

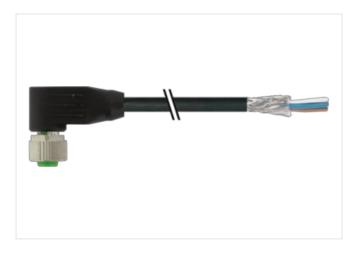
## M12 female 90° A-cod. with cable shielded

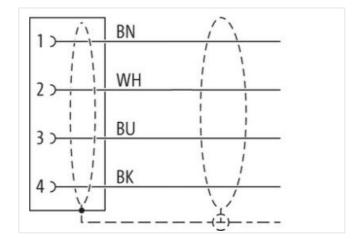
PVC 4x0.34 shielded bk UL/CSA 32m

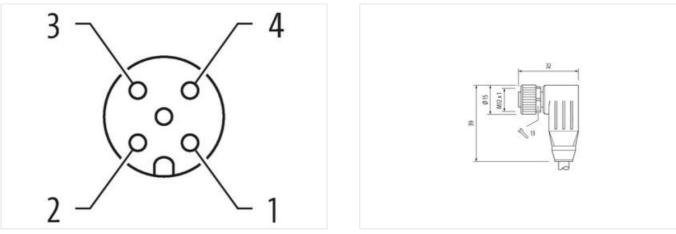
Female 90° M12, 4-pole shielded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

Illustration







Product may differ from Image



Cable length

Side 1

Tightening torque

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32 m

0,6 Nm

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Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	Α
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879609630
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Installation   Connection	
Mounting set	M12 x 1
Mounting set           Device protection   Electrical	M12 x 1
	M12 x 1 inserted, screwed
Device protection   Electrical	
Device protection   Electrical Additional condition protection degree	inserted, screwed
Device protection   Electrical           Additional condition protection degree           Pollution Degree	inserted, screwed 3
Device protection   Electrical           Additional condition protection degree           Pollution Degree           Rated surge voltage	inserted, screwed 3
Device protection   Electrical         Additional condition protection degree         Pollution Degree         Rated surge voltage         Material group (IEC 60664-1)	inserted, screwed 3
Device protection   Electrical         Additional condition protection degree         Pollution Degree         Rated surge voltage         Material group (IEC 60664-1)         Mechanical data   Material data	inserted, screwed 3 1,5 kV I
Device protection   Electrical         Additional condition protection degree         Pollution Degree         Rated surge voltage         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking	inserted, screwed 3 1,5 kV I Nickeled
Device protection   Electrical         Additional condition protection degree         Pollution Degree         Rated surge voltage         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Coating of fitting	inserted, screwed 3 1,5 kV I Nickeled Nickel plated
Device protection   Electrical         Additional condition protection degree         Pollution Degree         Rated surge voltage         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Coating of fitting         Locking material	inserted, screwed 3 1,5 kV I Nickeled nickel plated Zinc die-casting
Device protection   Electrical         Additional condition protection degree         Pollution Degree         Rated surge voltage         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Coating of fitting         Locking material         Material screw connection	inserted, screwed 3 1,5 kV I Nickeled nickel plated Zinc die-casting
Device protection   Electrical         Additional condition protection degree         Pollution Degree         Rated surge voltage         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Coating of fitting         Locking material         Material screw connection         Mechanical data   Mounting data	inserted, screwed 3 1,5 kV I Nickeled nickel plated Zinc die-casting Zinc die-casting
Device protection   Electrical         Additional condition protection degree         Pollution Degree         Rated surge voltage         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Coating of fitting         Locking material         Material screw connection         Mechanical data   Mounting data         Mounting method	inserted, screwed 3 1,5 kV I Nickeled nickel plated Zinc die-casting Zinc die-casting
Device protection   Electrical         Additional condition protection degree         Pollution Degree         Rated surge voltage         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Coating of fitting         Locking material         Material screw connection         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic	inserted, screwed 3 1,5 kV I Nickeled nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection
Device protection   Electrical         Additional condition protection degree         Pollution Degree         Rated surge voltage         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Coating of fitting         Locking material         Material screw connection         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic         Operating temperature min.	inserted, screwed 3 1,5 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting -25 °C
Device protection   Electrical         Additional condition protection degree         Pollution Degree         Rated surge voltage         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Coating of fitting         Locking material         Material screw connection         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.	inserted, screwed 3 1,5 kV I Nickeled nickel plated Zinc die-casting Zinc die-casting -25 °C 85 °C
Device protection   Electrical         Additional condition protection degree         Pollution Degree         Rated surge voltage         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Coating of fitting         Locking material         Material screw connection         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Additional condition temperature range	inserted, screwed 3 1,5 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection -25 ℃ 85 ℃ depending on cable quality
Device protection   Electrical         Additional condition protection degree         Pollution Degree         Rated surge voltage         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Coating of fitting         Locking material         Material screw connection         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Additional condition temperature range         Important installation notes	inserted, screwed 3 1,5 kV I Nickeled nickel plated Zinc die-casting Zinc die-casting -25 °C 85 °C
Device protection   Electrical         Additional condition protection degree         Pollution Degree         Rated surge voltage         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Coating of fitting         Locking material         Material screw connection         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Additional condition temperature range         Important installation notes         Note on strain relief         Note on bending radius	inserted, screwed         3         1,5 kV         1         Nickeled         nickel plated         Zinc die-casting         Zinc die-casting         inserted, screwed, Shaking protection         -25 °C         85 °C         depending on cable quality         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Device protection   Electrical         Additional condition protection degree         Pollution Degree         Rated surge voltage         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Coating locking         Coating of fitting         Locking material         Material screw connection         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Additional condition temperature range         Important installation notes         Note on strain relief         Note on bending radius         Conformity	inserted, screwed         3         1,5 kV         I         Nickeled         nickel plated         Zinc die-casting         Zinc die-casting         inserted, screwed, Shaking protection         -25 °C         85 °C         depending on cable quality         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Device protection   Electrical         Additional condition protection degree         Pollution Degree         Rated surge voltage         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Coating of fitting         Locking material         Material screw connection         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Additional condition temperature range         Important installation notes         Note on strain relief         Note on bending radius	inserted, screwed         3         1,5 kV         1         Nickeled         nickel plated         Zinc die-casting         Zinc die-casting         inserted, screwed, Shaking protection         -25 °C         85 °C         depending on cable quality         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be

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wire arrangement

brown, white, red, blue, pink, gray, yellow, green

Cable identification	179
Jacket Color	green
Type of Certificate	cURus
Amount stranding	2
Stranding	2 wires twisted
Amount stranding (type 2)	1
Stranding (type 2)	2 Stranded joints with Filler twisted
Banding	Fleece
Filler	yes
wire arrangement	brown, white, red, blue, pink, gray, yellow, green
Cable weigth	60,5 g/m
Material jacket	PVC
Shore hardness jacket	92 ± 3 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free
Outer-diameter (jacket)	6,1 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PP
Amount wires	4
Outer diameter insulation	1,1 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	55 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	7
Diameter of single wires	24 AWG
Conductor crosssection (wire)	24 AWG
Material conductor wire	copper stranded wire, tinned
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	3,6 A
Characteristic impedance	100 Ω
Electrical resistance line constant wire	87 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	0,5 kV @ 60 s
Electric capacitance	49000 pF/km
Power frequency withstand voltage (wire - jacket)	0,5 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	70 °C
Flame resistance	UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (installation)	x Outer diameter
Bending radius (fixed)	7 x Outer diameter
Bending radius (dynamic)	12 x Outer diameter

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