

# **M12 male 0° D-cod. with cable shielded**

RADOX EM 104 4xAWG22 shielded bk 10m

Ethernet CAT5

Male straight

M12, 4-pole

D-coded

shielded

with cable sleeves

Transmission properties with channel transmission up to 100 m

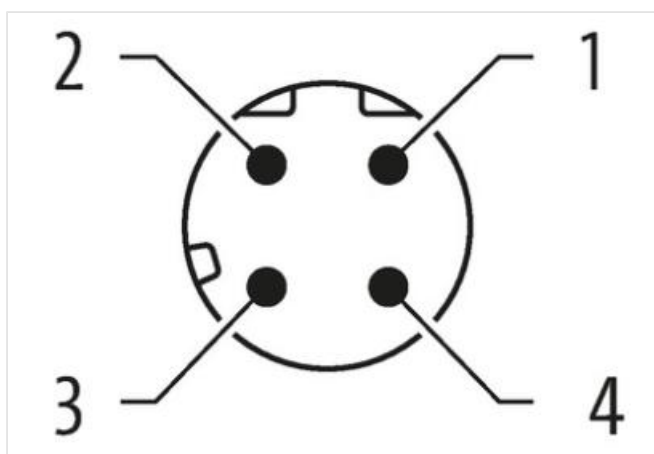
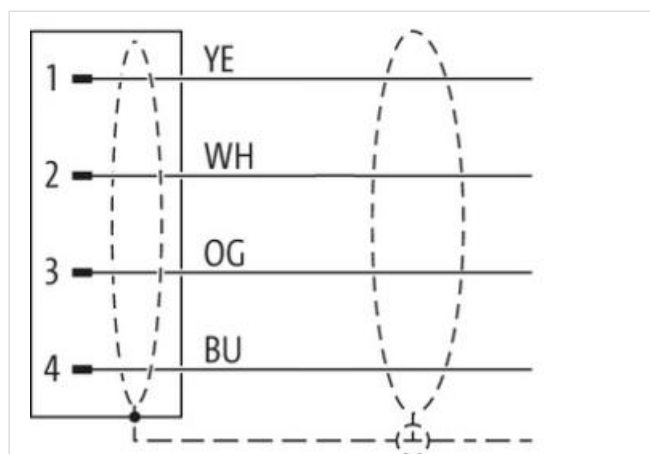
Further cable lengths on request.

Plastic housings with good resistance against chemicals and oils.

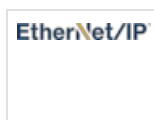
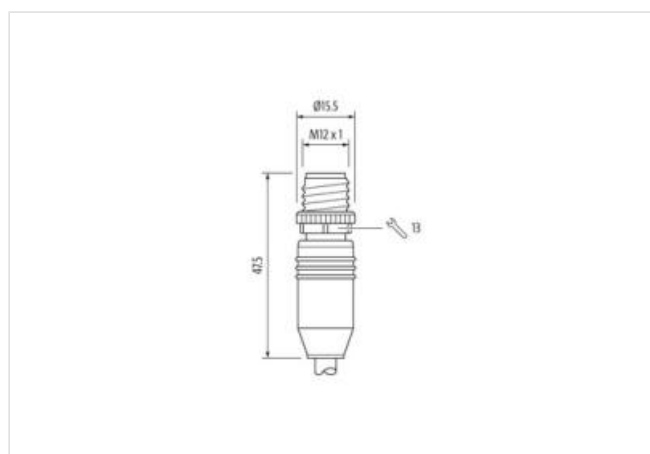
The resistance to aggressive media should be individually tested for your application. Further details on request.

## [Link til produkt](#)

### Illustrasjon



Produktet kan avvike fra bildet



|              |      |
|--------------|------|
| Cable length | 10 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 |
|--------------------|------|

**Side 2**

|                           |       |
|---------------------------|-------|
| Stripping length (jacket) | 20 mm |
|---------------------------|-------|

**Handelsinformasjon**

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

|      |               |
|------|---------------|
| GTIN | 4048879698511 |
|------|---------------|

|                |   |
|----------------|---|
| Pakkestørrelse | 1 |
|----------------|---|

|                  |          |
|------------------|----------|
| Tolltariffnummer | 85444290 |
|------------------|----------|

**Electrical data | Supply**

|                           |      |
|---------------------------|------|
| Operating voltage DC max. | 60 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 |
|--------|-------------|

**Installation | Connection**

|                           |       |
|---------------------------|-------|
| Stripping length (jacket) | 20 mm |
|---------------------------|-------|

**Device protection | Electrical**

|                  |   |
|------------------|---|
| Pollution Degree | 3 |
|------------------|---|

|                     |        |
|---------------------|--------|
| Rated surge voltage | 1,5 kV |
|---------------------|--------|

|                              |   |
|------------------------------|---|
| Material group (IEC 60664-1) | I |
|------------------------------|---|

**Mechanical data**

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

**Mechanical data | Material data**

|                 |          |
|-----------------|----------|
| Coating locking | Nickeled |
|-----------------|----------|

|                  |     |
|------------------|-----|
| Material housing | PUR |
|------------------|-----|

|                  |                  |
|------------------|------------------|
| 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 61076-2-101 (M12)                             |
| Installation   Cable                              |                                                      |
| wire arrangement                                  | white, yellow, blue, orange                          |
| 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                                  |