

## M12 male 90° D-cod. with cable shielded

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 10m

**Ethernet CAT5** Male 90° M12, 4-pole D-coded shielded

Transmission properties with channel transmission up to 100 m

Further cable lengths on request.

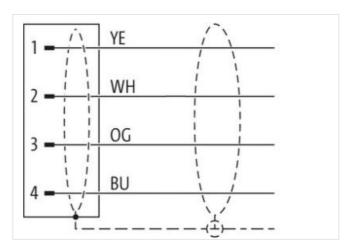
Plastic housings with good resistance against chemicals and oils.

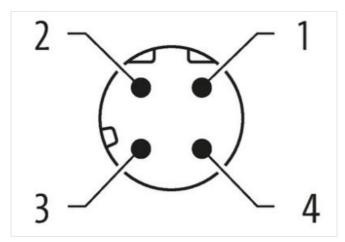
The resistance to aggressive media should be individually tested for your application. Further details on request.

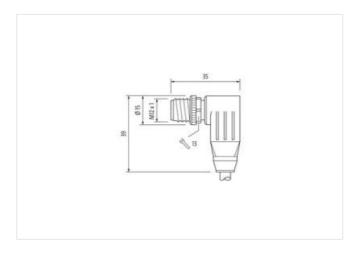
## **Link to Product**

## Illustration









Product may differ from Image











Cable length

10 m



stay connected

Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	D
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	27061801
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-8.0	27060307
ECLASS-9.0	27060307
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC002599
customs tariff number	85444290
GTIN	4048879863339
Packaging unit	1
Electrical data   Supply	
Operating voltage DC max.	60 V
Current operating per contact max.	1,5 A
Industrial communication	
Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	100 MBit/s
Industrial communication   Ethernet fur	nctionality
duplex	Full duplex
•	T dil duplox
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	
Contour for corrugated hose	without
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	



stay connected

Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
Cable identification	659
Jacket Color	
Type of Certificate	cURus
Amount stranding	1
Stranding	4 wires around Core filler twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Banding (Coverage)	Fleece, Foil
Filler	yes
wire arrangement	white, yellow, blue, orange
No. of bending cycles (C-track)	2 Mio.
Cable weigth	89,1 g/m
Material jacket	PUR
Shore hardness jacket	90 ± Shore A
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free
Outer-diameter (jacket)	7,4 mm
Tolerance outer diameter (sheath)	±5%
Material inner jacket	TPE-V
Color (inner jacket)	white
Material wire insulation	PE
Amount wires	4
Outer diameter insulation	1,4 mm
Outer diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	65 Shore D
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Amount strands (wire)	7
Diameter of single wires	22 AWG
Conductor crosssection (wire)	22 AWG
Material conductor wire	Stranded copper wire, bare
Traversing distance (C-track)	
	5 m
	5 m to DIN VDE 0298-4
Current load capacity (standard)	
Current load capacity (standard) Current load capacity min. wire	to DIN VDE 0298-4
Current load capacity (standard)	to DIN VDE 0298-4 4,8 A
Current load capacity (standard) Current load capacity min. wire Characteristic impedance	to DIN VDE 0298-4 4,8 A 100 Ω ± 15 %
Current load capacity (standard) Current load capacity min. wire Characteristic impedance Electrical resistance line constant wire	to DIN VDE 0298-4 4,8 A 100 Ω ± 15 % 55 Ω/km @ 20 °C
Current load capacity (standard) Current load capacity min. wire Characteristic impedance Electrical resistance line constant wire Loop resistance	to DIN VDE 0298-4  4,8 A  100 Ω ± 15 %  55 Ω/km @ 20 °C  5000 MΩ × km
Current load capacity (standard) Current load capacity min. wire Characteristic impedance Electrical resistance line constant wire Loop resistance Nominal voltage power AC max. Electrical capacity line constant (wire - wire)	to DIN VDE 0298-4   4,8 A $100 \Omega \pm 15 \%$ $55 \Omega/\text{km} @ 20 °C$ $5000 \text{ M}\Omega \times \text{km}$ $60 \text{ V}$
Current load capacity (standard) Current load capacity min. wire Characteristic impedance Electrical resistance line constant wire Loop resistance Nominal voltage power AC max. Electrical capacity line constant (wire - wire) (power)	to DIN VDE 0298-4  4,8 A  100 Ω ± 15 %  55 Ω/km @ 20 °C  5000 MΩ × km  60 V  50000 pF/km
Current load capacity (standard) Current load capacity min. wire Characteristic impedance Electrical resistance line constant wire Loop resistance Nominal voltage power AC max. Electrical capacity line constant (wire - wire) (power) AC withstand voltage power (wire - shield) Power frequency withstand voltage power	to DIN VDE 0298-4  4,8 A  100 Ω ± 15 %  55 Ω/km @ 20 °C  5000 MΩ × km  60 V  50000 pF/km  2 kV @ 60 s
Current load capacity (standard) Current load capacity min. wire Characteristic impedance Electrical resistance line constant wire Loop resistance Nominal voltage power AC max. Electrical capacity line constant (wire - wire) (power) AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - jacket)	to DIN VDE 0298-4  4,8 A  100 Ω ± 15 %  55 Ω/km @ 20 °C  5000 MΩ × km  60 V  50000 pF/km  2 kV @ 60 s  2 kV @ 60 s
Current load capacity (standard) Current load capacity min. wire Characteristic impedance Electrical resistance line constant wire Loop resistance Nominal voltage power AC max. Electrical capacity line constant (wire - wire) (power) AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - jacket) AC withstand voltage power (wire - wire)	to DIN VDE 0298-4  4,8 A  100 Ω ± 15 %  55 Ω/km @ 20 °C  5000 MΩ × km  60 V  50000 pF/km  2 kV @ 60 s  2 kV @ 60 s
Current load capacity (standard) Current load capacity min. wire Characteristic impedance Electrical resistance line constant wire Loop resistance Nominal voltage power AC max. Electrical capacity line constant (wire - wire) (power) AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - jacket) AC withstand voltage power (wire - wire) Min. operating temperature (static)	to DIN VDE 0298-4  4,8 A  100 Ω ± 15 %  55 Ω/km @ 20 °C  5000 MΩ × km  60 V  50000 pF/km  2 kV @ 60 s  2 kV @ 60 s  -40 °C
Current load capacity (standard) Current load capacity min. wire Characteristic impedance Electrical resistance line constant wire Loop resistance Nominal voltage power AC max. Electrical capacity line constant (wire - wire) (power) AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - jacket) AC withstand voltage power (wire - wire) Min. operating temperature (static) Max. operating temperature (fixed)	to DIN VDE 0298-4  4,8 A  100 Ω ± 15 %  55 Ω/km @ 20 °C  5000 MΩ × km  60 V  50000 pF/km  2 kV @ 60 s  2 kV @ 60 s  2 kV @ 60 s  -40 °C  80 °C
Current load capacity (standard) Current load capacity min. wire Characteristic impedance Electrical resistance line constant wire Loop resistance Nominal voltage power AC max. Electrical capacity line constant (wire - wire) (power) AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - jacket) AC withstand voltage power (wire - wire) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic)	to DIN VDE 0298-4  4,8 A  100 Ω ± 15 %  55 Ω/km @ 20 °C  5000 MΩ × km  60 V  50000 pF/km  2 kV @ 60 s  2 kV @ 60 s  -40 °C  80 °C  -30 °C
Current load capacity (standard) Current load capacity min. wire Characteristic impedance Electrical resistance line constant wire Loop resistance Nominal voltage power AC max. Electrical capacity line constant (wire - wire) (power) AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - jacket) AC withstand voltage power (wire - wire) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic)	to DIN VDE 0298-4  4,8 A  100 Ω ± 15 %  55 Ω/km @ 20 °C  5000 MΩ × km  60 V  50000 pF/km  2 kV @ 60 s  2 kV @ 60 s  2 kV @ 60 s  -40 °C  80 °C  -30 °C



Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	12 x Outer diameter