

MVP-METALL, 8XM12, 5POLE, PRE-WIRED CABLE

3.0m PUR 16x0,5+3x1,0, UL/CSA

8-way, 5-pole  
3.0 m  
with LED for digital PNP-signals 24 V DC  
Replaces identical product (Art.No. 27491)  
Further cable lengths on request.

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                                            | 4048879351911                                                                                                                                                                        |
| Packaging unit                                  | 1                                                                                                                                                                                    |
| <b>Electrical data   Supply</b>                 |                                                                                                                                                                                      |
| Operating voltage DC                            | 24 V                                                                                                                                                                                 |
| Current operating per contact max.              | 4 A                                                                                                                                                                                  |
| <b>Installation   Connection</b>                |                                                                                                                                                                                      |
| Mounting set                                    | M12 x 1                                                                                                                                                                              |
| <b>Device protection   Electrical</b>           |                                                                                                                                                                                      |
| Degree of protection (EN IEC 60529)             | IP65, IP67, IP68                                                                                                                                                                     |
| <b>Mechanical data   Material data</b>          |                                                                                                                                                                                      |
| Coating housing                                 | Nickel                                                                                                                                                                               |
| Material housing                                | Zinc die-casting                                                                                                                                                                     |
| <b>Mechanical data   Mounting data</b>          |                                                                                                                                                                                      |
| Mounting method                                 | Schraubgewinde                                                                                                                                                                       |
| <b>Environmental characteristics   Climatic</b> |                                                                                                                                                                                      |
| Operating temperature min.                      | -25 °C                                                                                                                                                                               |
| Operating temperature max.                      | 90 °C                                                                                                                                                                                |
| Additional condition temperature range          | depending on cable quality                                                                                                                                                           |
| <b>Installation   Cable</b>                     |                                                                                                                                                                                      |
| Cable identification                            | 452                                                                                                                                                                                  |
| Jacket Color                                    | gray                                                                                                                                                                                 |
| Type of Certificate                             | cURus                                                                                                                                                                                |
| Amount stranding                                | 1                                                                                                                                                                                    |
| Stranding                                       | 7 wires around Core filler twisted                                                                                                                                                   |
| Amount stranding (type 2)                       | 1                                                                                                                                                                                    |
| Stranding (type 2)                              | 12 wires counter-rotating twisted                                                                                                                                                    |
| Banding                                         | Fleece                                                                                                                                                                               |
| Filler                                          | yes                                                                                                                                                                                  |
| wire arrangement                                | gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet) |
| Cable weight                                    | 231 g/m                                                                                                                                                                              |
| Material jacket                                 | PUR                                                                                                                                                                                  |
| Shore hardness jacket                           | 94 ± 5 Shore A                                                                                                                                                                       |
| Freedom from ingredients (jacket)               | lead-free, cadmium-free, CFC-free, halogen-free                                                                                                                                      |
| Outer-diameter (jacket)                         | 11,5 mm                                                                                                                                                                              |
| Tolerance outer diameter (sheath)               | ± 5 %                                                                                                                                                                                |
| Material wire insulation                        | TPE-E                                                                                                                                                                                |
| Amount wires                                    | 16                                                                                                                                                                                   |
| Outer diameter insulation                       | 1,6 mm                                                                                                                                                                               |
| Outer diameter tolerance core insulation        | ± 5 %                                                                                                                                                                                |
| Shore hardness wire insulation                  | 55 ± 5 Shore D                                                                                                                                                                       |
| Ingredient freeness wire insulation             | lead-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                                                                                                                                                                       |

The information in this Product-PDF has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-04

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|                                                   |                                                      |
|---------------------------------------------------|------------------------------------------------------|
| Traversing distance (C-track)                     | 5 m @ 25 °C                                          |
| 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 ± 5 Shore D                                       |
| Ingredient freeness wire insulation (Data)        | lead-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)        | 300 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)              | -20 °C                                               |
| Operating temperature max. (dynamic)              | 90 °C                                                |
| 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 (installation)                     | x Outer diameter                                     |
| Bending radius (fixed)                            | 8 x Outer diameter                                   |
| Bending radius (dynamic)                          | 10 x Outer diameter                                  |
| Travel speed (C-track)                            | 5 Mio. @ 25 °C                                       |

#### 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             |