

stay connected

## M12 female 0° A-cod. with cable shielded

PUR 3x0.34 shielded bk UL/CSA+drag ch. 30m

Female straight M12, 3-pole shielded

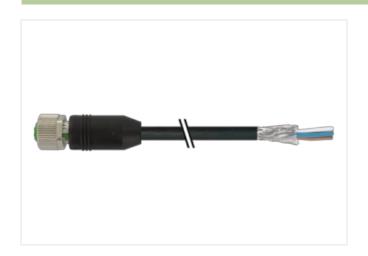
with cable sleeves

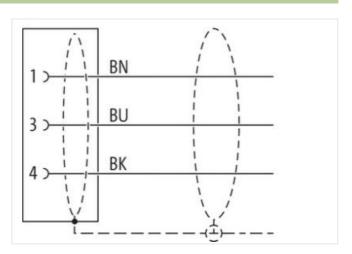
Plastic housings with good resistance against chemicals and oils.

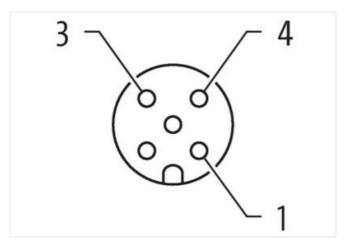
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

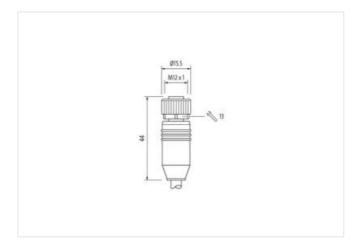
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

30 m

Side 1

Tightening torque

0,6 Nm

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: 2024-05-18



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
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	4048879676168
Packaging unit	1
	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
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.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
	endangered by excessive bending forces.
Conformity	
B	DIN EN 61076-2-101 (M12)
Product standard	DIN EN 01070-2-101 (W12)



stay connected

Cable identification	640
Cable Type	3
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	44 g/m
Material jacket	PUR
Shore hardness jacket	90 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	5 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	PP
Amount wires	3
Outer diameter insulation	1.25 mm
Outer diameter insulation  Outer diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	70 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	42
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,34 mm²
Naterial secolustary crise	
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Conductor type (wire) Traversing distance (C-track)	strand class 6 5 m @ 25 °C   horizontal
Conductor type (wire)  Traversing distance (C-track)  Nominal voltage AC max.	strand class 6 5 m @ 25 °C   horizontal 300 V
Conductor type (wire)  Traversing distance (C-track)  Nominal voltage AC max.  Current load capacity (standard)	strand class 6  5 m @ 25 °C   horizontal  300 V  to DIN VDE 0298-4
Conductor type (wire) Traversing distance (C-track) Nominal voltage AC max. Current load capacity (standard) Current load capacity min. wire	strand class 6  5 m @ 25 °C   horizontal  300 V  to DIN VDE 0298-4  6 A
Conductor type (wire) Traversing distance (C-track) Nominal voltage AC max. Current load capacity (standard) Current load capacity min. wire Electrical resistance line constant wire	strand class 6  5 m @ 25 °C   horizontal  300 V  to DIN VDE 0298-4  6 A  57 Ω/km @ 20 °C
Conductor type (wire) Traversing distance (C-track) Nominal voltage AC max. Current load capacity (standard) Current load capacity min. wire Electrical resistance line constant wire AC withstand voltage (wire - wire)	strand class 6  5 m @ 25 °C   horizontal  300 V  to DIN VDE 0298-4  6 A
Conductor type (wire) Traversing distance (C-track) Nominal voltage AC max. Current load capacity (standard) Current load capacity min. wire Electrical resistance line constant wire	strand class 6  5 m @ 25 °C   horizontal  300 V  to DIN VDE 0298-4  6 A  57 Ω/km @ 20 °C
Conductor type (wire) Traversing distance (C-track) 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 -	strand class 6  5 m @ 25 °C   horizontal  300 V  to DIN VDE 0298-4  6 A  57 Ω/km @ 20 °C  2 kV @ 60 s
Conductor type (wire) Traversing distance (C-track) 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)	strand class 6  5 m @ 25 °C   horizontal  300 V  to DIN VDE 0298-4  6 A  57 Ω/km @ 20 °C  2 kV @ 60 s
Conductor type (wire)  Traversing distance (C-track)  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)	strand class 6  5 m @ 25 °C   horizontal  300 V  to DIN VDE 0298-4  6 A  57 Ω/km @ 20 °C  2 kV @ 60 s  2 kV @ 60 s
Conductor type (wire)  Traversing distance (C-track)  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)	strand class 6  5 m @ 25 °C   horizontal  300 V  to DIN VDE 0298-4  6 A  57 Ω/km @ 20 °C  2 kV @ 60 s  2 kV @ 60 s  -40 °C
Conductor type (wire)  Traversing distance (C-track)  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)	strand class 6  5 m @ 25 °C   horizontal  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  -40 °C  80 °C / 90 °C @ 10000 h Operation
Conductor type (wire) Traversing distance (C-track) 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)	strand class 6  5 m @ 25 °C   horizontal  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  -40 °C  80 °C / 90 °C @ 10000 h Operation  -25 °C  80 °C / 90 °C @ 10000 h Operation  DIN EN ISO 4892-2 A
Conductor type (wire) Traversing distance (C-track) 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)	strand class 6  5 m @ 25 °C   horizontal  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  -40 °C  80 °C / 90 °C @ 10000 h Operation  -25 °C  80 °C / 90 °C @ 10000 h Operation
Conductor type (wire)  Traversing distance (C-track)  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	strand class 6  5 m @ 25 °C   horizontal  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  -40 °C  80 °C / 90 °C @ 10000 h Operation  -25 °C  80 °C / 90 °C @ 10000 h Operation  DIN EN ISO 4892-2 A
Conductor type (wire)  Traversing distance (C-track)  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	strand class 6  5 m @ 25 °C   horizontal  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  -40 °C  80 °C / 90 °C @ 10000 h Operation  -25 °C  80 °C / 90 °C @ 10000 h Operation  DIN EN ISO 4892-2 A  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2
Conductor type (wire) Traversing distance (C-track) 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 chemical resistance	strand class 6  5 m @ 25 °C   horizontal  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  -40 °C  80 °C / 90 °C @ 10000 h Operation  -25 °C  80 °C / 90 °C @ 10000 h Operation  DIN EN ISO 4892-2 A  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  Good, application-related testing
Conductor type (wire) Traversing distance (C-track) 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 Gasoline resistance	strand class 6  5 m @ 25 °C   horizontal  300 V  to DIN VDE 0298-4  6 A  57 Ω/km @ 20 °C  2 kV @ 60 s  40 °C  80 °C / 90 °C @ 10000 h Operation  -25 °C  80 °C / 90 °C @ 10000 h Operation  DIN EN ISO 4892-2 A  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  Good, application-related testing  Good, application-related testing
Conductor type (wire)  Traversing distance (C-track)  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  chemical resistance  Gasoline resistance	strand class 6  5 m @ 25 °C   horizontal  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  -40 °C  80 °C / 90 °C @ 10000 h Operation  -25 °C  80 °C / 90 °C @ 10000 h Operation  DIN EN ISO 4892-2 A  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  Good, application-related testing
Conductor type (wire) Traversing distance (C-track) 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 Chemical resistance Gasoline resistance Oil resistance Bending radius (fixed)	strand class 6  5 m @ 25 °C   horizontal  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  -40 °C  80 °C / 90 °C @ 10000 h Operation  -25 °C  80 °C / 90 °C @ 10000 h Operation  DIN EN ISO 4892-2 A  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  Good, application-related testing  Good, application-related testing   Good, application-related testing   Good, application-related testing   Good, application-related testing   Good, application-related testing   Good, application-related testing   DIN EN 60811-404
Conductor type (wire) Traversing distance (C-track) 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 chemical resistance Gasoline resistance Oil resistance Bending radius (fixed) Bending radius (dynamic)	strand class 6  5 m @ 25 °C   horizontal  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  -40 °C  80 °C / 90 °C @ 10000 h Operation  -25 °C  80 °C / 90 °C @ 10000 h Operation  DIN EN ISO 4892-2 A  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  Good, application-related testing  Good, application-related testing   Good, application-related testing   Good, application-related testing   Good, application-related testing   Good, application-related testing   DIN EN 60811-404  5 x Outer diameter  10 x Outer diameter
Conductor type (wire) Traversing distance (C-track) 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 Gasoline resistance Oil resistance Bending radius (fixed) Bending radius (dynamic) Travel speed (C-track)	strand class 6  5 m @ 25 °C   horizontal  300 V  to DIN VDE 0298-4  6 A  57 Ω/km @ 20 °C  2 kV @ 60 s  -40 °C  80 °C / 90 °C @ 10000 h Operation  -25 °C  80 °C / 90 °C @ 10000 h Operation  DIN EN ISO 4892-2 A  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  Good, application-related testing  Good, application-related testing  Good, application-related testing   DIN EN 60811-404  5 x Outer diameter  10 x Outer diameter  5 Mio. @ 25 °C