

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

PUR 4x2xAWG24 shielded gn UL+drag ch. 30m

Ethernet CAT6A

Male straight – male straight

M12 – RJ45, 8-pole

X-coded

shielded

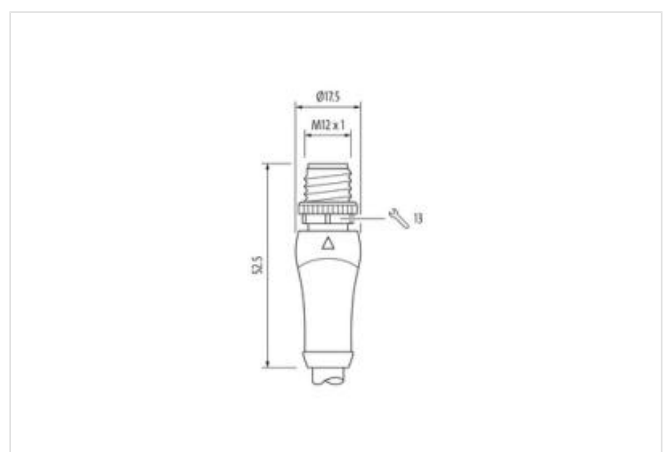
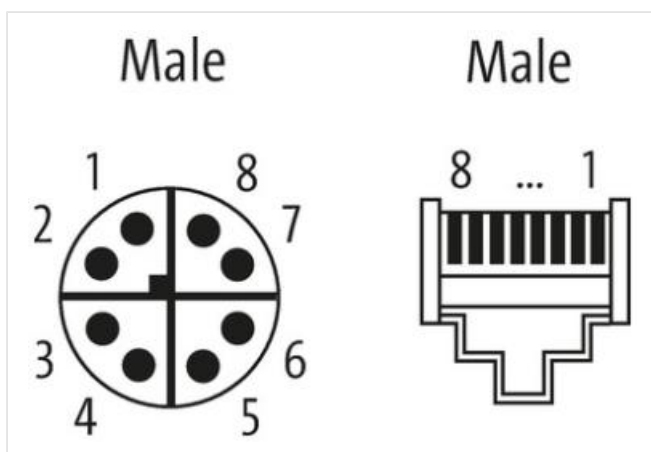
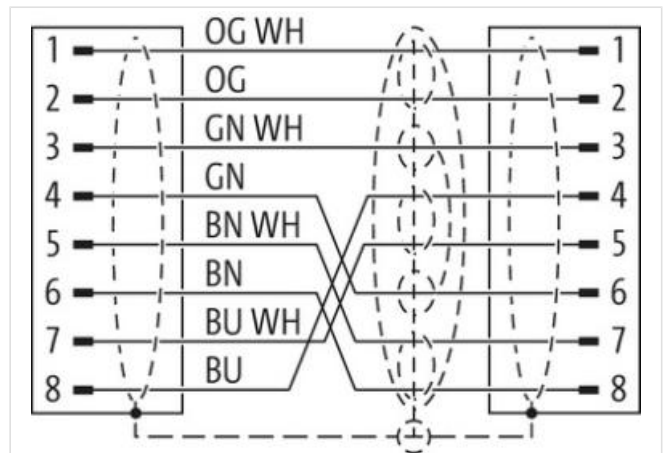
with cable sleeves

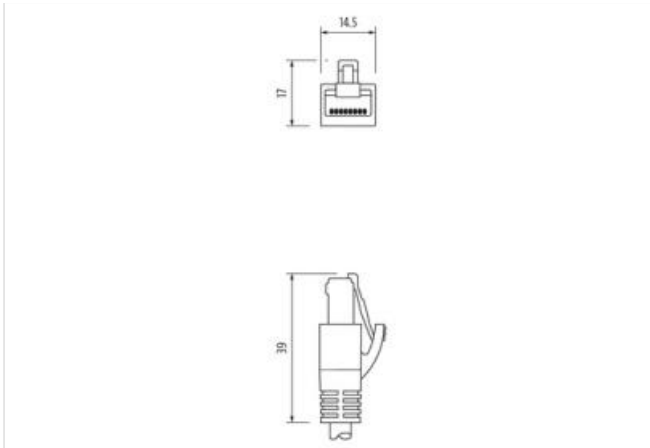
Transmission properties with channel transmission up to 45 m

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	30 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	4065909000427
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

Diagnostics

Status indication LED no

Device protection | Electrical

Pollution Degree 3

Rated surge voltage 1 kV

Material group (IEC 60664-1) I

Mechanical data | Material data

Locking screw coating Nicked

Locking material Zinc die-casting

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 **Attention:** 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 61076-2-109 (M12)

Installation | Cable

wire arrangement (blue-white, blue), (brown-white, brown), (green-white, green), (orange-white, orange)

Cable identification 826

Jacket Color green

Type of Certificate cURus

Amount stranding 4

Stranding 2 wires twisted

Stranding (type 2) 4 Stranded joints around Insulation element twisted

Cable shielding (type) copper braid, tinned

Cable shielding (coverage) 85 %

Banding Fleece, Foil

Filler Insulation element

wire arrangement (blue-white, blue), (brown-white, brown), (green-white, green), (orange-white, orange)

Cable weight 116,6 g/m

Material jacket PUR

Shore hardness jacket 90 Shore A

Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free

Outer-diameter (jacket) 8,9 mm

Tolerance outer diameter (sheath) ± 5 %

Material inner jacket TPE-V

Color (inner jacket) natur

Material wire insulation PP

Amount wires 8

Outer diameter insulation 1,05 mm

Outer diameter tolerance core insulation ± 5 %

Shore hardness wire insulation 61 Shore D

Amount strands (wire) 7

Diameter of single wires 24 AWG

Conductor crosssection (wire) 24 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	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