

**M12 male 0° D-cod. / M8 male 0° A-cod. shielded**

PUR 1x4xAWG24 shielded gn UL/CSA+drag ch. 3m

EtherCAT

Male straight – male straight

M12 – M8, 4-pole

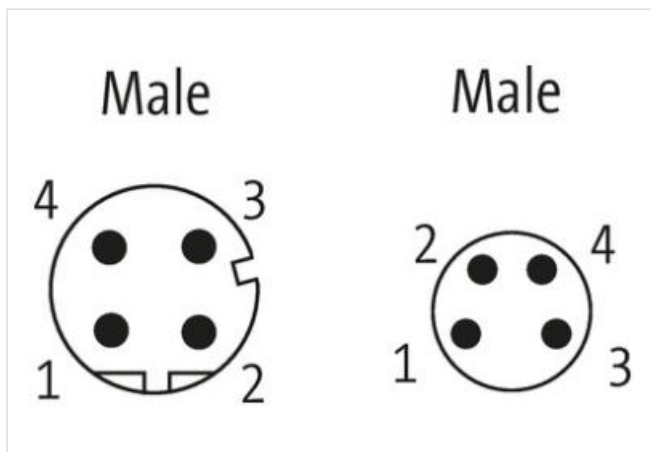
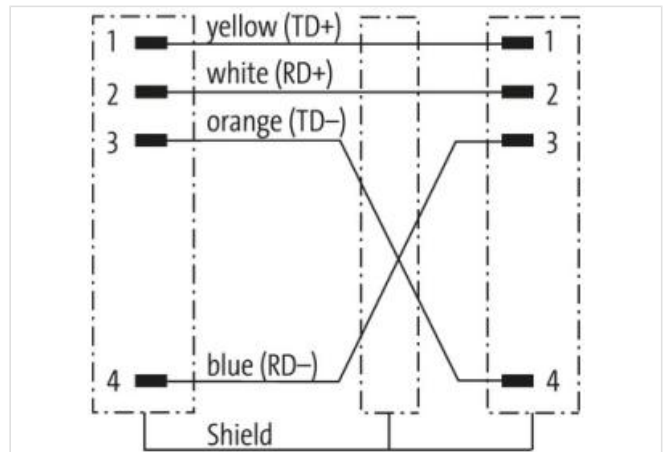
D-coded

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



Cable length 3 m

**Side 1**

Tightening torque	0,6 Nm
Family construction form	M12
Thread	M12 x 1
Coding	D
Material	PUR
Width across flats	SW13

**Side 2**

Tightening torque	0,4 Nm
Family construction form	M8
Thread	M8 x 1
suitable for corrugated tube (internal Ø)	8,5 mm
Coding	A
Material	PUR
Width across flats	SW9

**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	EC001855
customs tariff number	85444290
GTIN	4065909012758
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. 4 A

#### Industrial communication

Transfer parameters CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)  
Data transmission rate max. 100 MBit/s

#### Industrial communication | Ethernet functionality

duplex Full duplex

#### Device protection | Electrical

Degree of protection (EN IEC 60529) IP67  
Additional condition protection degree inserted, screwed  
Pollution Degree 3  
Rated surge voltage 1,5 kV  
Material group (IEC 60664-1) I

#### Mechanical data | Material data

Coating locking Nickeled  
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 61076-2-101 (M12), DIN EN 61076-2-114 (M8)

#### Installation | Cable

wire arrangement white, yellow, blue, orange  
Cable identification 585  
Jacket Color green  
Type of Certificate cURus  
Amount stranding 1  
Stranding 4 wires around Core filler star-shaped twisted  
Cable shielding (type) copper braid, tinned  
Cable shielding (coverage) 85 %  
Banding Foil  
Filler yes  
wire arrangement white, yellow, blue, orange  
Cable weight 68,2 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) 6 mm  
Tolerance outer diameter (sheath) ± 5 %  
Material inner jacket TPE-V  
Color (inner jacket) white  
Material wire insulation PE  
Amount wires 4  
Outer diameter insulation 1,2 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	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	2,4 A
Characteristic impedance	100 $\Omega \pm 15\%$ @ 100 MHz
Electrical resistance line constant wire	85 $\Omega$ /km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Electrical capacity line constant (wire - wire)	50 pF/km
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
AC withstand voltage (wire - shield)	2 kV @ 60 s
Isolation resistance	5000 M $\Omega$ x 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	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)	5 x Outer diameter
Bending radius (dynamic)	12 x Outer diameter
No. of bending cycles (C-track)	3,5 Mio.
Traversing distance (C-track)	5 m
Travel speed (C-track)	3,3 m/s