

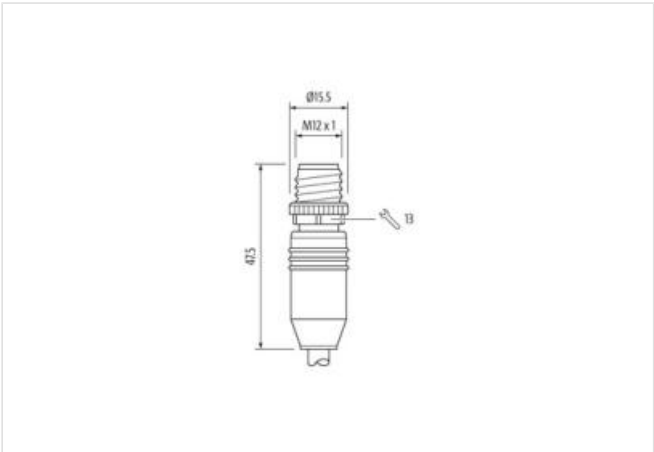
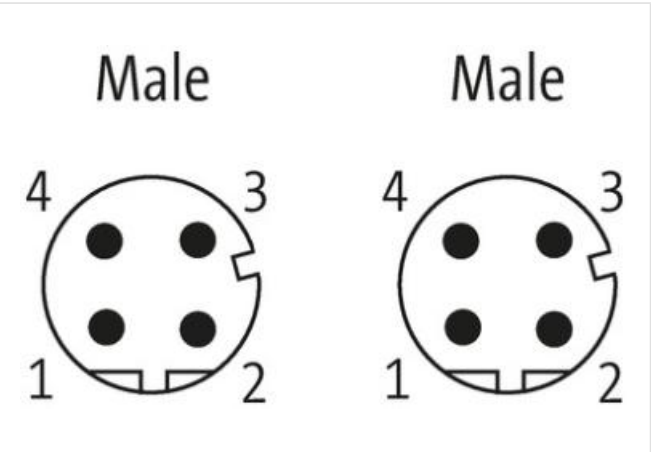
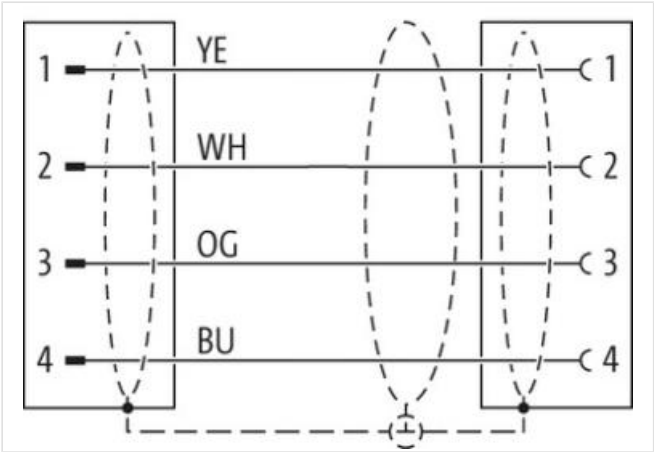
M12 male 0° / M12 male 0° D-cod. shielded

RADOX EM 104 4xAWG22 shielded bk 7.5m

Ethernet CAT5  
Transmission properties with channel transmission up to 100 m  
Male straight – male straight  
M12 – M12, 4-pole  
D-coded  
shielded  
Transmission properties with channel transmission up to 100 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             | 7,5 m             |
| Side 1                   |                   |
| Tightening torque        | 0,6 Nm            |
| Mounting method          | inserted, screwed |
| Family construction form | M12               |

|  |   |
|--|---|
| Thread   | M12 x 1   |
| Coding   | D   |
| Width across flats                                       | SW13  |
| <b>Side 2</b>  |   |
| Tightening torque  | 0,6 Nm  |
| Mounting method  | inserted, screwed   |
| Family construction form                                 | M12   |
| Thread   | M12 x 1   |
| Coding   | D   |
| <b>Commercial data</b>                                   |   |
| ECLASS-6.0   | 27061801  |
| ECLASS-7.0   | 27061801  |
| ECLASS-8.0   | 27061801  |
| ECLASS-9.0   | 27061801  |
| ECLASS-10.1  | 27060307  |
| ECLASS-11.1  | 27060307  |
| ECLASS-12.0  | 27060307  |
| ETIM-5.0   | EC002599  |
| customs tariff number                                    | 85444290  |
| GTIN   | 4048879696869   |
| Packaging unit   | 1   |
| <b>Electrical data   Supply</b>                          |   |
| Operating voltage DC max.                                | 60 V  |
| Current operating per contact max.                       | 4 A   |
| <b>Industrial communication</b>                          |   |
| Transfer parameters                                      | CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)  |
| Data transmission rate max.                              | 100 MBit/s  |
| <b>Industrial communication   Ethernet functionality</b> |   |
| duplex   | Full duplex   |
| <b>Device protection   Electrical</b>                    |   |
| Pollution Degree   | 3   |
| Rated surge voltage                                      | 1,5 kV  |
| Material group (IEC 60664-1)                             | I   |
| <b>Mechanical data</b>                                   |   |
| Contour for corrugated hose                              | without   |
| <b>Mechanical data   Material data</b>                   |   |
| Coating locking  | Nickeled  |
| Material housing   | PUR   |
| Locking material   | Zinc die-casting  |
| <b>Mechanical data   Mounting data</b>                   |   |
| Mounting method  | inserted, screwed, Shaking protection   |
| <b>Environmental characteristics   Climatic</b>          |   |
| Operating temperature min.                               | -25 °C  |
| Operating temperature max.                               | 85 °C   |
| Additional condition temperature range                   | depending on cable quality  |
| <b>Important installation notes</b>                      |   |
| 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 61076-2-101 (M12)

### Installation | Cable

|   |  |
|---|--|
| Cable identification                              | R64  |
| Jacket Color                                      | black  |
| Amount stranding                                  | 1  |
| Stranding   | 4 wires twisted                                      |
| Cable shielding (type)                            | copper braid, tinned                                 |
| Banding   | Foil, Plastic strip                                  |
| wire arrangement                                  | white, yellow, blue, orange                          |
| Cable weight                                      | 77 g/m   |
| Material jacket                                   | Radox EM 104   |
| Freedom from ingredients (jacket)                 | lead-free, CFC-free, halogen-free                    |
| Outer-diameter (jacket)                           | 6,6 mm   |
| Tolerance outer diameter (sheath)                 | ± 5 %  |
| Material wire insulation                          | Radox Foam   |
| Amount wires                                      | 4  |
| Outer diameter insulation                         | 1,55 mm  |
| Outer diameter tolerance core insulation          | ± 5 %  |
| Ingredient freeness wire insulation               | lead-free, CFC-free, halogen-free                    |
| Amount strands (wire)                             | 7  |
| Diameter of single wires                          | 22 AWG   |
| Conductor crosssection (wire)                     | 22 AWG   |
| Material conductor wire                           | Copper strand, silver plated                         |
| Nominal voltage AC max.                           | 300 V  |
| Current load capacity (standard)                  | to DIN VDE 0298-4                                    |
| Current load capacity min. wire                   | 4,8 A  |
| Characteristic impedance                          | 100 Ω ± 5 % @ 100 MHz                                |
| Electrical resistance line constant wire          | 54,4 Ω/km @ 20 °C                                    |
| AC withstand voltage (wire - wire)                | 2 kV @ 300 s   |
| Electrical capacity line constant (wire - wire)   | 65000 pF/km  |
| Electrical capacity line constant (wire - shield) | 100000 pF/km   |
| Power frequency withstand voltage (wire - jacket) | 2 kV @ 300 s   |
| AC withstand voltage (wire - shield)              | 2 kV @ 300 s   |
| Min. operating temperature (static)               | -50 °C   |
| Max. operating temperature (fixed)                | 90 °C  |
| Operating temperature min. (dynamic)              | -40 °C   |
| Operating temperature max. (dynamic)              | 90 °C  |
| UV resistance                                     | DIN EN ISO 4892-2 A                                  |
| Flame resistance                                  | UL 1581 § 1100 FT2   IEC 60332-2-2   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)                            | 6 x Outer diameter                                   |
| Bending radius (dynamic)                          | 10 x Outer diameter                                  |