

## M12 male $0^{\circ}$ / M12 male $0^{\circ}$ D-cod. shielded

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 4.5m

Product fulfills requirements according to UN/ECE R118

**Ethernet CAT5e** 

Transmission properties with channel transmission up to 100 m

Male straight - male straight

M12 - M12, 4-pole

D-coded

shielded

Further cable lengths on request.

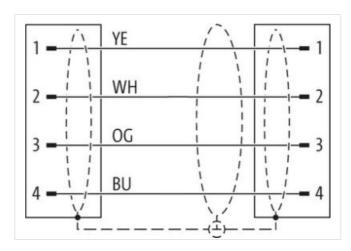
Plastic housings with good resistance against chemicals and oils.

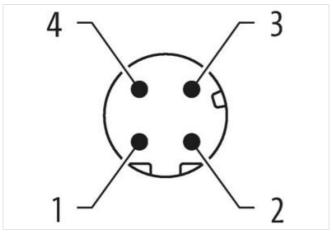
The resistance to aggressive media should be individually tested for your application. Further details on request.

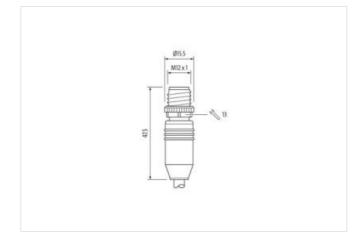
## **Link to Product**

## Illustration









Product may differ from Image



stay connected

















Cable length	4,5 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Cable outlet	straight
Coding	D
Material	PUR
No. of poles	4
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Cable outlet	straight
Coding	D
Material	PUR
No. of poles	4
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
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	4048879377294
Packaging unit	1
Electrical data   Supply	
Operating voltage DC max.	60 V
Current operating per contact max.	1,5 A
Industrial communication	
Transfer parameters	CAT5e, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	100 MBit/s

Industrial communication | Ethernet functionality

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stay connected

duplex	Full duplex
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67, IP66K
Additional condition protection degree	inserted, screwed
Pollution Degree	3
	1,5 kV
Rated surge voltage  Material group (IEC 60664-1)	VA C,1
	1
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
Coating locking	Nickeled
Locking material	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
	inserted, Sciewed, Orlanding 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	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
	DIV EN 01010-2-101 (W12)
Installation   Cable	
wire arrangement	white, yellow, blue, orange
Cable identification	796
Jacket Color	green
Type of Certificate	cURus
Amount stranding	1
Stranding	4 wires around Core filler twisted
	copper braid, tinned
Cable shielding (coverage)	copper braid, tinned 85 %
Cable shielding (coverage) Banding	copper braid, tinned 85 % Fleece, Foil
Cable shielding (coverage) Banding Filler	copper braid, tinned  85 %  Fleece, Foil  yes
Cable shielding (coverage) Banding Filler wire arrangement	copper braid, tinned  85 %  Fleece, Foil  yes  white, yellow, blue, orange
Cable shielding (coverage)  Banding  Filler  wire arrangement  Cable weigth	copper braid, tinned  85 %  Fleece, Foil  yes  white, yellow, blue, orange  69,3 g/m
Cable shielding (coverage) Banding Filler wire arrangement Cable weigth Material jacket	copper braid, tinned  85 %  Fleece, Foil  yes  white, yellow, blue, orange  69,3 g/m  PUR
Cable shielding (coverage) Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket	copper braid, tinned  85 %  Fleece, Foil  yes  white, yellow, blue, orange  69,3 g/m  PUR  89 Shore A
Cable shielding (coverage)  Banding  Filler wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)	copper braid, tinned  85 %  Fleece, Foil  yes  white, yellow, blue, orange  69,3 g/m  PUR  89 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Cable shielding (coverage)  Banding  Filler  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)	copper braid, tinned  85 %  Fleece, Foil  yes  white, yellow, blue, orange  69,3 g/m  PUR  89 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  6,7 mm
Cable shielding (coverage)  Banding  Filler wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)	copper braid, tinned  85 %  Fleece, Foil  yes  white, yellow, blue, orange  69,3 g/m  PUR  89 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  6,7 mm  ± 5 %
Cable shielding (coverage)  Banding  Filler wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material inner jacket	copper braid, tinned  85 %  Fleece, Foil  yes  white, yellow, blue, orange  69,3 g/m  PUR  89 Shore A  lead-free, cadmium-free, CFC-free, halogen-free  6,7 mm  ± 5 %  FRNC
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Cable shielding (coverage)  Banding  Filler wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material inner jacket  Color (inner jacket)  Material wire insulation  Amount wires	copper braid, tinned  85 %  Fleece, Foil  yes  white, yellow, blue, orange  69,3 g/m  PUR  89 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  6,7 mm  ± 5 %  FRNC  natur  PE
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Cable shielding (coverage)  Banding  Filler wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material inner jacket  Color (inner jacket)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation	copper braid, tinned  85 %  Fleece, Foil  yes  white, yellow, blue, orange  69,3 g/m  PUR  89 Shore A  lead-free, cadmium-free, CFC-free, halogen-free  6,7 mm  ± 5 %  FRNC  natur  PE  4  1,4 mm  ± 5 %
Cable shielding (coverage) Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material inner jacket Color (inner jacket) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation	copper braid, tinned  85 %  Fleece, Foil  yes  white, yellow, blue, orange  69,3 g/m  PUR  89 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  6,7 mm  ± 5 %  FRNC  natur  PE  4  1,4 mm  ± 5 %  65 Shore D
Cable shielding (type) Cable shielding (coverage) Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material inner jacket Color (inner jacket) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Ingredient freeness wire insulation	copper braid, tinned  85 %  Fleece, Foil  yes  white, yellow, blue, orange  69,3 g/m  PUR  89 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  6,7 mm  ± 5 %  FRNC  natur  PE  4  1,4 mm  ± 5 %

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Diameter of single wires	22 AWG
Conductor crosssection (wire)	22 AWG
Material conductor wire	Stranded copper wire, bare
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,8 A
Characteristic impedance	100 Ω ± 15 % @ 100 MHz
Electrical resistance line constant wire	55 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Electrical capacity line constant (wire - wire)	50000 pF/km
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
AC withstand voltage (wire - shield)	2 kV @ 60 s
Isolation resistance	5000 MΩ × km
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
Flame resistance	IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2
chemical resistance	Good, application-related testing
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
No. of bending cycles (C-track)	3 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	1 Mio. 25 °C
Torsion stress	± 180 °/m