

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

PUR 4x2xAWG26 shielded gn UL/CSA 2m

Ethernet CAT6A

Male straight – male straight

M12 – RJ45, 8-pole

X-coded

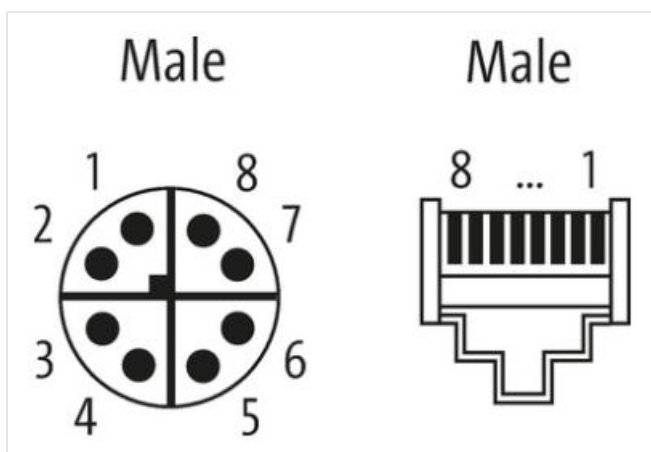
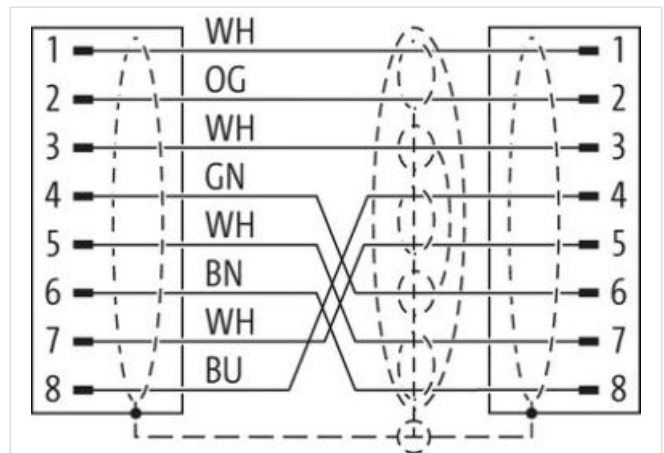
Product fulfills requirements according to UN/ECE R118 shielded

Transmission properties with channel transmission up to 50 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 | 2 m |
|--------------|-----|

**Side 1**

|                                     |                    |
|-------------------------------------|--------------------|
| Tightening torque                   | 0,6 Nm             |
| Mounting method                     | screwed, pluggable |
| Family construction form            | M12                |
| Thread                              | M12 x 1            |
| Cable outlet                        | straight           |
| Coding                              | X                  |
| Material contact                    | Copper alloy       |
| Material                            | PUR                |
| No. of poles                        | 8                  |
| Width across flats                  | SW13               |
| Degree of protection (EN IEC 60529) | IP66K, IP67        |

**Side 2**

|                                     |           |
|-------------------------------------|-----------|
| Mounting method                     | pluggable |
| Family construction form            | RJ45      |
| Cable outlet                        | straight  |
| Material                            | PUR       |
| 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                  | 4048879642941 |

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 |
|-----------------------|----|

**Device protection | Electrical**

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

**Mechanical data**

|                             |         |
|-----------------------------|---------|
| Contour for corrugated hose | without |
|-----------------------------|---------|

**Mechanical data | Material data**

|                       |                  |
|-----------------------|------------------|
| Locking screw coating | 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 | <b>Attention:</b> 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                  | (white, orange), (white, blue), (white, brown), (white, green) |
| 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 weight                      | 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 crosssection (wire)                     | 26 AWG                                               |
| Material conductor wire                           | Stranded copper wire, bare                           |
| Nominal voltage AC max.                           | 125 V                                                |
| 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                                     |
| AC withstand voltage (wire - wire)                | 2 kV @ 60 s                                          |
| Electrical capacity line constant (wire - wire)   | 44000 pF/km                                          |
| Power frequency withstand voltage (wire - jacket) | 2 kV @ 60 s                                          |
| AC withstand voltage (wire - shield)              | 2 kV @ 60 s                                          |
| Isolation 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 § 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                                  |