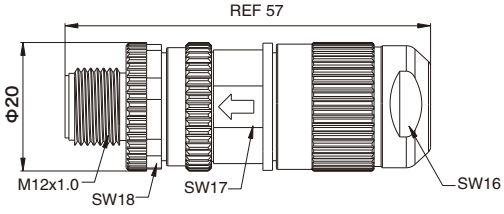
Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Crimp type	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FCSAFF03ST-A/B MB12FCSBFF03ST-A/B
04 pins				Crimp type	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FCSAFF04ST-A/B MB12FCSBFF04ST-A/B MB12FCSDFF04ST-A/B
05 pins				Crimp type	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12FCSAFF05ST-A/B MB12FCSBFF05ST-A/B
08 pins				Crimp type	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FCSAFF08ST-A/B

Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Straight, Piercing, X-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: X
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12MPSXFF08ST



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass/Zinc with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
Suitable cable Dia:	5.5~9.0mm
IP rating:	IP68 in locked condition
Transmission characteristic:	CAT 6_A/CAT 7
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable spec	Part No.
				A/C	D/C	AWG	mm^2		
08 pins		Piercing	0.5A	50V	60V	27~24	0.14~0.34	CAT 6A/CAT 7	MB12MPSXFF08ST

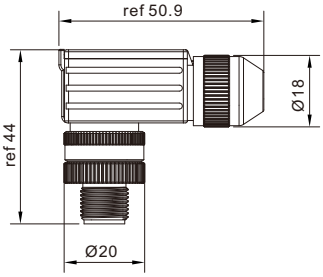
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm^2.
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Angled, Screw joint, Shielded with Die-cast body

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12MWS*FF**RA-A
  MB12MWS*FF**RA-B

* refers to coding type
** refers to pins number
– suitable cable Dia: A:4~6mm B:6~8mm



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
Suitable cable Dia:	A:4~6mm; B:6~8mm
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWSAFF03RA-A/B MB12MWSBFF03RA-A/B
04 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWSAFF04RA-A/B MB12MWSBFF04RA-A/B MB12MWSDFF04RA-A/B
05 pins				Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12MWSAFF05RA-A/B MB12MWSBFF05RA-A/B
08 pins				Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MWSAFF08RA-A/B

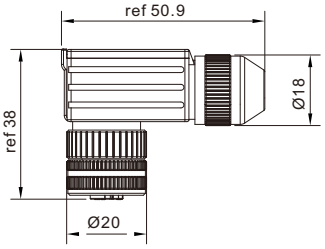
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Angled, Screw joint, Shielded with Die-cast body

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12FWS*FF**RA-A
  MB12FWS*FF**RA-B

* refers to coding type
** refers to pins number
– suitable cable Dia: A:4~6mm B:6~8mm



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
Suitable cable Dia:	A:4~6mm; B:6~8mm
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWSAFF03RA-A/B MB12FWSBFF03RA-A/B
04 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWSAFF04RA-A/B MB12FWSBFF04RA-A/B MB12FWSDFF04RA-A/B
05 pins				Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12FWSAFF05RA-A/B MB12FWSBFF05RA-A/B
08 pins				Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FWSAFF08RA-A/B

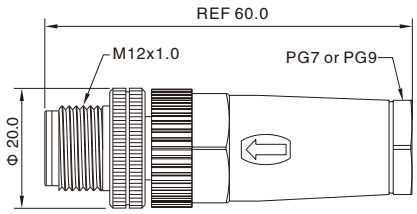
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Straight, Screw joint

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12MW*FF**ST-X

* refers to coding type
** refers to pins number
X refers to Cable gland size: 3=PG9, 4=PG7



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Aluminum Alloy anodized
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG7:4~6mm / PG9:6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 284
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWAFF03ST-X MB12MWBFF03ST-X
04 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWAFF04ST-X MB12MWBFF04ST-X MB12MWCFF04ST-X
05 pins				Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12MWAFF05ST-X MB12MWBFF05ST-X
08 pins				Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MWAFF08ST-X

Note: X refers to Cable gland size: 3=PG9, 4=PG7

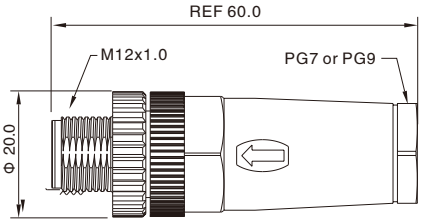
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Straight, Screw joint, Plastic Screw

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Plastic fix screw
- Mounting type: Straight
- Part No.: MB12MW*FP**ST-X

* refers to coding type
** refers to pins number
X refers to Cable gland size: 3=PG9, 4=PG7



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG7:4~6mm / PG9:6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 284
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWAFP03ST-X MB12MWBFP03ST-X
04 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWAFP04ST-X MB12MWBFP04ST-X MB12MWCFP04ST-X
05 pins				Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12MWAFP05ST-X MB12MWBFP05ST-X
08 pins				Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MWAFP08ST-X

Note: X refers to Cable gland size: 3=PG9, 4=PG7

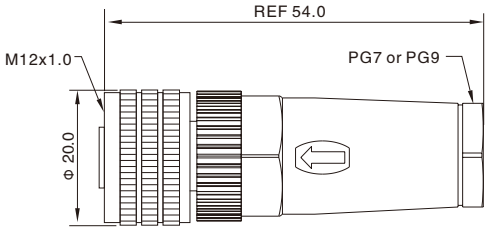
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Straight, Screw joint

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FW*FF**ST-X

* refers to coding type
** refers to pins number
X refers to Cable gland size: 3=PG9, 4=PG7



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Aluminum Alloy anodized
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG7:4~6mm / PG9:6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 284
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWAFF03ST-X MB12FWBFF03ST-X
04 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWAFF04ST-X MB12FWBFF04ST-X MB12FWCFF04ST-X
05 pins				Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12FWAFF05ST-X MB12FWBFF05ST-X
08 pins				Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FWAFF08ST-X

Note: X refers to Cable gland size: 3=PG9, 4=PG7

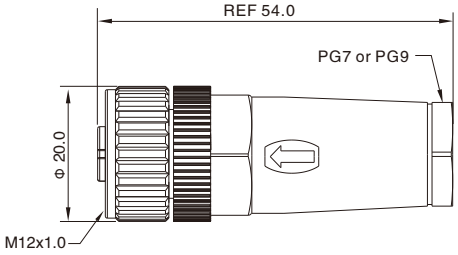
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Straight, Screw joint, Plastic Nut

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Plastic fix screw
- Mounting type: Straight
- Part No.: MB12FW*FP**ST-X

* refers to coding type
** refers to pins number
X refers to Cable gland size: 3=PG9, 4=PG7



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG7:4~6mm / PG9:6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 284
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWAFP03ST-X MB12FWBFP03ST-X
04 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWAFP04ST-X MB12FWBFP04ST-X MB12FWCFP04ST-X
05 pins				Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12FWAFP05ST-X MB12FWBFP05ST-X
08 pins				Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FWAFP08ST-X

Note: X refers to Cable gland size: 3=PG9, 4=PG7

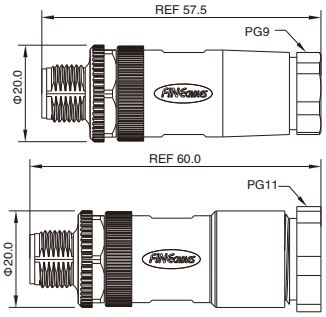
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Straight, Screw joint, S-coding

- Connector series: M12
- Gender: Male
- Coding: S
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12MWSFHD**ST-X

** refers to pins number
X refers to cable gland size: 3=PG9, 7=PG11



General information

Standard:	IEC 61076-2-111
Ambient temperature:	-25℃~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG9: 6-8mm / PG11: 8-10mm
IP rating:	IP68 in locked condition
Assembly instruction:	Refer to page 284
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Rated Voltage		Wire gauge / size		Cable jacket	Part No.
				A/C	D/C	AWG	mm²		
03 pins	 (2+PE)	Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWSFHD03ST-3
04 pins	 (3+PE)	Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWSFHD04ST-7

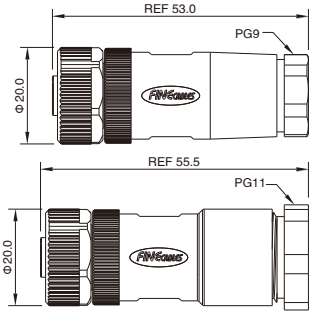
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Straight, Screw joint, S-coding

- Connector series: M12
- Gender: Female
- Coding: S
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FWSFHD**ST-X

** refers to pins number
X refers to cable gland size: 3=PG9, 7=PG11



General information

Standard:	IEC 61076-2-111
Ambient temperature:	-25℃~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG9: 6-8mm / PG11: 8-10mm
IP rating:	IP68 in locked condition
Assembly instruction:	Refer to page 284
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Rated Voltage		Wire gauge / size		Cable jacket	Part No.
				A/C	D/C	AWG	mm²		
03 pins	 (2+PE)	Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWSFHD03ST-3
04 pins	 (3+PE)	Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWSFHD04ST-7

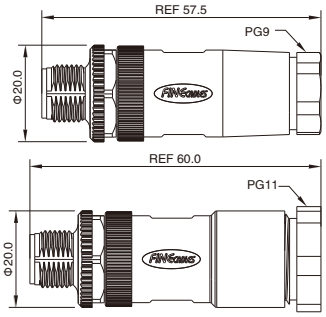
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Straight, Screw joint, T-coding

- Connector series: M12
- Gender: Male
- Coding: T
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12MWTFHD**ST-X

** refers to pins number
X refers to cable gland size: 3=PG9, 7=PG11



General information

Standard:	IEC 61076-2-111
Ambient temperature:	-25℃~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG9: 6-8mm / PG11: 8-10mm
IP rating:	IP68 in locked condition
Assembly instruction:	Refer to page 284
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Rated Voltage		Wire gauge / size		Cable jacket	Part No.
				A/C	D/C	AWG	mm²		
02 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWTFHD02ST-3
03 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWTFHD03ST-3
04 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWTFHD04ST-7

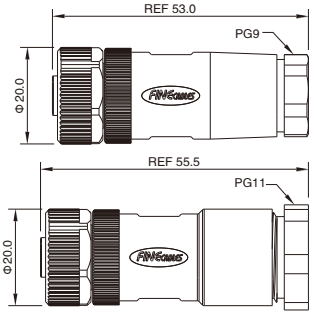
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Straight, Screw joint, T-coding

- Connector series: M12
- Gender: Female
- Coding: T
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FWTFHD**ST-X

** refers to pins number
X refers to cable gland size: 3=PG9, 7=PG11



General information

Standard:	IEC 61076-2-111
Ambient temperature:	-25℃~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG9: 6-8mm / PG11: 8-10mm
IP rating:	IP68 in locked condition
Assembly instruction:	Refer to page 284
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Rated Voltage		Wire gauge / size		Cable jacket	Part No.
				A/C	D/C	AWG	mm^2		
02 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWTFHD02ST-3
03 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWTFHD03ST-3
04 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWTFHD04ST-7

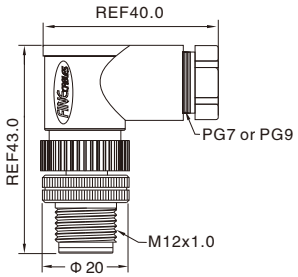
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm^2.
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Angled, Screw joint

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12MW*FF**RA-X

  * refers to coding type
  ** refers to pins number
  X refers to Cable gland size: 3=PG9, 4=PG7



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Aluminum Alloy anodized
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG7:4~6mm / PG9:6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 284
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWAFF03RA-X MB12MWBFF03RA-X
04 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWAFF04RA-X MB12MWBFF04RA-X MB12MWCFF04RA-X
05 pins				Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12MWAFF05RA-X MB12MWBFF05RA-X
08 pins				Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MWAFF08RA-X

Note: X refers to Cable gland size: 3=PG9, 4=PG7

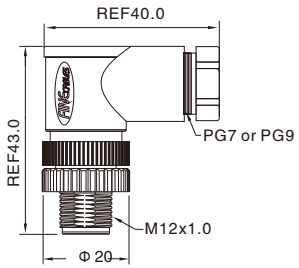
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Angled, Screw joint, Plastic Screw

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Plastic fix screw
- Mounting type: Right angled
- Part No.: MB12MW*FP**RA-X

* refers to coding type
** refers to pins number
X refers to Cable gland size: 3=PG9, 4=PG7



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG7:4~6mm / PG9:6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 284
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWAFP03RA-X MB12MWBFP03RA-X
04 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12MWAFP04RA-X MB12MWBFP04RA-X MB12MWCFP04RA-X
05 pins				Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12MWAFP05RA-X MB12MWBFP05RA-X
08 pins				Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12MWAFP08RA-X

Note: X refers to Cable gland size: 3=PG9, 4=PG7

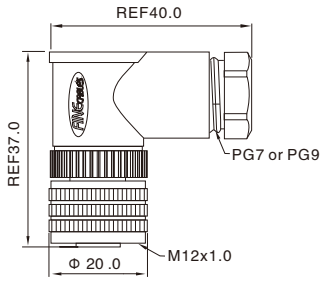
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Angled, Screw joint

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12FW*FF**RA-X

  * refers to coding type
  ** refers to pins number
  X refers to Cable gland size: 3=PG9, 4=PG7



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Aluminum Alloy anodized
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG7:4~6mm / PG9:6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 282
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D			A/C	D/C	AWG	mm^2		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWAFF03RA-X MB12FWBFF03RA-X
04 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWAFF04RA-X MB12FWBFF04RA-X MB12FWCFF04RA-X
05 pins				Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12FWAFF05RA-X MB12FWBFF05RA-X
08 pins				Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FWAFF08RA-X

Note: X refers to Cable gland size: 3=PG9, 4=PG7

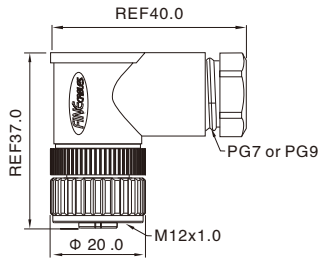
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm^2.
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Angled, Screw joint, Plastic Nut

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Plastic fix screw
- Mounting type: Right angled
- Part No.: MB12FW*FP**RA-X

* refers to coding type
** refers to pins number
X refers to Cable gland size: 3=PG9, 4=PG7



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG7:4~6mm / PG9:6~8mm
IP rating:	IP68 in locked condition
Assembly Instruction:	Refer to page 282
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWAFP03RA-X MB12FWBFP03RA-X
04 pins				Screw joint	4A	250V	250V	22AWG	0.34	PUR/PVC or customized	MB12FWAFP04RA-X MB12FWBFP04RA-X MB12FWCFP04RA-X
05 pins				Screw joint	4A	60V	60V	22AWG	0.34	PUR/PVC or customized	MB12FWAFP05RA-X MB12FWBFP05RA-X
08 pins				Screw joint	2A	30V	30V	24AWG	0.25	PUR/PVC or customized	MB12FWAFP08RA-X

Note: X refers to Cable gland size: 3=PG9, 4=PG7

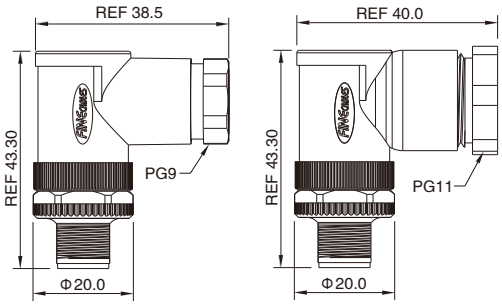
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Angled, Screw joint, S-coding

- Connector series: M12
- Gender: Male
- Coding: S
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12MWSFHD**RA-X

** refers to pins number
X refers to cable gland size: 3=PG9, 7=PG11



General information

Standard:	IEC 61076-2-111
Ambient temperature:	-25℃~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG9: 6-8mm / PG11: 8-10mm
IP rating:	IP68 in locked condition
Assembly instruction:	refer to page 284
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
				A/C	D/C	AWG	mm²		
03 pins	 (2+PE)	Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWSFHD03RA-3
04 pins	 (3+PE)	Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWSFHD04RA-7

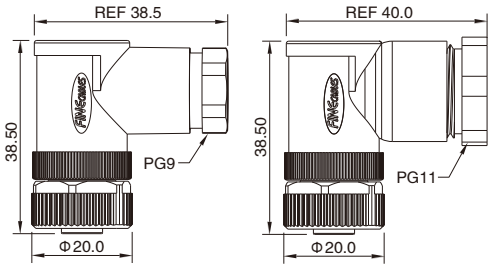
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Angled, Screw joint, S-coding

- Connector series: M12
- Gender: Female
- Coding: S
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12FWSFHD**RA-X

** refers to pins number
X refers to cable gland size: 3=PG9, 7=PG11



General information

Standard:	IEC 61076-2-111
Ambient temperature:	-25℃~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG9: 6-8mm / PG11: 8-10mm
IP rating:	IP68 in locked condition
Assembly instruction:	refer to page 284
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
				A/C	D/C	AWG	mm²		
03 pins	 (2+PE)	Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWSFHD03RA-3
04 pins	 (3+PE)	Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWSFHD04RA-7

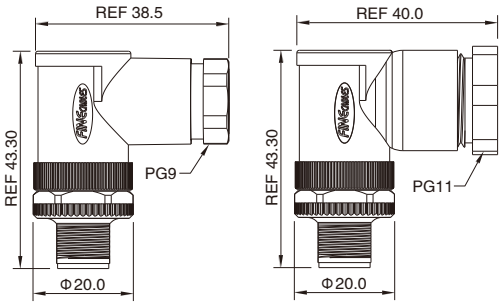
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Angled, Screw joint, T-coding

- Connector series: M12
- Gender: Male
- Coding: T
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12MWTFHD**RA-X

** refers to pins number
X refers to cable gland size: 3=PG9, 7=PG11



General information

Standard:	IEC 61076-2-111
Ambient temperature:	-25℃~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG9: 6-8mm / PG11: 8-10mm
IP rating:	IP68 in locked condition
Assembly instruction:	refer to page 284
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
				A/C	D/C	AWG	mm^2		
02 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWTFHD02RA-3
03 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWTFHD03RA-3
04 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12MWTFHD04RA-7

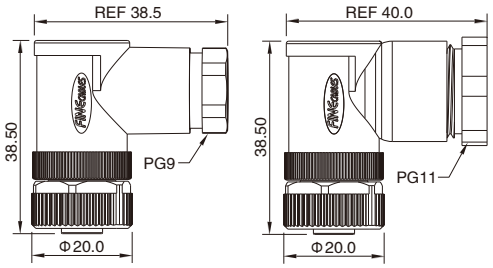
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm^2.
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Angled, Screw joint, T-coding

- Connector series: M12
- Gender: Female
- Coding: T
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12FWTFHD**RA-X

** refers to pins number
X refers to cable gland size: 3=PG9, 7=PG11



General information

Standard:	IEC 61076-2-111
Ambient temperature:	-25℃~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector body:	PA+GF
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	PG9: 6-8mm / PG11: 8-10mm
IP rating:	IP68 in locked condition
Assembly instruction:	refer to page 284
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
				A/C	D/C	AWG	mm^2		
02 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWTFHD02RA-3
03 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWTFHD03RA-3
04 pins		Screw joint	12A(40℃)	630V	630V	16AWG	1.5	PUR/PVC or customized	MB12FWTFHD04RA-7

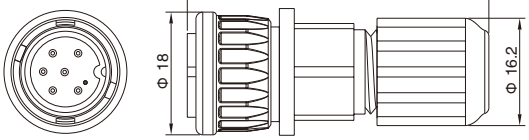
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm^2.
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Straight, Quick-lock Type, With Fix-cap

- Connector series: M12
- Gender: Male
- Locking type: Quick-lock
- Mounting type: Plastic mounting
- Part No.: MB12MAAFQ**ST

** refers to pins number



General information

Ambient temperature:	-25℃ ~ +90℃
Connector insert/body:	PA + GF
Connector contacts:	Brass with gold plated
Quick-lock Fix-cap:	PA + GF
O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	3.0~6.0mm
IP rating:	IP65, IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
				A/C	D/C	AWG	mm²		
04 pins		Solder version	4A	250V	250V	22AWG	0.34	PUR / PVC	MB12MAAFQ04ST
06 pins		Solder version	4A	60V	60V	22AWG	0.34	PUR / PVC	MB12MAAFQ06ST

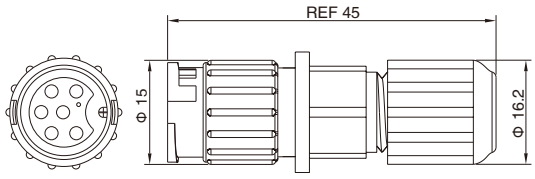
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Straight, Quick-lock Type

- Connector series: M12
- Gender: Female
- Locking type: Quick-lock
- Mounting type: Plastic mounting
- Part No.: MB12FAAFQ**ST

** refers to pins number



General information

Ambient temperature:	-25℃ ~ +90℃
Connector insert/body:	PA + GF
Connector contacts:	Brass with gold plated
O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	3.0~6.0mm
IP rating:	IP65, IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
				A/C	D/C	AWG	mm²		
04 pins		Solder version	4A	250V	250V	22AWG	0.34	PUR / PVC	MB12FAAFQ04ST
06 pins		Solder version	4A	60V	60V	22AWG	0.34	PUR / PVC	MB12FAAFQ06ST

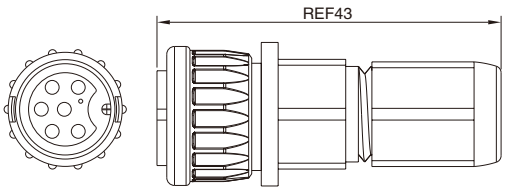
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Straight, Quick-lock Type, With Fix-cap

- Connector series: M12
- Gender: Female
- Locking type: Quick-lock
- Mounting type: Plastic mounting
- Part No.: MB12FARAFQ**ST

** refers to pins number



General information

Ambient temperature:	-25℃ ~ +90℃
Connector insert/body:	PA+GF
Connector contacts:	Brass with gold plated
Quick-lock Fix-cap:	PA+GF
O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
Suitable cable Dia:	3.0~6.0mm
IP rating:	IP65, IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Rated Voltage		Wire gauge / size		Cable jacket	Part No.
				A/C	D/C	AWG	mm²		
05 pins		Solder version	4A	250V	250V	22AWG	0.34	PUR / PVC	MB12FARAFQ04ST
06 pins		Solder version	4A	60V	60V	22AWG	0.34	PUR / PVC	MB12FARAFQ06ST

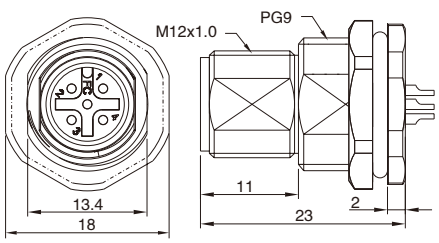
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, Die-cast Screw, Solder, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MS*FHD**ST-3

* refers to coding type
** refers to pins number

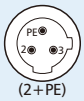
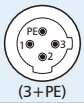
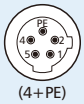
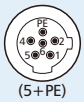


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFHD03ST-3 MB12MSBFHD03ST-3 MB12MSCFHD03ST-3
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFHD04ST-3 MB12MSBFHD04ST-3 MB12MSCFHD04ST-3 MB12MSDFHD04ST-3
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12MSAFHD05ST-3 MB12MSBFHD05ST-3 MB12MSCFHD05ST-3
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12MSCFHD06ST-3
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSAFHD08ST-3

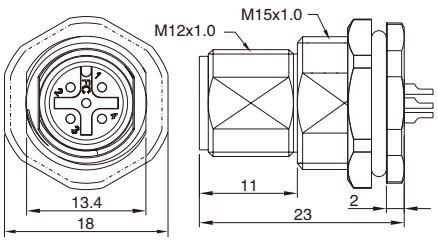
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, Plastic Screw/Nut, Solder, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12MS*FP**ST-1

* refers to coding type
** refers to pins number

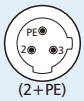
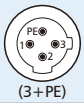
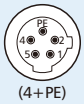
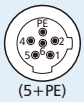


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFP03ST-1 MB12MSBFP03ST-1 MB12MSCFP03ST-1
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFP04ST-1 MB12MSBFP04ST-1 MB12MSCFP04ST-1 MB12MSDFP04ST-1
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12MSAFP05ST-1 MB12MSBFP05ST-1 MB12MSCFP05ST-1
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12MSCFP06ST-1
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSAFP08ST-1

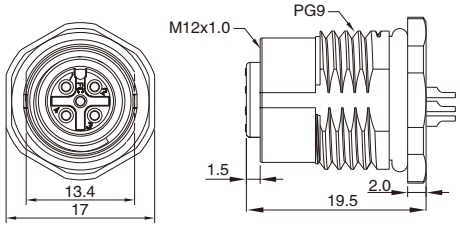
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, Die-cast Screw, Solder, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FS*FHD**ST-3

* refers to coding type
** refers to pins number

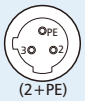
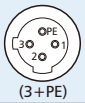
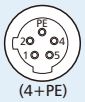
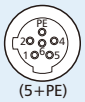


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFHD03ST-3 MB12FSBFHD03ST-3 MB12FSCFHD03ST-3
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFHD04ST-3 MB12FSBFHD04ST-3 MB12FSCFHD04ST-3 MB12FSDFHD04ST-3
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12FSAFHD05ST-3 MB12FSBFHD05ST-3 MB12FSCFHD05ST-3
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12FSCFHD06ST-3
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSAFHD08ST-3

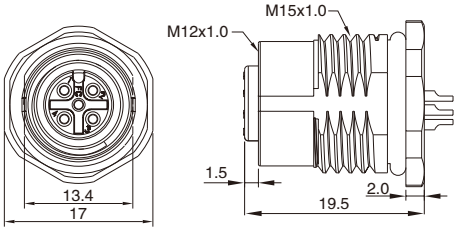
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, Plastic Screw/Nut, Solder, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12FS*FP**ST-1

* refers to coding type
** refers to pins number

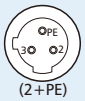
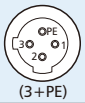
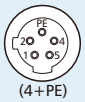
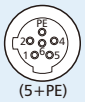


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFP03ST-1 MB12FSBFP03ST-1 MB12FSCFP03ST-1
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFP04ST-1 MB12FSBFP04ST-1 MB12FSCFP04ST-1 MB12FSDFP04ST-1
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12FSAFP05ST-1 MB12FSBFP05ST-1 MB12FSCFP05ST-1
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12FSCFP06ST-1
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSAFP08ST-1

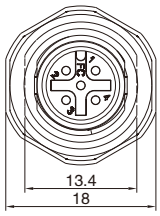
Remarks

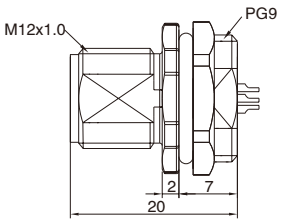
- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, Die-cast Screw, Solder, Rear fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12MS*RHD**ST-3

* refers to coding type
** refers to pins number



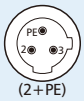
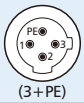
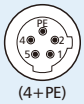
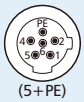


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSARHD03ST-3 MB12MSBRHD03ST-3 MB12MSCRHD03ST-3
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSARHD04ST-3 MB12MSBRHD04ST-3 MB12MSCRHD04ST-3 MB12MSDRHD04ST-3
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12MSARHD05ST-3 MB12MSBRHD05ST-3 MB12MSCRHD05ST-3
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12MSCRHD06ST-3
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSARHD08ST-3

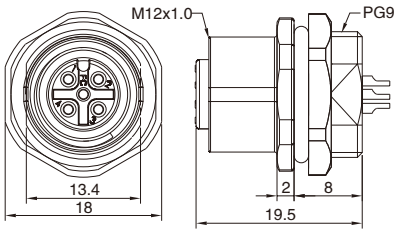
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, Die-cast Screw, Solder, Rear fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12FS*RHD**ST-3

* refers to coding type
** refers to pins number

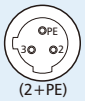
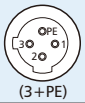
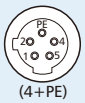
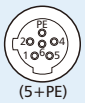


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSARHD03ST-3 MB12FSBRHD03ST-3 MB12FSCRHD03ST-3
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSARHD04ST-3 MB12FSBRHD04ST-3 MB12FSCRHD04ST-3 MB12FSDRHD04ST-3
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12FSARHD05ST-3 MB12FSBRHD05ST-3 MB12FSCRHD05ST-3
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12FSCRHD06ST-3
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSARHD08ST-3

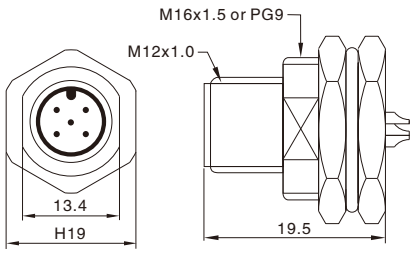
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, Solder, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MS*FF**ST-X

* refers to coding type
** refers to pins number
X refers to Chasis-side thread size

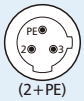
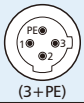
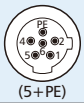


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFF03ST-X MB12MSBFF03ST-X MB12MSCFF03ST-X
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFF04ST-X MB12MSBFF04ST-X MB12MSCFF04ST-X MB12MSDFF04ST-X
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12MSAFF05ST-X MB12MSBFF05ST-X MB12MSCFF05ST-X
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12MSCFF06ST-X
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSAFF08ST-X
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSAFF12ST-X
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB17MSAFF17ST-X

Note: X refers to Chasis-side thread size

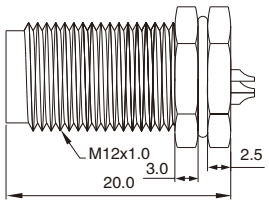
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, Plastic Screw/Nut, Solder, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12MSAFP**ST-0

** refers to pins number



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector body:	PA+ GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin/FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Part No.
				A/C	D/C	AWG	mm²		
04 pins		Solder version	4A	250V	250V	22AWG	0.34	PVC wire or customized	MB12MSAFP04ST-0
05 pins		Solder version	4A	60V	60V	22AWG	0.34	PVC wire or customized	MB12MSAFP05ST-0
08 pins		Solder version	2A	30V	30V	24AWG	0.25	PVC wire or customized	MB12MSAFP08ST-0

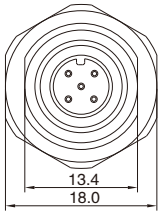
Remarks

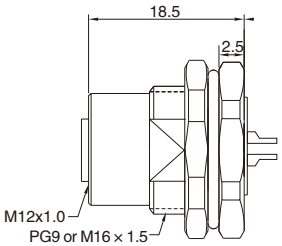
- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, Solder, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FS*FF**ST-X

* refers to coding type
** refers to pins number
X refers to Chasis-side thread size



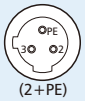
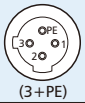
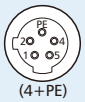
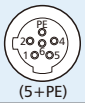


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFF03ST-X MB12FSBFF03ST-X MB12FSCFF03ST-X
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFF04ST-X MB12FSBFF04ST-X MB12FSCFF04ST-X MB12FSDFF04ST-X
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12FSAFF05ST-X MB12FSBFF05ST-X MB12FSCFF05ST-X
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12FSCFF06ST-X
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSAFF08ST-X
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSAFF12ST-X
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSAFF17ST-X

Note: X refers to Chasis-side thread size

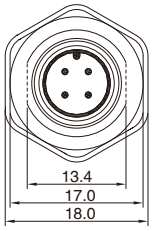
Remarks

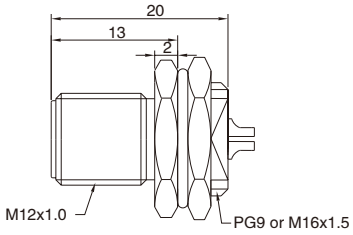
- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, Solder, Rear fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12MS*RF**ST-X

* refers to coding type
** refers to pins number
X refers to Chasis-side thread size



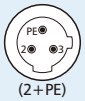
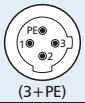
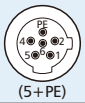


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSARF03ST-X MB12MSBRF03ST-X MB12MSCRF03ST-X
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSARF04ST-X MB12MSBRF04ST-X MB12MSCRF04ST-X MB12MSDRF04ST-X
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12MSARF05ST-X MB12MSBRF05ST-X MB12MSCRF05ST-X
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12MSCRF06ST-X
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSARF08ST-X
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSARF12ST-X
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSARF17ST-X

Note: X refers to Chasis-side thread size

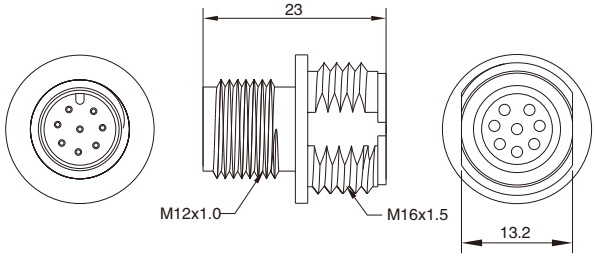
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, Plastic Screw, Solder, Rear fastened

- Connector series: M12
- Gender: Male
- Coding: A
- Locking type: Plastic fix screw
- Mounting type: Rear fastened
- Part No.: MB12MSARP**ST-2

** refers to pins number



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector body:	PA+ GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Part No.
				A/C	D/C	AWG	mm²		
04 pins		Solder version	4A	250V	250V	22AWG	0.34	PVC wire or customized	MB12MSARP04ST-2
05 pins		Solder version	4A	60V	60V	22AWG	0.34	PVC wire or customized	MB12MSARP05ST-2
08 pins		Solder version	2A	30V	30V	24AWG	0.25	PVC wire or customized	MB12MSARP08ST-2

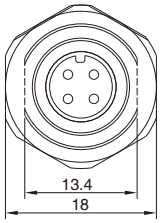
Remarks

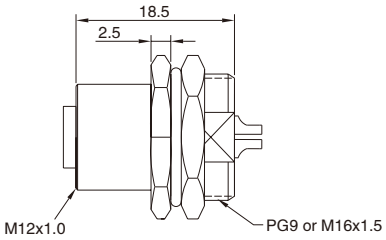
- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, Solder, Rear fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12FS*RF**ST-X

* refers to coding type
** refers to pins number
X refers to Chasis-side thread size



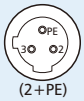
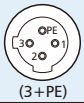
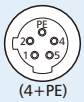
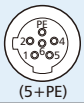


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSARF03ST-X MB12FSBRF03ST-X MB12FSCRF03ST-X
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSARF04ST-X MB12FSBRF04ST-X MB12FSCRF04ST-X MB12FSDRF04ST-X
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12FSARF05ST-X MB12FSBRF05ST-X MB12FSCRF05ST-X
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12FSCRF06ST-X
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSARF08ST-X
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSARF12ST-X
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSARF17ST-X

Note: X refers to Chasis-side thread size

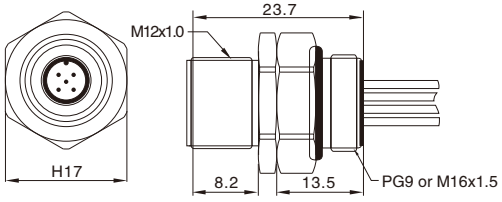
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, Solder, Rear fastened, Adjustable Nut

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12MS*RF**ST-X(Adjustable)

* refers to coding type
** refers to pins number
X refers to Chasis-side thread size

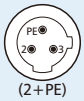
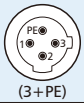
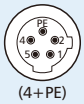
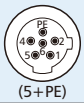


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSARF03ST-X(adj) MB12MSBRF03ST-X(adj) MB12MSCRF03ST-X(adj)
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSARF04ST-X(adj) MB12MSBRF04ST-X(adj) MB12MSCRF04ST-X(adj) MB12MSDRF04ST-X(adj)
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12MSARF05ST-X(adj) MB12MSBRF05ST-X(adj) MB12MSCRF05ST-X(adj)
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12MSCRF06ST-X(adj)
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSARF08ST-X(adj)
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSARF12ST-X(adj)
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSARF17ST-X(adj)

Note: X refers to Chasis-side thread size

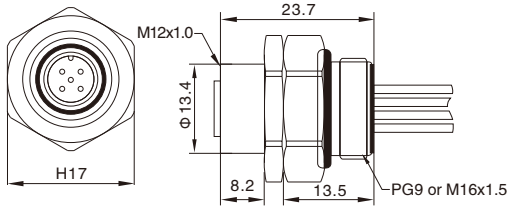
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, Solder, Rear fastened, Adjustable Nut

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12FS*RF**ST-X(Adjustable)

* refers to coding type
** refers to pins number
X refers to Chasis-side thread size

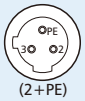
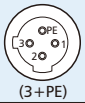
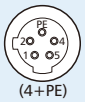
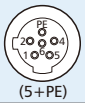


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSARF03ST-X(adj) MB12FSBRF03ST-X(adj) MB12FSCRF03ST-X(adj)
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSARF04ST-X(adj) MB12FSBRF04ST-X(adj) MB12FSCRF04ST-X(adj) MB12FSDRF04ST-X(adj)
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12FSARF05ST-X(adj) MB12FSBRF05ST-X(adj) MB12FSCRF05ST-X(adj)
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12FSCRF06ST-X(adj)
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSARF08ST-X(adj)
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSARF12ST-X(adj)
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSARF17ST-X(adj)

Note: X refers to Chasis-side thread size

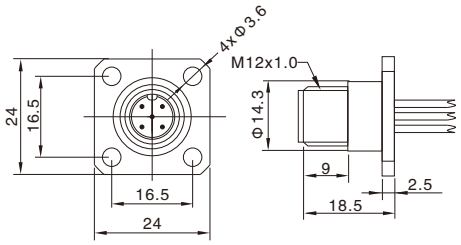
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, Solder, with Flange

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Flange
- Part No.: MB12MS*FLF**ST

* refers to coding type
** refers to pins number

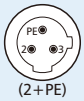
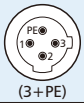
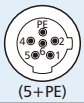


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +80℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFLF03ST MB12MSBFLF03ST MB12MSCFLF03ST
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12MSAFLF04ST MB12MSBFLF04ST MB12MSCFLF04ST MB12MSDFLF04ST
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12MSAFLF05ST MB12MSBFLF05ST MB12MSCFLF05ST
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12MSCFLF06ST
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12MSAFLF08ST
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSAFLF12ST
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12MSAFLF17ST

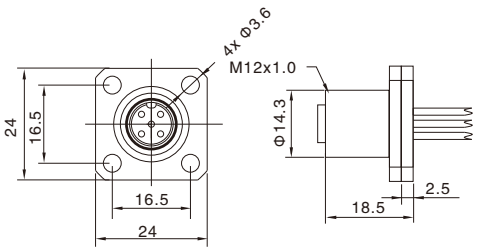
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, Solder, with Flange

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Flange
- Part No.: MB12FS*FLF**ST

* refers to coding type
** refers to pins number

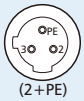
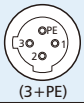
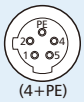
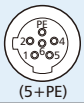


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +80℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFLF03ST MB12FSBFLF03ST MB12FSCFLF03ST
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	MB12FSAFLF04ST MB12FSBFLF04ST MB12FSCFLF04ST MB12FSDFLF04ST
05 pins			 (4+PE)		Solder version	4A 2A (C-code)	60V	60V	22AWG 24AWG (C-code)	0.34 0.25 (C-code)	MB12FSAFLF05ST MB12FSBFLF05ST MB12FSCFLF05ST
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	MB12FSCFLF06ST
08 pins					Solder version	2A	30V	30V	24AWG	0.25	MB12FSAFLF08ST
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSAFLF12ST
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	MB12FSAFLF17ST

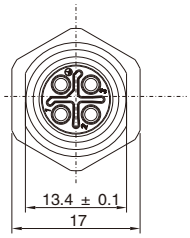
Remarks

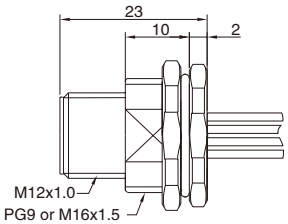
- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, Crimp, Front fastened, S-coding

- Connector series: M12
- Gender: Male
- Coding: S
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MCSFF**ST-XXXX

  ** refers to pins number
  X refers to Chasis-side thread size
  XXX refers to cable specification





General information

Ambient temperature:	-20℃ ~ +80℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Rated voltage	Wire gauge / size		Wire insulation	Part No.
					AWG	mm^2		
04 pins	 (3+PE)	Crimp version	12A(40℃)	630V	16AWG	1.5	PVC wire or customized	MB12MCSFF04ST-X150

Note: X refers to Chasis-side thread size

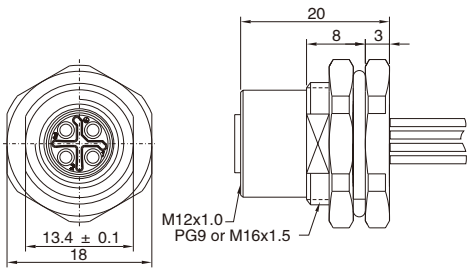
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm^2.
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, Crimp, Front fastened, S-coding

- Connector series: M12
- Gender: Female
- Coding: S
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FCSFF**ST-XXXX

** refers to pins number
X refers to Chasis-side thread size
XXX refers to cable specification



General information

Ambient temperature:	-20℃ ~ +80℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Rated voltage	Wire gauge / size		Wire insulation	Part No.
					AWG	mm²		
04 pins	 (3+PE)	Crimp version	12A(40℃)	630V	16AWG	1.5	PVC wire or customized	MB12FCSFF04ST-X150

Note: X refers to Chasis-side thread size

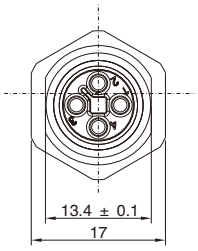
Remarks

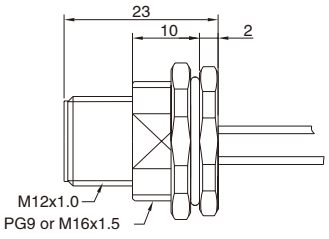
- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, Crimp, Front fastened, T-coding

- Connector series: M12
- Gender: Male
- Coding: T
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MCTFF**ST-XXXX

** refers to pins number
X refers to Chasis-side thread size
XXX refers to cable specification





General information

Ambient temperature:	-20℃ ~ +80℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Rated voltage	Wire gauge / size		Wire insulation	Part No.
					AWG	mm²		
04 pins		Crimp version	12A(40℃)	60V	16AWG	1.5	PVC wire or customized	MB12MCTFF04ST-X150

Note: X refers to Chasis-side thread size

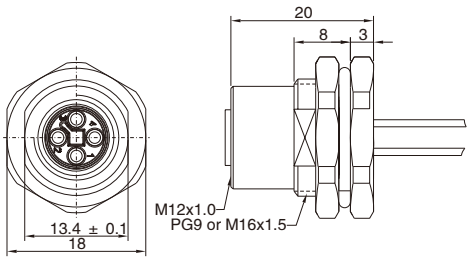
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, Crimp, Front fastened, T-coding

- Connector series: M12
- Gender: Female
- Coding: T
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FCTFF**ST-XXXX

** refers to pins number
X refers to Chasis-side thread size
XXX refers to cable specification



General information

Ambient temperature:	-20℃ ~ +80℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Rated voltage	Wire gauge / size		Wire insulation	Part No.
					AWG	mm²		
04 pins		Crimp version	12A(40℃)	60V	16AWG	1.5	PVC wire or customized	MB12FCTFF04ST-X150

Note: X refers to Chasis-side thread size

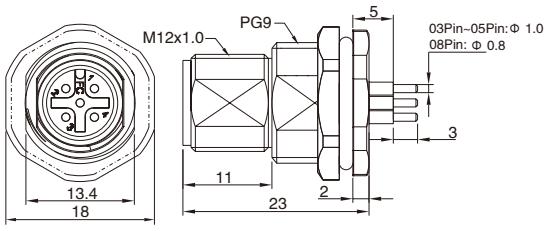
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, Die-cast Screw, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MB*FHD**ST-3

* refers to coding type
** refers to pins number

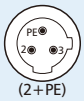
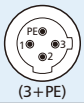
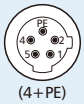
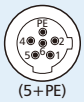


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins			 (2+PE)		PCB version	4A	250V	250V	MB12MBAFHD03ST-3 MB12MBBFHD03ST-3 MB12MBCFHD03ST-3
04 pins			 (3+PE)		PCB version	4A	250V	250V	MB12MBAFHD04ST-3 MB12MBBFHD04ST-3 MB12MBCFHD04ST-3 MB12MBDFHD04ST-3
05 pins			 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12MBAFHD05ST-3 MB12MBBFHD05ST-3 MB12MBCFHD05ST-3
06 pins			 (5+PE)		PCB version	2A	30V	30V	MB12MBCFHD06ST-3
08 pins					PCB version	2A	30V	30V	MB12MBAFHD08ST-3

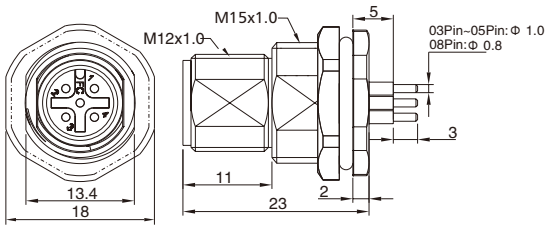
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, Plastic Screw/Nut, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12MB*FP**ST-1

* refers to coding type
** refers to pins number

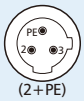
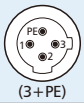
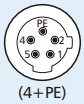
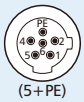


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins			 (2+PE)		PCB version	4A	250V	250V	MB12MBAFP03ST-1 MB12MBBFP03ST-1 MB12MBCFP03ST-1
04 pins			 (3+PE)		PCB version	4A	250V	250V	MB12MBAFP04ST-1 MB12MBBFP04ST-1 MB12MBCFP04ST-1 MB12MBDFP04ST-1
05 pins			 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12MBAFP05ST-1 MB12MBBFP05ST-1 MB12MBCFP05ST-1
06 pins			 (5+PE)		PCB version	2A	30V	30V	MB12MBCFP06ST-1
08 pins					PCB version	2A	30V	30V	MB12MBAFP08ST-1

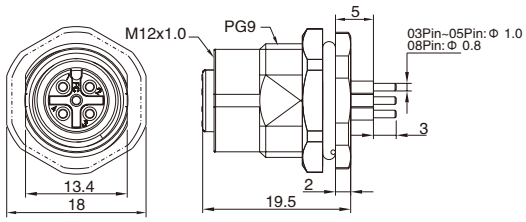
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, Die-cast Screw, PCB Type, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FB*FHD**ST-3

* refers to coding type
** refers to pins number

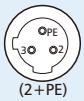
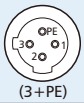
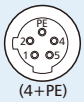
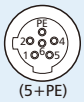


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins			 (2+PE)		PCB version	4A	250V	250V	MB12FBAFHD03ST-3 MB12FBBFHD03ST-3 MB12FBCFHD03ST-3
04 pins			 (3+PE)		PCB version	4A	250V	250V	MB12FBAFHD04ST-3 MB12FBBFHD04ST-3 MB12FBCFHD04ST-3 MB12FBDFHD04ST-3
05 pins			 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12FBAFHD05ST-3 MB12FBBFHD05ST-3 MB12FBCFHD05ST-3
06 pins			 (5+PE)		PCB version	2A	30V	30V	MB12FBCFHD06ST-3
08 pins					PCB version	2A	30V	30V	MB12FBAFHD08ST-3

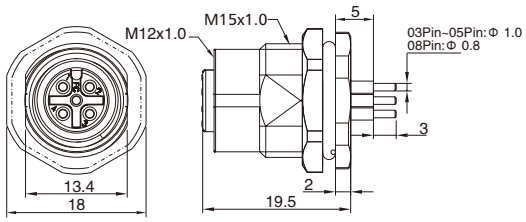
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, Plastic Screw/Nut, PCB Type, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12FB*FP**ST-1

* refers to coding type
** refers to pins number

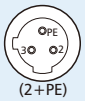
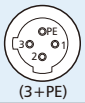
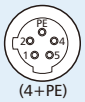
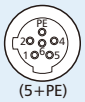


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins			 (2+PE)		PCB version	4A	250V	250V	MB12FBAFP03ST-1 MB12FBBFP03ST-1 MB12FBCFP03ST-1
04 pins			 (3+PE)		PCB version	4A	250V	250V	MB12FBAFP04ST-1 MB12FBBFP04ST-1 MB12FBCFP04ST-1 MB12FBDFP04ST-1
05 pins			 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12FBAFP05ST-1 MB12FBBFP05ST-1 MB12FBCFP05ST-1
06 pins			 (5+PE)		PCB version	2A	30V	30V	MB12FBCFP06ST-1
08 pins					PCB version	2A	30V	30V	MB12FBAFP08ST-1

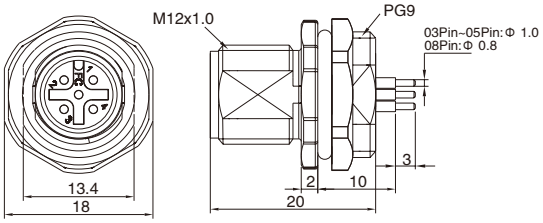
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, Die-cast Screw, PCB Type, Rear fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12MB*RHD**ST-3

* refers to coding type
** refers to pins number

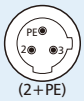
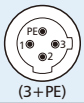
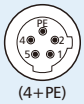
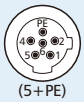


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins			 (2+PE)		PCB version	4A	250V	250V	MB12MBARHD03ST-3 MB12MBBRHD03ST-3 MB12MBCRHD03ST-3
04 pins			 (3+PE)		PCB version	4A	250V	250V	MB12MBARHD04ST-3 MB12MBBRHD04ST-3 MB12MBCRHD04ST-3 MB12MBDRHD04ST-3
05 pins			 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12MBARHD05ST-3 MB12MBBRHD05ST-3 MB12MBCRHD05ST-3
06 pins			 (5+PE)		PCB version	2A	30V	30V	MB12MBCRHD06ST-3
08 pins					PCB version	2A	30V	30V	MB12MBARHD08ST-3

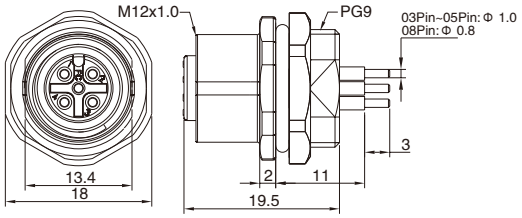
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, Die-cast Screw, PCB Type, Rear fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12FB*RHD**ST-3

* refers to coding type
** refers to pins number

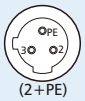
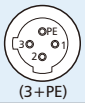
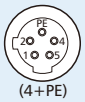
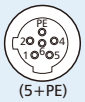


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins			 (2+PE)		PCB version	4A	250V	250V	MB12FBARHD03ST-3 MB12FBBRHD03ST-3 MB12FBCRHD03ST-3
04 pins			 (3+PE)		PCB version	4A	250V	250V	MB12FBARHD04ST-3 MB12FBBRHD04ST-3 MB12FBCRHD04ST-3 MB12FBDRHD04ST-3
05 pins			 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12FBARHD05ST-3 MB12FBBRHD05ST-3 MB12FBCRHD05ST-3
06 pins			 (5+PE)		PCB version	2A	30V	30V	MB12FBCRHD06ST-3
08 pins					PCB version	2A	30V	30V	MB12FBARHD08ST-3

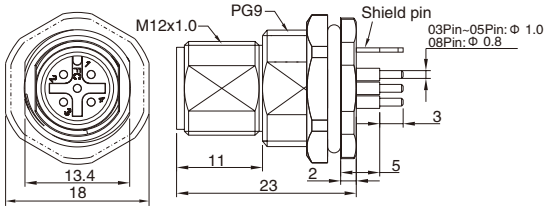
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel, Die-cast Screw, PCB Type, Front fastened, Shielded

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MBS*FHD**ST-3

* refers to coding type
** refers to pins number

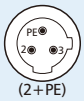
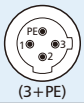
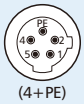
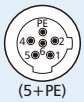


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins			 (2+PE)		PCB version	4A	250V	250V	MB12MBSAFHD03ST-3 MB12MBSBFHD03ST-3 MB12MBSCFHD03ST-3
04 pins			 (3+PE)		PCB version	4A	250V	250V	MB12MBSAFHD04ST-3 MB12MBSBFHD04ST-3 MB12MBSCFHD04ST-3 MB12MBSDFHD04ST-3
05 pins			 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12MBSAFHD05ST-3 MB12MBSBFHD05ST-3 MB12MBSCFHD05ST-3
06 pins			 (5+PE)		PCB version	2A	30V	30V	MB12MBSCFHD06ST-3
08 pins					PCB version	2A	30V	30V	MB12MBSAFHD08ST-3

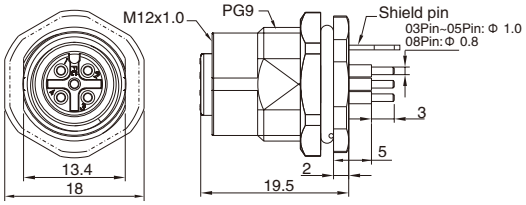
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel, Die-cast Screw, PCB Type, Front fastened, Shielded

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FBS*FHD**ST-3

* refers to coding type
** refers to pins number

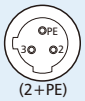
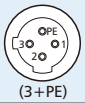
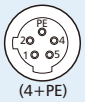
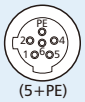


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins			 (2+PE)		PCB version	4A	250V	250V	MB12FBSAFHD03ST-3 MB12FBSBFHD03ST-3 MB12FBSCFHD03ST-3
04 pins			 (3+PE)		PCB version	4A	250V	250V	MB12FBSAFHD04ST-3 MB12FBSBFHD04ST-3 MB12FBSCFHD04ST-3 MB12FBSDFHD04ST-3
05 pins			 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12FBSAFHD05ST-3 MB12FBSBFHD05ST-3 MB12FBSCFHD05ST-3
06 pins			 (5+PE)		PCB version	2A	30V	30V	MB12FBSCFHD06ST-3
08 pins					PCB version	2A	30V	30V	MB12FBSAFHD08ST-3

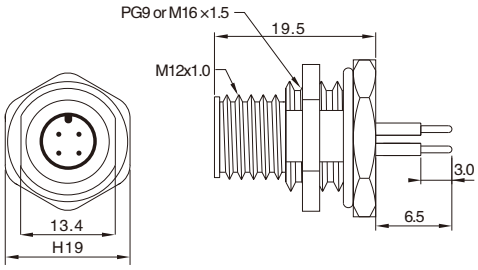
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MB*FF**ST-X

* refers to coding type
** refers to pins number
X refers to Chasis-side thread size

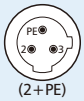
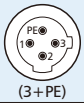
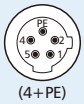
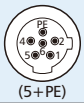


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins			 (2+PE)		PCB version	4A	250V	250V	MB12MBAFF03ST-X MB12MBBFF03ST-X MB12MBCFF03ST-X
04 pins			 (3+PE)		PCB version	4A	250V	250V	MB12MBAFF04ST-X MB12MBBFF04ST-X MB12MBCFF04ST-X MB12MBDFF04ST-X
05 pins			 (4+PE)		PCB version	4A 2A (C-code)	60V	60V	MB12MBAFF05ST-X MB12MBBFF05ST-X MB12MBCFF05ST-X
06 pins			 (5+PE)		PCB version	2A	30V	30V	MB12MBCFF06ST-X
08 pins					PCB version	2A	30V	30V	MB12MBAFF08ST-X
12 pins					PCB version	1.5A	30V	30V	MB12MBAFF12ST-X
17 pins					PCB version	1.5A	30V	30V	MB12MBAFF17ST-X

Note: X refers to Chasis-side thread size

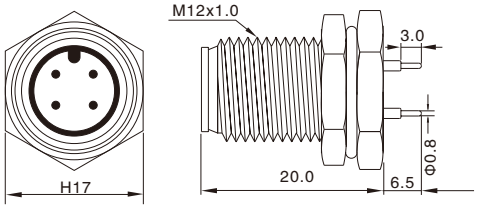
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MB*FF**ST-0

* refers to coding type
** refers to pins number

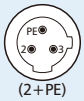
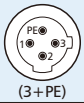
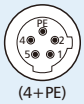
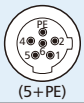


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins			 (2+PE)		PCB version	4A	250V	250V	MB12MBAFF03ST-0 MB12MBBFF03ST-0 MB12MBCFF03ST-0
04 pins			 (3+PE)		PCB version	4A	250V	250V	MB12MBAFF04ST-0 MB12MBBFF04ST-0 MB12MBCFF04ST-0 MB12MBDFF04ST-0
05 pins			 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12MBAFF05ST-0 MB12MBBFF05ST-0 MB12MBCFF05ST-0
06 pins			 (5+PE)		PCB version	2A	30V	30V	MB12MBCFF06ST-0
08 pins					PCB version	2A	30V	30V	MB12MBAFF08ST-0
12 pins					PCB version	1.5A	30V	30V	MB12MBAFF12ST-0
17 pins					PCB version	1.5A	30V	30V	MB12MBAFF17ST-0

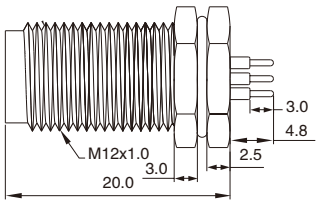
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, Plastic Screw/Nut, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12MBAFP**ST-0

** refers to pins number



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA + GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Part No.
				A/C	D/C	
04 pins		PCB version	4A	250V	250V	MB12MBAFP04ST-0
05 pins		PCB version	4A	60V	60V	MB12MBAFP05ST-0
08 pins		PCB version	2A	30V	30V	MB12MBAFP08ST-0

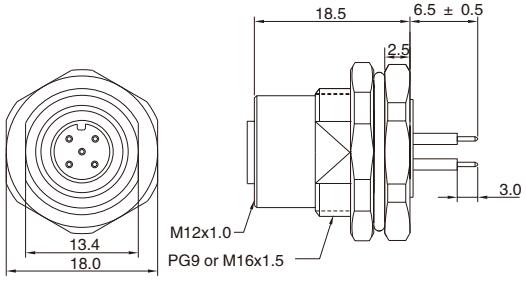
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, PCB Type, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FB*FF**ST-X

* refers to coding type
** refers to pins number
X refers to Chasis-side thread size

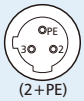
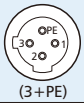
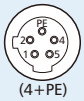
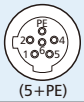


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins			 (2+PE)		PCB version	4A	250V	250V	MB12FBAFF03ST-X MB12FBBFF03ST-X MB12FBCFF03ST-X
04 pins			 (3+PE)		PCB version	4A	250V	250V	MB12FBAFF04ST-X MB12FBBFF04ST-X MB12FBCFF04ST-X MB12FBDFF04ST-X
05 pins			 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12FBAFF05ST-X MB12FBBFF05ST-X MB12FBCFF05ST-X
06 pins			 (5+PE)		PCB version	2A	30V	30V	MB12FBCFF06ST-X
08 pins					PCB version	2A	30V	30V	MB12FBAFF08ST-X
12 pins					PCB version	1.5A	30V	30V	MB12FBAFF12ST-X
17 pins					PCB version	1.5A	30V	30V	MB12FBAFF17ST-X

Note: X refers to Chasis-side thread size

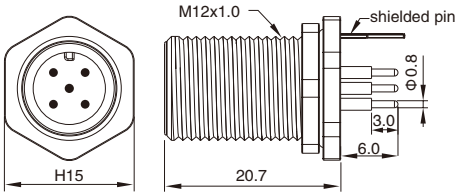
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, PCB Type, Front fastened, Shielded

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MBS*FF**ST-0

* refers to coding type
** refers to pins number

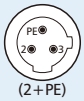
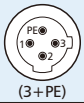
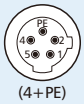
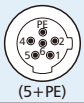


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins			 (2+PE)		PCB version	4A	250V	250V	MB12MBSAFF03ST-0 MB12MBSBFF03ST-0 MB12MBSCFF03ST-0
04 pins			 (3+PE)		PCB version	4A	250V	250V	MB12MBSAFF04ST-0 MB12MBSBFF04ST-0 MB12MBSCFF04ST-0 MB12MBSDFF04ST-0
05 pins			 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12MBSAFF05ST-0 MB12MBSBFF05ST-0 MB12MBSCFF05ST-0
06 pins			 (5+PE)		PCB version	2A	30V	30V	MB12MBSCFF06ST-0
08 pins					PCB version	2A	30V	30V	MB12MBSAFF08ST-0
12 pins					PCB version	1.5A	30V	30V	MB12MBSAFF12ST-0
17 pins					PCB version	1.5A	30V	30V	MB12MBSAFF17ST-0

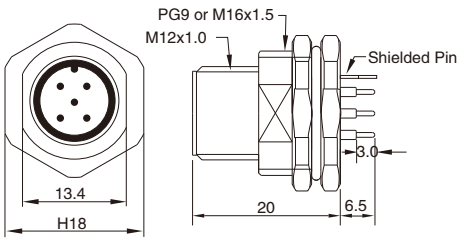
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, PCB Type, Front fastened, Shielded

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MBS*FF**ST-X

* refers to coding type
** refers to pins number
X refers to Chasis-side thread size

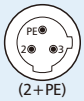
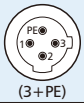
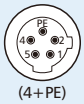
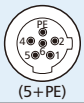


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins			 (2+PE)		PCB version	4A	250V	250V	MB12MBSAFF03ST-X MB12MBSBFF03ST-X MB12MBSCFF03ST-X
04 pins			 (3+PE)		PCB version	4A	250V	250V	MB12MBSAFF04ST-X MB12MBSBFF04ST-X MB12MBSCFF04ST-X MB12MBSDFF04ST-X
05 pins			 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12MBSAFF05ST-X MB12MBSBFF05ST-X MB12MBSCFF05ST-X
06 pins			 (5+PE)		PCB version	2A	30V	30V	MB12MBSCFF06ST-X
08 pins					PCB version	2A	30V	30V	MB12MBSAFF08ST-X
12 pins					PCB version	1.5A	30V	30V	MB12MBSAFF12ST-X
17 pins					PCB version	1.5A	30V	30V	MB12MBSAFF17ST-X

Note: X refers to Chasis-side thread size

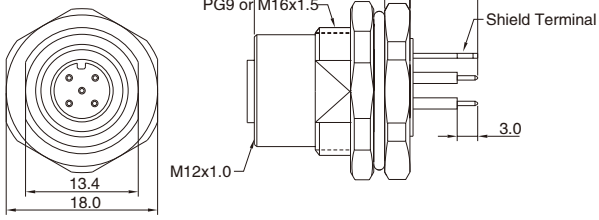
Remarks

- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, PCB Type, Front fastened, Shielded

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FBS*FF**ST-X

* refers to coding type
** refers to pins number
X refers to Chasis-side thread size

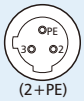
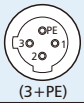
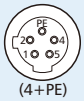
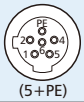


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins			 (2+PE)		PCB version	4A	250V	250V	MB12FBSAFF03ST-X MB12FBSBFF03ST-X MB12FBSCFF03ST-X
04 pins			 (3+PE)		PCB version	4A	250V	250V	MB12FBSAFF04ST-X MB12FBSBFF04ST-X MB12FBSCFF04ST-X MB12FBSDFF04ST-X
05 pins			 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12FBSAFF05ST-X MB12FBSBFF05ST-X MB12FBSCFF05ST-X
06 pins			 (5+PE)		PCB version	2A	30V	30V	MB12FBSCFF06ST-X
08 pins					PCB version	2A	30V	30V	MB12FBSAFF08ST-X
12 pins					PCB version	1.5A	30V	30V	MB12FBSAFF12ST-X
17 pins					PCB version	1.5A	30V	30V	MB12FBSAFF17ST-X

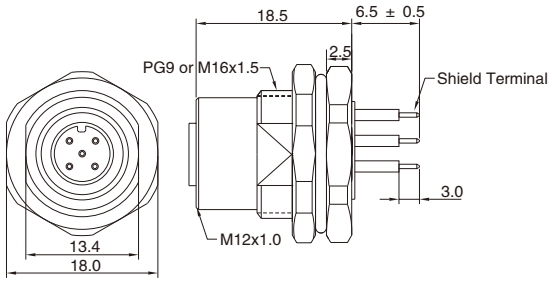
Note: X refers to Chasis-side thread size

Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, PCB Type, Front Fastened, with Shielded Terminal

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FBS*FF**ST-X-s
  - * refers to coding type
  - ** refers to pins number
  - X refers to Chasis-side thread size
  - s refers to shielded pin

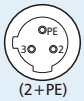
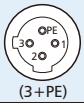
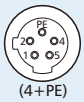
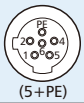


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +90℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Part No.
	A	B	C	D			A/C	D/C	
03 pins			 (2+PE)		PCB version	4A	250V	250V	MB12FBSAFF03ST-X-s MB12FBSBFF03ST-X-s MB12FBSCFF03ST-X-s
04 pins			 (3+PE)		PCB version	4A	250V	250V	MB12FBSAFF04ST-X-s MB12FBSBFF04ST-X-s MB12FBSCFF04ST-X-s MB12FBSDFF04ST-X-s
05 pins			 (4+PE)		PCB version	4A 2A(C-code)	60V	60V	MB12FBSAFF05ST-X-s MB12FBSBFF05ST-X-s MB12FBSCFF05ST-X-s
06 pins			 (5+PE)		PCB version	2A	30V	30V	MB12FBSCFF06ST-X-s
08 pins					PCB version	2A	30V	30V	MB12FBSAFF08ST-X-s
12 pins					PCB version	1.5A	30V	30V	MB12FBSAFF12ST-X-s
17 pins					PCB version	1.5A	30V	30V	MB12FBSAFF17ST-X-s

Note: X refers to Chasis-side thread size

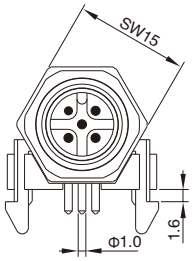
Remarks

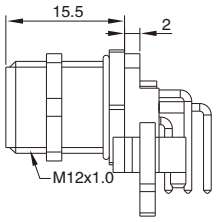
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, Angled, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12MB*FF**RA-0 (Unshielding)
  MB12MBS*FF**RA-0 (Shielding)

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable / Available
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Part No.
	A	B	D			A/C	D/C	
04 pins				PCB version	4A	250V	250V	MB12MBAFF04RA-0 MB12MBSAFF04RA-0 MB12MBBFF04RA-0 MB12MBSBFF04RA-0 MB12MBDFF04RA-0 MB12MBSDFF04RA-0
05 pins				PCB version	4A	60V	60V	MB12MBAFF05RA-0 MB12MBSAFF05RA-0 MB12MBBFF05RA-0 MB12MBSBFF05RA-0
08 pins				PCB version	2A	30V	30V	MB12MBAFF08RA-0 MB12MBSAFF08RA-0

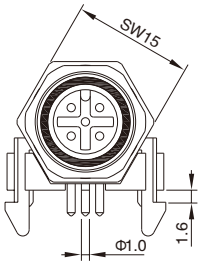
Remarks

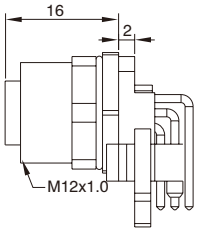
• Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, Angled, PCB Type, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12FB*FF**RA-0(Unshielding)
  MB12FBS*FF**RA-0 (Shielding)

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable / Available
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

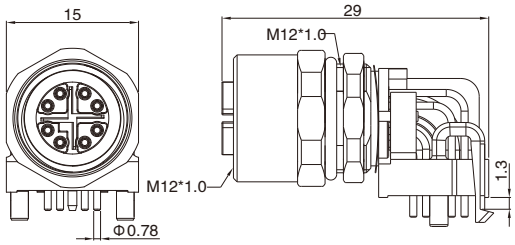
Contacts	Available Coding			Contacts termination	Rated current	Voltage		Part No.
	A	B	D			A/C	D/C	
04 pins				PCB version	4A	250V	250V	MB12FBAFF04RA-0 MB12FBSAFF04RA-0 MB12FBBFF04RA-0 MB12FBSBFF04RA-0 MB12FBDFF04RA-0 MB12FBSDFF04RA-0
05 pins				PCB version	4A	60V	60V	MB12FBAFF05RA-0 MB12FBSAFF05RA-0 MB12FBBFF05RA-0 MB12FBSBFF05RA-0
08 pins				PCB version	2A	30V	30V	MB12FBAFF08RA-0 MB12FBSAFF08RA-0

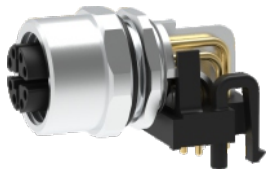
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, Angled PCB Type, Rear fastened, X-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: X
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12FBSXFF08RA-2





General information

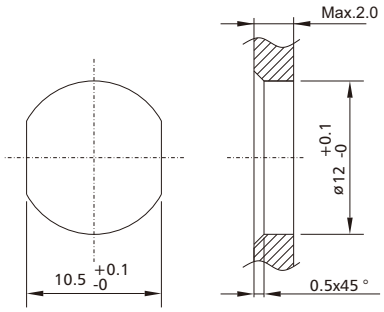
Standard:	IEC 61076–2–109
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA / TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass / Stainless steel
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

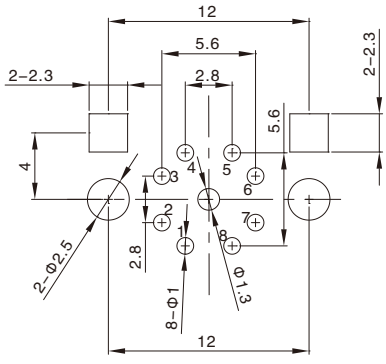
Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Part No.
				A/C	D/C	
08 pins		PCB version	0.5A	50V	60V	MB12FBSXFF08RA-2

Panel Cut-out Dimensions



PCB Layout

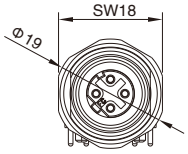


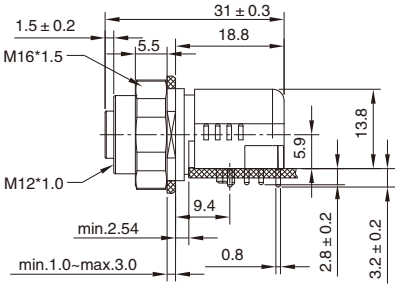
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, Angled, PCB Type, Shielded Shell, Whithout Fixed Holes

- Connector series: M12
- Gender: Female
- Coding: D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12FBSDFF04RA-20





General information

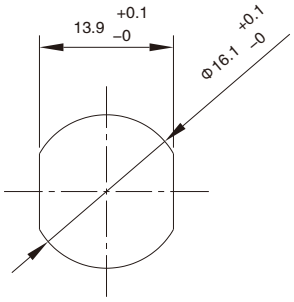
Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Brass with nickel plated
Shield Shell:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP20 in locked condition
Transmission characteristics:	Cat. 5,D level: up to 100 MHz
Mating endurance:	>500 cycles

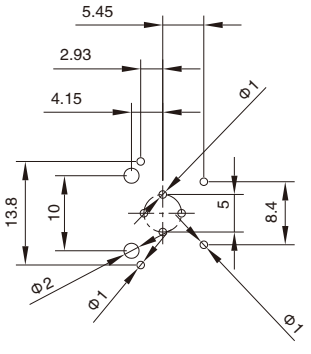
Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Part No.
				A/C	D/C	
04 pins		PCB version	4A	50V	50V	MB12FBSDFF04RA-20

Panel Cut-out Dimensions



PCB Layout



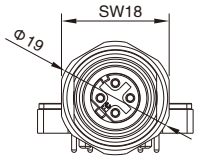
Remarks

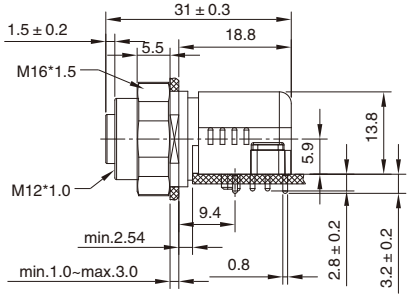
Recommended PCB thickness:1.6mm

• Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, Angled, PCB Type, Shielded Shell, Whith Fixed Holes

- Connector series: M12
- Gender: Female
- Coding: D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12FBSDFF04RA-21





General information

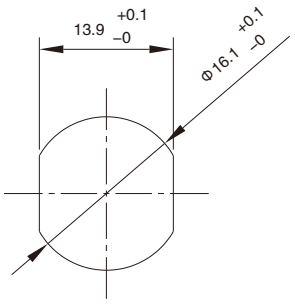
Standard:	IEC 61076-2-101
Ambient temperature:	-40℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Brass with nickel plated
Shield Shell:	Zinc alloy with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP20 in locked condition
Transmission characteristics:	Cat. 5,D level: up to 100 MHz
Mating endurance:	>500 cycles

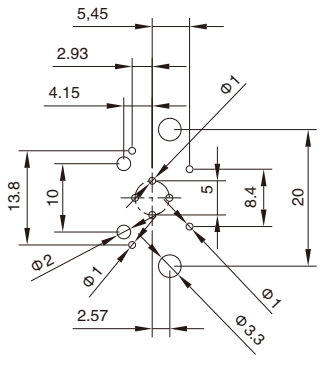
Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Part No.
				A/C	D/C	
04 pins		PCB version	4A	50V	50V	MB12FBSDFF04RA-21

Panel Cut-out Dimensions



PCB Layout



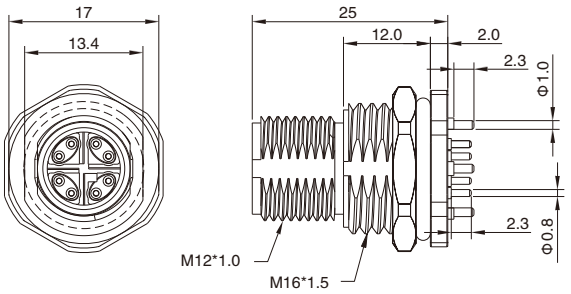
Remarks

Recommended PCB thickness:1.6mm

• Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, PCB Type, Front fastened, X-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: X
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MBSXFF08ST-2



General information

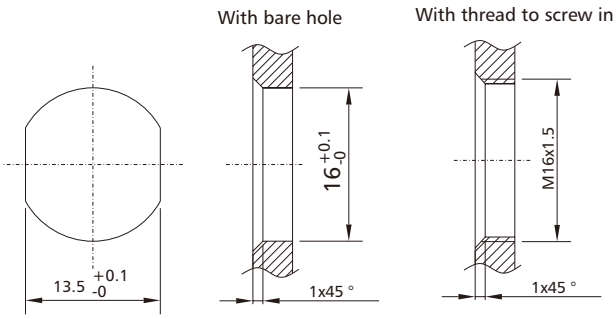
Standard:	IEC 61076-2-109
Ambient temperature:	-25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass/Zinc with nickel plated
Seal / O-ring:	FKM/Epoxy resin

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

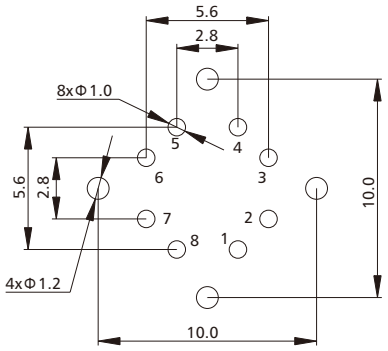
Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Part No.
				A/C	D/C	
08 pins		PCB version	0.5A	50V	60V	MB12MBSXFF08ST-2

Panel Cut-out Dimensions



PCB Layout

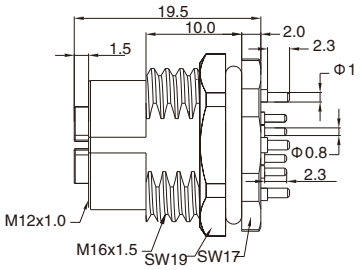


Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, PCB Type, Front fastened, X-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: X
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FBSXFF08ST-2



General information

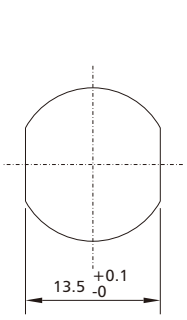
Standard:	IEC 61076-2-109
Ambient temperature:	-25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass/Zinc with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

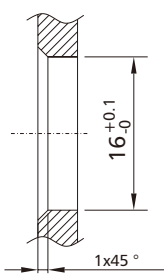
Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Part No.
				A/C	D/C	
08 pins		PCB version	0.5A	50V	60V	MB12FBSXFF08ST-2

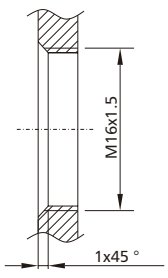
Panel Cut-out Dimensions



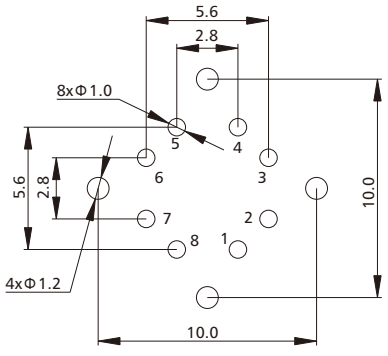
With bare hole



With thread to screw in



PCB Layout

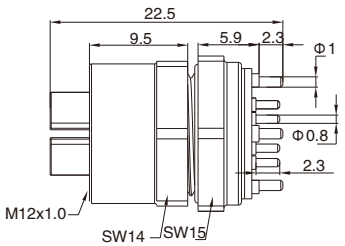


Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, PCB Type, Rear fastened, X-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: X
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12FBSXFF08ST-0



General information

Standard:	IEC 61076-2-109
Ambient temperature:	-25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass/Zinc with nickel plated
Seal / O-ring:	FKM

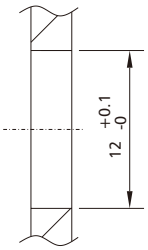
Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Part No.
				A/C	D/C	
08 pins		PCB version	0.5A	50V	60V	MB12FBSXFF08ST-0

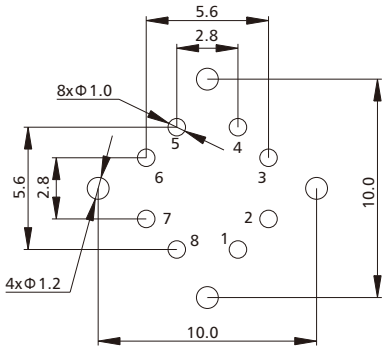
Panel Cut-out Dimensions

With bare hole



With thread to screw in

PCB Layout

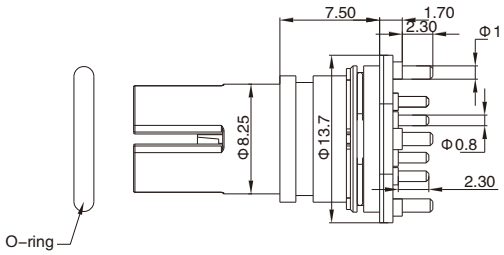


Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, PCB Type, Without Screw, X-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: X
- Locking type: Snap-in
- Mounting type: Front fastened
- Part No.: MB12FBSXFI08ST



General information

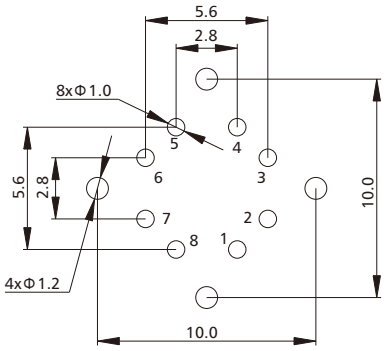
Standard:	IEC 61076-2-109
Ambient temperature:	-25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass/Zinc with nickel plated
Seal / O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Part No.
				A/C	D/C	
08 pins		PCB version	0.5A	50V	60V	MB12FBSXFI08ST

PCB Layout



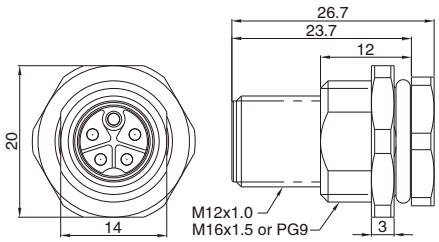
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel, Solder & Crimp, Front fastened, K-coding

- Connector series: M12
- Gender: Male
- Coding: K
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12M*KFF05ST-X

* refer to terminal type
X refers to Chasis–side thread size



General information

Standard:	IEC 61076–2–111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽8mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
				A/C	D/C	AWG	mm²	
05 pins	 (4+PE)	Crimp & Solder	16A	690V	NC	14AWG	2.0	MB12MSKFF05ST-X MB12MCKFF05ST-X

Note: X refers to Chasis-side thread size, S: Solder C: Crimp

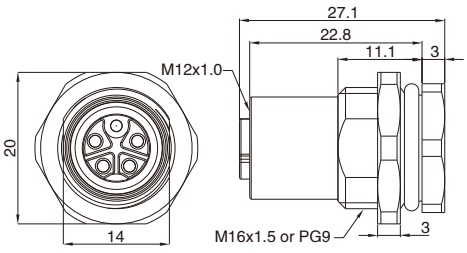
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel, Solder & Crimp, Front fastened, K-coding

- Connector series: M12
- Gender: Female
- Coding: K
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12F*KFF05ST-X

* refer to terminal type
X refers to Chasis–side thread size

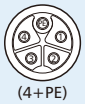


General information

Standard:	IEC 61076–2–111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽8mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
				A/C	D/C	AWG	mm²	
05 pins	 (4+PE)	Crimp & Solder	16A	690V	NC	14AWG	2.0	MB12FSKFF05ST-X MB12FCKFF05ST-X

Note: X refers to Chasis-side thread size, S: Solder C: Crimp

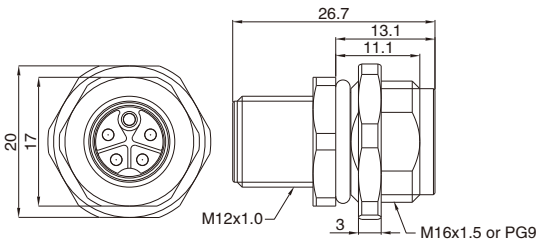
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel, Solder & Crimp, Rear fastened, K-coding

- Connector series: M12
- Gender: Male
- Coding: K
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12M*KRF05ST-X

* refer to terminal type
X refers to Chasis–side thread size



General information

Standard:	IEC 61076–2–111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽8mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
				A/C	D/C	AWG	mm²	
05 pins	 (4+PE)	Crimp & Solder	16A	690V	NC	14AWG	2.0	MB12MSKRF05ST-X MB12MCKRF05ST-X

Note: X refers to Chasis-side thread size, S: Solder C: Crimp

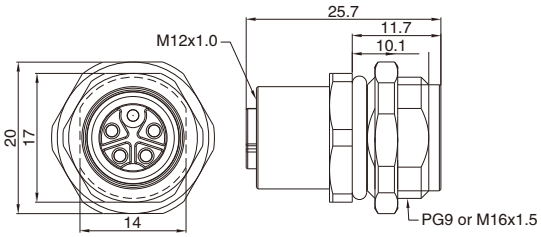
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel, Solder & Crimp, Rear fastened, K-coding

- Connector series: M12
- Gender: Female
- Coding: K
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12F*KRF05ST-X

* refer to terminal type
X refers to Chasis–side thread size

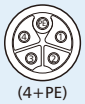


General information

Standard:	IEC 61076–2–111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽8mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
				A/C	D/C	AWG	mm²	
05 pins	 (4+PE)	Crimp & Solder	16A	690V	NC	14AWG	2.0	MB12FSKRF05ST-X MB12FCKRF05ST-X

Note: X refers to Chasis-side thread size, S: Solder C: Crimp

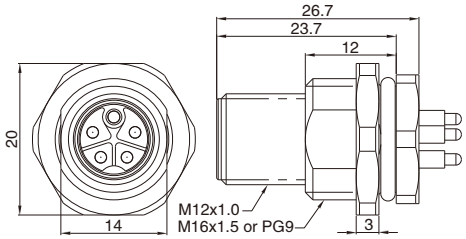
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel, PCB Type, Front fastened, K-coding

- Connector series: M12
- Gender: Male
- Coding: K
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MBKFF05ST-X

  X refers to Chasis-side thread size



General information

Standard:	IEC 61076–2–111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽8mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
				A/C	D/C	AWG	mm²	
05 pins	 (4+PE)	PCB	16A	690V	NC	14AWG	2.0	MB12MBKFF05ST-X

Note: X refers to Chasis-side thread size

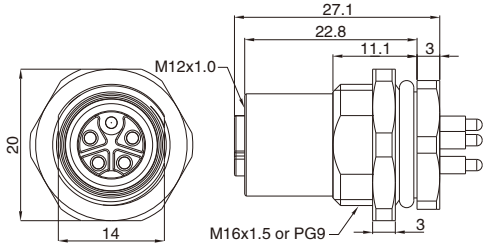
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel, PCB Type, Front fastened, K-coding

- Connector series: M12
- Gender: Female
- Coding: K
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FBKFF05ST-X

  X refers to Chasis-side thread size

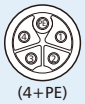


General information

Standard:	IEC 61076–2–111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽8mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
				A/C	D/C	AWG	mm²	
05 pins	 (4+PE)	PCB	16A	690V	NC	14AWG	2.0	MB12FBKFF05ST-X

Note: X refers to Chasis-side thread size

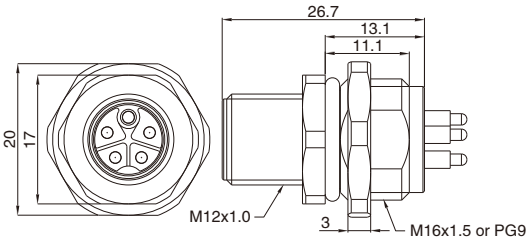
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel, PCB Type, Rear fastened, K-coding

- Connector series: M12
- Gender: Male
- Coding: K
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12MBKRF05ST-X

  X refers to Chasis-side thread size



General information

Standard:	IEC 61076–2–111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽8mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
				A/C	D/C	AWG	mm²	
05 pins	 (4+PE)	PCB	16A	690V	NC	14AWG	2.0	MB12MBKRF05ST-X

Note: X refers to Chasis-side thread size

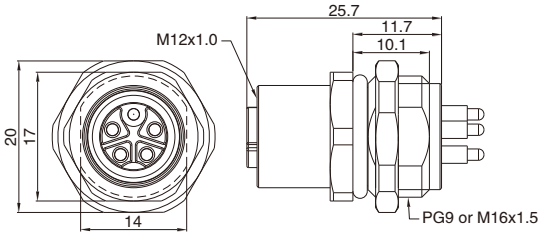
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel, PCB Type, Rear fastened, K-coding

- Connector series: M12
- Gender: Female
- Coding: K
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12FBKRF05ST-X

  X refers to Chasis-side thread size

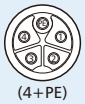


General information

Standard:	IEC 61076–2–111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽8mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
				A/C	D/C	AWG	mm²	
05 pins	 (4+PE)	PCB	16A	690V	NC	14AWG	2.0	MB12FBKRF05ST-X

Note: X refers to Chasis-side thread size

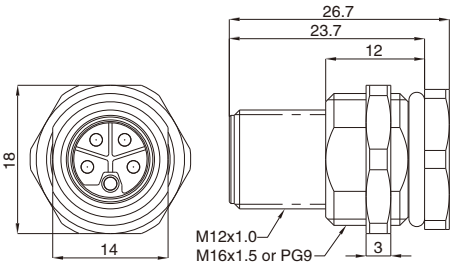
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel, Solder & Crimp, Front fastened, L-coding

- Connector series: M12
- Gender: Male
- Coding: L
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12M*LFF**ST-X

* refer to terminal type
** refers to pins number
X refers to Chasis–side thread size



General information

Standard:	IEC 61076–2–111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
				A/C	D/C	AWG	mm²	
05 pins	 (4+PE)	Crimp & Solder	16A	NC	63V	14AWG	2.0	MB12MSLFF05ST-X MB12MCLFF05ST-X

Note: X refers to Chasis-side thread size, S: Solder C: Crimp

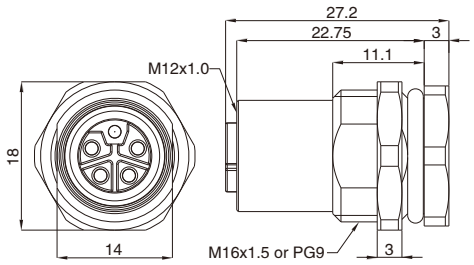
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel, Solder & Crimp, Front fastened, L-coding

- Connector series: M12
- Gender: Female
- Coding: L
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12F*LFF**ST-XX

* refer to terminal type
** refers to pins number
X refers to Chasis–side thread size

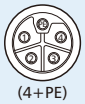


General information

Standard:	IEC 61076–2–111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
				A/C	D/C	AWG	mm²	
05 pins	 (4+PE)	Crimp & Solder	16A	NC	63V	14AWG	2.0	MB12FSLFF05ST-X MB12FCLFF05ST-X

Note: X refers to Chasis-side thread size, S: Solder C: Crimp

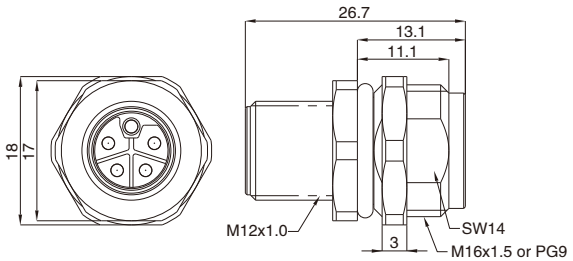
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel, Solder & Crimp, Rear fastened, L-coding

- Connector series: M12
- Gender: Male
- Coding: L
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12M*LRF**ST-X

* refer to terminal type
** refers to pins number
X refers to Chasis–side thread size



General information

Standard:	IEC 61076–2–111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
				A/C	D/C	AWG	mm²	
05 pins	 (4+PE)	Crimp & Solder	16A	NC	63V	14AWG	2.0	MB12MSLRF05ST-X MB12MCLRF05ST-X

Note: X refers to Chasis-side thread size, S: Solder C: Crimp

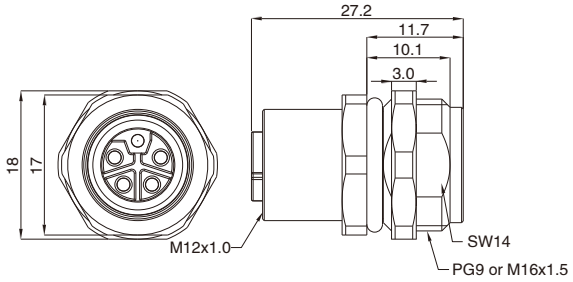
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel, Solder & Crimp, Rear fastened, L-coding

- Connector series: M12
- Gender: Female
- Coding: L
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12F*LRF**ST-XX

* refer to terminal type
** refers to pins number
X refers to Chasis–side thread size

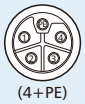


General information

Standard:	IEC 61076–2–111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
				A/C	D/C	AWG	mm²	
05 pins	 (4+PE)	Crimp & Solder	16A	NC	63V	14AWG	2.0	MB12FSLRF05ST-X MB12FCLRF05ST-X

Note: X refers to Chasis-side thread size, S: Solder C: Crimp

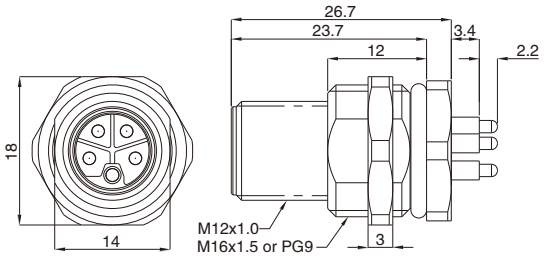
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel, PCB Type, Front fastened, L-coding

- Connector series: M12
- Gender: Male
- Coding: L
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MBLFF05ST-X

  X refers to Chasis-side thread size



General information

Standard:	IEC 61076–2–111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
				A/C	D/C	AWG	mm²	
05 pins	 (4+PE)	PCB	16A	NC	63V	NC	NC	MB12MBLFF05ST-X

Note: X refers to Chasis-side thread size

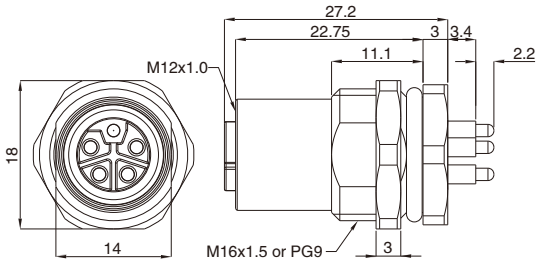
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel, PCB Type, Front fastened, L-coding

- Connector series: M12
- Gender: Female
- Coding: L
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FBLFF05ST-X

  X refers to Chasis–side thread size

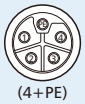


General information

Standard:	IEC 61076–2–111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
				A/C	D/C	AWG	mm²	
05 pins	 (4+PE)	PCB	16A	NC	63V	NC	NC	MB12FBLFF05ST-X

Note: X refers to Chasis-side thread size

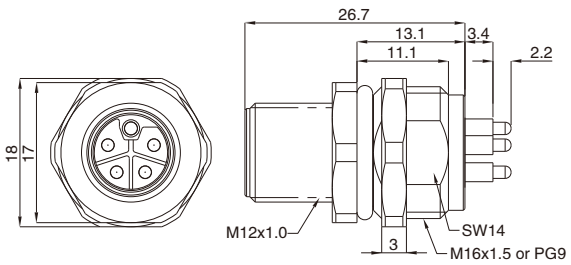
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel, PCB Type, Rear fastened, L-coding

- Connector series: M12
- Gender: Male
- Coding: L
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12MBLRF05ST-X

  X refers to Chasis-side thread size



General information

Standard:	IEC 61076–2–111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
				A/C	D/C	AWG	mm²	
05 pins	 (4+PE)	PCB	16A	NC	63V	NC	NC	MB12MBLRF05ST-X

Note: X refers to Chasis-side thread size

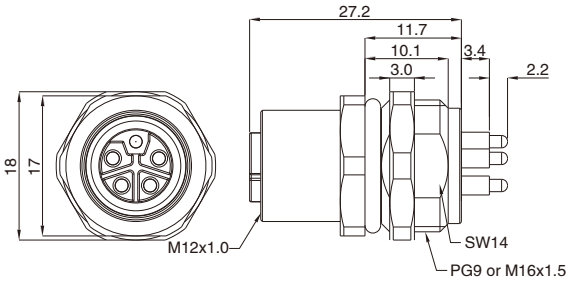
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel, PCB Type, Rear fastened, L-coding

- Connector series: M12
- Gender: Female
- Coding: L
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12FBLRF05ST-X

X refers to Chasis–side thread size

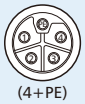


General information

Standard:	IEC 61076–2–111
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
				A/C	D/C	AWG	mm²	
05 pins	 (4+PE)	PCB	16A	NC	63V	NC	NC	MB12FBLRF05ST-X

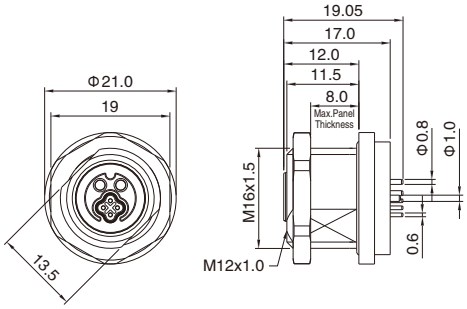
Note: X refers to Chasis-side thread size

Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel, PCB, Front fastened, Y1-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: Y1
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FBSY106ST-2



General information

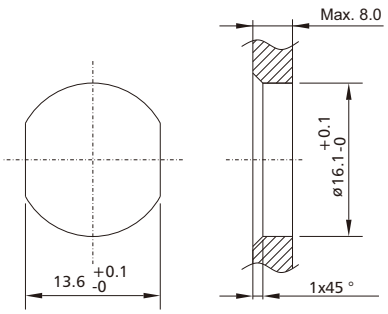
Standard:	IEC 61076–2–113
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Part No.
				A/C	D/C	
06 pins		PCB	12A	50V	50V	MB12FBSY106ST-2

Panel Cut-out Dimensions

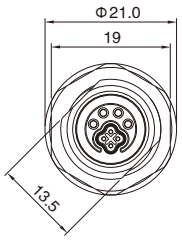


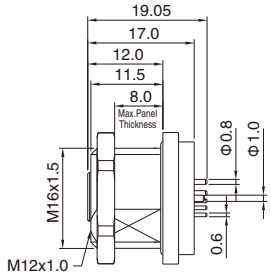
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm^2.
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel, PCB, Front fastened, Y2-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: Y2
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FBSY208ST-2





General information

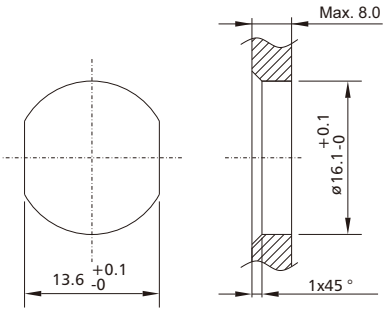
Standard:	IEC 61076–2–113
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Part No.
				A/C	D/C	
08 pins		PCB	6A	50V	50V	MB12FBSY208ST-2

Panel Cut-out Dimensions

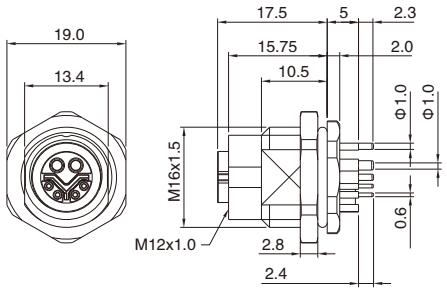


Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel, PCB, Front fastened, Y3-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: Y3
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FBSY306ST-2



General information

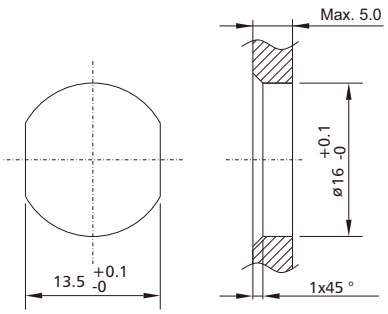
Standard:	IEC 61076–2–113
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Part No.
				A/C	D/C	
06 pins		PCB	12A	50V	50V	MB12FBSY306ST-2

Panel Cut-out Dimensions

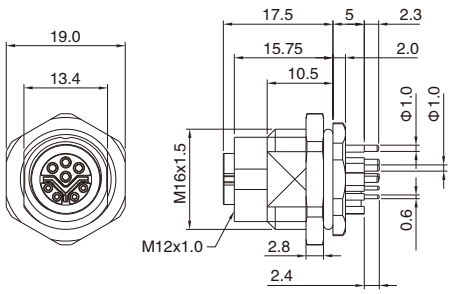


Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm^2.
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel, PCB, Front fastened, Y4-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: Y4
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FBY408ST-2



General information

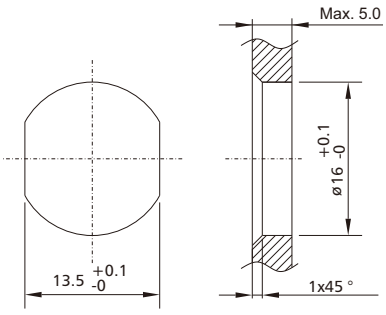
Standard:	IEC 61076–2–113
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	TPU+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Part No.
				A/C	D/C	
08 pins		PCB	6A	50V	50V	MB12FBSY408ST-2

Panel Cut-out Dimensions



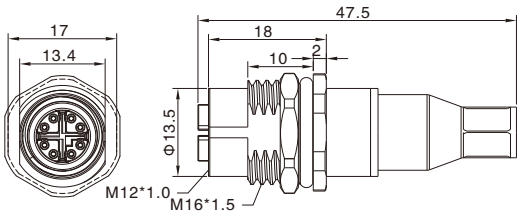
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel, Crimp, Front fastened, X-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: X
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FCSXFF08ST-X

  X refers to Chasis-side thread size



General information

Standard:	IEC 61076–2–109
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA / TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

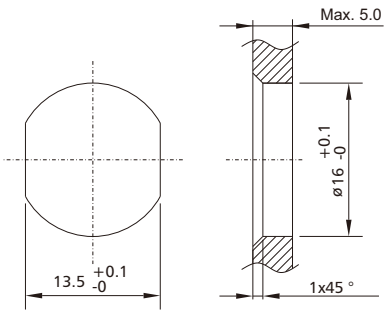
Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Transmission characteristic:	CAT6A / CAT7
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable spec	Part No.
			A/C	D/C	AWG	mm²		
08 pins		0.5A	50V	60V	27~24AWG	0.14~0.25	CAT6A/CAT7	MB12FCSXFF08ST-X

Note: X refers to Chasis-side thread size

Panel Cut-out Dimensions



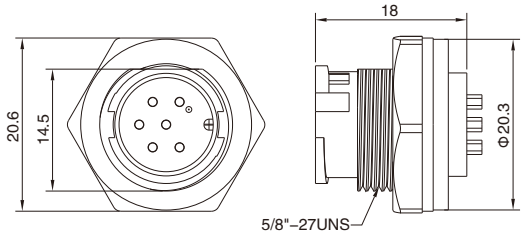
Remarks

- Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, Solder, Front fastened, Quick-lock Type

- Connector series: M12
- Gender: Male
- Locking type: Quick-lock
- Mounting type: Front fastened
- Part No.: MB12MSAFQ**ST

** refers to pins number



General information

Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP65, IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Part No.
				A/C	D/C	AWG	mm²		
04 pins		Solder version	4A	250V	250V	22AWG	0.34	PVC wire or customized	MB12MSAFQ04ST
06 pins		Solder version	4A	60V	60V	22AWG	0.34	PVC wire or customized	MB12MSAFQ06ST

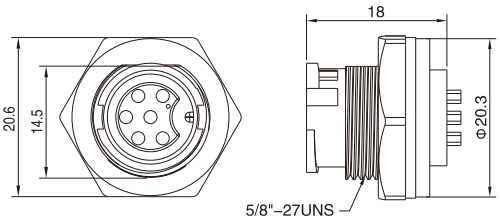
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, Solder, Front fastened, Quick-lock Type

- Connector series: M12
- Gender: Female
- Locking type: Quick-lock
- Mounting type: Front fastened
- Part No.: MB12FSAFQ**ST

** refers to pins number



General information

Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP65, IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Part No.
				A/C	D/C	AWG	mm²		
04 pins		Solder version	4A	250V	250V	22AWG	0.34	PVC wire or customized	MB12FSAFQ04ST
06 pins		Solder version	4A	60V	60V	22AWG	0.34	PVC wire or customized	MB12FSAFQ06ST

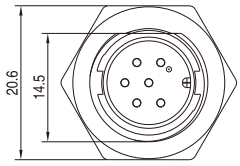
Remarks

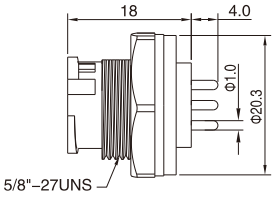
• Please refer to Page 96 for products' part number encoding rule.

M12 Male Panel Mount, PCB Type, Front fastened, Quick-lock Type

- Connector series: M12
- Gender: Male
- Locking type: Quick-lock
- Mounting type: Front fastened
- Part No.: MB12MBAFQ**ST

** refers to pins number





General information

Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP65, IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Part No.
				A/C	D/C	
04 pins		PCB version	4A	250V	250V	MB12MBAFQ04ST
06 pins		PCB version	4A	60V	60V	MB12MBAFQ06ST

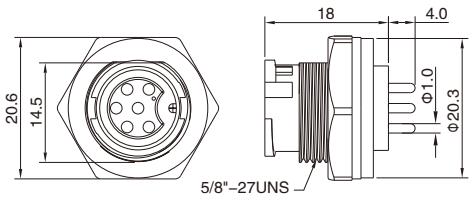
Remarks

• Please refer to Page 96 for products' part number encoding rule.

M12 Female Panel Mount, PCB Type, Front fastened, Quick-lock Type

- Connector series: M12
- Gender: Female
- Locking type: Quick-lock
- Mounting type: Front fastened
- Part No.: MB12FBAFQ**ST

** refers to pins number



General information

Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP65, IP68 in locked condition
Panel cut-out:	Refer to page 287
PCB layout:	Refer to page 286
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Part No.
				A/C	D/C	
04 pins		PCB version	4A	250V	250V	MB12FBAFQ04ST
06 pins		PCB version	4A	60V	60V	MB12FBAFQ06ST

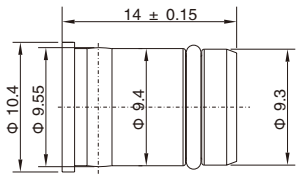
Remarks

• Please refer to Page 96 for products' part number encoding rule.

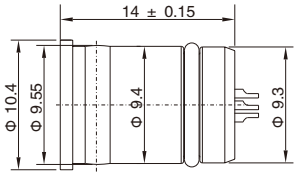
M12 Male Plastic Housing with O-ring, Solder

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Snap-in
- Mounting type: Straight
- Part No.: M12H-MS*XX

* refers to coding type
XX refers to pins number



(3,4,5 Pin)



(8 Pin)

General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Seal / O-ring:	Epoxy resin/FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Part No.
	A	B	D			A/C	D/C	AWG	mm²	
03 pins				Solder version	4A	250V	250V	22AWG	0.34	M12H-MSA03 M12H-MSB03
04 pins				Solder version	4A	250V	250V	22AWG	0.34	M12H-MSA04 M12H-MSB04 M12H-MSD04
05 pins				Solder version	4A	60V	60V	22AWG	0.34	M12H-MSA05 M12H-MSB05
08 pins				Solder version	2A	30V	30V	24AWG	0.25	M12H-MSA08

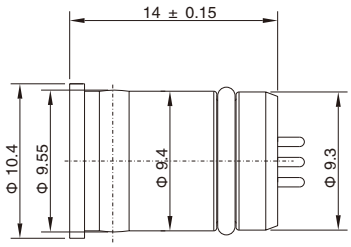
Remarks

• Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

M12 Male Plastic Housing with O-ring, PCB Type

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Snap-in
- Mounting type: Straight
- Part No.: M12H-MB*XX

  * refers to coding type
  XX refers to pins number



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Seal / O-ring:	Epoxy resin/FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

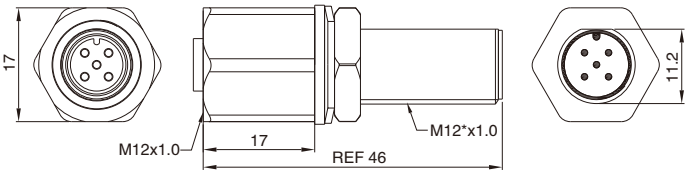
Contacts	Available Coding			Contacts termination	Rated current	Voltage		Part No.
	A	B	D			A/C	D/C	
03 pins				PCB version	4A	250V	250V	M12H-MBA03 M12H-MBB03
04 pins				PCB version	4A	250V	250V	M12H-MBA04 M12H-MBB04 M12H-MBD04
05 pins				PCB version	4A	60V	60V	M12H-MBA05 M12H-MBB05
08 pins				PCB version	2A	30V	30V	M12H-MBA08

Remarks

• Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm^2.

M12 Male to Female Panel Mount, A-coding

- Connector series: M12
- Gender: Male&Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MT-007～008



CE RoHS IP68

General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA+GF / TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin/FKM

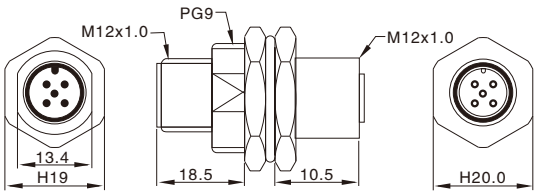
Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding		Rated current	Voltage		Part No.
	Male	Female		A/C	D/C	
04 pins			4A	250V	250V	MT-007
05 pins			4A	60V	60V	MT-008

M12 Male to Female Panel Mount, A-coding

- Connector series: M12
- Gender: Male&Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MT-009~010



CE RoHS IP68

General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA+GF / TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O-ring:	Epoxy resin/FKM

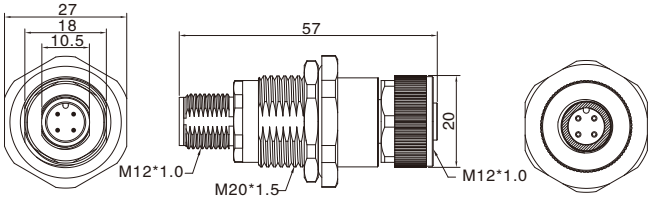
Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Panel cut-out:	Refer to page 287
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding		Rated current	Voltage		Part No.
	Male	Female		A/C	D/C	
04 pins			4A	250V	250V	MT-009
05 pins			4A	60V	60V	MT-010

M12 Male to Female Panel Mount, A-coding, Shielded

- Connector series: M12
- Gender: Male & Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MT-076~77



CE RoHS IP68

General information

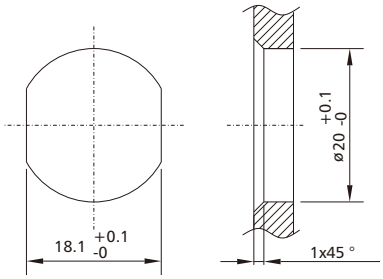
Standard:	IEC 61076–2–101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA / TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	Epoxy resin/ FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

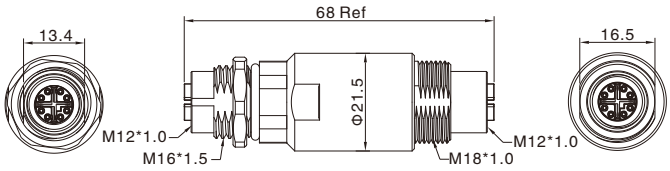
Contacts			Rated current	Voltage		Part No.
				A/C	D/C	
04 pins	 Male	 Female	4A	250V	250V	MT-076
05 pins	 Male	 Female	4A	60V	60V	MT-077

Panel Cut-out Dimensions



M12 Female to Female Panel Mount, X-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: X
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MT-078



CE RoHS IP68

General information

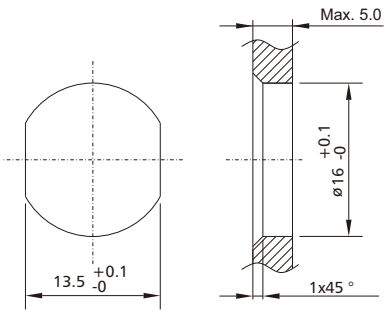
Standard:	IEC 61076–2–109
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	PA / TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽10mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Part No.
			A/C	D/C	
08 pins		0.5A	50V	60V	MT-078

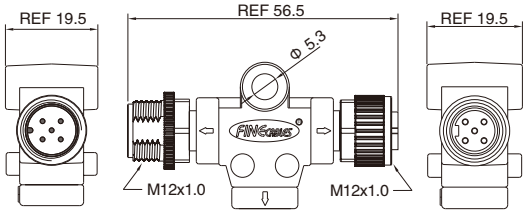
Panel Cut-out Dimensions



M12 I-Adapter, Male-Female

- Connector series: M12
- Gender: Male&Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: I type
- Part No.: MI-*XX

* refers to coding type
XX refers to pins number

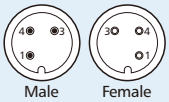
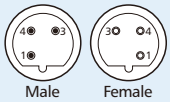
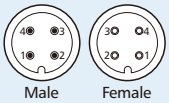
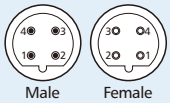
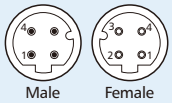
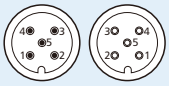
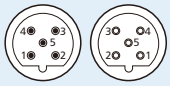
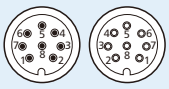


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

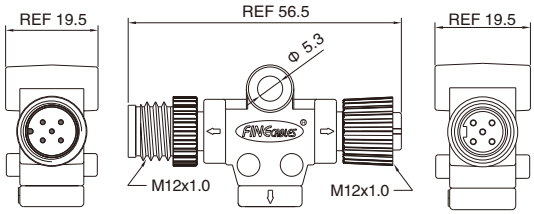
Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Part No.
	A	B	D		A/C	D/C	
03 pins	 Male Female	 Male Female		4A	250V	250V	MI-A03 MI-B03
04 pins	 Male Female	 Male Female	 Male Female	4A	250V	250V	MI-A04 MI-B04 MI-D04
05 pins	 Male Female	 Male Female		4A	60V	60V	MI-A05 MI-B05
08 pins	 Male Female			2A	30V	30V	MI-A08

M12 Plastic I-Adapter, Male-Female

- Connector series: M12
- Gender: Male&Female
- Coding: A,B,D
- Locking type: Plastic fix screw
- Mounting type: I type
- Part No.: MIP-*XX

  * refers to coding type
  XX refers to pins number

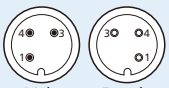
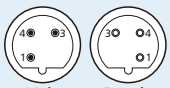
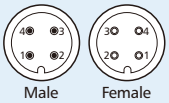
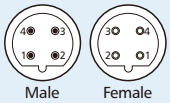
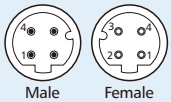
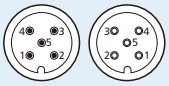
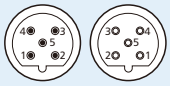
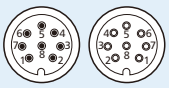


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector overmold:	TPU
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

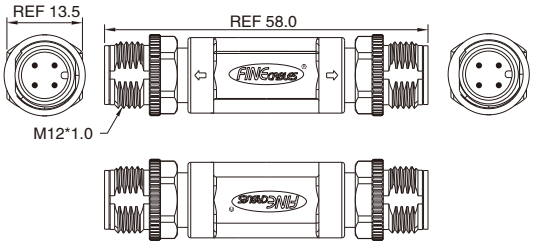
Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Part No.
	A	B	D		A/C	D/C	
03 pins	 Male Female	 Male Female		4A	250V	250V	MIP-A03 MIP-B03
04 pins	 Male Female	 Male Female	 Male Female	4A	250V	250V	MIP-A04 MIP-B04 MIP-D04
05 pins	 Male Female	 Male Female		4A	60V	60V	MIP-A05 MIP-B05
08 pins	 Male Female			2A	30V	30V	MIP-A08

M12 I-Adapter, Male-Male

- Connector series: M12
- Gender: Male&Male
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: I type
- Part No.: MI-*XX–0

* refers to coding type
XX refers to pins number
(0) without mounting hole

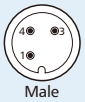
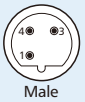
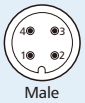
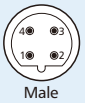
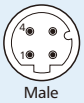


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃~ + 90℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

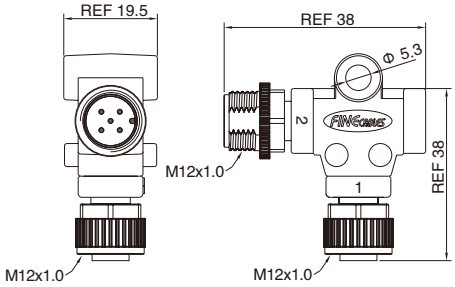
Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Part No.
	A	B	D		A/C	D/C	
03 pins	 Male	 Male		4A	250V	250V	MI-A03–0 MI-B03–0
04 pins	 Male	 Male	 Male	4A	250V	250V	MI-A04–0 MI-B04–0 MI-D04–0
05 pins	 Male	 Male		4A	60V	60V	MI-A05–0 MI-B05–0
08 pins	 Male			2A	30V	30V	MI-A08–0

M12 L-Adapter, Male-Female

- Connector series: M12
- Gender: Male&Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: L type
- Part No.: ML-*XX

  * refers to coding type
  XX refers to pins number



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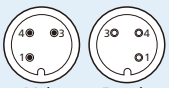
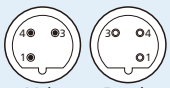
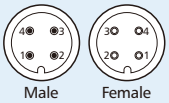
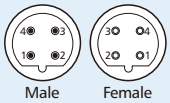
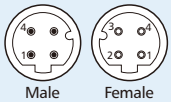
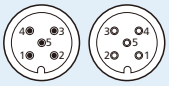
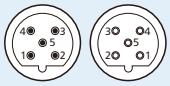
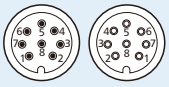
General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

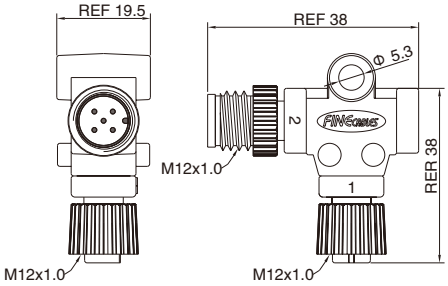
Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Part No.
	A	B	D		A/C	D/C	
03 pins	 Male Female	 Male Female		4A	250V	250V	ML-A03 ML-B03
04 pins	 Male Female	 Male Female	 Male Female	4A	250V	250V	ML-A04 ML-B04 ML-D04
05 pins	 Male Female	 Male Female		4A	60V	60V	ML-A05 ML-B05
08 pins	 Male Female			2A	30V	30V	ML-A08

M12 Plastic L-Adapter, Male-Female

- Connector series: M12
- Gender: Male&Female
- Coding: A,B,D
- Locking type: Plastic fix screw
- Mounting type: L type
- Part No.: MLP-*XX

  * refers to coding type
  XX refers to pins number

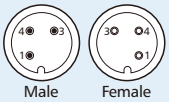
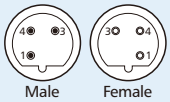
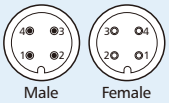
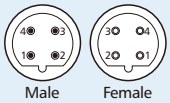
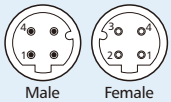
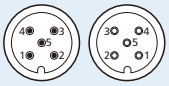
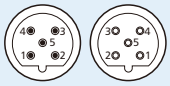
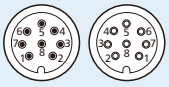


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector overmold:	TPU
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

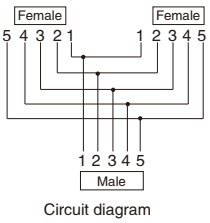
Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Part No.
	A	B	D		A/C	D/C	
03 pins	 Male Female	 Male Female		4A	250V	250V	MLP-A03 MLP-B03
04 pins	 Male Female	 Male Female	 Male Female	4A	250V	250V	MLP-A04 MLP-B04 MLP-D04
05 pins	 Male Female	 Male Female		4A	60V	60V	MLP-A05 MLP-B05
08 pins	 Male Female			2A	30V	30V	MLP-A08

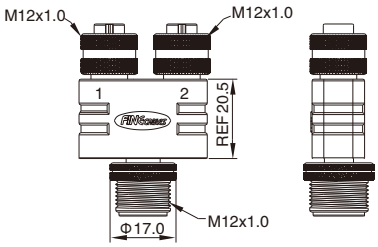
M12 Y-Splitter, Male-2*Female

- Connector series: M12
- Gender: Male&Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Y type
- Part No.: MY1-*XX

* refers to coding type
XX refers to pins number



Circuit diagram

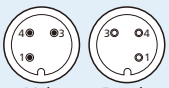
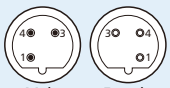
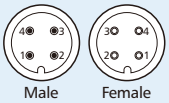
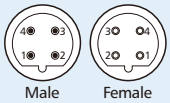
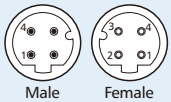
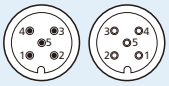
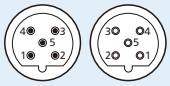
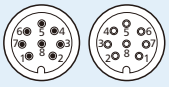


General information

Ambient temperature:	-20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector overmold:	PVC
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available / Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

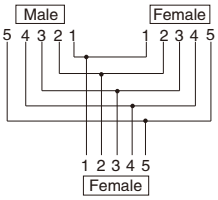
Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Part No.
	A	B	D		A/C	D/C	
03 pins	 Male Female	 Male Female		4A	250V	250V	MY1-A03 MY1-B03
04 pins	 Male Female	 Male Female	 Male Female	4A	250V	250V	MY1-A04 MY1-B04 MY1-D04
05 pins	 Male Female	 Male Female		4A	60V	60V	MY1-A05 MY1-B05
08 pins	 Male Female			2A	30V	30V	MY1-A08

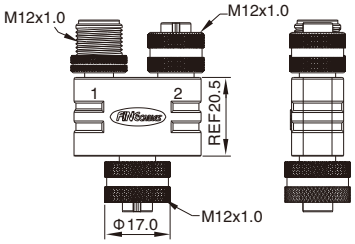
M12 Y-Splitter, Female-Male-Female

- Connector series: M12
- Gender: Female&Male
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Y type
- Part No.: MY2-*XX

* refers to coding type
XX refers to pins number



Circuit diagram

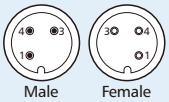
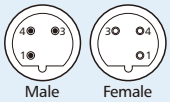
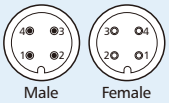
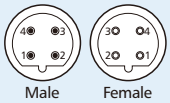
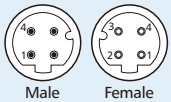
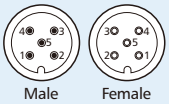
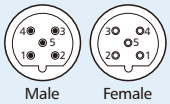
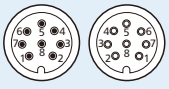


General information

Ambient temperature:	-20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector overmold:	PVC
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available / Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

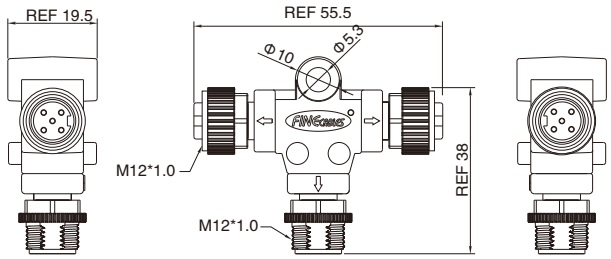
Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Part No.
	A	B	D		A/C	D/C	
03 pins	 Male Female	 Male Female		4A	250V	250V	MY2-A03 MY2-B03
04 pins	 Male Female	 Male Female	 Male Female	4A	250V	250V	MY2-A04 MY2-B04 MY2-D04
05 pins	 Male Female	 Male Female		4A	60V	60V	MY2-A05 MY2-B05
08 pins	 Male Female			2A	30V	30V	MY2-A08

M12 T-Splitter, Female-Male-Female

- Connector series: M12
- Gender: Female&Male
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: T type
- Part No.: MT-*XX

* refers to coding type
XX refers to pins number

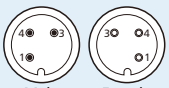
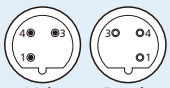
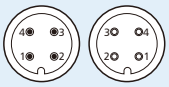
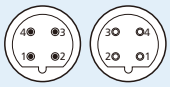
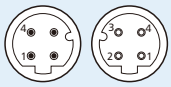
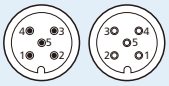
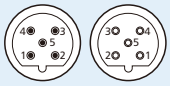
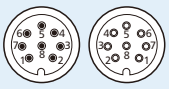


General information

Ambient temperature:	-20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

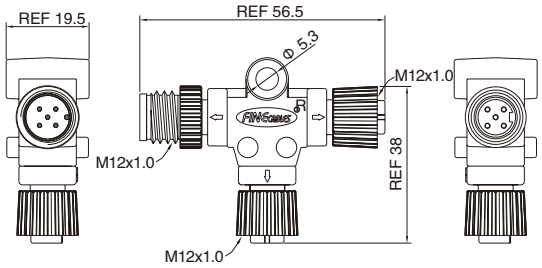
Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Part No.
	A	B	D		A/C	D/C	
03 pins	 Male Female	 Male Female		4A	250V	250V	MT-A03 MT-B03
04 pins	 Male Female	 Male Female	 Male Female	4A	250V	250V	MT-A04 MT-B04 MT-D04
05 pins	 Male Female	 Male Female		4A	60V	60V	MT-A05 MT-B05
08 pins	 Male Female			2A	30V	30V	MT-A08

M12 Plastic T-Splitter, Female-Male-Female

- Connector series: M12
- Gender: Female&Male
- Coding: A,B,D
- Locking type: Plastic fix screw
- Mounting type: T type
- Part No.: MTP-*XX

* refers to coding type
XX refers to pins number

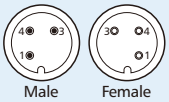
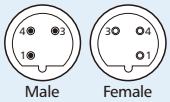
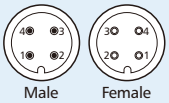
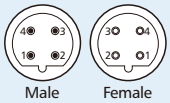
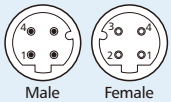
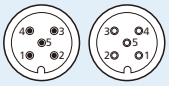
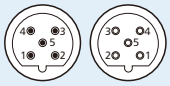
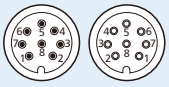


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector overmold:	TPU
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

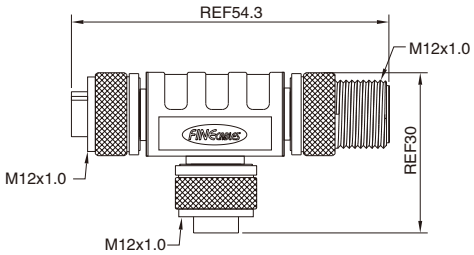
Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Part No.
	A	B	D		A/C	D/C	
03 pins	 Male Female	 Male Female		4A	250V	250V	MTP-A03 MTP-B03
04 pins	 Male Female	 Male Female	 Male Female	4A	250V	250V	MTP-A04 MTP-B04 MTP-D04
05 pins	 Male Female	 Male Female		4A	60V	60V	MTP-A05 MTP-B05
08 pins	 Male Female			2A	30V	30V	MTP-A08

M12 T-Splitter, Female-Male-Female, Shielded

- Connector series: M12
- Gender: Female&Male
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: T type
- Part No.: MTS-*XX

* refers to coding type
XX refers to pins number

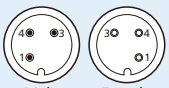
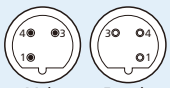
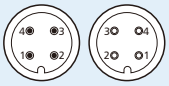
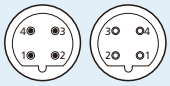
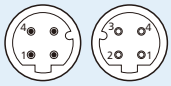
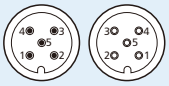
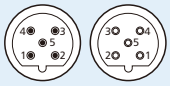
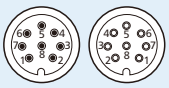


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃~ + 90℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector overmold:	TPU
Seal/O-ring:	Epoxy resin/FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Available
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

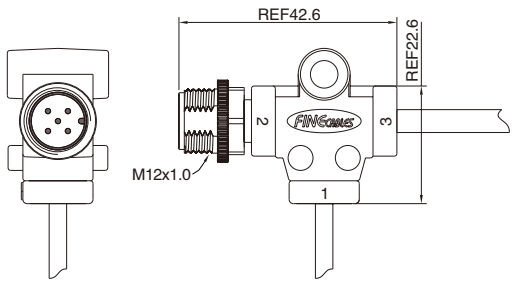
Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Part No.
	A	B	D		A/C	D/C	
03 pins	 Male Female	 Male Female		4A	250V	250V	MTS-A03 MTS-B03
04 pins	 Male Female	 Male Female	 Male Female	4A	250V	250V	MTS-A04 MTS-B04 MTS-D04
05 pins	 Male Female	 Male Female		4A	60V	60V	MTS-A05 MTS-B05
08 pins	 Male Female			2A	30V	30V	MTS-A08

M12 T-Splitter, Male with Molded Cable

- Connector series: M12
- Gender: Male&Cable
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: T type
- Part No.: MTC-M*HD**-XXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +80℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D		A/C	D/C	AWG	mm²		
03 pins				4A	250V	250V	22AWG	0.34	PUR/PVC	MTC-MAHD03-XXXB34 MTC-MBHD03-XXXB34
04 pins				4A	250V	250V	22AWG	0.34	PUR/PVC	MTC-MAHD04-XXXB34 MTC-MBHD04-XXXB34 MTC-MDHD04-XXXB34
05 pins				4A	60V	60V	22AWG	0.34	PUR/PVC	MTC-MAHD05-XXXB34 MTC-MBHD05-XXXB34
08 pins				2A	30V	30V	24AWG	0.25	PUR/PVC	MTC-MAHD08-XXXB25

Note: X refers to cable specification

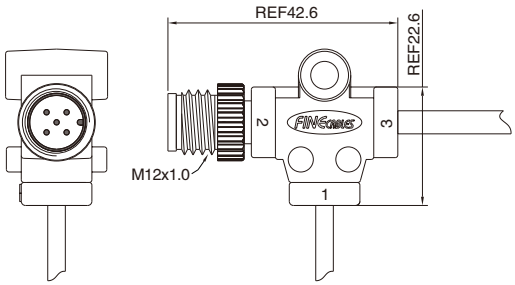
Remarks

• Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

M12 Plastic T-Splitter, Male with Molded Cable

- Connector series: M12
- Gender: Male&Cable
- Coding: A,B,D
- Locking type: Plastic fix screw
- Mounting type: T type
- Part No.: MTC-M*P**-XXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +80℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector overmold:	TPU
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D		A/C	D/C	AWG	mm²		
03 pins				4A	250V	250V	22AWG	0.34	PUR/PVC	MTC-MAP03-XXXB34 MTC-MBP03-XXXB34
04 pins				4A	250V	250V	22AWG	0.34	PUR/PVC	MTC-MAP04-XXXB34 MTC-MBP04-XXXB34 MTC-MDP04-XXXB34
05 pins				4A	60V	60V	22AWG	0.34	PUR/PVC	MTC-MAP05-XXXB34 MTC-MBP05-XXXB34
08 pins				2A	30V	30V	24AWG	0.25	PUR/PVC	MTC-MAP08-XXXB25

Note: X refers to cable specification

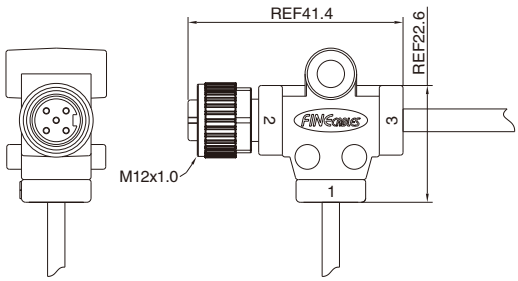
Remarks

• Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

M12 T-Splitter, Female with Molded Cable

- Connector series: M12
- Gender: Female&Cable
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: T type
- Part No.: MTC-F*HD**-XXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +80℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D		A/C	D/C	AWG	mm²		
03 pins				4A	250V	250V	22AWG	0.34	PUR/PVC	MTC-FAHD03-XXXB34 MTC-FBHD03-XXXB34
04 pins				4A	250V	250V	22AWG	0.34	PUR/PVC	MTC-FAHD04-XXXB34 MTC-FBHD04-XXXB34 MTC-FDHD04-XXXB34
05 pins				4A	60V	60V	22AWG	0.34	PUR/PVC	MTC-FAHD05-XXXB34 MTC-FBHD05-XXXB34
08 pins				2A	30V	30V	24AWG	0.25	PUR/PVC	MTC-FAHD08-XXXB25

Note: X refers to cable specification

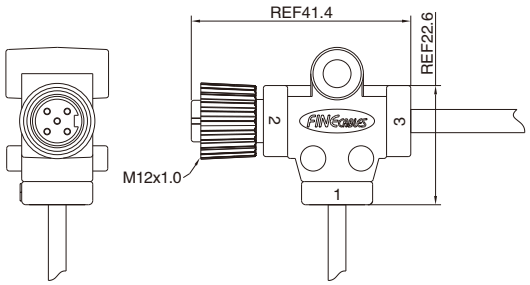
Remarks

• Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

M12 Plastic T-Splitter, Female with Molded Cable

- Connector series: M12
- Gender: Female&Cable
- Coding: A,B,D
- Locking type: Plastic fix screw
- Mounting type: T type
- Part No.: MTC-F*P**-XXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃ ~ +80℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector overmold:	TPU
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D		A/C	D/C	AWG	mm²		
03 pins				4A	250V	250V	22AWG	0.34	PUR/PVC	MTC-FAP03-XXXB34 MTC-FBP03-XXXB34
04 pins				4A	250V	250V	22AWG	0.34	PUR/PVC	MTC-FAP04-XXXB34 MTC-FBP04-XXXB34 MTC-FDP04-XXXB34
05 pins				4A	60V	60V	22AWG	0.34	PUR/PVC	MTC-FAP05-XXXB34 MTC-FBP05-XXXB34
08 pins				2A	30V	30V	24AWG	0.25	PUR/PVC	MTC-FAP08-XXXB25

Note: X refers to cable specification

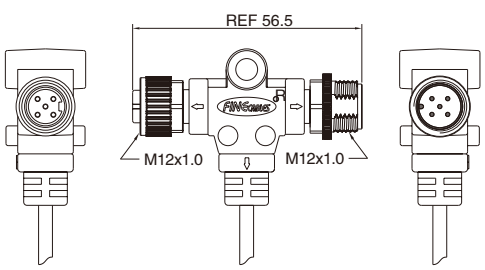
Remarks

• Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

M12 T-Splitter, Male-Female, Molded Cable

- Connector series: M12
- Gender: Male&Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: T type
- Part No.: MTC-MF*HD**-XXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification

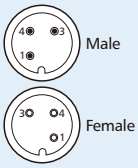
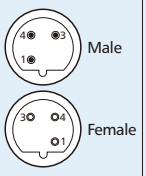
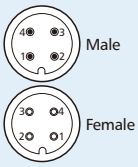
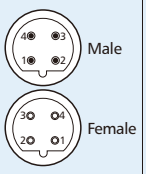
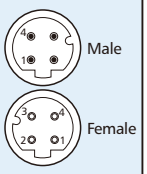
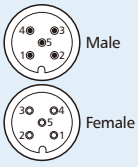
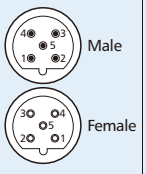
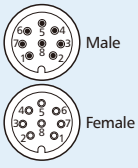


General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D		A/C	D/C	AWG	mm²		
03 pins				4A	250V	250V	22AWG	0.34	PUR/PVC	MTC-MFAHD03-XXXB34 MTC-MFBHD03-XXXB34
04 pins				4A	250V	250V	22AWG	0.34	PUR/PVC	MTC-MFAHD04-XXXB34 MTC-MFBHD04-XXXB34 MTC-MFDHD04-XXXB34
05 pins				4A	60V	60V	22AWG	0.34	PUR/PVC	MTC-MFAHD05-XXXB34 MTC-MFBHD05-XXXB34
08 pins				2A	30V	30V	24AWG	0.25	PUR/PVC	MTC-MFAHD08-XXXB25

Note: X refers to cable specification

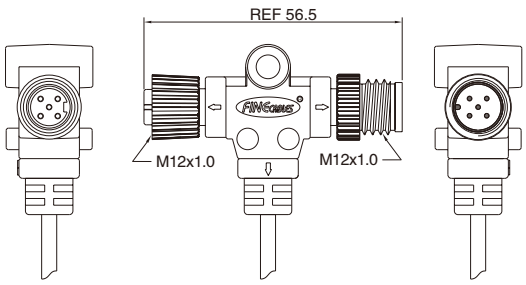
Remarks

• Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

M12 Plastic T-Splitter, Male-Female, Molded Cable

- Connector series: M12
- Gender: Male&Female
- Coding: A,B,D
- Locking type: Plastic fix screw
- Mounting type: T type
- Part No.: MTC-MF*P**-XXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector overmold:	TPU
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Wire gauge / size		Cable jacket	Part No.
	A	B	D		A/C	D/C	AWG	mm²		
03 pins	Male / Female	Male / Female		4A	250V	250V	22AWG	0.34	PUR/PVC	MTC-MFAP03-XXXB34 MTC-MFBP03-XXXB34
04 pins	Male / Female	Male / Female	Male / Female	4A	250V	250V	22AWG	0.34	PUR/PVC	MTC-MFAP04-XXXB34 MTC-MFBP04-XXXB34 MTC-MFDP04-XXXB34
05 pins	Male / Female	Male / Female		4A	60V	60V	22AWG	0.34	PUR/PVC	MTC-MFAP05-XXXB34 MTC-MFBP05-XXXB34
08 pins	Male / Female			2A	30V	30V	24AWG	0.25	PUR/PVC	MTC-MFAP08-XXXB25

Note: X refers to cable specification

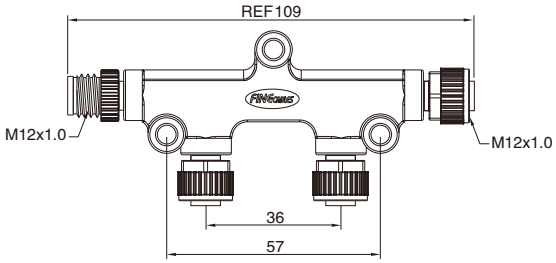
Remarks

• Please refer to Page 578 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

M12 Multi-Way 4T-Splitter, Male-3*Female

- Connector series: M12
- Gender: Male&Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: T type
- Part No.: M4T-*XX

* refers to coding type
XX refers to pins number



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

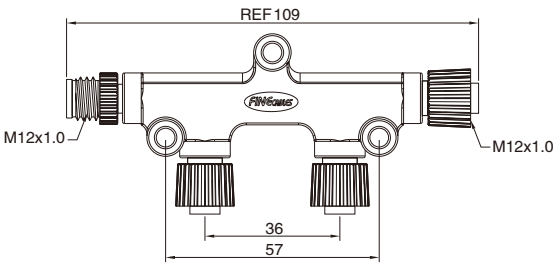
Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Part No.
	A	B	D		A/C	D/C	
03 pins	Male / Female	Male / Female		4A	250V	250V	M4T-A03 M4T-B03
04 pins	Male / Female	Male / Female	Male / Female	4A	250V	250V	M4T-A04 M4T-B04 M4T-D04
05 pins	Male / Female	Male / Female		4A	60V	60V	M4T-A05 M4T-B05
08 pins	Male / Female			2A	30V	30V	M4T-A08

M12 Plastic Multi-Way 4T-Splitter, Male-3*Female

- Connector series: M12
- Gender: Male&Female
- Coding: A,B,D
- Locking type: Plastic fix screw
- Mounting type: T type
- Part No.: M4TP-*XX

* refers to coding type
XX refers to pins number



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector overmold:	TPU
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

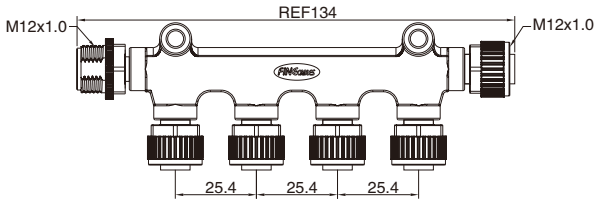
Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Part No.
	A	B	D		A/C	D/C	
03 pins	Male / Female	Male / Female		4A	250V	250V	M4TP-A03 M4TP-B03
04 pins	Male / Female	Male / Female	Male / Female	4A	250V	250V	M4TP-A04 M4TP-B04 M4TP-D04
05 pins	Male / Female	Male / Female		4A	60V	60V	M4TP-A05 M4TP-B05
08 pins	Male / Female			2A	30V	30V	M4TP-A08

M12 Multi-Way 6T-Splitter, Male-5*Female

- Connector series: M12
- Gender: Male&Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: T type
- Part No.: M6T-*XX

* refers to coding type
XX refers to pins number



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

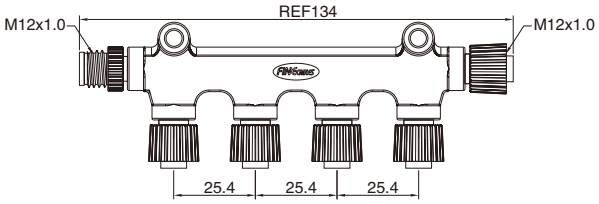
Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Part No.
	A	B	D		A/C	D/C	
03 pins	Male / Female	Male / Female		4A	250V	250V	M6T-A03 M6T-B03
04 pins	Male / Female	Male / Female	Male / Female	4A	250V	250V	M6T-A04 M6T-B04 M6T-D04
05 pins	Male / Female	Male / Female		4A	60V	60V	M6T-A05 M6T-B05
08 pins	Male / Female			2A	30V	30V	M6T-A08

M12 Plastic Multi-Way 6T-Splitter, Male-5*Female

- Connector series: M12
- Gender: Male&Female
- Coding: A,B,D
- Locking type: Plastic fix screw
- Mounting type: T type
- Part No.: M6TP-*XX

* refers to coding type
XX refers to pins number



General information

Standard:	IEC 61076-2-101
Ambient temperature:	-20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector overmold:	TPU
Seal/O-ring:	FKM

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

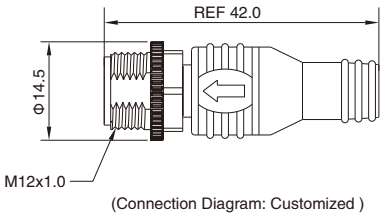
Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Part No.
	A	B	D		A/C	D/C	
03 pins	Male / Female	Male / Female		4A	250V	250V	M6TP-A03 M6TP-B03
04 pins	Male / Female	Male / Female	Male / Female	4A	250V	250V	M6TP-A04 M6TP-B04 M6TP-D04
05 pins	Male / Female	Male / Female		4A	60V	60V	M6TP-A05 M6TP-B05
08 pins	Male / Female			2A	30V	30V	M6TP-A08

M12 Male Terminator

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12M*HD**ST-T

* refers to coding type
** refers to pins number



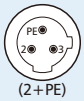
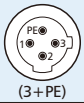
(Connection Diagram: Customized)

General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector screw:	Zinc alloy with nickel plated
Connector overmold:	TPU

Seal/O-ring:	FKM
Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

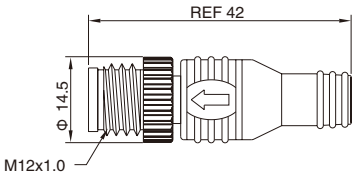
Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Part No.
	A	B	C	D		A/C	D/C	
03 pins			 (2+PE)		4A	250V	250V	MA12MAHD03ST-T MA12MBHD03ST-T MA12MCHD03ST-T
04 pins			 (3+PE)		4A	250V	250V	MA12MAHD04ST-T MA12MBHD04ST-T MA12MCHD04ST-T MA12MDHD04ST-T
05 pins			 (4+PE)		4A 2A(C-code)	60V	60V	MA12MAHD05ST-T MA12MBHD05ST-T MA12MCHD05ST-T
06 pins			 (5+PE)		2A	30V	30V	MA12MCHD06ST-T
08 pins					2A	30V	30V	MA12MAHD08ST-T
12 pins					1.5A	30V	30V	MA12MAHD12ST-T
17 pins					1.5A	30V	30V	MA12MAHD17ST-T

M12 Plastic Male Terminator

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Straight
- Part No.: MA12M*P**ST-T

* refers to coding type
** refers to pins number

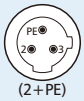
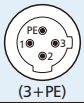
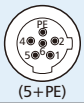


(Connection Diagram: Customized)

General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector screw:	PA+GF
Connector overmold:	TPU
Seal/O-ring:	FKM
Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

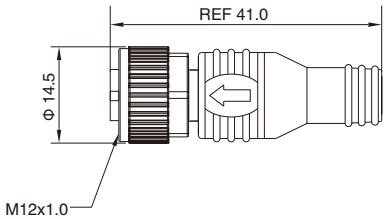
Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Part No.
	A	B	C	D		A/C	D/C	
03 pins			 (2+PE)		4A	250V	250V	MA12MAP03ST-T MA12MBP03ST-T MA12MCP03ST-T
04 pins			 (3+PE)		4A	250V	250V	MA12MAP04ST-T MA12MBP04ST-T MA12MCP04ST-T MA12MDP04ST-T
05 pins			 (4+PE)		4A 2A(C-code)	60V	60V	MA12MAP05ST-T MA12MBP05ST-T MA12MCP05ST-T
06 pins			 (5+PE)		2A	30V	30V	MA12MCP06ST-T
08 pins					2A	30V	30V	MA12MAP08ST-T
12 pins					1.5A	30V	30V	MA12MAP12ST-T

M12 Female Terminator

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12F*HD**ST-T

* refers to coding type
** refers to pins number



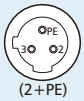
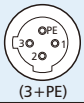
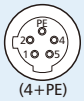
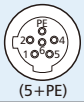
(Connection Diagram: Customized)

General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector screw:	Zinc alloy with nickel plated
Connector overmold:	TPU

Seal/O-ring:	FKM
Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

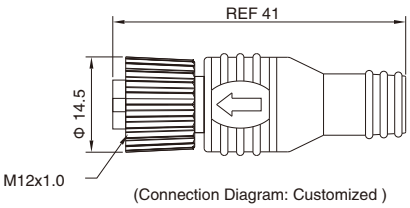
Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Part No.
	A	B	C	D		A/C	D/C	
03 pins			 (2+PE)		4A	250V	250V	MA12FAHD03ST-T MA12FBHD03ST-T MA12FCHD03ST-T
04 pins			 (3+PE)		4A	250V	250V	MA12FAHD04ST-T MA12FBHD04ST-T MA12FCHD04ST-T MA12FDHD04ST-T
05 pins			 (4+PE)		4A 2A(C-code)	60V	60V	MA12FAHD05ST-T MA12FBHD05ST-T MA12FCHD05ST-T
06 pins			 (5+PE)		2A	30V	30V	MA12FCHD06ST-T
08 pins					2A	30V	30V	MA12FAHD08ST-T
12 pins					1.5A	30V	30V	MA12FAHD12ST-T
17 pins					1.5A	30V	30V	MA12FAHD17ST-T

M12 Plastic Female Terminator

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Straight
- Part No.: MA12F*P**ST-T

* refers to coding type
** refers to pins number



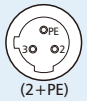
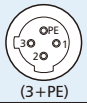
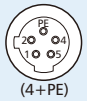
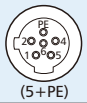
(Connection Diagram: Customized)

General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃ ~ +90℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector screw:	PA+GF
Connector overmold:	TPU

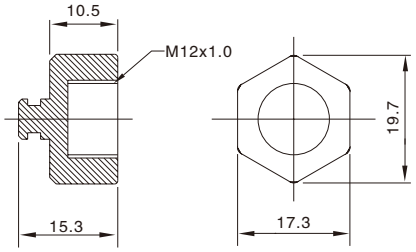
Seal/O-ring:	FKM
Insulation resistance:	⩾100MΩ
Contact resistance :	⩽5mΩ
Shielding:	Unavailable
IP rating:	IP68 in locked condition
Mating endurance:	>500 cycles

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Part No.
	A	B	C	D		A/C	D/C	
03 pins			 (2+PE)		4A	250V	250V	MA12FAP03ST-T MA12FBP03ST-T MA12FCP03ST-T
04 pins			 (3+PE)		4A	250V	250V	MA12FAP04ST-T MA12FBP04ST-T MA12FCP04ST-T MA12FDP04ST-T
05 pins			 (4+PE)		4A 2A(C-code)	60V	60V	MA12FAP05ST-T MA12FBP05ST-T MA12FCP05ST-T
06 pins			 (5+PE)		2A	30V	30V	MA12FCP06ST-T
08 pins					2A	30V	30V	MA12FAP08ST-T
12 pins					1.5A	30V	30V	MA12FAP12ST-T

M12 Protection Cap for Male Connector

- Cover series: M12
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCNM12x1.0-0

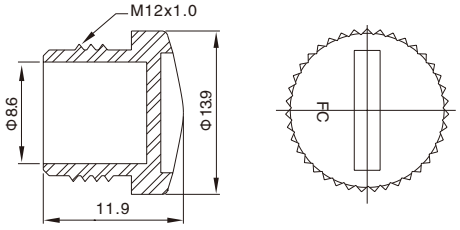


General information

Material:	PA+GF
O-ring:	FKM
Color:	Black
Degree of protection:	IP68 in locked condition

M12 Protection Cap for Female Connector

- Cover series: M12
- Gender: for Female
- Locking type: Fix screw
- Part No.: PCSM12x1.0-1

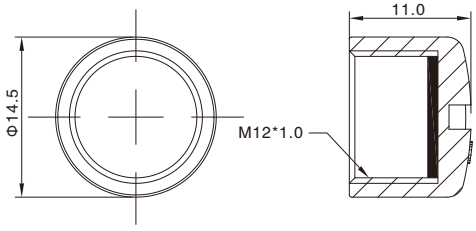


General information

Material:	PA+GF
Color:	Black
Degree of protection:	IP68 in locked condition

M12 Protection Cap for Male Connector

- Cover series: M12
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCNM12x1.0–2

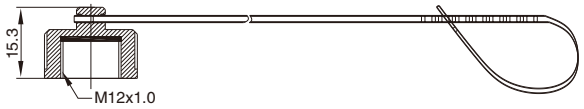


General information

Material:	PA+GF
O-ring:	FKM
Color:	Black
Degree of protection:	IP68 in locked condition

M12 Protection Cap for Male Molded Cable Connector

- Cover series: M12
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCNM12x1.0-3



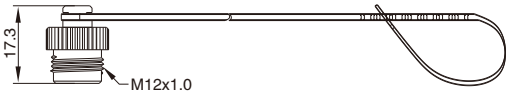
General information

Color:	Black
nut/screw:	PA+GF
Gasket:	FKM

Loop:	TPU
IP rating:	IP68 in locked condition

M12 Protection Cap for Female Molded Cable Connector

- Cover series: M12
- Gender: for Female
- Locking type: Fix screw
- Part No.: PCSM12x1.0-2



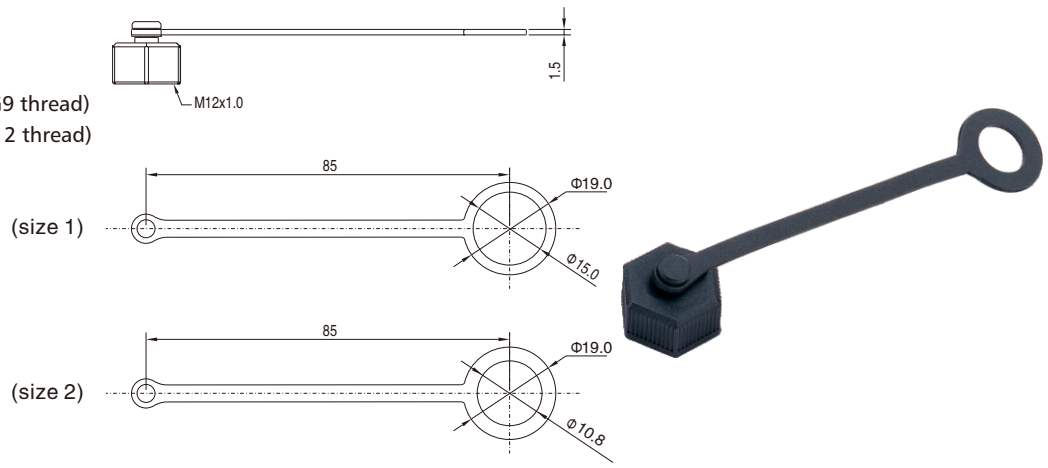
General information

Color:	Black
nut/screw:	PA+GF

Loop:	TPU
IP rating:	IP68 in locked condition

M12 Protection Cap for Male Panel-mount Connector

- Cover series: M12
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCNM12x1.0-4(for PG9 thread)
  PCNM12x1.0-1(for M12 thread)

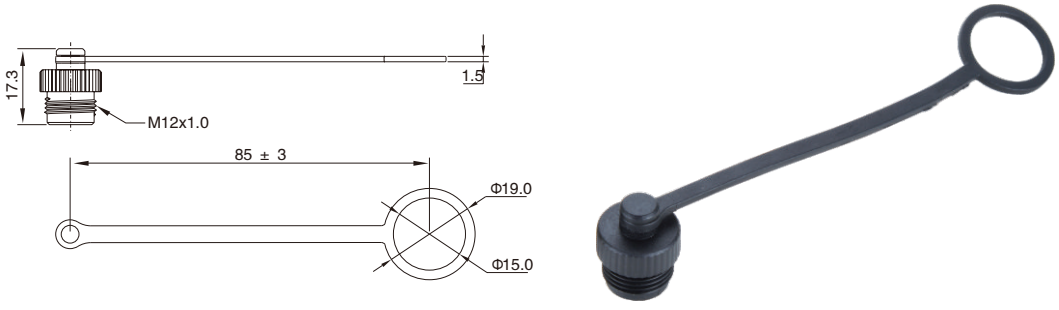


General information

Material:	PA+GF
O-ring:	FKM
Color:	Black
Degree of protection:	IP68 in locked condition

M12 Protection Cap for Female Panel-mount Connector

- Cover series: M12
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCSM12x1.0-3

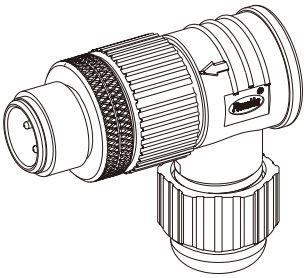


General information

Color:	Black
nut/screw:	PA+GF

Loop:	TPU
IP rating:	IP68 in locked condition

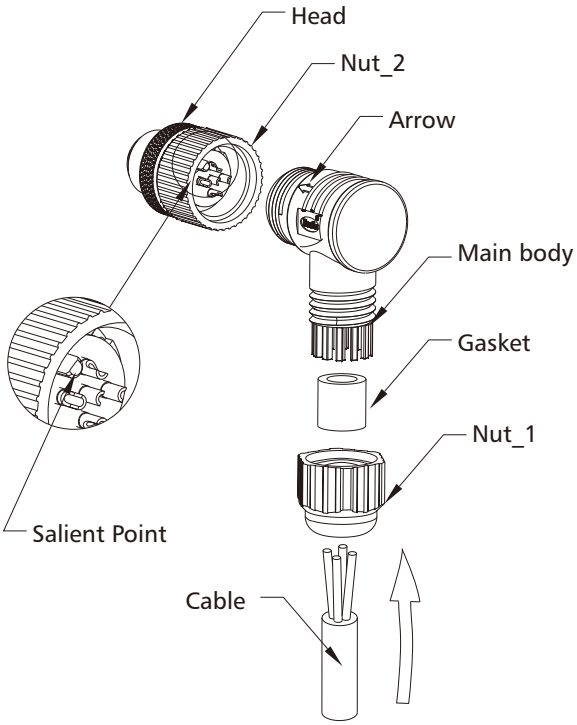
M12 Male Wirable Assembly Instruction



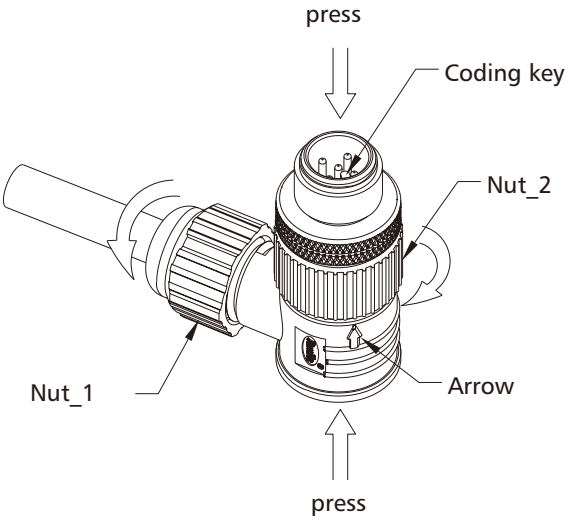
1) Put the cable through the nut, gasket and main body one by one;

2) And then solder the wires to the right pin of the head;

3) Make the salient point align with the arrow of main body, meanwhile pull the cable back untill the nut_2 contacted with main body;



Picture 1



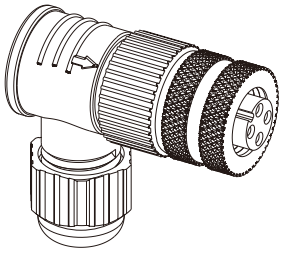
Picture 2

4) Press the connector lightly, like the picture 2. And the coding key will be aligned with the arrow, if not, just repeat step 3;

5) Pull back the cable lightly again after locking the nut_2 as tight as possible;

6) Push the gasket to the right position and lock the nut_1.

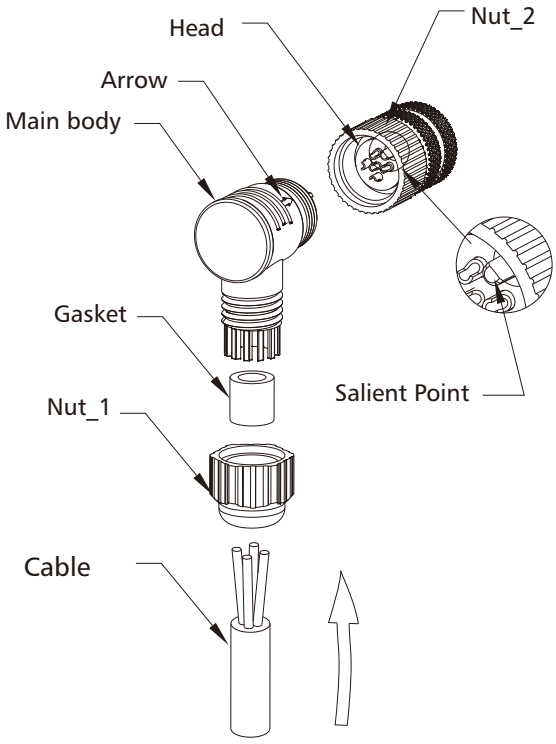
M12 Female Wirable Assembly Instruction



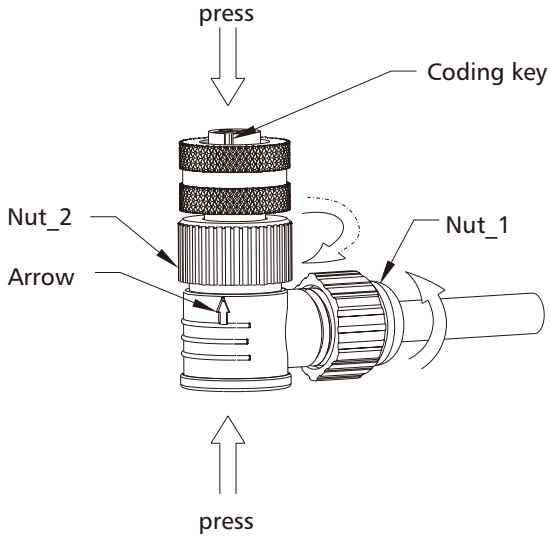
1) Put the cable through the nut, gasket and main body one by one;

2) And then solder the wires to the right pin of the head;

3) Make the salient point align with the arrow of main body, meanwhile pull the cable back untill the nut_2 contacted with main body;



Picture 1



Picture 2

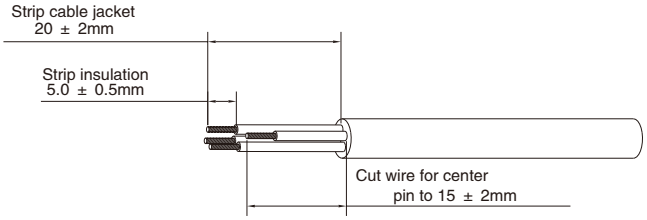
4) Press the connector lightly, like the picture 2. And the coding key will be aligned with the arrow, if not, just repeat step 3;

5) Pull back the cable lightly again after locking the nut_2 as tight as possible;

6) Push the gasket to the right position and lock the nut_1.

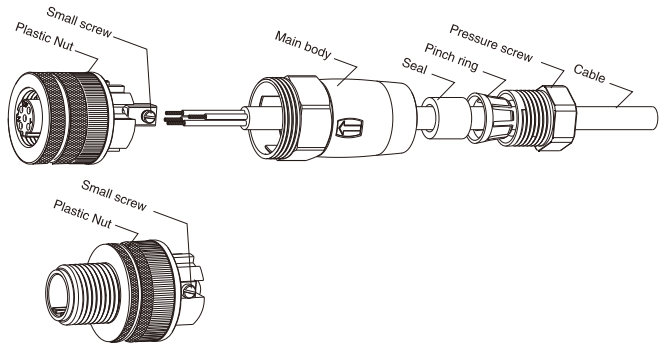
M12 Field Wirable Assembly with Screw Joint Instruction

Step 1

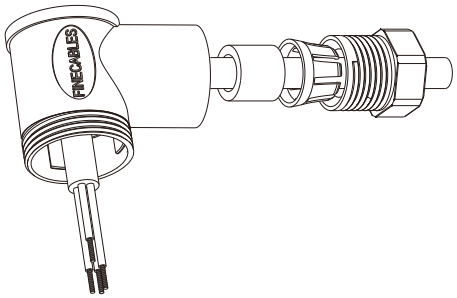


Step 2

Assemble all components on cable as following.



Right angled sketch

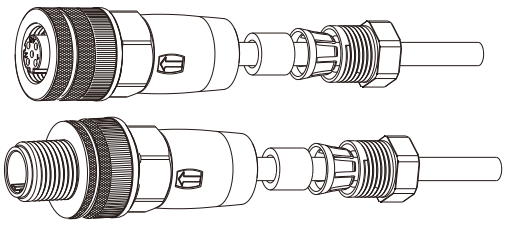


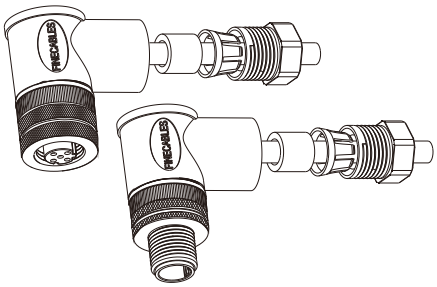
Step 3

Connect all wires to insert according to wirelist, then tighten all small screws. The torque for small screws is 0.2Nm.

Step 4

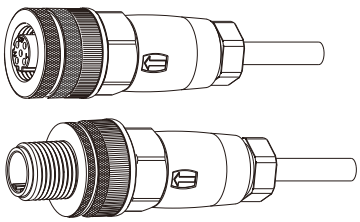
Assemble plastic nut to main body. Recommended torque:1.0Nm. (Note: The key inside the main body must go straight to slot of insert.)

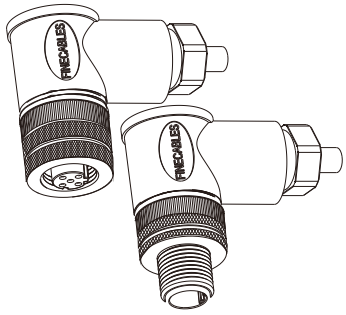




Step 5

Push the cable seal, pinch ring into the main body, then tighten the pressure screw into the body with recommended torque: 1.0Nm.

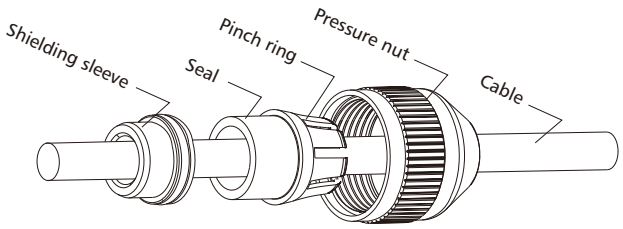




M12 Field Wirable Assembly with Screw Joint Instruction, Shield

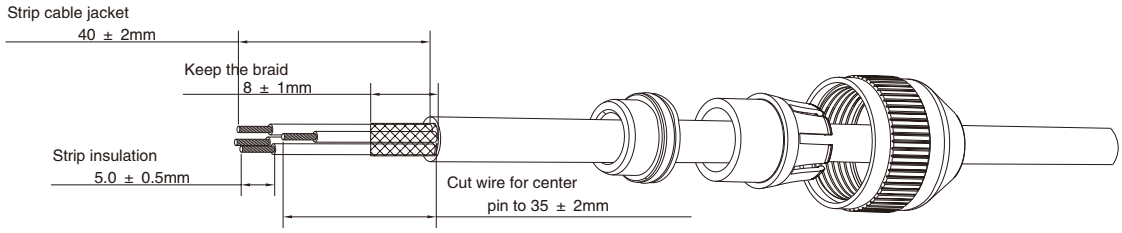
Step 1

Assemble all components on cable as following.



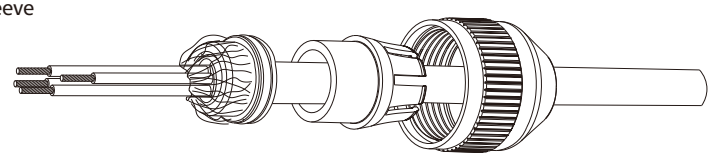
Step 2

Strip the cable as following.



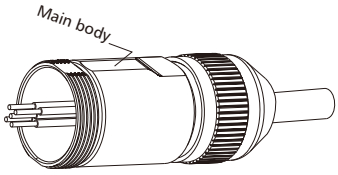
Step 3

Push the braid over the shielding sleeve



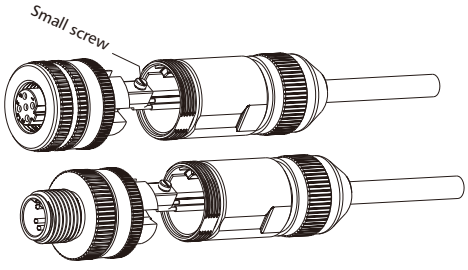
Step 4

Insert the cable in the main body and assemble the pressure nut tightly on the main body.
Recommended torque:1.0Nm.



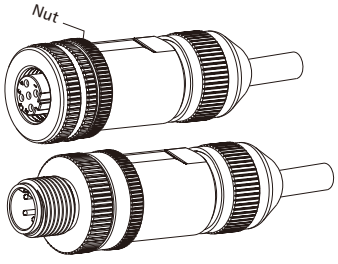
Step 5

Connect all wires to insert according to wirelist, then tighten all small screws.
The torque for small screws is 0.2Nm.



Step 6

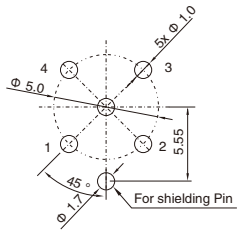
Insert the Female/male housing in the main body and assemble the nut to main body.
Recommended torque:1.0Nm.
(Note: The key inside the main body must go straight to slot of insert.)



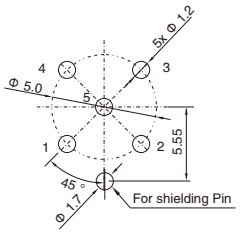
M12 PCB Layout & Panel cut-out

PCB Layout

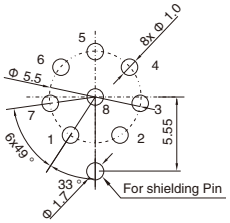
M12 Male Connector



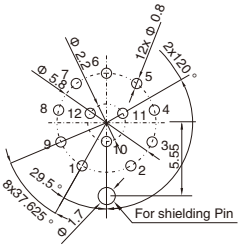
(Pin OD: Φ 0.8)
3P/4P/5P



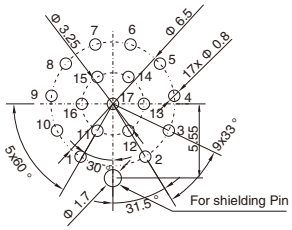
(Pin OD: Φ 1.0)
3P/4P/5P



(Pin OD: Φ 0.8)
8P



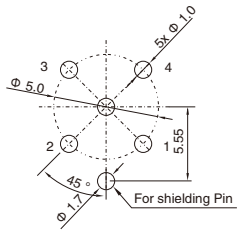
(Pin OD: Φ 0.6)
12P



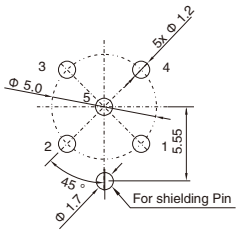
(Pin OD: Φ 0.6)
17P

Recommended PCB layout

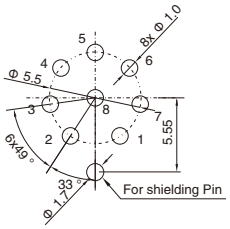
M12 Female Connector



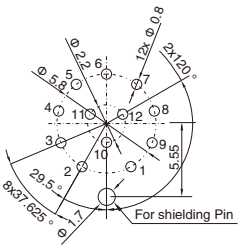
(Pin OD: Φ 0.8)
3P/4P/5P



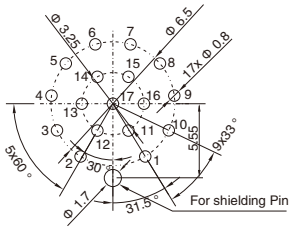
(Pin OD: Φ 1.0)
3P/4P/5P



(Pin OD: Φ 0.8)
8P



(Pin OD: Φ 0.6)
12P

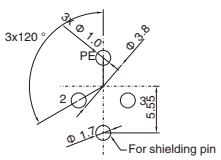


(Pin OD: Φ 0.6)
17P

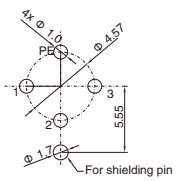
Recommended PCB layout

M12 C-Coding Connector

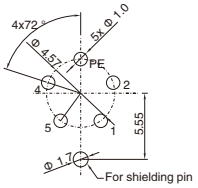
Male Connector



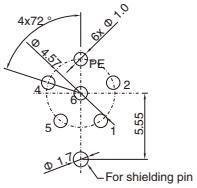
3Pin



4Pin

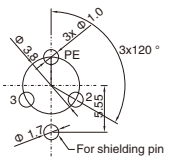


5Pin

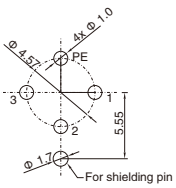


6Pin

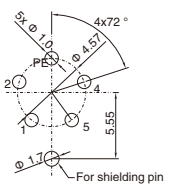
Female Connector



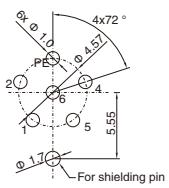
3Pin



4Pin

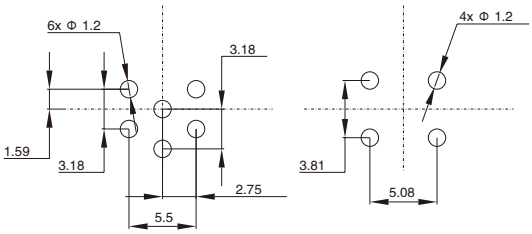


5Pin



6Pin

M12 Quick-lock Connector

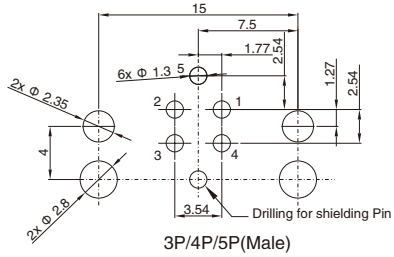


M12 PCB Layout & Panel cut-out

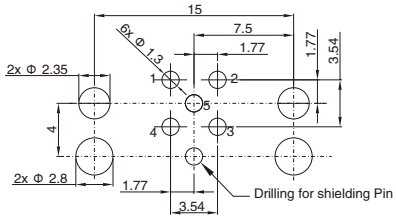
PCB Layout

M12 Right Angled Connector

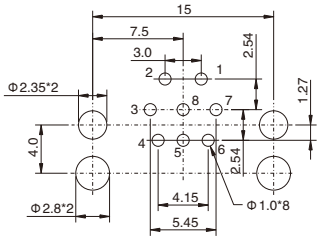
Recommended PCB layout



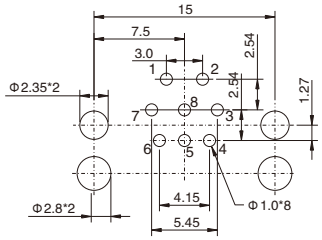
3P/4P/5P(Male)



3P/4P/5P(Female)



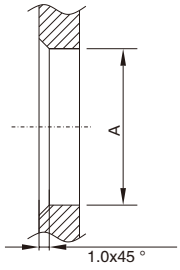
8P (male)



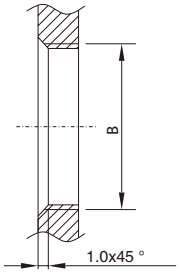
8P (female)

Panel cut-out

With bare hole

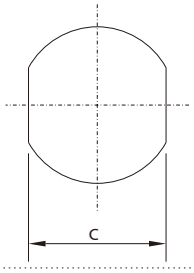


With thread to screw in

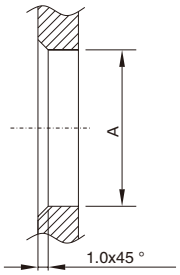


	A	B
M12	$12^{+0.1}_{-0}$	M12x1.0
M16	$16^{+0.1}_{-0}$	M16x1.5
PG9	$15.3^{+0.1}_{-0}$	PG9

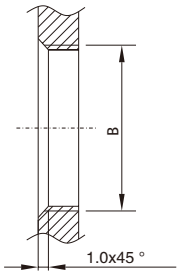
H-cutting



With bare hole

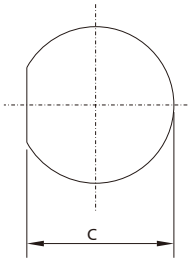


With thread to screw in

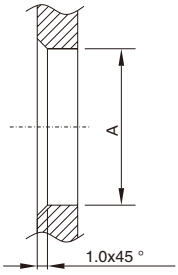


	A	B	C
M16	$16^{+0.1}_{-0}$	M16x1.5	$13.5^{+0.1}_{-0}$
PG9	$15.3^{+0.1}_{-0}$	PG9	$13.5^{+0.1}_{-0}$

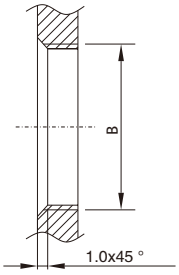
D-cutting



With bare hole



With thread to screw in



	A	B	C
M16	$16^{+0.1}_{-0}$	M16x1.5	$14.3^{+0.1}_{-0}$
PG9	$15.3^{+0.1}_{-0}$	PG9	$14.3^{+0.1}_{-0}$
5/8"-27UNS	$15.7^{+0.1}_{-0}$	5/8"-27UNS	$14.6^{+0.1}_{-0}$
M12	$12^{+0.1}_{-0}$	M12x1.0	$11.3^{+0.1}_{-0}$