

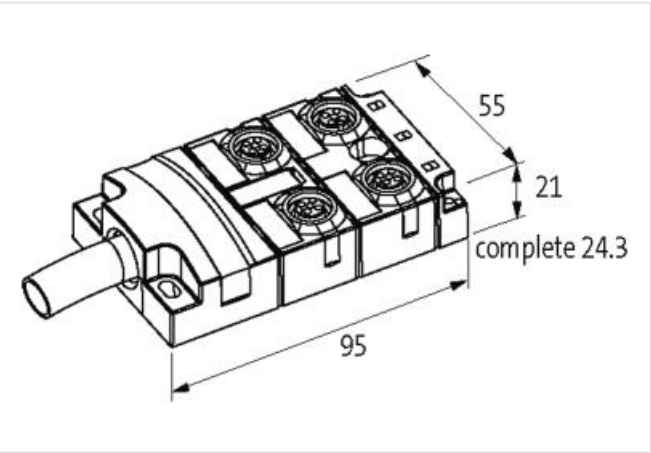
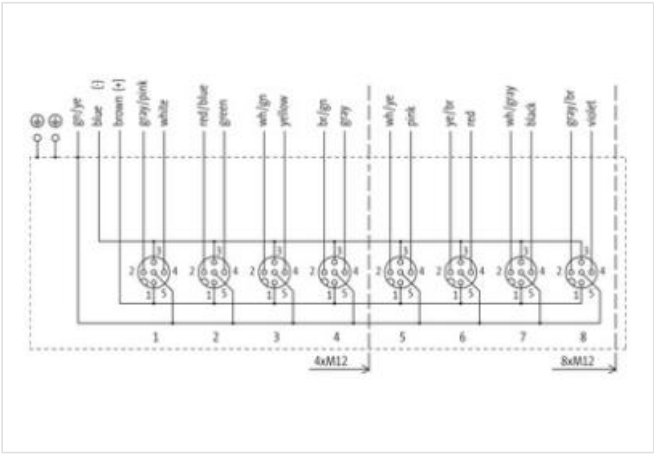
MVP-METALL, 4XM12, 5POLE, PRE-WIRED CABLE

15.0m PUR 8x0,5+3x1,0, UL/CSA

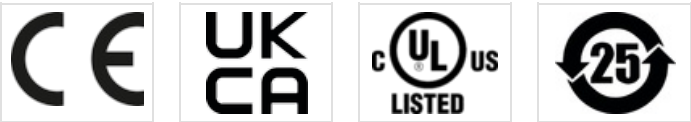
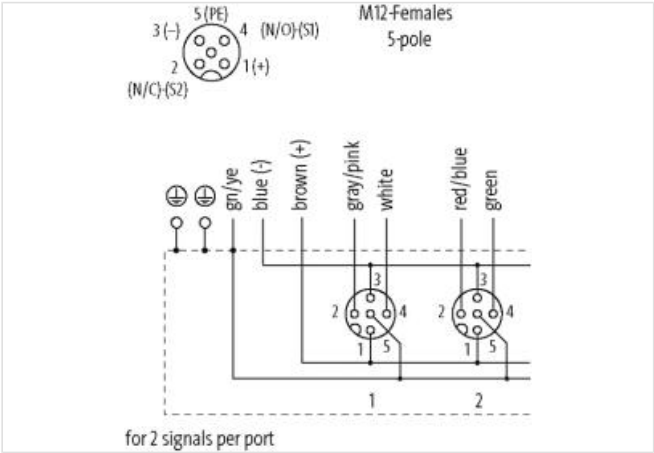
4-way, 5-pole  
Without LED for analog signals up to 48 V AC/DC  
15.0 m  
Further cable lengths on request.  
Replaces identical product (Art.No. 27479)

Link to Product

Illustration



Product may differ from Image



| Commercial data |          |
|-----------------|----------|
| ECLASS-6.0      | 27279219 |
| ECLASS-6.1      | 27279219 |
| ECLASS-7.0      | 27279219 |
| ECLASS-8.0      | 27279219 |
| ECLASS-9.0      | 27440108 |

|                       |               |
|-----------------------|---------------|
| ECLASS-10.1           | 27440108      |
| ECLASS-11.1           | 27440108      |
| ECLASS-12.0           | 27440108      |
| ETIM-5.0              | EC002585      |
| customs tariff number | 85444290      |
| GTIN                  | 4048879350945 |
| Packaging unit        | 1             |

**Electrical data | Supply**

|                                    |      |
|------------------------------------|------|
| Operating voltage AC max.          | 48 V |
| Operating voltage DC max.          | 48 V |
| Current operating per contact max. | 4 A  |

**Installation | Connection**

|              |         |
|--------------|---------|
| Mounting set | M12 x 1 |
|--------------|---------|

**Device protection | Electrical**

|                                     |                  |
|-------------------------------------|------------------|
| Degree of protection (EN IEC 60529) | IP65, IP67, IP68 |
|-------------------------------------|------------------|

**Mechanical data | Material data**

|                  |                  |
|------------------|------------------|
| Coating housing  | Nickel           |
| Material housing | Zinc die-casting |

**Mechanical data | Mounting data**

|                 |                |
|-----------------|----------------|
| Mounting method | Schraubgewinde |
|-----------------|----------------|

**Environmental characteristics | Climatic**

|                                        |                            |
|----------------------------------------|----------------------------|
| Operating temperature min.             | -25 °C                     |
| Operating temperature max.             | 90 °C                      |
| Additional condition temperature range | depending on cable quality |

**Installation | Cable**

|                                          |                                                                                                        |
|------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Cable identification                     | 448                                                                                                    |
| Jacket Color                             | gray                                                                                                   |
| Type of Certificate                      | cURus                                                                                                  |
| Amount stranding                         | 1                                                                                                      |
| Stranding                                | 2 wires with Filler twisted                                                                            |
| Stranding factor min.                    | 51 mm                                                                                                  |
| Stranding factor max.                    | 51 mm                                                                                                  |
| Amount stranding (type 2)                | 1                                                                                                      |
| Stranding (type 2)                       | 9 wires around Stranding combination counter-rotating twisted                                          |
| Stranding factor min. (type 2)           | 100 mm                                                                                                 |
| Stranding factor max. (type 2)           | 100 mm                                                                                                 |
| Banding                                  | Fleece                                                                                                 |
| Filler                                   | yes                                                                                                    |
| wire arrangement                         | white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) |
| Cable weight                             | 146,3 g/m                                                                                              |
| Material jacket                          | PUR                                                                                                    |
| Shore hardness jacket                    | 94 ± 5 Shore A                                                                                         |
| Freedom from ingredients (jacket)        | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free                              |
| Outer-diameter (jacket)                  | 9 mm                                                                                                   |
| Tolerance outer diameter (sheath)        | ± 5 %                                                                                                  |
| Material wire insulation                 | TPE-E                                                                                                  |
| Amount wires                             | 8                                                                                                      |
| Outer diameter insulation                | 1,6 mm                                                                                                 |
| Outer diameter tolerance core insulation | ± 5 %                                                                                                  |
| Shore hardness wire insulation           | 55 ± 3 Shore D                                                                                         |
| Ingredient freeness wire insulation      | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free                              |

|                                                   |                                                                           |
|---------------------------------------------------|---------------------------------------------------------------------------|
| Amount strands (wire)                             | 64                                                                        |
| Diameter of single wires                          | 0,1 mm                                                                    |
| Conductor crosssection (wire)                     | 0,5 mm <sup>2</sup>                                                       |
| Material conductor wire                           | Stranded copper wire, bare                                                |
| Conductor type (wire)                             | strand class 6                                                            |
| Material wire insulation (Data)                   | TPE-E                                                                     |
| Outer diameter wire insulation (Data)             | 2,1 mm                                                                    |
| Tolerance outer diameter wire insulation (data)   | ± 5 %                                                                     |
| Shore hardness wire insulation (Data)             | 55 ± 3 Shore D                                                            |
| Ingredient freeness wire insulation (Data)        | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free |
| Amount wires (Data)                               | 3                                                                         |
| Amount strands wire (Data)                        | 128                                                                       |
| Diameter of single wires (Data)                   | 0,1 mm                                                                    |
| Conductor crosssection wire (Data)                | 1 mm <sup>2</sup>                                                         |
| Material conductor wire (Data)                    | Stranded copper wire, bare                                                |
| Wire conductor type (Data)                        | strand class 6                                                            |
| Max. rated voltage (conductor - conductor)        | 500 V                                                                     |
| Max. rated voltage (conductor - ground)           | 300 V                                                                     |
| Current load capacity (standard)                  | to DIN VDE 0298-4                                                         |
| Current load capacity min. wire                   | 5,9 A                                                                     |
| Current load capacity min. Wire (Data)            | 15 A                                                                      |
| Electrical resistance line constant wire          | 39 Ω/km @ 20 °C                                                           |
| Electrical resistance coating wire (Data)         | 20 Ω/km @ 20 °C                                                           |
| AC withstand voltage (wire - wire)                | 2 kV @ 60 s                                                               |
| Power frequency withstand voltage (wire - jacket) | 2 kV @ 60 s                                                               |
| Min. operating temperature (static)               | -40 °C                                                                    |
| Max. operating temperature (fixed)                | 90 °C                                                                     |
| Operating temperature min. (dynamic)              | -40 °C                                                                    |
| Operating temperature max. (dynamic)              | 90 °C                                                                     |
| Flame resistance                                  | UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2                       |
| chemical resistance                               | Good, application-related testing                                         |
| Gasoline resistance                               | Good, application-related testing                                         |
| Oil resistance                                    | DIN EN 60811-404   Good, application-related testing                      |
| Bending radius (installation)                     | x Outer diameter                                                          |
| Bending radius (fixed)                            | x Outer diameter                                                          |
| Bending radius (dynamic)                          | 10 x Outer diameter                                                       |
| No. of bending cycles (C-track)                   | 5 Mio. @ 25 °C                                                            |
| No. of torsion cycles                             | 0,5 Mio.                                                                  |
| Torsion stress                                    | ± 180 °/m                                                                 |

#### Connection type 2

|                          |                |
|--------------------------|----------------|
| Family construction form | free cable end |
| No. of poles             | 16             |
| Family construction form | M12            |
| Gender                   | female         |
| Color contact carrier    | black          |
| Coding                   | A              |
| No. of poles             | 5              |
| PIN 1                    | +              |
| PIN 2                    | NC S 2         |
| PIN 3                    | -              |
| PIN 4                    | NO S 1         |
| PIN 5                    | PE             |