

## M12 male 0° / M12 female 90° A-cod. LED

PUR 3x0.34 gy UL/CSA 2m

## **⚠ NOTICE ⚠** PRODUCT IS DISCONTINUED. PLEASE HAVE A LOOK AT THE ALTERNATIVE PRODUCTS.

Male straight - female 90°

M12 - M12, 3-pole

3-pole with 2× LED (PNP)

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

Special Type

Plastic housings with good resistance against chemicals and oils.

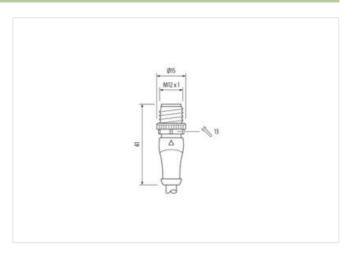
The resistance to aggressive media should be individually tested for your application. Further details on request.

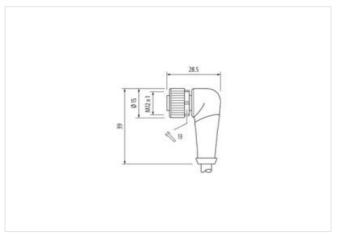
Further cable lengths on request.

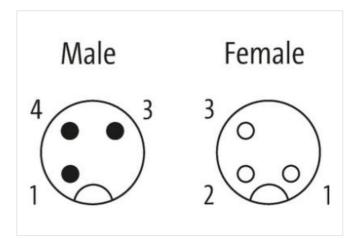
## **Link to Product**

## Illustration









Product may differ from Image













Cable length 2 m Side 1 Tightening torque 0,6 Nm Mounting method inserted, screwed Family construction form M12 Thread M12 x 1 suitable for corrugated tube (internal Ø) 10 mm Coding Α Material **PUR** Width across flats SW13 Degree of protection (EN IEC 60529) IP66K, IP67 Side 2 Tightening torque 0.6 Nm Mounting method inserted, screwed Family construction form M12 Thread M12 x 1 suitable for corrugated tube (internal Ø) 10 mm Coding Α Material PUR Width across flats SW13 Degree of protection (EN IEC 60529) IP66K, IP67 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 4048879372855 Packaging unit Electrical data | Supply Operating voltage DC 24 V Operating voltage DC min. 18 V Operating voltage DC max. 30 V Operating voltage DC max. (UL-listed) 30 V Current operating per contact max. 4 A **Diagnostics** Status indication LED green, yellow Installation | Connection Mounting set M12 x 1 Device protection | Electrical Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 0,8 kV Material group (IEC 60664-1) Mechanical data | Material data Nickeled Coating locking

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: 2024-06-26



stay connected

Locking material Zinc die casting  Material screw connection Zinc die casting  Mounting method Inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min. 25 °C  Operating temperature max. 85 °C  Accitional condition temperature range depending on cable quality  Conformity  Product standard DIN EN 61076-2-101 (M12)  Cable  Cable desiratification 23  Cable identification 23  Cable identification 23  Cable identification 24  Cable identification 25  Cable identification 35,7 °C  Cable weight [cm] 35,9 °C  Approval (cable) UL (AWM-Styles 205491731), CSA; CE conform  Cable weight [cm] 35,9 °C  Material wire Cores 242 °C University 242 °C Univer	Coating of fitting	nickel plated
Meunting method inserted, screwed, Shaking protection  Environmental characterisatics   Climatio Operating temperature min. Operating temperature max. 85 °C Additional condition temperature max. 85 °C Additional condition temperature max. 85 °C Additional condition temperature max. Product standard DIN En 61076-2-101 (M12)  Cable  Cable  Cable dentification 223 Cable dentification 223 Cable (approximation of the conditional of	Locking material	Zinc die-casting
Mounting method         inserted, screwed, Shaking protection           Environmental characteristics (Climatic           Operating temperature min.         25 °C           Operating temperature mins.         85 °C           Additional condition temperature range         depending on cable quality           Conformity         Product standard         DIN EN 81076 2-101 (M12)           Cable         Cable institution         223           Cable institution         229         2 (PUR/PVC)           Approval (cable)         UL (AVMA-Style 205491731), CSA; CE conform           Cable wild (in)         35.97 g         35.97 g           Material wire         Cu wire, bare         20 °C)           Single wire Ø (core)         0.1 mm         20 °C)           Single wire Ø (core)         0.1 mm         20 °C)           Construction (core)         42 × 0.1 mm (multi-strand wire class 8)           Diameter (core)         3 × 0.34 mm²           AWG         similar to AWG 22           Material property wire insulation         CPC, cadmium, silicone- and lead-free           Strone hardness wis isolation         4.3 ± 5 m           View Ø, Incl. silicone         4.3 ± m           Colorizumbering of wires         br. Bk. bl           Sheid         n	Material screw connection	Zinc die-casting
Environmental characteristics   Climatic	Mechanical data   Mounting data	
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)           Cable indestructions           Cable indestruction         223           Cable indestruction         228           Cable indestruction         2.6 (UR/W-VC)           Approval (cable)         UL (AWM-Style 20549/1731), CSA; CE conform           Cable weight [girm]         35,87 g           Material wire         Cu wire, barre           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire of (core)         0.1 mm           Construction (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         3× 0.34 mm²           AWG         similar to AWG 22           Material property wire insulation         PVC           Material property wire insulation         CFC, cadmium., silicone- and lead-free           Shore hardness wire solution         42 ± 5 D           Wire-Ø incl. isolation         1,25 mm ±5%           Colorizambering of wires         br. bit, bit           Shored         PUR/PVC	Mounting method	inserted, screwed, Shaking protection
Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Conformity         Product standard           Product standard         DIN EN 61076-2-101 (M12)           Cable         Cable dentification           223         2 (PUR/PVC)           Approval (cable)         UL (AWM-Style 20549/1731), CSA; CE conform           Cable weight (g/m)         35,97 g           Material wire         Cu wire, barre           Resistor (core)         max, 57 Ω/km (20 °C)           Single wire 2/ (core)         0.1 mm           Construction (core)         42 × 0.1 mm (multi-strand wire class 6)           Bilameter (core)         3 × 0.34 mm²           AWG         similar to AWG 22           Material wire isolation         PVC           Material wire isolation         PVC           Wire-0 incl. isolation         CFC, cadmium-, silicone- and lead-free           Shore hardness wire isolation         43 ± 5 D           Vire-0 incl. isolation         1,25 mm ±5%           Coloriumbering of wires         br, b, b           Stranding combination         3 wires twisted           Shield         no           Material property (jacket)         CFC, halogen, cadmium-, silicone-	Environmental characteristics   Climatic	
Additional condition temperature range         depending on cable quality           Conformity         Product standard         DIN EN 61076 2-101 (M12)           Cable         Cable           Cable identification         223           Cable Type         2 (PUR-PVC)           Approval (cable)         UL (AWM-Style 20549/1731), CSA; CE conform           Cable weight (gm)         35,97 g           Material wire         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         3× 0.34 mm²           AWG         similar to AWG 22           Material wire insulation         PVC           Material wire insulation         PVC           Wire-Ø incl. isolation         CFC-, admium-, silicone- and lead-free           Shore hardness wire isolation         3 wires twisted           Stranding combination         3 wires twisted           Shold         no           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistance           Shore hardness jacket         PURPVC           Material property (jacket)         <	Operating temperature min.	-25 °C
Conformity         Cable           Cable identification         223           Cable (Interficial property)         2 (PURIPVC)           Approval (cable)         UL (AWM-Style 20549/1731), CSA; CE conform           Cable Type         2 (PURIPVC)           Approval (cable)         UL (AWM-Style 20549/1731), CSA; CE conform           Cable weight fig/m]         35,97 g           Material wire         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42 × 0.1 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.34 mm²           AWG         similar to AWG 22           Material property wire insulation         CFC-, cadmium-, silicone- and lead-free           Shore hardness wire isolation         43 ± 5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/inumbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant           Shore hardness jacket         80 ± 5 A (PVC-under jacket); 85 ± 5 A (PUR-jacket) <td>Operating temperature max.</td> <td>85 °C</td>	Operating temperature max.	85 °C
Product standard         DIN EN 61076-2-101 (M12)           Cable           Cable (abentification)         223           Cable Type         2 (PUR/PVC)           Approval (cable)         UL (AWM-Style 20549/1731), CSA; CE conform           Cable weight [g/m]         35.97 g           Material wire         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42 × 0.1 mm (multi-strand wire class 6)           Dameter (core)         3 × 0.34 mm²           AWG         similar to AWG 22           Material property wire insulation         CFC-, cadminum-, silicone- and lead-free           Shore hardness wire isolation         43 ± 5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/mubering of wires         br, bk, bl           Stranding combination         3 viers wisted           Shield         no           Material property (jacket)         GFC, halogens, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant           Shield         no           Colorinarches jacket         90 ± 5 A [PVC-under jacket); 85 ± 5 A [PVB-jacket)           Cutter-Ø (jacket)         43 ± m ±5% </td <td>Additional condition temperature range</td> <td>depending on cable quality</td>	Additional condition temperature range	depending on cable quality
Cable         Cable identification         223           Cable Type         2 (PUR/PVC)           Approval (cable)         UL (AWM-Style 20549/1731), CSA; CE conform           Cable weight [g/m]         35,97 g           Material wire         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42 - 0.1 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.34 mm²           AWG         similar to AWG 22           Material wire isolation         PVC           Material property wire insulation         CFC, cadmium-, silicone- and lead-free           Shore hardness wire isolation         43 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and load-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbal resistant           Shreek         80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)           Outer-Ø (jacket)         4.3 mm ±5%           Color jacket         gray           Chemical r	Conformity	
Cable identification         223           Cable Type         2 (PUR/PVC)           Approval (cable)         UL (AVM/Style 20549/1731), CSA; CE conform           Cable weight [g/m]         35.97 g           Material wire         Cu wire, bare           Resistor (core)         max. 57 (Alkm (20°C)           Single wire Ø (core)         0.1 mm           Construction (core)         42×.0.1 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.34 mm²           AWG         similar to AWG 22           Material wire insulation         PVC           Material property wire insulation         CFCr, cadmium-, silicone- and lead-free           Shore hardness wire isolation         43 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, lk, bl           Stranding combination         3 wires twisted           Shield         no           Material property (jacket)         CFCr, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbal resistant           Shore hardness jacket         80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)           Outer-Ø (jacket)         4.3 mm ±5%           Color jacket         good resistance to oil, gasoline and chemicals <td>Product standard</td> <td>DIN EN 61076-2-101 (M12)</td>	Product standard	DIN EN 61076-2-101 (M12)
Cable Type         2 (PURIPVC)           Approval (cable)         UL (AWM-Style 20549/1731), CSA; CE conform           Cable weight [g/m]         35,97 g           Material wire         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         3× 0.34 mm²           AWG         similar to AWG 22           Material wire isolation         PVC           Material property wire insulation         CFC-, cadmium-, silicone- and lead-free           Shore hardness wire isolation         43 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/mumbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant           Shore hardness jacket         80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)           Outer-Ø (jacket)         4.3 mm ±5%           Color jacket         gray           Chemical resistance         good resistance to oil, gasoline and chemicals <td>Cable</td> <td></td>	Cable	
Cable Type         2 (PURIPVC)           Approval (cable)         UL (AWM-Style 20549/1731), CSA; CE conform           Cable weight [g/m]         35,97 g           Material wire         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         3× 0.34 mm²           AWG         similar to AWG 22           Material wire isolation         PVC           Material property wire insulation         CFC-, cadmium-, silicone- and lead-free           Shore hardness wire isolation         43 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/mumbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant           Shore hardness jacket         80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)           Outer-Ø (jacket)         4.3 mm ±5%           Color jacket         gray           Chemical resistance         good resistance to oil, gasoline and chemicals <td>Cable identification</td> <td>223</td>	Cable identification	223
Approval (cable)         UL (AWM-Style 20549/1731), CSA; CE conform           Cable weight [g/m]         55,97 g           Material wire         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.34 mm²           AWG         similar to AWG 22           Material wire isolation         PVC           Material property wire insulation         CFC, cadmium·, silicone- and lead-free           Shore hardness wire isolation         43 ± 5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material jacket         PURIPVC           Material property (jacket)         CFC-, halogen-, cadmium·, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant           Shore hardness jacket         90 ± 5 A (PVC-under jacket); 85 ± 5 A (PUR-jacket)           Outer-Ø (jacket)         4.3 mm ±5%           Color jacket         gray           Color jacket         gray           Color jacket		
Cable weight [g/m]         35,97 g           Material wire         Cu wire, bare           Resistor (core)         max.57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.34 mm²           AWG         similar to AWG 22           Material vire isolation         PVC           Material property wire insulation         CFC-, cadmium-, silicone- and lead-free           Shore hardness wire isolation         43 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant           Shore hardness jacket         80 ±5 A (PVC-under jacket); 85 ±5 A (PVR-jacket)           Outer-Ø (jacket)         4.3 mm ±5%           Color jacket         gray           chemical resistance         good resistance to oil, gasoline and chemicals           Nominal voltage         UL 300 V AC           Test voltage         200 V AC           Current l		
Material wire         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42 × 0.1 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.34 mm²           AWG         similar to AWG 22           Material wire isolation         PVC           Material property wire insulation         CFC-, cadmium-, silicone- and lead-free           Shore hardness wire isolation         43 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant           Shore hardness jacket         80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)           Outer-Ø (jacket)         4.3 mm ±5%           Color jacket         gray           chemical resistance         good resistance to oil, gasoline and chemicals           Nominal voltage         UL 300 V AC           Test voltage         2000 V AC           Current load capacity         to DIN VDE 0298-4		
Resistor (core)         max. 57 Q/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         3x 0.34 mm²           AWG         similar to AWG 22           Material wire isolation         PVC           Material property wire insulation         CFC-, cadmium-, silicone- and lead-free           Shore hardness wire isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material jacket         PUR/PVC           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant property (jacket)           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant property (jacket)           Shore hardness jacket         80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)           Outer-Ø (jacket)         4.3 mm ±5%           Color jacket         gray           chemical resistance         good resistance to oil, gasoline and chemicals           Nominal voltage         UL 300 V AC           Test voltage         200 V AC		
Single wire Ø (core)         0.1 mm           Construction (core)         42 x 0.1 mm (multi-strand wire class 6)           Diameter (core)         3 x 0.34 mm²           AWG         similar to AWG 22           Material wire isolation         PVC           Material property wire insulation         CFC-, cadmium-, silicone- and lead-free           Shore hardness wire isolation         43 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material jacket         PUR/PVC           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant property (jacket)           Shore hardness jacket         80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)           Outer-Ø (jacket)         4.3 mm ±5%           Color jacket         gray           Outer-Ø (jacket)         4.3 mm ±5%           Color jacket         gray           Outer-Ø (jacket)         4.3 mm ±5%           Color jacket         gray           Outer-Ø (jacket)         4.3 mm ±5%           Color jacket         grow yes           Dominal voltage		· · · · · · · · · · · · · · · · · · ·
Construction (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         3x 0.34 mm²           AWG         similar to AWG 22           Material wire isolation         PVC           Material property wire insulation         CFC-, cadmium-, silicone- and lead-free           Shore hardness wire isolation         43 ± 5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material jacket         PUR/PVC           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant           Shore hardness jacket         80 ±5 Å (PVC-under jacket); 85 ±5 Å (PUR-jacket)           Outer-Ø (jacket)         4.3 mm ±5%           Color jacket         gray           Chemical resistance         good resistance to oil, gasoline and chemicals           Nominal voltage         UL 300 V AC           Test voltage         2000 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         30+80 °C           Bending radius (fixed)         10. outer Ø	. ,	· · · · · · · · · · · · · · · · · · ·
Diameter (core)         3x 0.34 mm²           AWG         similar to AWG 22           Material wire isolation         PVC           Material property wire insulation         CFC-, cadmium-, silicone- and lead-free           Shore hardness wire isolation         43 ± 5 D           Wire-© incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material jacket         PUR/PVC           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant           Shore hardness jacket         80 ± 5 A (PVC-under jacket); 85 ± 5 A (PUR-jacket)           Outer-Ø (jacket)         4.3 mm ±5%           Color jacket         gray           Chemical resistance         good resistance to oil, gasoline and chemicals           Nominal voltage         UL 300 V AC           Test voltage         2000 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         30+80 °C           Temperature range (mobile)         -5+80 °C           Bending radius (fixed)         10× outer Ø           Bending		
AWG similar to AWG 22  Material wire isolation PVC  Material property wire insulation CFC-, cadmium-, silicone- and lead-free  Shore hardness wire isolation 43 ± 5 D  Wire-Ø incl. isolation 1.25 mm ±5%  Color/numbering of wires br, bk, bl  Stranding combination 3 wires twisted  Shield no  Material jacket PUR/PVC  Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant  Shore hardness jacket 80 ± 5 A (PVC-under jacket); 85 ± 5 A (PUR-jacket)  Outer-Ø (jacket) 4.3 mm ±5%  Color jacket gray  chemical resistance good resistance to oil, gasoline and chemicals  Nominal voltage UL 300 V AC  Test voltage 2000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C  Temperature range (mobile) -5+80 °C  Bending radius (fixed) 10× outer Ø  Bending radius (fixed) 15× outer Ø  Bending radius (dynamic) 15× outer Ø  No. of bending cycles (C-track) max. 3 m/s	. ,	· · · · · · · · · · · · · · · · · · ·
Material wire isolation         PVC           Material property wire insulation         CFC-, cadmium-, silicone- and lead-free           Shore hardness wire isolation         43 ±5 D           Wire-O incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no           Material jacket         PUR/PVC           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant           Shore hardness jacket         80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)           Outer-Ø (jacket)         4.3 mm ±5%           Color jacket         gray           chemical resistance         good resistance to oil, gasoline and chemicals           Nominal voltage         UL 300 V AC           Test voltage         2000 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -5+80 °C           Bending radius (fixed)         10× outer Ø	. ,	
Material property wire insulation CFC-, cadmium-, silicone- and lead-free  Shore hardness wire isolation 1.25 mm ±5%  Color/numbering of wires br, bk, bl  Stranding combination 3 wires twisted  Shield no  Material jacket PUR/PVC  Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant  Shore hardness jacket 80 ± 5 A (PVC-under jacket); 85 ± 5 A (PUR-jacket)  Outer-Ø (jacket) 4.3 mm ±5%  Color jacket gray  chemical resistance good resistance to oil, gasoline and chemicals  Nominal voltage UL 300 V AC  Test voltage 2000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -5+80 °C  Bending radius (fixed) 10× outer Ø  Bending radius (fixed) 15× outer Ø  No. of bending cycles (C-track) max. 2 Mio. (25 °C)  Travel speed (C-track) max. 3.3 m/s		
Shore hardness wire isolation       43 ±5 D         Wire-Ø incl. isolation       1.25 mm ±5%         Color/numbering of wires       br, bk, bl         Strading combination       3 wires twisted         Shield       no         Material jacket       PUR/PVC         Material property (jacket)       CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant         Shore hardness jacket       80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)         Outer-Ø (jacket)       4.3 mm ±5%         Color jacket       gray         chemical resistance       good resistance to oil, gasoline and chemicals         Nominal voltage       UL 300 V AC         Test voltage       2000 V AC         Current load capacity       to DIN VDE 0298-4         Temperature range (fixed)       -30+80 °C         Bending radius (fixed)       10x outer Ø         Bending radius (gynamic)       15x outer Ø         No. of bending cycles (C-track)       max. 2 Mio. (25 °C)         Travel speed (C-track)       max. 3.3 m/s		
Wire-Ø incl. isolation       1.25 mm ±5%         Color/numbering of wires       br, bk, bl         Stranding combination       3 wires twisted         Shield       no         Material jacket       PUR/PVC         Material property (jacket)       CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant         Shore hardness jacket       80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)         Outer-Ø (jacket)       4.3 mm ±5%         Color jacket       gray         chemical resistance       good resistance to oil, gasoline and chemicals         Nominal voltage       UL 300 V AC         Test voltage       2000 V AC         Current load capacity       to DIN VDE 0298-4         Temperature range (fixed)       -30+80 °C         Temperature range (mobile)       -5+80 °C         Bending radius (fixed)       10× outer Ø         Bending radius (dynamic)       15× outer Ø         No. of bending cycles (C-track)       max. 2 Mio. (25 °C)         Travel speed (C-track)       max. 3.3 m/s		
Color/numbering of wires       br, bk, bl         Stranding combination       3 wires twisted         Shield       no         Material jacket       PUR/PVC         Material property (jacket)       CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant         Shore hardness jacket       80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)         Outer-Ø (jacket)       4.3 mm ±5%         Color jacket       gray         chemical resistance       good resistance to oil, gasoline and chemicals         Nominal voltage       UL 300 V AC         Test voltage       2000 V AC         Current load capacity       to DIN VDE 0298-4         Temperature range (fixed)       -30+80 °C         Temperature range (mobile)       -5+80 °C         Bending radius (fixed)       10× outer Ø         Bending radius (dynamic)       15× outer Ø         No. of bending cycles (C-track)       max. 2 Mio. (25 °C)         Travel speed (C-track)       max. 3 m/s		
Stranding combination 3 wires twisted  Shield no  Material jacket PUR/PVC  Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant  Shore hardness jacket 80 ± 5 A (PVC-under jacket); 85 ± 5 A (PUR-jacket)  Outer-Ø (jacket) 4.3 mm ±5%  Color jacket gray  Chemical resistance good resistance to oil, gasoline and chemicals  Nominal voltage UL 300 V AC  Test voltage 2000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C  Temperature range (mobile) -5+80 °C  Bending radius (fixed) 10× outer Ø  Bending radius (dynamic) 15× outer Ø  No. of bending cycles (C-track) max. 2 Mio. (25 °C)  Travel speed (C-track) max. 3.3 m/s		
Shield no  Material jacket PUR/PVC  Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant  Shore hardness jacket 80 ± 5 A (PVC-under jacket); 85 ± 5 A (PUR-jacket)  Outer-Ø (jacket) 4.3 mm ±5%  Color jacket gray  chemical resistance good resistance to oil, gasoline and chemicals  Nominal voltage UL 300 V AC  Test voltage 2000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C  Temperature range (mobile) -5+80 °C  Bending radius (fixed) 10× outer Ø  Bending radius (dynamic) 15× outer Ø  No. of bending cycles (C-track) max. 2 Mio. (25 °C)  Travel speed (C-track) max. 3.3 m/s		
Material jacket  PUR/PVC  Material property (jacket)  CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant  Shore hardness jacket  80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)  Outer-Ø (jacket)  4.3 mm ±5%  Color jacket  gray  chemical resistance  good resistance to oil, gasoline and chemicals  Nominal voltage  UL 300 V AC  Test voltage  2000 V AC  Current load capacity  to DIN VDE 0298-4  Temperature range (fixed)  -30+80 °C  Temperature range (mobile)  -5+80 °C  Bending radius (fixed)  10× outer Ø  Bending radius (dynamic)  No. of bending cycles (C-track)  max. 2 Mio. (25 °C)  Travel speed (C-track)  max. 3.3 m/s		
Material property (jacket)  CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant  Shore hardness jacket  80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)  Outer-Ø (jacket)  4.3 mm ±5%  Color jacket  gray  chemical resistance  good resistance to oil, gasoline and chemicals  Nominal voltage  UL 300 V AC  Test voltage  2000 V AC  Current load capacity  to DIN VDE 0298-4  Temperature range (fixed)  -30+80 °C  Temperature range (mobile)  5-5+80 °C  Bending radius (fixed)  10× outer Ø  Bending radius (dynamic)  No. of bending cycles (C-track)  max. 2 Mio. (25 °C)  Travel speed (C-track)  max. 3.3 m/s		
resistant, hydrolysis and microbial resistant  Shore hardness jacket 80 ± 5 A (PVC-under jacket); 85 ± 5 A (PUR-jacket)  Outer-Ø (jacket) 4.3 mm ±5%  Color jacket gray  chemical resistance good resistance to oil, gasoline and chemicals  Nominal voltage UL 300 V AC  Test voltage 2000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C  Temperature range (mobile) -5+80 °C  Bending radius (fixed) 10× outer Ø  Bending radius (fixed) 15× outer Ø  No. of bending cycles (C-track) max. 2 Mio. (25 °C)  Travel speed (C-track) max. 3.3 m/s	Material Jacket	
Outer-Ø (jacket)  Color jacket  gray  chemical resistance  good resistance to oil, gasoline and chemicals  Nominal voltage  UL 300 V AC  Test voltage  2000 V AC  Current load capacity  to DIN VDE 0298-4  Temperature range (fixed)  -30+80 °C  Temperature range (mobile)  -5+80 °C  Bending radius (fixed)  10× outer Ø  Bending radius (dynamic)  15× outer Ø  No. of bending cycles (C-track)  max. 2 Mio. (25 °C)  Travel speed (C-track)  max. 3.3 m/s	Material property (jacket)	
Color jacket gray chemical resistance good resistance to oil, gasoline and chemicals  Nominal voltage UL 300 V AC  Test voltage 2000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C  Temperature range (mobile) -5+80 °C  Bending radius (fixed) 10× outer Ø  Bending radius (dynamic) 15× outer Ø  No. of bending cycles (C-track) max. 2 Mio. (25 °C)  Travel speed (C-track) max. 3.3 m/s	Shore hardness jacket	80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)
chemical resistance good resistance to oil, gasoline and chemicals  Nominal voltage UL 300 V AC  Test voltage 2000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C  Temperature range (mobile) -5+80 °C  Bending radius (fixed) 10× outer Ø  Bending radius (dynamic) 15× outer Ø  No. of bending cycles (C-track) max. 2 Mio. (25 °C)  Travel speed (C-track) max. 3.3 m/s	Outer-Ø (jacket)	4.3 mm ±5%
Nominal voltage  UL 300 V AC  Test voltage  2000 V AC  Current load capacity  to DIN VDE 0298-4  Temperature range (fixed)  -30+80 °C  Temperature range (mobile)  -5+80 °C  Bending radius (fixed)  10× outer Ø  Bending radius (dynamic)  15× outer Ø  No. of bending cycles (C-track)  max. 2 Mio. (25 °C)  Travel speed (C-track)  max. 3.3 m/s	Color jacket	gray
Test voltage 2000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C  Temperature range (mobile) -5+80 °C  Bending radius (fixed) 10× outer Ø  Bending radius (dynamic) 15× outer Ø  No. of bending cycles (C-track) max. 2 Mio. (25 °C)  Travel speed (C-track) max. 3.3 m/s	chemical resistance	good resistance to oil, gasoline and chemicals
Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+80 °C  Temperature range (mobile) -5+80 °C  Bending radius (fixed) 10× outer Ø  Bending radius (dynamic) 15× outer Ø  No. of bending cycles (C-track) max. 2 Mio. (25 °C)  Travel speed (C-track) max. 3.3 m/s	Nominal voltage	UL 300 V AC
Temperature range (fixed)  -30+80 °C  Temperature range (mobile)  -5+80 °C  Bending radius (fixed)  10× outer Ø  Bending radius (dynamic)  15× outer Ø  No. of bending cycles (C-track)  max. 2 Mio. (25 °C)  Travel speed (C-track)  max. 3.3 m/s	Test voltage	2000 V AC
Temperature range (mobile)  -5+80 °C  Bending radius (fixed)  10× outer Ø  Bending radius (dynamic)  15× outer Ø  No. of bending cycles (C-track)  max. 2 Mio. (25 °C)  Travel speed (C-track)  max. 3.3 m/s	Current load capacity	to DIN VDE 0298-4
Bending radius (fixed)  10× outer Ø  Bending radius (dynamic)  15× outer Ø  No. of bending cycles (C-track)  max. 2 Mio. (25 °C)  Travel speed (C-track)  max. 3.3 m/s	Temperature range (fixed)	-30+80 °C
Bending radius (dynamic) 15× outer Ø  No. of bending cycles (C-track) max. 2 Mio. (25 °C)  Travel speed (C-track) max. 3.3 m/s	Temperature range (mobile)	-5+80 °C
No. of bending cycles (C-track) max. 2 Mio. (25 °C)  Travel speed (C-track) max. 3.3 m/s	Bending radius (fixed)	10× outer Ø
Travel speed (C-track) max. 3.3 m/s	Bending radius (dynamic)	15× outer Ø
. , ,	No. of bending cycles (C-track)	max. 2 Mio. (25 °C)
Acceleration (C-track) max. 5 m/s <sup>2</sup>	Travel speed (C-track)	max. 3.3 m/s
	Acceleration (C-track)	max. 5 m/s²