

M12 male 0° X-cod. / RJ45 male 0° shielded

PUR 4x2xAWG24 shielded gn UL+drag ch. 1m

Ethernet CAT6A

Male straight – male straight

M12 – RJ45, 8-pole

X-coded

shielded

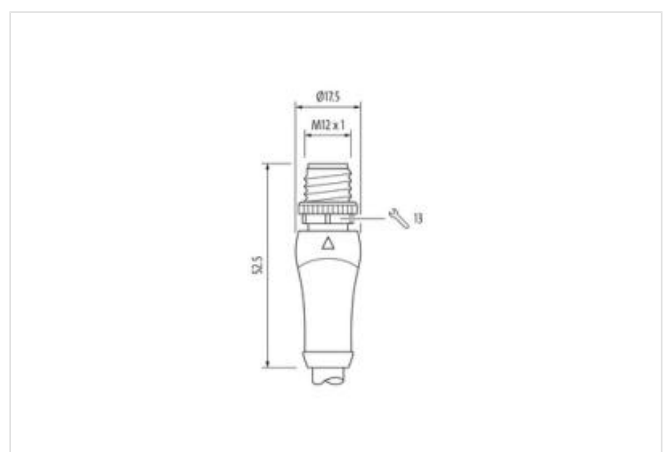
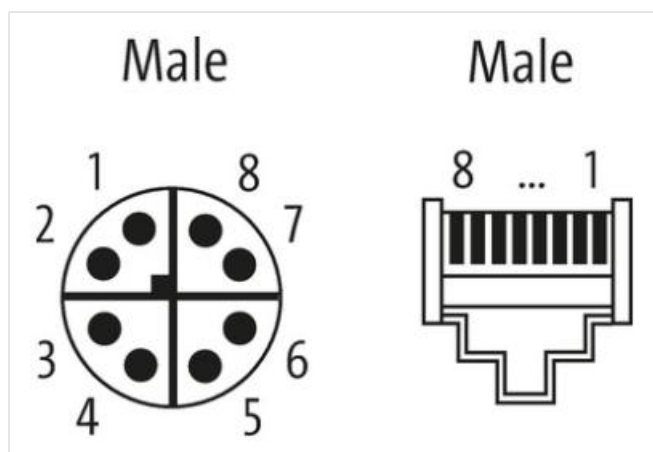
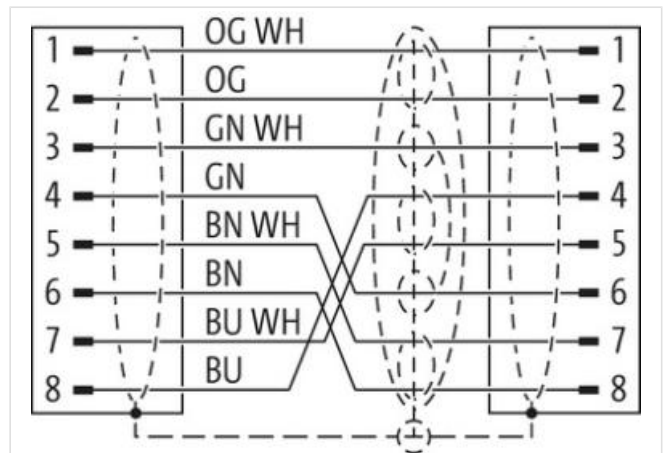
with cable sleeves

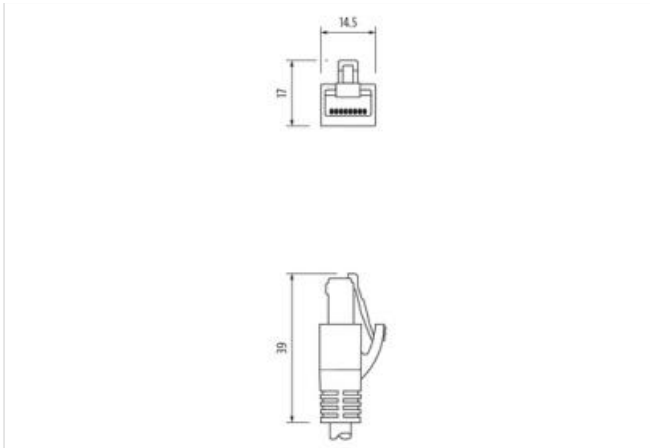
Transmission properties with channel transmission up to 45 m

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	1 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	screwed, pluggable
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	12 mm
Cable outlet	straight
Coding	X
Material contact	Copper alloy
No. of poles	8
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP66K, IP67
Side 2	
Family construction form	RJ45
Cable outlet	straight
No. of poles	8
Degree of protection (EN IEC 60529)	IP20
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	4048879884891
Packaging unit	1
Electrical data Supply	
Operating voltage DC max.	60 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
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Diagnostics

Status indication LED	no
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Device protection | Electrical

Pollution Degree	3
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Rated surge voltage	1 kV
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Material group (IEC 60664-1)	I
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Mechanical data | Material data

Locking screw coating	Nickeled
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Locking material	Zinc die-casting
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Mechanical data | Mounting data

Mounting method	inserted, screwed, Shaking protection
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Environmental characteristics | Climatic

Operating temperature min.	-25 °C
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Operating temperature max.	85 °C
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Additional condition temperature range	depending on cable quality
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Important installation notes

Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
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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.
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Conformity

Product standard	DIN EN 61076-2-109 (M12)
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Installation | Cable

wire arrangement	(blue-white, blue), (brown-white, brown), (green-white, green), (orange-white, orange)
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Cable identification	826
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Jacket Color	green
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Type of Certificate	cURus
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Amount stranding	4
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Stranding	2 wires twisted
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Stranding (type 2)	4 Stranded joints around Insulation element twisted
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Cable shielding (type)	copper braid, tinned
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Cable shielding (coverage)	85 %
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Banding	Fleece, Foil
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Filler	Insulation element
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wire arrangement	(blue-white, blue), (brown-white, brown), (green-white, green), (orange-white, orange)
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Cable weight	116,6 g/m
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Material jacket	PUR
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Shore hardness jacket	90 Shore A
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Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
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Outer-diameter (jacket)	8,9 mm
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Tolerance outer diameter (sheath)	± 5 %
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Material inner jacket	TPE-V
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Color (inner jacket)	natur
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Material wire insulation	PP
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Amount wires	8
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Outer diameter insulation	1,05 mm
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Outer diameter tolerance core insulation	± 5 %
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Shore hardness wire insulation	61 Shore D
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Amount strands (wire)	7
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Diameter of single wires	24 AWG
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Conductor crosssection (wire)	24 AWG
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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	3 A
Characteristic impedance	100 $\Omega \pm 15\%$ MHz
Electrical resistance line constant wire	87,6 Ω /km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Electrical capacity line constant (wire - wire)	52000 pF/km
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
AC withstand voltage (wire - shield)	2 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-20 °C
Operating temperature max. (dynamic)	70 °C
Flame resistance	UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2
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)	15 x Outer diameter
No. of bending cycles (C-track)	2 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3 m/s @ 25 °C
No. of torsion cycles	1 Mio.
Torsion stress	± 180 °/m