

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

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

Art.No.: 8000-58512-4520300

Weight: 1.100 kg

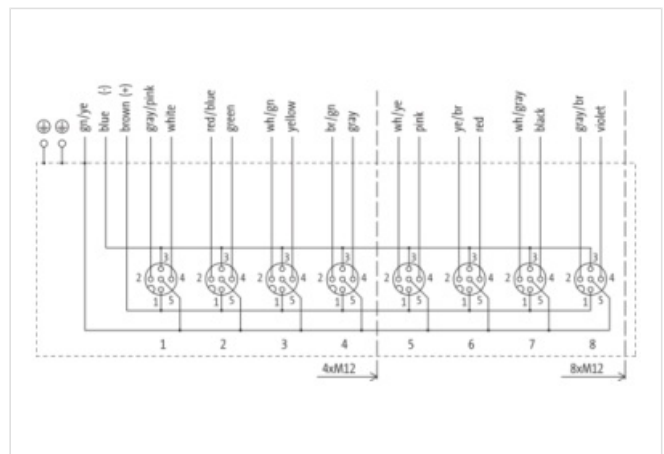
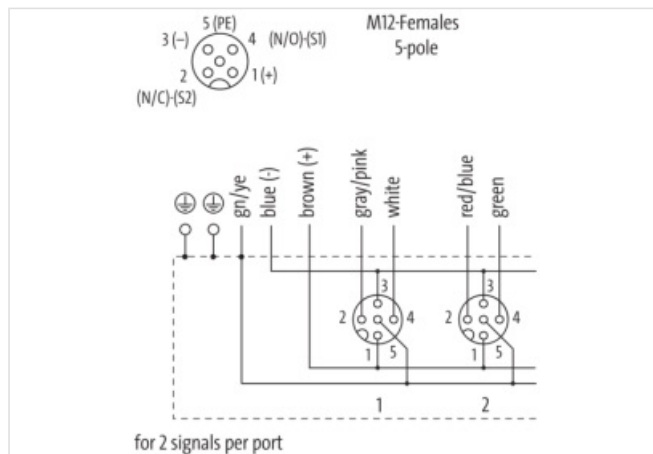
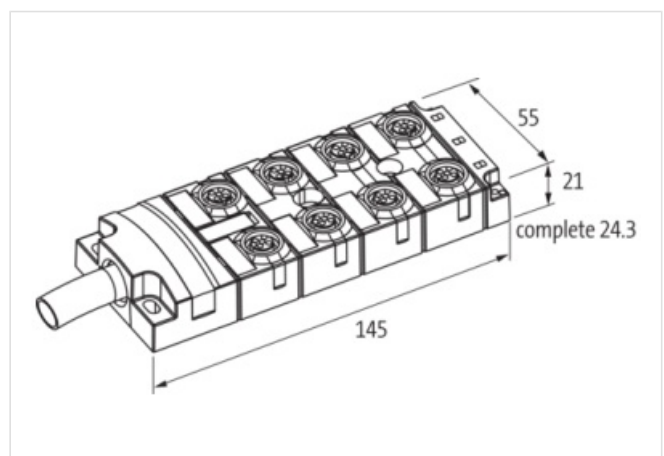
Country of origin: CZ

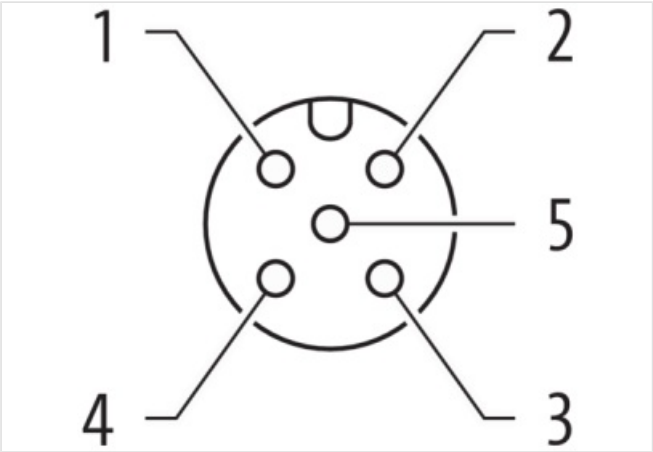
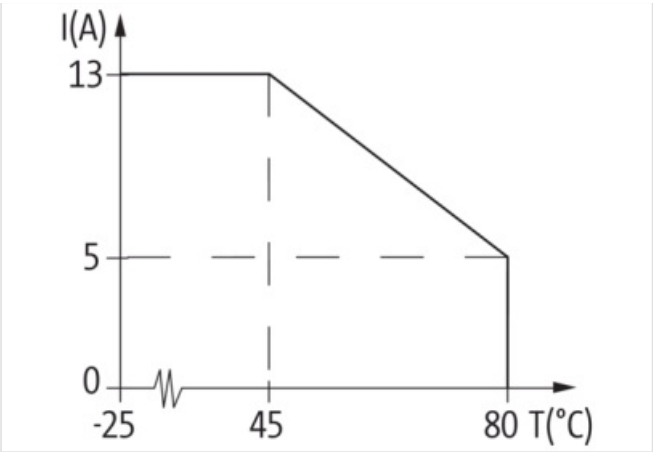
Model designation: MVP12M-AN8F 452 3.0-XA

8-way, 5-pole

Without LED for analog signals up to 48 V AC/DC

Further cable lengths on request.

**[Link to Product](#)****Illustration**



Product may differ from Image



| Header              |                                                                                                                     |
|---------------------|---------------------------------------------------------------------------------------------------------------------|
| Material short text | MVP12M-AN8F 452 3.0-XA                                                                                              |
| Commercial data     |                                                                                                                     |
| URL Webshop         | <a href="https://shop.murrelektronik.com/8000-58512-4520300">https://shop.murrelektronik.com/8000-58512-4520300</a> |
| GTIN                | 4048879351966                                                                                                       |
| ECLASS-6.0          | 27279219                                                                                                            |
| ECLASS-6.1          | 27279219                                                                                                            |
| ECLASS-7.0          | 27279219                                                                                                            |
| ECLASS-7.1          | 27279219                                                                                                            |
| ECLASS-8.0          | 27279219                                                                                                            |
| ECLASS-8.1          | 27279219                                                                                                            |
| ECLASS-9.0          | 27440108                                                                                                            |
| ECLASS-9.1          | 27440108                                                                                                            |
| ECLASS-10.0.1       | 27440108                                                                                                            |
| ECLASS-10.1         | 27440108                                                                                                            |
| ECLASS-11.0         | 27440108                                                                                                            |
| ECLASS-11.1         | 27440108                                                                                                            |
| ECLASS-12.0         | 27440108                                                                                                            |

|                       |               |
|-----------------------|---------------|
| ECLASS-13.0           | 27440108      |
| ECLASS-14.0           | 27440108      |
| ETIM-5.0              | EC002585      |
| ETIM-6.0              | EC002585      |
| ETIM-7.0              | EC002585      |
| ETIM-8.0              | EC002585      |
| customs tariff number | 85444290      |
| EAN                   | 4048879351966 |
| 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) | IP67, IP68, IP65 |
|-------------------------------------|------------------|

**Mechanical data | Material data**

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

**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                     | 452                                                                                                                                                                                  |
| Cable Type                               | 3                                                                                                                                                                                    |
| Function cable                           | Hybrid, Signal, Power                                                                                                                                                                |
| Stranding                                | 1 x 7 wires around core filler twisted                                                                                                                                               |
| Stranding factor min.                    | 80 mm                                                                                                                                                                                |
| Stranding factor max.                    | 80 mm                                                                                                                                                                                |
| Amount stranding (type 2)                | 1                                                                                                                                                                                    |
| Stranding (type 2)                       | 1 x 12 wires stranded in opposite direction around stranding combination                                                                                                             |
| Stranding factor min. (type 2)           | 140 mm                                                                                                                                                                               |
| Stranding factor max. (type 2)           | 140 mm                                                                                                                                                                               |
| 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                             | 201,1 g/m                                                                                                                                                                            |
| Material wire insulation                 | PP                                                                                                                                                                                   |
| Amount wires                             | 16                                                                                                                                                                                   |
| Outer diameter insulation                | 1,6 mm                                                                                                                                                                               |
| Outer diameter tolerance core insulation | ± 0,1 mm                                                                                                                                                                             |
| Shore hardness wire insulation           | 70 ± 5 Shore D                                                                                                                                                                       |
| Ingredient freeness wire insulation      | lead-free, cadmium-free, CFC-free, halogen-free, LABS-free, silicone-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                                                                                                                                                         |
| Electrical function wire                          | Signal                                                                                                                                                                 |
| Material wire insulation (type 2)                 | PP                                                                                                                                                                     |
| Outer diameter wire insulation (type 2)           | 2,1 mm                                                                                                                                                                 |
| Tolerance outer diameter wire insulation (type 2) | ± 0,1 mm                                                                                                                                                               |
| Shore hardness wire insulation (type 2)           | 70 Shore D ± 5 Shore D                                                                                                                                                 |
| Ingredient freeness wire insulation (type 2)      | lead-free, cadmium-free, CFC-free, halogen-free, LABS-free, silicone-free                                                                                              |
| Amount wires (type 2)                             | 3                                                                                                                                                                      |
| Amount strands wire (type 2)                      | 128                                                                                                                                                                    |
| Diameter of single wires (type 2)                 | 0,1 mm                                                                                                                                                                 |
| Conductor crosssection wire (type 2)              | 1 mm <sup>2</sup>                                                                                                                                                      |
| Material conductor wire (type 2)                  | Stranded copper wire, bare                                                                                                                                             |
| Wire conductor type (type 2)                      | strand class 6                                                                                                                                                         |
| Electrical function wire (type 2)                 | Power                                                                                                                                                                  |
| Outer-diameter (jacket)                           | 11,5 mm                                                                                                                                                                |
| Tolerance outer diameter (sheath)                 | ± 5 %                                                                                                                                                                  |
| Material jacket                                   | PUR                                                                                                                                                                    |
| Shore hardness jacket                             | 90 ± 5 Shore A                                                                                                                                                         |
| Freedom from ingredients (jacket)                 | lead-free, cadmium-free, CFC-free, halogen-free, LABS-free, silicone-free                                                                                              |
| Material property (jacket)                        | abrasion-resistant, low adhesion, good machinability, matte                                                                                                            |
| Conductor resistance (wire)                       | 39 Ω/km @ 20 °C                                                                                                                                                        |
| Conductor resistance (wire type 2)                | 19.5 Ω/km @ 20 °C                                                                                                                                                      |
| Max. rated voltage (conductor - ground)           | 300 V                                                                                                                                                                  |
| Max. rated voltage (conductor - conductor)        | 500 V                                                                                                                                                                  |
| Withstand voltage (wire - wire)                   | 2 kV @ 60 s                                                                                                                                                            |
| Withstand voltage (wire - jacket)                 | 2 kV @ 60 s                                                                                                                                                            |
| Current load capacity (standard)                  | to DIN VDE 0298-4                                                                                                                                                      |
| Current load capacity max. (wire)                 | 5,9 A                                                                                                                                                                  |
| Current load capacity max. Wire (type 2)          | 15 A                                                                                                                                                                   |
| Operating temperature min. (static)               | -40 °C                                                                                                                                                                 |
| Operating temperature max. (static)               | 80 °C / 90 °C @ 10000 h Operation                                                                                                                                      |
| Operating temperature min. (dynamic)              | -25 °C                                                                                                                                                                 |
| Operating temperature max. (dynamic)              | 80 °C / 90 °C @ 10000 h Operation                                                                                                                                      |
| Operating temperature min. (drag chain)           | -5 °C                                                                                                                                                                  |
| Operating temperature max. (drag chain)           | 60 °C                                                                                                                                                                  |
| Flame resistance                                  | IEC 60332-1-2                                                                                                                                                          |
| Oil resistance                                    | ISO 19642-3                                                                                                                                                            |
| Chemical resistance                               | ISO 19642-3                                                                                                                                                            |
| Ozone resistance                                  | IEC 60811-403                                                                                                                                                          |
| UV resistance                                     | UL 1581 § 1200                                                                                                                                                         |
| Other resistances                                 | resistance to gasoline (ISO 19642-3), resistant to mineral oils, greases, machine and gear oils and cooling lubricants, resistant to hydrolysis, resistant to microbes |
| Bending radius (fixed)                            | 7.5 × Outer diameter                                                                                                                                                   |
| Bending radius (dynamic)                          | 10 × Outer diameter                                                                                                                                                    |
| No. of bending cycles (C-track)                   | 5 Mio. @ 25 °C                                                                                                                                                         |
| Traversing distance (C-track)                     | 10 m @ 25 °C   horizontal                                                                                                                                              |
| Travel speed (C-track)                            | 3 m/s @ 25 °C                                                                                                                                                          |
| Acceleration (C-track)                            | 10 m/s <sup>2</sup> @ 25 °C                                                                                                                                            |
| <b>Connection type 2</b>                          |                                                                                                                                                                        |
| Family construction form                          | free cable end                                                                                                                                                         |
| No. of poles                                      | 16                                                                                                                                                                     |
| Family construction form                          | M12                                                                                                                                                                    |

|                       |        |
|-----------------------|--------|
| No. of poles          | 5      |
| Coding                | A      |
| Gender                | female |
| Color contact carrier | black  |
| PIN 1                 | +      |
| PIN 2                 | NC S 2 |
| PIN 3                 | -      |
| PIN 4                 | NO S 1 |
| PIN 5                 | PE     |