

M12-A Circular Connector

60/125/250V 2/4A

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)	0.14mm ² (AWG26)
Cable outlet	-	-	-	-	-
Degree of protection	IP67 shielded	IP67 shielded	IP67 shielded	IP67 shielded	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

Angled cable connectors, cable

Female angled connector moulded,
screw

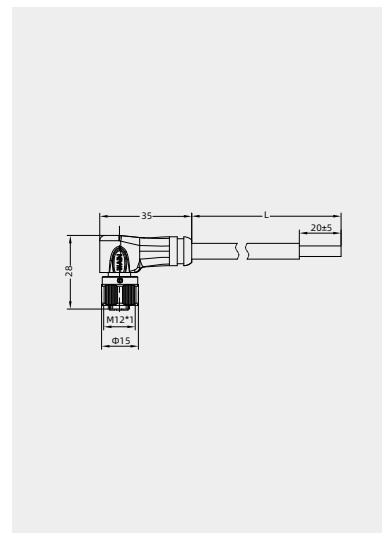
Recommended use



A-Code



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PVC	1.5 m	M12-F03A-S-1.5-PVC	163 003 502 4001
		5.0 m	M12-F03A-S-5.0-PVC	163 003 502 4002
	3x0.34PUR	1.5 m	M12-F03A-S-1.5-PUR	163 003 502 4041
		5.0 m	M12-F03A-S-5.0-PUR	163 003 502 4042
4	4x0.34PVC	1.5 m	M12-F04A-S-1.5-PVC	163 004 502 4001
		5.0 m	M12-F04A-S-5.0-PVC	163 004 502 4002
	4x0.34PUR	1.5 m	M12-F04A-S-1.5-PUR	163 004 502 4041
		5.0 m	M12-F04A-S-5.0-PUR	163 004 502 4042
5	5x0.25PVC	1.5 m	M12-F05A-S-1.5-PVC	163 005 502 4001
		5.0 m	M12-F05A-S-5.0-PVC	163 005 502 4002
	5x0.25PUR	1.5 m	M12-F05A-S-1.5-PUR	163 005 502 4041
		5.0 m	M12-F05A-S-5.0-PUR	163 005 502 4042
8	8x0.25PUR	1.5 m	M12-F08A-S-1.5-PUR	163 008 502 4041
		5.0 m	M12-F08A-S-5.0-PUR	163 008 502 4042
12	12x0.25PVC	1.5 m	M12-F12A-S-1.5-PVC	163 012 502 4001
		5.0 m	M12-F12A-S-5.0-PVC	163 012 502 4002
	12x0.25PUR	1.5 m	M12-F12A-S-1.5-PUR	163 012 502 4003
		5.0 m	M12-F12A-S-5.0-PUR	163 012 502 4004



Female angled connector moulded
screw, shielded

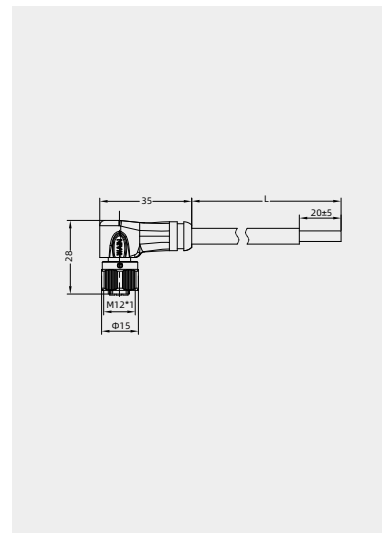
Recommended use



A-Code



Contacts	Cable	Cable length	Designation	Order No.
3	3x0.34PVC	1.5 m	M12-F03A-S-1.5-PVC-SH	163 003 502 4021
		5.0 m	M12-F03A-S-5.0-PVC-SH	163 003 502 4022
	3x0.34PUR	1.5 m	M12-F03A-S-1.5-PUR-SH	163 003 502 4061
		5.0 m	M12-F03A-S-5.0-PUR-SH	163 003 502 4062
4	4x0.34PVC	1.5 m	M12-F04A-S-1.5-PVC-SH	163 004 502 4021
		5.0 m	M12-F04A-S-5.0-PVC-SH	163 004 502 4022
	4x0.34PUR	1.5 m	M12-F04A-S-1.5-PUR-SH	163 004 502 4061
		5.0 m	M12-F04A-S-5.0-PUR-SH	163 004 502 4062
5	5x0.25PVC	1.5 m	M12-F05A-S-1.5-PVC-SH	163 005 502 4021
		5.0 m	M12-F05A-S-5.0-PVC-SH	163 005 502 4022
	5x0.25PUR	1.5 m	M12-F05A-S-1.5-PUR-SH	163 005 502 4061
		5.0 m	M12-F05A-S-5.0-PUR-SH	163 005 502 4062
8	8x0.25PUR	1.5 m	M12-F08A-S-1.5-PUR-SH	163 008 524 2001
		5.0 m	M12-F08A-S-5.0-PUR-SH	163 008 524 2002
12	12x0.25PVC	1.5 m	M12-F12A-S-1.5-PVC-SH	163 012 502 2001
		5.0 m	M12-F12A-S-5.0-PVC-SH	163 012 502 2002
	12x0.25PUR	1.5 m	M12-F12A-S-1.5-PUR-SH	163 012 502 2003
		5.0 m	M12-F12A-S-5.0-PUR-SH	163 012 502 2004



•Further cable length upon request.