

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

PUR 4x2xAWG26 shielded gn UL/CSA 1.5m

Art.No.: 7000-51551-7900150

Weight: 0.098

Country of origin: DE

Model designation: MSXBFH-RA-08D790_1.5-ZS

Advantages of our connectors:

Our connectors are versatile and specially optimised for industrial environments. All connectors are 100% tested during the manufacturing process to ensure the highest quality and reliability.

The contacts are gold-plated, which ensures optimum conductivity. Thanks to the high degree of protection, the connectors are ideal for demanding industrial environments. They are also vibration-resistant - this is ensured by the union nut with vibration protection.

Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available [on request](#)

If you are missing technical information? Please feel free to use our [dictionary](#) to find more technical details.

Product details:

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.

Ethernet CAT6A

Flange female straight – male straight

RJ45 – M12, 8-pole

Product fulfills requirements according to UN/ECE R118

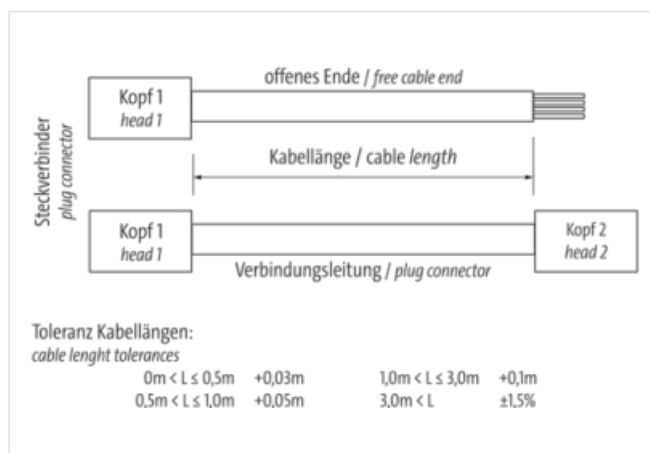
X-coded

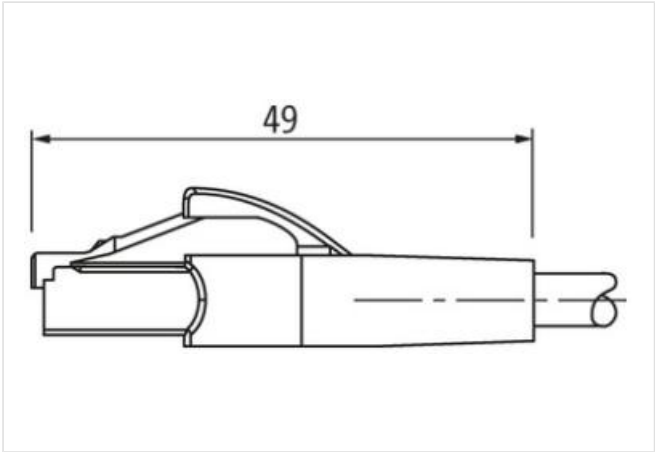
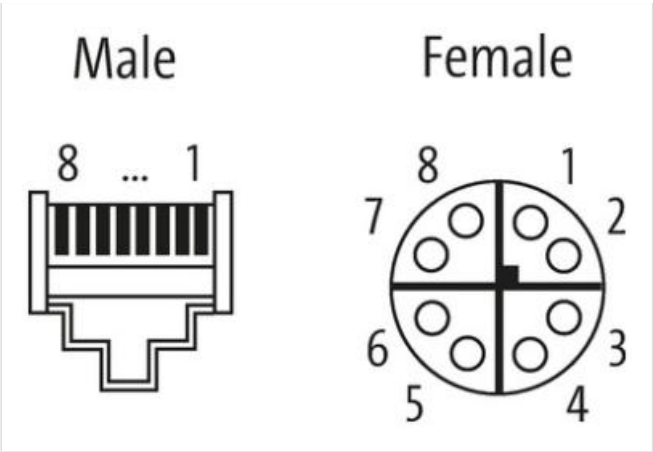
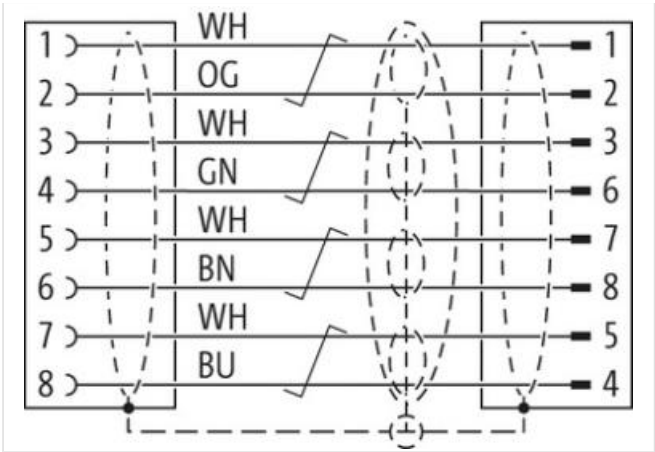
shielded

Rear mounting

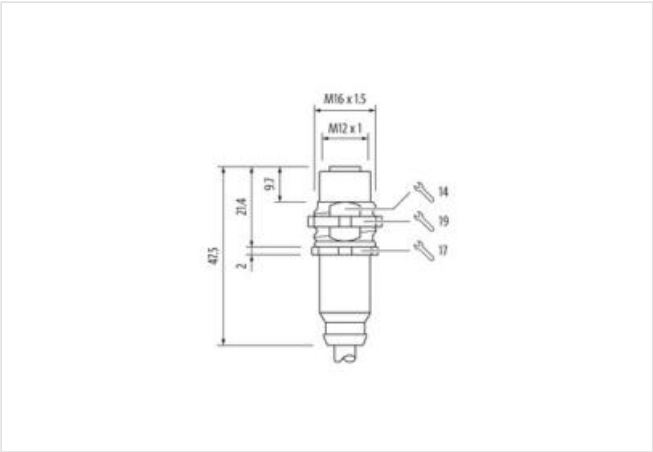
Transmission properties with channel transmission up to 50 m

Further cable lengths on request.

Link to Product
Illustration




Product may differ from Image



Cable length 1,5 m

| Side 1 | |
|-------------------------------------|-------------------|
| Mounting method | inserted, screwed |
| Family construction form | M12 |
| Gender | female |
| Cable outlet | straight |
| Coding | X |
| Material | PUR |
| No. of poles | 8 |
| Degree of protection (EN IEC 60529) | IP67 |
| Side 2 | |
| Mounting method | inserted |
| Family construction form | RJ45 |
| Gender | male |
| Cable outlet | straight |
| Material | Brass |
| No. of poles | 8 |

Degree of protection (EN IEC 60529) IP20

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 |
| customs tariff number | 85444290 |
| EAN | 4048879648493 |
| EAN | 4048879648493 |
| Packaging unit | 1 |
| Packaging unit | 1 |

Electrical data | Supply

| | |
|------------------------------------|-------|
| Operating voltage AC max. | 50 V |
| 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

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

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 |

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) |
|------------------|--------------------------|

Approvals

| | |
|--------|-----|
| UL 50E | yes |
|--------|-----|

| 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 % |
| Pair shielding (type) | Metal foil |
| 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 |