

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

PVC 3x0.34 shielded bk UL/ 5.0m

Female 90° M12, 3-pole shielded A-coded

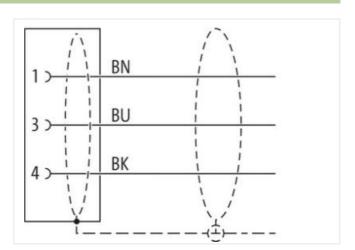
Plastic housings with good resistance against chemicals and oils.

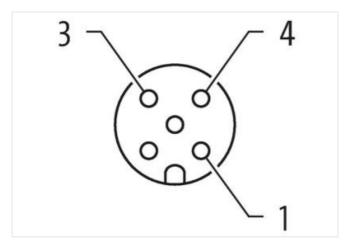
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

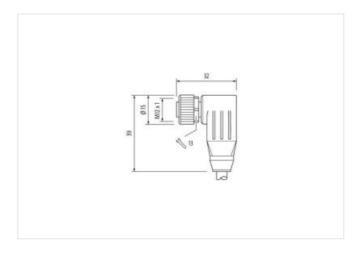
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

5 m

Side 1

Tightening torque

0,6 Nm



stay connected

Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Stripping length (jacket)	20 mm
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	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	4065909084823
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
	47
Installation   Connection	
Stripping length (jacket)	20 mm
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	I
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	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
Note on bending radius	endangered by excessive bending forces.

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-11



stay connected

Conformity	
Product standard	DIN EN 61076-2-101 (M12)
	2 2 3 3 2 101 (m12)
Installation   Cable	
Cable identification	600
Cable Type	1
Jacket Color	black
Type of Certificate	cURus
Amount stranding	1
Stranding	3 wires twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	80 %
Banding	Fleece, Foil
wire arrangement	brown, black, blue
Cable weigth	52,8 g/m
Material jacket	PVC
Shore hardness jacket	85 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Outer-diameter (jacket)	5 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	PVC
Amount wires	3
Outer diameter insulation	1,25 mm
Outer diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	45 ± 5 Shore D
Material properties wire insulation	good machinability
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Ingredient freeness wire insulation  Amount strands (wire)	lead-free, cadmium-free, CFC-free, silicone-free 19
Amount strands (wire)	19
Amount strands (wire)  Diameter of single wires	19 0,15 mm
Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)	19 0,15 mm 0,34 mm <sup>2</sup>
Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire	19  0,15 mm  0,34 mm²  Stranded copper wire, bare
Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)	19 0,15 mm 0,34 mm² Stranded copper wire, bare Strand class 5
Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.	0,15 mm 0,34 mm² Stranded copper wire, bare Strand class 5 300 V
Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)	0,15 mm 0,34 mm² Stranded copper wire, bare Strand class 5 300 V to DIN VDE 0298-4
Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire	0,15 mm 0,34 mm² Stranded copper wire, bare Strand class 5 300 V to DIN VDE 0298-4 6 A
Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  Electrical resistance line constant wire	19  0,15 mm  0,34 mm²  Stranded copper wire, bare  Strand class 5  300 V  to DIN VDE 0298-4  6 A  57 Ω/km @ 20 °C
Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire -	19  0,15 mm  0,34 mm²  Stranded copper wire, bare  Strand class 5  300 V  to DIN VDE 0298-4  6 A  57 Ω/km @ 20 °C  2 kV @ 60 s
Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire - jacket)	19  0,15 mm  0,34 mm²  Stranded copper wire, bare  Strand class 5  300 V  to DIN VDE 0298-4  6 A  57 Ω/km @ 20 °C  2 kV @ 60 s
Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)	19  0,15 mm  0,34 mm²  Stranded copper wire, bare  Strand class 5  300 V  to DIN VDE 0298-4  6 A  57 Ω/km @ 20 °C  2 kV @ 60 s  2 kV @ 60 s
Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  Min. operating temperature (static)	19  0,15 mm  0,34 mm²  Stranded copper wire, bare  Strand class 5  300 V  to DIN VDE 0298-4  6 A  57 Ω/km @ 20 °C  2 kV @ 60 s  2 kV @ 60 s  -30 °C
Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  Min. operating temperature (static)  Max. operating temperature (fixed)	19  0,15 mm  0,34 mm²  Stranded copper wire, bare  Strand class 5  300 V  to DIN VDE 0298-4  6 A  57 Ω/km @ 20 °C  2 kV @ 60 s  2 kV @ 60 s  2 kV @ 60 s
Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)	19  0,15 mm  0,34 mm²  Stranded copper wire, bare  Strand class 5  300 V  to DIN VDE 0298-4  6 A  57 Ω/km @ 20 °C  2 kV @ 60 s  2 kV @ 60 s  2 kV @ 60 s  -30 °C  80 °C  -5 °C
Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)	19  0,15 mm  0,34 mm²  Stranded copper wire, bare  Strand class 5  300 V  to DIN VDE 0298-4  6 A  57 Ω/km @ 20 °C  2 kV @ 60 s  2 kV @ 60 s  2 kV @ 60 s  -30 °C  80 °C
Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  UV resistance	19  0,15 mm  0,34 mm²  Stranded copper wire, bare  Strand class 5  300 V  to DIN VDE 0298-4  6 A  57 Ω/km @ 20 °C  2 kV @ 60 s  2 kV @ 60 s  2 kV @ 60 s  -30 °C  80 °C  -5 °C  80 °C  DIN EN ISO 4892-2 A
Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  UV resistance  Flame resistance	0,15 mm 0,34 mm² Stranded copper wire, bare Strand class 5 300 V to DIN VDE 0298-4 6 A 57 Ω/km @ 20 °C 2 kV @ 60 s 2 kV @ 60 s 2 kV @ 60 s -30 °C 80 °C -5 °C 80 °C DIN EN ISO 4892-2 A IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2
Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  UV resistance  Flame resistance  chemical resistance	19 0,15 mm 0,34 mm² Stranded copper wire, bare Strand class 5 300 V to DIN VDE 0298-4 6 A 57 Ω/km @ 20 °C 2 kV @ 60 s 2 kV @ 60 s 2 kV @ 60 s -30 °C 80 °C -5 °C 80 °C DIN EN ISO 4892-2 A IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2 Good, application-related testing