

## M12 female 0° B-cod. with cable shielded

PUR AWG24+22 shielded vt UL/CSA+drag ch. 25m

Female straight M12, 4-pole B-coded

shielded

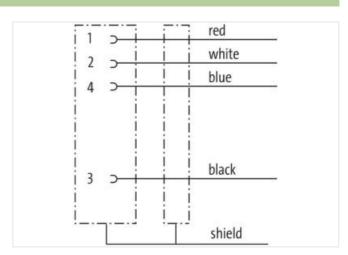
Plastic housings with good resistance against chemicals and oils.

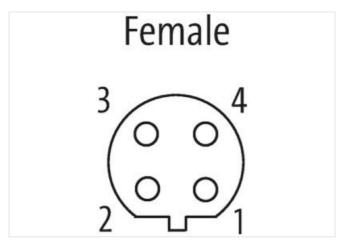
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## **Link to Product**

## Illustration









Product may differ from Image













Cable length

25 m

Side 1

Tightening torque

0,6 Nm

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: 2024-05-02



stay connected

| Mounting method                          | inserted, screwed                     |
|--|---------------------------------------|
| Family construction form                 | M12                                   |
| Thread                                   | M12 x 1                               |
| Coding                                   | В                                     |
| Material                                 | PUR                                   |
| No. of poles                             | 4                                     |
| Width across flats                       | SW13                                  |
| Degree of protection (EN IEC 60529)      | IP67                                  |
| Commercial data                          |                                       |
| ECLASS-6.0                               | 27061801                              |
| ECLASS-6.1                               | 27060307                              |
| ECLASS-7.0                               | 27060307                              |
| ECLASS-8.0                               | 27060307                              |
| ECLASS-9.0                               | 27060307                              |
| ECLASS-10.1                              | 27060307                              |
| ECLASS-11.1                              | 27060307                              |
| ECLASS-12.0                              | 27060307                              |
| ETIM-5.0                                 | EC001855                              |
| customs tariff number                    | 85444290                              |
| GTIN                                     | 4048879477727                         |
| Packaging unit                           | 1                                     |
| Electrical data   Supply                 |                                       |
| Operating voltage AC max.                | 60 V                                  |
| Operating voltage DC max.                | 60 V                                  |
| Operating voltage AC (UL-listed)         | 30 V                                  |
| Operating voltage DC (UL-listed)         | 30 V                                  |
| Current operating per contact max.       | 4 A                                   |
| Installation   Connection                |                                       |
| Mounting set                             | M12 x 1                               |
| Device protection   Electrical           |                                       |
| Additional condition protection degree   | inserted, screwed                     |
| Pollution Degree                         | 3                                     |
| Rated surge voltage                      | 1,5 kV                                |
| Material group (IEC 60664-1)             | <u> </u>                              |
| Mechanical data                          |                                       |
|  | without                               |
| Contour for corrugated hose              | without                               |
| Mechanical data   Material data          |                                       |
| Coating locking                          | Nickeled                              |
| Coating of fitting                       | nickel plated                         |
| 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            |
| Conformity                               |                                       |
| Product standard                         | DIN EN 61076-2-101 (M12)              |
|  |                                       |



## stay connected

| Jacket Color   Volet   | Oakla Martination                          | 803  |
|--|--|--|
| Type of Certificate         CUFus           Amount standing         1           Standing         2 wires Invisided           Amount standing (type 2)         1           Standing (pype)         Copper braid, finned           Cable standing (pype)         Copper braid, finned           Cable and (rows section)         22 AWG           Wire arrangement (white, blush, (black, red)         Cable with a copper braid, finned           Cable weigh         63, 12 gm           Markeral (solet         PLIR           Shore hardness glader         PLIR           Freadom from ingredients (gardel)         63, 12 gm           Markeral wire instantion (gardel)         lead-five, cadmium free, CPC free, halogen-free, allicone-free           Outer diameter (grobed)         6, 9 mm           Freedom from ingredients (gardel)         1, 5%           Markeral wire instantion         2 1 mm           Outer diameter instantion         2 1 mm           Outer diameter retreated (grobe)         1, 5 %           Strong hardness were installation         1, 5 % or 2           Markeral wire installation (pair)         1, 2 MVG           During diameter of services exection (wire)         2, 4 MVG           During weigher freeness were installation (pair)         1, 5 mm  | Cable identification                       |  |
| Amount stranding 1 Stranding (type 2) 1 Stranding (type 2) 2 Stranded joints twisted Antourn stranding (type 2) 2 Stranded joints twisted Cable shelding (type) Cable shelding (type) Cable shelding (coverage) 65 % Standing Fill Drain wire (cross-section) 22 AWG wire arrangement (white, blue), (black, red) Cable sweigh 63.12 g/m Material picker Shore hardness globet Freedom from ingredients (glober) Cable sweigh 63.12 g/m Material picker PUR Shore hardness globet 90 £ 5 Shore A Freedom from ingredients (glober) Colled-diameter (glober) 6.9 mm Tolerance outer diameter (sheath) £ 5 % Material wire insulation PE Amount wires 2 Cuber diameter (sheath) 2 / I mm Colled-diameter (sheath) 2 / I mm Colled-diameter (sheath) 3 / I mm Shore hardness wire insulation 4 £ 5 Shore D Grounder diameter (sheath) 5 / I mm Colled-diameter (sheath) 6 / I mm Colled-diameter (sheath) 7 / I mm Colled-diameter (sheath) 7 / I mm Colled-diameter (sheath) 8 / I mm Colled-diameter (sheath) 9 / I mm Colled-dia                 |  |  |
| Stranding   2 wires twisted  |  | cURus  |
| Amount stranding (type 2) 1 Situanding (type 2) 2 Situanded (type 2) 3 Sobie shelding (coverage) 65 % Standing (                 | Amount stranding                           | 1  |
| Stranding (type 2) Cable shielding (type) Cable shielding (type) Cable shielding (type) Cable shielding (type) Se 5 % Sandring Foil Porian wire (cross-section) 22 AVG wire arrangement (white, blue), (black, red) Salty (white, blue), (black, red                 | Stranding                                  | 2 wires twisted  |
| Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         65 %           Barding         Foll           Drian wire (cross-section)         22 AWG           wire arrangement         (white, blue), (black, red)           Cable weight         63.12 g/m           Material jacket         PUR           Shore hardness jacket         90.5 Shore A           Friesdom from ingradients (jacked)         69.8 mm           Colled-diameter (jacked)         5.9 mm           Tolerance outer diameter (sheath)         5.5 %           Material wire insulation         PE           Annount wires         2           Quiter diameter insulation         2.1 mm           Under diameter (proteins)         64.5 Shore D           Shore hardness were insulation         64.5 Shore D           Ingradient freeness wire insulation         64.5 Shore D           Ingradient freeness wire insulation         64.5 Shore D           Diameter of single wires         24 AWG           Oral wire (cross-section)         22 AWG           Malerial conductor wire         copper stranded wire, tinned           Electrical function wire         copper stranded wire, tinned           Tolerance outer diameter wire insulation (Data) <td< td=""><td>Amount stranding (type 2)</td><td>1</td></td<>  | Amount stranding (type 2)                  | 1  |
| Capie shielding (coverage)   65 %  | Stranding (type 2)                         | 2 Stranded joints twisted                                      |
| Banding Foil  Train wire (cross-section)  22 AWG  wire arrangement (white, blue), (black, red)  Gable weight 63,12 g/m  Material packet PUR  Shore hardnoss packet 95,5 Shore A  Freedom from ingredients (jacket)  Outer diameter (jacket) 5,5 mm  Tolerance outer diameter (jacket) 5,5 mm  Tolerance outer diameter (jacket) 5,5 mm  Tolerance outer diameter (jacket) 6,5 mm  Tolerance outer diameter (jacket) 7,5 mm  Outer diameter insulation PE  Amount wires 2  Outer diameter tolerance core insulation 2, 1,1 mm  Outer diameter tolerance core insulation 44 ± 5 Shore D  Ingredient freeness wire insulation 64 ± 5 Shore D  Ingredient freeness wire insulation 94 ± 5 Shore D  Ingredient freeness wire insulation 10 ± 2 AWG  Outer diameter of simple wires 24 AWG  Outer diameter of the production of t                 | Cable shielding (type)                     | copper braid, tinned   |
| Drain wire (cross-section)         22 AWG           wire arrangement         (white, blue), (black, red)           Cable weight         63.12 gm           Material jacket         PUR           Froedom from ingredients (jacket)         19± 5 Shore A           Outer clamater (jacket)         10± 5 Shore A           Froedom from ingredients (jacket)         5.9 mm           Tolerance outer flameter (sheath)         5.5 %           Material wire insulation         PE           Amount wires         2           Outer diameter insulation         2.1 mm           Outer diameter insulation         6.4 £ Shore D           Ingredient freeness wire insulation         1ead-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         2.4 AWG           Conductor crosssection (wire)         24 AWG           Drain wire (cross-section)         22 AWG           Outer diameter wire insulation (Data)         1.5 mm           Tolerance outer diameter wire insulation (Data)         2.2 AWG <tr< td=""><td>Cable shielding (coverage)</td><td>65 %</td></tr<>   | Cable shielding (coverage)                 | 65 %   |
| wire arrangement (white, blue), (black, red) Gable weight 63,12 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 10a-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 6,9 mm Tolerance outer diameter (jacket) 1,5 % Material wire insulation PE Amount wires 2 Outer diameter insulation 2,1 mm Outer diameter insulation 2,1 mm Outer diameter insulation 3,5 % Shore hardness wire insulation 4,5 % Shore hardness wire insulation 4,1 5 % Shore hardness wire insulation 4,1 5 % Shore hardness wire insulation 6,4 ± 5 Shore D Ingredient freeness wire insulation 6,4 ± 5 Shore D Ingredient freeness wire insulation 7,2 Mm Outer diameter for single wires 1,2 Mm Outer diameter for single wires 2,4 AWG Conductor crosssection (wire) 2,4 AWG Conductor crosssection (wire) 2,4 AWG Conductor crosssection (wire) 2,4 AWG Material conductor wire 0,2 AWG Material conductor wire 0,2 AWG Material conductor wire insulation (Data) 1,5 mm Tolerance outer diameter wire insulation (Data) 1,5 mm Tole                  | Banding                                    | Foil   |
| Cable weight         63.12 g/m           Material jacket         PUR           Shore hardness jacket         90.2 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5.9 mm           Outer diameter (mainter)         £ 5 %           Material wire insulation         PE           Amount wires         2           Outer diameter insulation         2,1 mm           Outer diameter insulation         4.5 Shore D           Shore hardness wire insulation         64.5 Shore D           Ingredient freeness wire insulation         64.5 Shore D           Ingredient freeness wire insulation         64.5 Shore D           Ingredient freeness wire insulation         64.5 Shore D           Dismeter of single wires         24 AWG           Conductor cross-ection (wire)         24 AWG           Conductor wire (cross-section (wire)         24 AWG           Drain wire insulation (Data)         PE           Duter diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         1,5 mm           Diameter of single wires (Data)         22 AWG     <   | Drain wire (cross-section)                 | 22 AWG   |
| Material jacket  | wire arrangement                           | (white, blue), (black, red)                                    |
| Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead free, camitum-free, CFC-free, halogen-free, silicone-free           Under diameter (jacket)         4.5 %           Malefreial wire insulation         PE           Amount wires insulation         PE           Outer diameter insulation         2.1 mm           Outer diameter tolerance core insulation         2.5 %           Shore hardness wire insulation         4.6 ± 5 Shore D           Ingredient freeness wire insulation         1.6 ± 5 Shore D           Ingredient freeness wire insulation         1.6 ± 5 Shore D           Ingredient freeness wire insulation         1.6 ± 5 Shore D           Ingredient freeness wire insulation         2.4 AWG           Conductor crosssection (wire)         2.4 AWG           Conductor crosssection (wire)         2.4 AWG           Drain wire (cross-section)         2.2 AWG           Material conductor wire (constance)         2.2 AWG           Under diameter vire insulation (Data)         PE           Under diameter vire insulation (Data)         1.5 mm           Tolerance outer diameter vire insulation (Data)         2.5 mm           Outer diameter vire insulation (Data)         2.5 mm           Outer diameter vire insulation (Data)         2.5 mm </td <td>Cable weigth</td> <td>63,12 g/m</td>  | Cable weigth                               | 63,12 g/m  |
| Freedom from Ingredients (jacket)         lead free, cadmium-free, CFC-free, halogen-free           Outer diameter (jacket)         6,9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PE           Amount wires         2           Outer diameter insulation         2,1 mm           Outer diameter insulation         64 ± 5 %           Shore hardness wire insulation         64 ± 5 % or D           Ingredient freeness wire insulation         19           Diameter of single wires         24 AWG           Conductor crosssection (wire)         19           Diameter of single wires         24 AWG           Conductor vire conductor vire compared function wire         24 AWG           Diameteral conductor wire         24 AWG           Diate diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         2.5 %           Ingredient freeness wire insulation (Data)         2.5 mm           Diameter of single wires (Data)         2.2 AWG           Outer diameter wire insulation (Data)         2.5 mm           Tolerance outer diameter wire insulation (Data)         2.5 mm           Diameter of single wires (Data)         2.2 AWG           Contract gradies wire (Data)  | Material jacket                            | PUR  |
| Outer-diameter (jacket)         6,9 mm           Tolerance outer diameter (hearth)         ± 5 %           Amount wires         2           Outer diameter insulation         PE           Amount wires         2           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         64 ± 5 Shore D           Ingredient freeness wire insulation         64 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Drain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, tinned           Electrical function wire         bata           Material vire insulation (Data)         PE           Outer diameter wire insulation (Data)         ± 5 %           Tolerance outer diameter wire insulation (Data)         ± 5 mm           Tolerance outer diameter wire insulation (Data)         ± 5 mm           Tolerance outer diameter wire insulation (Data)         ± 2 WG           Diameter of single wires (Data)         2           Diameter of single wires (Data)         2           Diame  | Shore hardness jacket                      | 90 ± 5 Shore A   |
| Tolerance outer diameter (sheath)  | Freedom from ingredients (jacket)          | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Material wire insulation         PE           Amount wires         2           Outer diameter insulation         2,1 mm           Outer diameter tolerance core insulation         4.5 %           Shore hardness wire insulation         64 ± 5 Shore D           Ingredient freeness wire insulation         19           Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Dain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, finned           Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         PE           Under diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         16 mm           Ingredient freeness wire insulation (Data)         12 AWG           Onductor ressessive (Data)         2           Conductor crossescition wire (Data)         23 AWG           Conductor crossescition wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Conductor crossescition wire (Data)         20 per stranded wire, tinned           Electrical function wire (data)         Power  | Outer-diameter (jacket)                    | 6,9 mm   |
| Material wire insulation         PE           Amount wires         2           Outer diameter insulation         2,1 mm           Outer diameter tolerance core insulation         4.5 %           Shore hardness wire insulation         64 ± 5 Shore D           Ingredient freeness wire insulation         19           Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Dain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, finned           Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         PE           Under diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         16 mm           Ingredient freeness wire insulation (Data)         12 AWG           Onductor ressessive (Data)         2           Conductor crossescition wire (Data)         23 AWG           Conductor crossescition wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Conductor crossescition wire (Data)         20 per stranded wire, tinned           Electrical function wire (data)         Power  | Tolerance outer diameter (sheath)          | ±5%  |
| Outer diameter insulation         2,1 mm           Outer diameter bolerance core insulation         ± 5 %           Shore hardness wire insulation         64 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         24 AWG           Conductor cross-section (wire)         24 AWG           Drain wire (ross-section)         22 AWG           Material conductor wire         copper stranded wire, tinned           Electrical function wire         Data           Cled diameter wire insulation (Data)         PE           Outer diameter wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1.5 mm           Tolerance outer diameter wire insulation (Data)         tea-free, CFC-free, halogen-free           Amount strands wire (Data)         2           Amount wires (Data)         2           Diameter of single wires (Data)         22           Conductor crossection wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Material function wire (Data)         22 AWG           Material function wire (Data)         45 M           Electrical function wire (Data)         10 M <td>Material wire insulation</td> <td>PE</td>  | Material wire insulation                   | PE   |
| Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         64 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         24 AWG           Conductor crosssection (wire)         22 AWG           Drain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, tinned           Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         ±53 %           Ingredient freeness wire insulation (Data)         ±53 %           Ingredient freeness wire insulation (Data)         ±64 Free, CFC-free, halogen-free           Amount wires (Data)         2           Amount strands wire (Data)         2           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (data)         power           Traversing distance (C-track)         5 m           Traversing distance (  | Amount wires                               | 2  |
| Shore hardness wire insulation         64 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Drain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, tinned           Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         1,5 mm           Ingredient freeness wire insulation (Data)         2           Amount strands wire (Data)         2           Diameter of single wires (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Material conductor wire (Data)         20 Copper stranded wire, tinned           Electrical function wire (Data)         5 m           Traversing distance (G-track)         5 m           Travel speed (C-track)         1 Mio. </td <td>Outer diameter insulation</td> <td>2,1 mm</td>   | Outer diameter insulation                  | 2,1 mm   |
| Ingredient freeness wire insulation lead-free, CFC-free, halogen-free Amount strands (wire) 19 Diameter of single wires 24 AWG Conductor crosssection (wire) 24 AWG Drain wire (cross-section) 22 AWG Material conductor wire copper stranded wire, tinned Electrical function wire Data Material vire insulation (Data) PE Outer diameter wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (Data) 1.9 mm Ingredient freeness wire insulation (Data) 19 Diameter of single wires (Data) 2 Amount strands wire (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Conductor diameter wire insulation (Data) 19 Diameter of single wires (Data) 29 AWG Conductor crosssection wire (Data) 29 AWG Conductor crosssection wire (Data) 20 AWG Conductor crosssection wire (Data) 20 AWG Conductor crosssection wire (Data) 20 AWG Conductor crossection wire (Data) 20 AWG Conductor crossection wire (Data) 20 AWG Conductor crossection wire (Data) 20 AWG Conductor wire (Data) 20 AWG Conductor crossection wire (Data) 20 AWG Conductor wire (Data) 20 AWG Conductor crossection wire (Data) 20 AWG Conductor wire (Data) 20 AWG Conductor wire (Data) 20 AWG Current load capacity (standard) 5 MG Current load capacity min. wire 4,5 A Current load capacity min. wire 4,5 A Current load capacity min. wire 4,5 A Current load capacity min. wire 6 A Electrical function wire (data) Power Characteristic impedance 120 Ω±10 % @ 1 MHz Electrical resistance line constant wire 78 Ω/km Electrical resistance line constant wire 78 Ω/km   | Outer diameter tolerance core insulation   | ±5%  |
| Amount strands (wire)         19           Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Drain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, tinned           Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         1ead-free, CFC-free, halogen-free           Amount wires (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crossection wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Material function wire (data)         Power           Traversing distance (C-track)         5 m           Traversing distance (C-track)         5 m           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Current load capacity min. wire (Data)         A           Electrical function wire (data)         Power           Characteris   | Shore hardness wire insulation             | 64 ± 5 Shore D   |
| Amount strands (wire)         19           Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Drain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, tinned           Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         1ead-free, CFC-free, halogen-free           Amount wires (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crossection wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Material function wire (data)         Power           Traversing distance (C-track)         5 m           Traversing distance (C-track)         5 m           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Current load capacity min. wire (Data)         A           Electrical function wire (data)         Power           Characteris   | Ingredient freeness wire insulation        | lead-free, CFC-free, halogen-free                              |
| Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Drain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, tinned           Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         ± 53 %           Imperdient freeness wire insulation (Data)         1 general wire (Pota)           Amount strands wire (Data)         2           Diameter of single wires (Data)         2           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         20 Apper stranded wire, tinned           Electrical function wire (data)         Power           Traversing distance (C-track)         5 m           Traversing distance (C-track)         1 Mio.           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120  | <u> </u>                                   | ·  |
| Conductor crosssection (wire)         24 AWG           Drain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, tinned           Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         lead-free, CFC-free, halogen-free           Amount wires (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (Data)         copper stranded wire, tinned           Traversing distance (C-track)         5 m           Traversing distance (C-track)         5 m           Traversing distance (C-track)         1 Mio.           Nominal voltage AC max.         300 V           Current load capacity min. wire         4,5 A           Current load capacity min. wire         2 A           Current load capacity min. wire  |  |  |
| Drain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, tinned           Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         ± 53 %           Ingredient freeness wire insulation (Data)         lead-free, CFC-free, halogen-free           Amount wires (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Material conductor wire (Data)         20 Power           Traversing distance (C-track)         5 m           Traversing distance (C-track)         5 m           Traversing distance (C-track)         1 Mio.           Nominal voltage AC max.         300 V           Current load capacity sini. wire         4,5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 ± 10 % @ 1 MHz           Electrical resistance coating wire (Data)         78 Ω/km <td></td> <td></td>   |  |  |
| Material conductor wire         copper stranded wire, tinned           Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (data)         ± 53 %           Ingredient Treeness wire insulation (Data)         tead-free, CFC-free, halogen-free           Amount wires (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crossection wire (Data)         22 AWG           Conductor wire (Data)         22 AWG           Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (Data)         power           Traversing distance (C-track)         5 m           Traversing distance (C-track)         5 m           Traversing distance (C-track)         1 Milo.           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Current load capacity min. wire         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω±10 % 1  |  |  |
| Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (data)         ± 53 %           Ingredient freeness wire insulation (Data)         tead-free, CFC-free, halogen-free           Amount wires (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (data)         Power           Traver sing distance (C-track)         5 m           Travel speed (C-track)         1 Mio.           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance loine constant wire         78 Ω/km           Electrical resistance coating wire (Data) <td></td> <td></td>  |  |  |
| Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (data)         ± 53 %           Ingredient freeness wire insulation (Data)         lead-free, CFC-free, halogen-free           Amount wires (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (data)         Power           Traversing distance (C-track)         5 m           Travel speed (C-track)         1 Mio.           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Current load capacity min. wire         4,5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           Chracteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage  |  |  |
| Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         ± 53 %           Ingredient freeness wire insulation (Data)         lead-free, CFC-free, halogen-free           Amount wires (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (data)         Power           Traversing distance (C-track)         5 m           Travel speed (C-track)         1 Mio.           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4.5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric capaci  |  |  |
| Tolerance outer diameter wire insulation (data) $\pm 53\%$ Ingredient freeness wire insulation (Data) lead-free, CFC-free, halogen-free Amount wires (Data) 2 Amount strands wire (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) copper stranded wire, tinned Electrical function wire (data) Power Traversing distance (C-track) 5 m Travel speed (C-track) 1 Mio. Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Current load capacity min. wire (Data) 6 A Electrical function wire (data) Power Characteristic impedance 120 $\Omega \pm 10\%$ @ 1 MHz Electrical resistance lone constant wire 78 $\Omega$ /km Electrical resistance coating wire (Data) 54 $\Omega$ /km AC withstand voltage (wire - wire) 2 kV @ 60 s Electric capacitance (Wire - wire) 2 kV @ 60 s   |  |  |
| Ingredient freeness wire insulation (Data)  Amount wires (Data)  2  Amount strands wire (Data)  19  Diameter of single wires (Data)  22 AWG  Conductor crosssection wire (Data)  22 AWG  Material conductor wire (Data)  22 AWG  Material conductor wire (Data)  23 AWG  Material conductor wire (Data)  24 AWG  Material strands wire (Data)  25 AWG  Material conductor wire (Data)  26 AWG  Material conductor wire (Data)  27 AWG  Material conductor wire (Data)  28 AWG  Material conductor wire (Data)  29 AWG  Material conductor wire (Data)  20 AWG  Material conductor wire (Data)  20 AWG  Material conductor wire (Data)  21 AWG  Material conductor wire (Data)  22 AWG  Material conductor wire (Data)  23 AWG  Material conductor wire (Data)  34 Mio.  Moinal voltage AC max.  35 Mio.  36 A  45 A  46 A  Electrical function wire  Data  Electrical function wire (Data)  45 A  46 Miderial function wire (Data)  47 August Miderial  48 August Mideria                  |  |  |
| Amount wires (Data) 2 Amount strands wire (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Material conductor wire (Data) 25 AWG Conductor wire (Data) 26 Conductor wire (Data) 27 AWG Material conductor wire (Data) 28 AWG Material conductor wire (Data) 29 Copper stranded wire, tinned Electrical function wire (data) Power Traversing distance (C-track) 5 m Travel speed (C-track) 1 Mio. Nominal voltage AC max. 300 V Current load capacity (standard) 10 DIN VDE 0298-4 Current load capacity min. wire 4,5 A Current load capacity min. wire 4,5 A Current load capacity min. wire Data Electrical function wire Data Electrical function wire (Data) Characteristic impedance 120 Ω ± 10 % @ 1 MHz Electrical resistance line constant wire 78 Ω/km Electrical resistance coating wire (Data) AC withstand voltage (wire - wire) 2 kV @ 60 s Electric capacitance 40000 pF/km   |  |  |
| Amount strands wire (Data)  Diameter of single wires (Data)  22 AWG  Conductor crosssection wire (Data)  22 AWG  Material conductor wire (Data)  Electrical function wire (data)  Power  Traversing distance (C-track)  Travel speed (C-track)  1 Mio.  Nominal voltage AC max.  300 V  Current load capacity (standard)  Current load capacity min. wire  4,5 A  Current load capacity min. Wire (Data)  Electrical function wire (data)  Power  Characteristic impedance  120 $\Omega \pm 10$ % @ 1 MHz  Electrical resistance coating wire (Data)  5 W/Km  AC withstand voltage (wire - wire)  2 kV @ 60 s  Electric capacitance  | Ingredient freeness wire insulation (Data) | <del>-</del>   |
| Diameter of single wires (Data) 22 AWG  Conductor crosssection wire (Data) 22 AWG  Material conductor wire (Data) copper stranded wire, tinned  Electrical function wire (data) Power  Traversing distance (C-track) 5 m  Travel speed (C-track) 1 Mio.  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Current load capacity min. Wire (Data) 6 A  Electrical function wire (data) Power  Characteristic impedance 120 $\Omega \pm 10$ % @ 1 MHz  Electrical resistance line constant wire 78 $\Omega$ /km  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance 40000 pF/km   | Amount wires (Data)                        |  |
| Conductor crosssection wire (Data)       22 AWG         Material conductor wire (Data)       copper stranded wire, tinned         Electrical function wire (data)       Power         Traversing distance (C-track)       5 m         Travel speed (C-track)       1 Mio.         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Current load capacity min. Wire (Data)       6 A         Electrical function wire       Data         Electrical function wire (data)       Power         Characteristic impedance       120 Ω ± 10 % @ 1 MHz         Electrical resistance line constant wire       78 Ω/km         Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km   |  |  |
| Material conductor wire (Data) copper stranded wire, tinned  Electrical function wire (data) Power  Traversing distance (C-track) 5 m  Travel speed (C-track) 1 Mio.  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Current load capacity min. Wire (Data) 6 A  Electrical function wire Data  Electrical function wire (data) Power  Characteristic impedance 120 $\Omega \pm 10 \% 0 1 \text{ MHz}$ Electrical resistance line constant wire 78 $\Omega$ /km  ECHOPICAL RESISTANCE CORRENT OF THE MINER O | Diameter of single wires (Data)            | 22 AWG   |
| Electrical function wire (data) Power  Traversing distance (C-track) 5 m  Travel speed (C-track) 1 Mio.  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Current load capacity min. Wire (Data) 6 A  Electrical function wire Data  Electrical function wire (data) Power  Characteristic impedance 120 $\Omega \pm 10$ % @ 1 MHz  Electrical resistance line constant wire 78 $\Omega$ /km  Electrical resistance coating wire (Data) 54 $\Omega$ /km  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance   | Conductor crosssection wire (Data)         | 22 AWG   |
| Traversing distance (C-track) 5 m  Travel speed (C-track) 1 Mio.  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Current load capacity min. Wire (Data) 6 A  Electrical function wire Data  Electrical function wire (data) Power  Characteristic impedance 120 $\Omega$ ± 10 % @ 1 MHz  Electrical resistance line constant wire 78 $\Omega$ /km  Electrical resistance coating wire (Data) 54 $\Omega$ /km  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance 40000 pF/km  | Material conductor wire (Data)             | copper stranded wire, tinned                                   |
| Travel speed (C-track) 1 Mio.  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Current load capacity min. Wire (Data) 6 A  Electrical function wire Data  Electrical function wire (data) Power  Characteristic impedance 120 $\Omega$ ± 10 % @ 1 MHz  Electrical resistance line constant wire 78 $\Omega$ /km  Electrical resistance coating wire (Data) 54 $\Omega$ /km  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance 40000 pF/km   | Electrical function wire (data)            | Power  |
| Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Current load capacity min. Wire (Data)       6 A         Electrical function wire       Data         Electrical function wire (data)       Power         Characteristic impedance       120 Ω ± 10 % @ 1 MHz         Electrical resistance line constant wire       78 Ω/km         Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km   | Traversing distance (C-track)              | 5 m  |
| Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Current load capacity min. Wire (Data) 6 A  Electrical function wire Data  Electrical function wire (data) Power  Characteristic impedance 120 \Omega \pm 10 \% @ 1 MHz  Electrical resistance line constant wire 78 \Omega/km  Electrical resistance coating wire (Data) 54 \Omega/km  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance 40000 pF/km  | Travel speed (C-track)                     | 1 Mio.   |
| Current load capacity min. wire 4,5 A  Current load capacity min. Wire (Data) 6 A  Electrical function wire Data  Electrical function wire (data) Power  Characteristic impedance 120 $\Omega \pm 10 \% @ 1 \text{ MHz}$ Electrical resistance line constant wire 78 $\Omega/\text{km}$ Electrical resistance coating wire (Data) 54 $\Omega/\text{km}$ AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance 40000 pF/km   | Nominal voltage AC max.                    | 300 V  |
| Current load capacity min. Wire (Data)       6 A         Electrical function wire       Data         Electrical function wire (data)       Power         Characteristic impedance       120 Ω ± 10 % @ 1 MHz         Electrical resistance line constant wire       78 Ω/km         Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km  | Current load capacity (standard)           | to DIN VDE 0298-4  |
| Electrical function wire Data  Electrical function wire (data) Power  Characteristic impedance $120 \Omega \pm 10 \% @ 1 \text{ MHz}$ Electrical resistance line constant wire $78 \Omega/\text{km}$ Electrical resistance coating wire (Data) $54 \Omega/\text{km}$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electric capacitance $40000 \text{ pF/km}$   | Current load capacity min. wire            | 4,5 A  |
| Electrical function wire (data)       Power         Characteristic impedance       120 Ω ± 10 % @ 1 MHz         Electrical resistance line constant wire       78 Ω/km         Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km   | Current load capacity min. Wire (Data)     | 6 A  |
| Characteristic impedance 120 Ω ± 10 % @ 1 MHz  Electrical resistance line constant wire 78 Ω/km  Electrical resistance coating wire (Data) 54 Ω/km  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance 40000 pF/km   | Electrical function wire                   | Data   |
| Electrical resistance line constant wire 78 Ω/km  Electrical resistance coating wire (Data) 54 Ω/km  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance 40000 pF/km  | Electrical function wire (data)            | Power  |
| Electrical resistance coating wire (Data) 54 Ω/km  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance 40000 pF/km  | Characteristic impedance                   | 120 Ω ± 10 % @ 1 MHz   |
| AC withstand voltage (wire - wire) 2 kV @ 60 s Electric capacitance 40000 pF/km  | Electrical resistance line constant wire   | 78 Ω/km  |
| AC withstand voltage (wire - wire) 2 kV @ 60 s Electric capacitance 40000 pF/km  | Electrical resistance coating wire (Data)  | 54 Ω/km  |
| Electric capacitance 40000 pF/km   | AC withstand voltage (wire - wire)         | 2 kV @ 60 s  |
|  | Electric capacitance                       | 40000 pF/km  |
|  | AC withstand voltage (wire - shield)       | <u>`</u>   |

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: 2024-05-02



| Min. operating temperature (static)  | -40 °C   |
|--------------------------------------|--|
| Max. operating temperature (fixed)   | 80 °C  |
| Operating temperature min. (dynamic) | -30 °C   |
| Operating temperature max. (dynamic) | 70 °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                       | DIN EN 60811-404   Good, application-related testing |
| Bending radius (installation)        | x Outer diameter                                     |
| Bending radius (fixed)               | 6 x Outer diameter                                   |
| Bending radius (dynamic)             | 10 x Outer diameter                                  |
| No. of torsion cycles                | 2 Mio.   |
| Torsion speed                        | 35 cycles/min  |
| Torsion stress                       | ± 30 °/m   |