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|                                           |                   |
|-------------------------------------------|-------------------|
| Mounting method                           | inserted, screwed |
| Coating contact                           | gold plated       |
| Family construction form                  | M12               |
| Thread                                    | M12 x 1           |
| suitable for corrugated tube (internal Ø) | 10 mm             |
| Coding                                    | A                 |
| Material contact                          | Copper alloy      |
| Material                                  | PUR               |
| Width across flats                        | SW13              |
| Degree of protection (EN IEC 60529)       | IP65, IP66K, IP67 |

**Side 2**

|                           |              |
|---------------------------|--------------|
| Stripping length (jacket) | 20 mm        |
| Coating contact           | gold plated  |
| Material contact          | Copper alloy |

**Commercial data**

|                       |               |
|-----------------------|---------------|
| ECLASS-6.0            | 27279218      |
| ECLASS-6.1            | 27279218      |
| ECLASS-7.0            | 27279218      |
| ECLASS-8.0            | 27279218      |
| ECLASS-9.0            | 27060311      |
| ECLASS-10.1           | 27060311      |
| ECLASS-11.1           | 27060311      |
| ECLASS-12.0           | 27060311      |
| ETIM-5.0              | EC001855      |
| customs tariff number | 85444290      |
| GTIN                  | 4065909049501 |
| Packaging unit        | 1             |

**Electrical data | Supply**

|                                    |       |
|------------------------------------|-------|
| Operating voltage AC max.          | 250 V |
| Operating voltage DC max.          | 250 V |
| Operating voltage AC (UL-listed)   | 30 V  |
| Operating voltage DC (UL-listed)   | 30 V  |
| Current operating per contact max. | 4 A   |

**Installation | Connection**

|                           |         |
|---------------------------|---------|
| Stripping length (jacket) | 20 mm   |
| Mounting set              | M12 x 1 |

**Device protection | Electrical**

|                                        |                   |
|----------------------------------------|-------------------|
| Additional condition protection degree | inserted, screwed |
| Pollution Degree                       | 3                 |
| Rated surge voltage                    | 2,5 kV            |
| Material group (IEC 60664-1)           | I                 |

**Mechanical data | Material data**

|                           |                  |
|---------------------------|------------------|
| Coating locking           | Nickel           |
| Coating of fitting        | nickel plated    |
| Material gasket           | FKM              |
| Locking material          | Zinc die-casting |
| Material screw connection | 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

|                                                   |                                                                |
|---------------------------------------------------|----------------------------------------------------------------|
| Cable identification                              | 234                                                            |
| Cable Type                                        | 3                                                              |
| Jacket Color                                      | gray                                                           |
| Type of Certificate                               | cURus                                                          |
| Amount stranding                                  | 1                                                              |
| Stranding                                         | 4 wires twisted                                                |
| wire arrangement                                  | brown, black, blue, white                                      |
| Cable weight                                      | 36,3 g/m                                                       |
| Material jacket                                   | PUR                                                            |
| Shore hardness jacket                             | 90 ± 5 Shore A                                                 |
| Freedom from ingredients (jacket)                 | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Outer-diameter (jacket)                           | 4,5 mm                                                         |
| Tolerance outer diameter (sheath)                 | ± 5 %                                                          |
| Material wire insulation                          | PP                                                             |
| Amount wires                                      | 4                                                              |
| Outer diameter insulation                         | 1,25 mm                                                        |
| Outer diameter tolerance core insulation          | ± 5 %                                                          |
| Shore hardness wire insulation                    | 70 ± 5 Shore D                                                 |
| Ingredient freeness wire insulation               | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Amount strands (wire)                             | 42                                                             |
| Diameter of single wires                          | 0,1 mm                                                         |
| Conductor crosssection (wire)                     | 0,34 mm²                                                       |
| Material conductor wire                           | Stranded copper wire, bare                                     |
| Conductor type (wire)                             | strand class 6                                                 |
| Traversing distance (C-track)                     | 10 m @ 25 °C   horizontal                                      |
| Nominal voltage AC max.                           | 300 V                                                          |
| Current load capacity (standard)                  | to DIN VDE 0298-4                                              |
| Current load capacity min. wire                   | 4,8 A                                                          |
| Electrical resistance line constant wire          | 57 Ω/km @ 20 °C                                                |
| AC withstand voltage (wire - wire)                | 2,5 kV @ 60 s                                                  |
| Power frequency withstand voltage (wire - jacket) | 2,5 kV @ 60 s                                                  |
| Min. operating temperature (static)               | -40 °C                                                         |
| Max. operating temperature (fixed)                | 80 °C / 90 °C @ 10000 h Operation                              |
| Operating temperature min. (dynamic)              | -25 °C                                                         |
| Operating temperature max. (dynamic)              | 80 °C / 90 °C @ 10000 h Operation                              |
| Flame resistance                                  | IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2            |
| 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)                            | 5 x Outer diameter                                             |
| Bending radius (dynamic)                          | 10 x Outer diameter                                            |
| Travel speed (C-track)                            | 10 Mio. @ 25 °C                                                |
| No. of torsion cycles                             | 2 Mio.                                                         |
| Torsion stress                                    | ± 180 °/m                                                      |

Torsion speed

35 cycles/min