

M12-A Circular Connector

60/125/250V 4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	4A	2A	1.5A
Rated voltage	250V	250V	125V	60V	60V
Rated impulse voltage	2500V	2500V	1500V	800V	800V
Pollution degree	3	3	3	3	3
Overvoltage categorie	II	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	crimp, moulded	crimp, moulded	crimp, moulded	crimp, moulded	crimp, moulded
Wire gauge	0.34mm ² (AWG22)	0.34mm ² (AWG22)	0.25mm ² (AWG24)	0.25mm ² (AWG24)	0.25mm ² (AWG24)
Cable outlet	-	-	-	-	-
Degree of protection	IP67	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100	> 100
Limiting temperature	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C	-25°C ...+85°C
Material group	II	II	II	II	II
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA	PA
Material of housing	TPU	TPU	TPU	TPU	TPU

Cable connectors-wire jumper

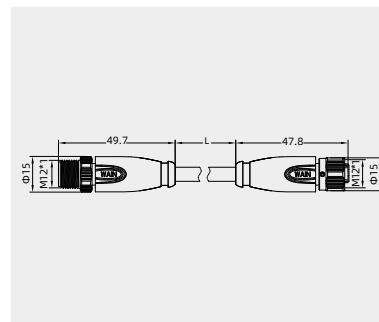
Male cable connector

-female cable connector

Recommended use



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PUR	1.5 m	M12-M03A-T/F03A-T-1.5-PUR	163 003 400 4041
		5.0 m	M12-M03A-T/F03A-T-5.0-PUR	163 003 400 4042
4	4x0.34PUR	1.5 m	M12-M04A-T/F04A-T-1.5-PUR	163 004 400 4041
		5.0 m	M12-M04A-T/F04A-T-5.0-PUR	163 004 400 4042
5	5x0.25PUR	1.5 m	M12-M05A-T/F05A-T-1.5-PUR	163 005 400 4041
		5.0 m	M12-M05A-T/F05A-T-5.0-PUR	163 005 400 4042
8	8x0.25PUR	1.5 m	M12-M08A-T/F08A-T-1.5-PUR	163 008 400 4007
		5.0 m	M12-M08A-T/F08A-T-5.0-PUR	163 008 400 4011
12	12x0.25PUR	1.5 m	M12-M12A-T/F12A-T-1.5-PUR	163 012 400 4001
		5.0 m	M12-M12A-T/F12A-T-5.0-PUR	163 012 400 4002



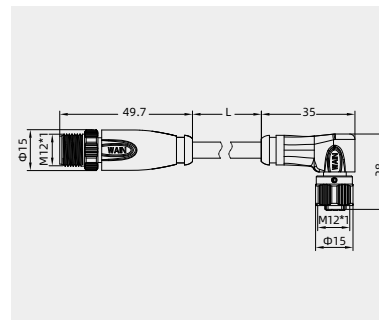
Male cable connector

-female angled cable connector

Recommended use



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PUR	1.5 m	M12-M03A-T/F03A-S-1.5-PUR	163 003 500 4041
		5.0 m	M12-M03A-T/F03A-S-5.0-PUR	163 003 500 4042
4	4x0.34PUR	1.5 m	M12-M04A-T/F04A-S-1.5-PUR	163 004 500 4041
		5.0 m	M12-M04A-T/F04A-S-5.0-PUR	163 004 500 4042
5	5x0.25PUR	1.5 m	M12-M05A-T/F05A-S-1.5-PUR	163 005 500 4041
		5.0 m	M12-M05A-T/F05A-S-5.0-PUR	163 005 500 4042
8	8x0.25PUR	1.5 m	M12-M08A-T/F08A-S-1.5-PUR	163 008 500 4041
		5.0 m	M12-M08A-T/F08A-S-5.0-PUR	163 008 400 4008
12	12x0.25PUR	1.5 m	M12-M12A-T/F12A-S-1.5-PUR	163 012 400 4003
		5.0 m	M12-M12A-T/F12A-S-5.0-PUR	163 012 500 4001



•Other cable lengths can be customized, double-ended connectors, male/female, straight/angled, shielded/unshielded, freely combinable.