

### M12 fem. recept. D-cod. rear / RJ45 male 90° up

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 0.3m

Product fulfills requirements according to UN/ECE R118

**Ethernet CAT5** 

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

Flange female straight - male 90° on top

M12 - RJ45, 4-pole

D-coded

shielded

8-pole partly used

Rear mounting

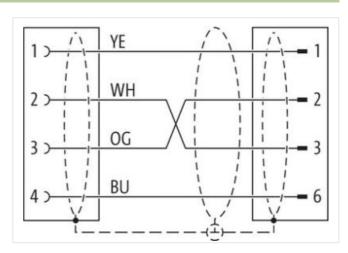
Further cable lengths on request.

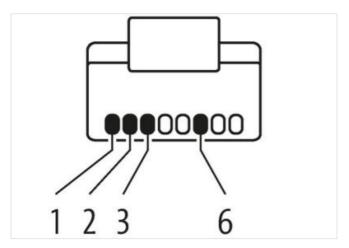
Plastic housings with good resistance against chemicals and oils.

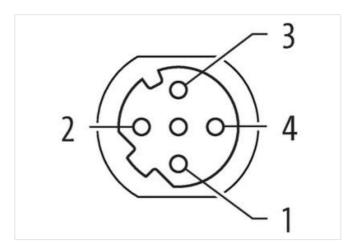
### **Link to Product**

#### Illustration



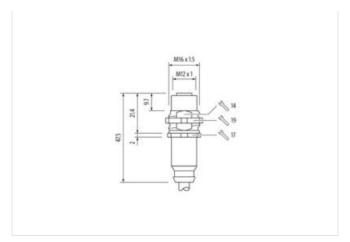


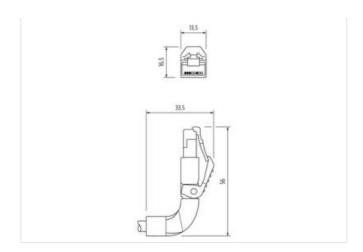






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Product may differ from Image



Cable length





0,3 m

Side 1	
Tightening torque	0,6 Nm
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	D
Material	PUR
Degree of protection (EN IEC 60529)	IP66K, IP67
Side 2	
Coating head	nickel plated
Family construction form	RJ45
Material	Brass
Degree of protection (EN IEC 60529)	IP20
Commercial data	
ECLASS-6.0	27061801
ECLASS-6.1	27279220
ECLASS-7.0	27440103
ECLASS-8.0	27440103
ECLASS-9.0	27440103
ECLASS-10.1	27440103
ECLASS-11.1	27440103
ECLASS-12.0	27440103
ETIM-5.0	EC002599
customs tariff number	85444290
GTIN	4048879613446
Packaging unit	1
Electrical data   Supply	
Operating voltage DC max.	60 V
Current operating per contact max.	1,5 A
Industrial communication	



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Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	100 MBit/s
Industrial communication   Ethernet fun	ctionality
duplex	Full duplex
Installation   Connection	
Mounting set	M16 x 1.5
Family construction form	M12
Width across flats	SW19
Device protection   Electrical	
	2.4.CD
Protection NEMA Pollution Degree	3, 4, 6P 3
Rated surge voltage	1 kV
Material group (IEC 60664-1)	I NV
	'
Mechanical data   Material data	
Locking material	PA
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	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Approvals	
UL 50E	yes
Installation   Cable	·
·	700
Cable identification  Jacket Color	796
Jackei Color	
	green
Type of Certificate	cURus
Type of Certificate  Amount stranding	cURus 1
Type of Certificate  Amount stranding  Stranding	cURus  1 4 wires around Core filler twisted
Type of Certificate  Amount stranding  Stranding  Cable shielding (type)	cURus  1  4 wires around Core filler twisted copper braid, tinned
Type of Certificate  Amount stranding  Stranding  Cable shielding (type)  Cable shielding (coverage)	cURus  1 4 wires around Core filler twisted copper braid, tinned 85 %
Type of Certificate  Amount stranding  Stranding  Cable shielding (type)	cURus  1 4 wires around Core filler twisted copper braid, tinned 85 % Fleece, Foil
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Type of Certificate  Amount stranding  Stranding  Cable shielding (type)  Cable shielding (coverage)  Banding  Filler  wire arrangement	cURus  1 4 wires around Core filler twisted copper braid, tinned 85 % Fleece, Foil
Type of Certificate  Amount stranding  Stranding  Cable shielding (type)  Cable shielding (coverage)  Banding  Filler	cURus  1 4 wires around Core filler twisted copper braid, tinned 85 % Fleece, Foil yes white, yellow, blue, orange
Type of Certificate  Amount stranding  Stranding  Cable shielding (type)  Cable shielding (coverage)  Banding  Filler  wire arrangement  Cable weigth	cURus  1 4 wires around Core filler twisted copper braid, tinned 85 % Fleece, Foil yes white, yellow, blue, orange 69,3 g/m
Type of Certificate  Amount stranding  Stranding  Cable shielding (type)  Cable shielding (coverage)  Banding  Filler  wire arrangement  Cable weigth  Material jacket	cURus  1 4 wires around Core filler twisted copper braid, tinned 85 % Fleece, Foil yes white, yellow, blue, orange 69,3 g/m PUR
Type of Certificate  Amount stranding  Stranding  Cable shielding (type)  Cable shielding (coverage)  Banding  Filler  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket	cURus  1 4 wires around Core filler twisted copper braid, tinned 85 % Fleece, Foil yes white, yellow, blue, orange 69,3 g/m PUR 89 Shore A
Type of Certificate  Amount stranding  Stranding  Cable shielding (type)  Cable shielding (coverage)  Banding  Filler  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)	cURus  1 4 wires around Core filler twisted 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
Type of Certificate  Amount stranding  Stranding  Cable shielding (type)  Cable shielding (coverage)  Banding  Filler  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)	cURus  1 4 wires around Core filler twisted  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
Type of Certificate  Amount stranding  Stranding  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)	cURus  1 4 wires around Core filler twisted  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 %
Type of Certificate  Amount stranding  Stranding  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	cURus  1 4 wires around Core filler twisted 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
Type of Certificate  Amount stranding  Stranding  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	cURus  1 4 wires around Core filler twisted 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
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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 @ 25 °C
Travel speed (C-track)	3 Mio. @ 25 °C
Travel speed (C-track)	3,3 m/s @ 25 °C
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
Loop 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 torsion cycles	1 Mio. 25 °C
Torsion stress	± 180 °/m