

**M12 fem. recept. X-cod. / RJ45 male 0° shielded**

PUR 4x2xAWG26 shielded gn UL/CSA 12m

Ethernet CAT6A

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

Flange female straight – male straight

RJ45 – M12, 8-pole

X-coded

Product fulfills requirements according to UN/ECE R118

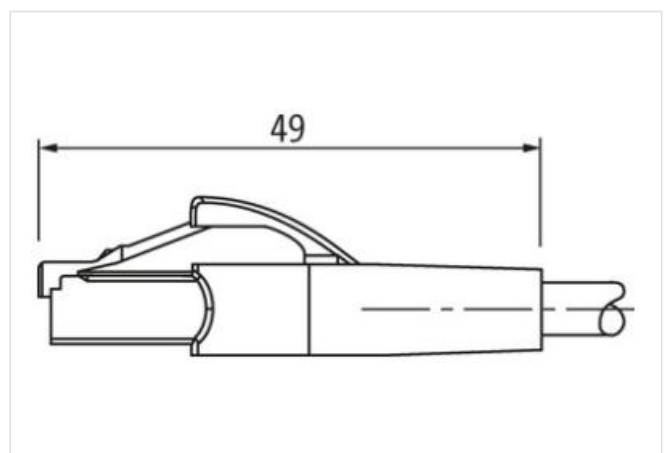
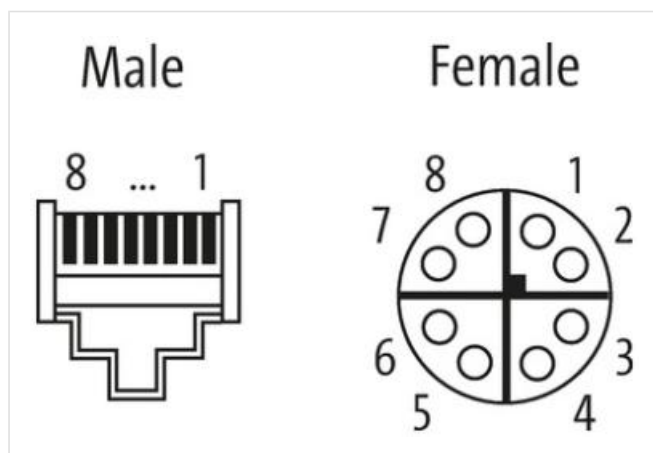
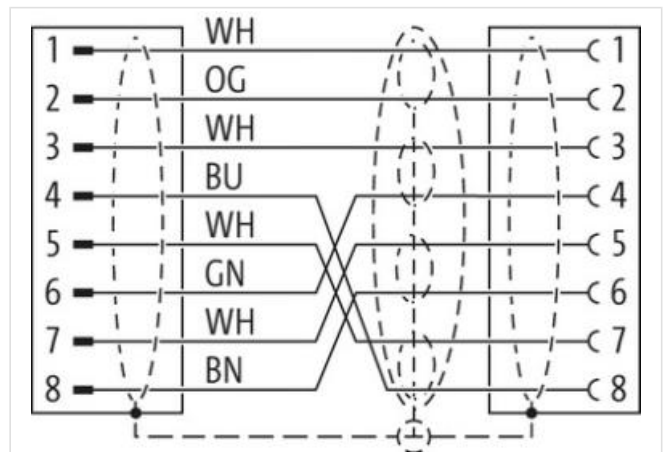
shielded

Rear mounting

Transmission properties with channel transmission up to 50 m

Further cable lengths on request.

Plastic housings with good resistance against chemicals and oils.

[Link to Product](#)**Illustration**

Product may differ from Image



Cable length 12 m

#### Side 1

Mounting method	inserted, screwed
Family construction form	RJ45
Cable outlet	straight
Material	PUR
No. of poles	8
Degree of protection (EN IEC 60529)	IP20

#### Side 2

Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating head	nickel plated
Family construction form	M12
Thread	M12 x 1
Cable outlet	straight
Coding	X
Material	Brass
No. of poles	8
Width across flats	SW19
Degree of protection (EN IEC 60529)	IP67

#### Commercial data

ECLASS-6.0	27279220
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	4048879689151
Packaging unit	1

#### Electrical data | Supply

Operating voltage DC max.	60 V
Operating voltage DC max. (UL-listed)	30 V
Current operating per contact max.	0,5 A

#### Industrial communication

Transfer parameters	CAT6, Class EA (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	10 GBit/s

#### Diagnostics

Status indication LED	no
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#### Installation | Connection

Family construction form	M12
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#### Device protection | Electrical

Protection NEMA	3, 4, 6P
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	I

#### Mechanical data

Contour for corrugated hose	without
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Mechanical data   Material data	
Coating locking	nickel plated
Locking material	Brass
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
Conformity	
Product standard	DIN EN 61076-2-109 (M12)
Approvals	
UL 50E	yes
Installation   Cable	
Cable identification	790
Jacket Color	green
Type of Certificate	cURus
Amount stranding	4
Stranding	2 wires twisted
Amount stranding (type 2)	1
Stranding (type 2)	4 Stranded joints twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	65 %
Banding	Foil
wire arrangement	(white, orange), (white, blue), (white, brown), (white, green)
Cable weighth	52,8 g/m
Material jacket	PUR
Shore hardness jacket	89 Shore A
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free
Outer-diameter (jacket)	6,4 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	PE
Amount wires	8
Outer diameter insulation	1,05 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	26 AWG
Conductor crossection (wire)	26 AWG
Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	2 A
Electrical resistance line constant wire	140 Ω/km @ 20 °C
Loop resistance	5000 MΩ × km
Nominal voltage power AC max.	125 V
Electrical capacity line constant (wire - wire) (power)	44000 pF/km
AC withstand voltage power (wire - shield)	2 kV @ 60 s
Power frequency withstand voltage power (wire - jacket)	2 kV @ 60 s
AC withstand voltage power (wire - wire)	2 kV @ 60 s

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 § 1100 FT2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	8 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter