

M12 Power L-coded 5pol. male 0 $^{\circ}$ / female 90 $^{\circ}$

PUR 5x1.5 bk UL/CSA+drag chain 10m

Male straight – female 90° M12 – M12, 5-pole L-coded

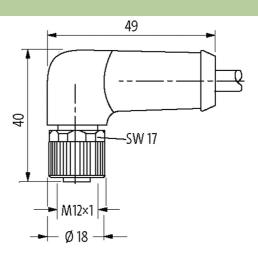
with cable sleeves

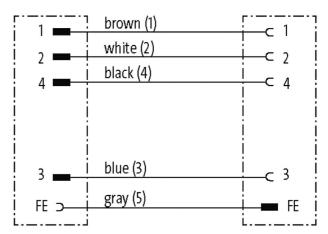
Plastic housings with good resistance against chemicals and oils.

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

Form	
Form	P4251
General data	
Standards	IEC 61076-2-111
Mounting method	inserted, tightened
Pollution Degree	3
Temperature range	-25+85 °C, depending on cable quality
Cables	



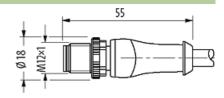
stay connected

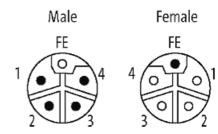
Wire isolation PP (br. wt. bt. bk. gr. num) Cirtack properties 5 Mio. Jacker Color black Material (parket) PUR (ULCSA) Outer 60 8.7 mm +5% Beard radius (mixing) 10 outer 60 Temperature range (fosed) 50 -, 80 °C Temperature range (fosed) 50 -, 80 °C Cable (dentification P04 Cable (pp 3 (PUR) Approval (cable) cURLus (AWA-Syele 21223/10492) Cable (weight (gm)) 129,80 Material (wire) Curve, barre Basision (core) 0.15 mm Consauction (core) 0.4 15 mm (multi-stread wire dasa 6) Climaters (wire 3 (core) 5 - 1.5 mm² AVX similar to AVX 0.10 Material (wire isolation) PP Material (wire isolation) PP Material (wire isolation) PP Material (wire isolation) So 15 D Wire G (ed.) isolation 2.3 m ± 5% Coloriumbering of wire isolation 2.0 m ± 5% Coloriumbering of wires 0.0 b.b. bl. wb. br. gr. nu	No./diameter of wires	5× 1.5 mm²
Sachet Cotor Disack Material (jacked) PUR (ULCSA)	Wire isolation	PP (br, wh, bl, bk, gr, num)
Material (jacket) PUR (ULCSA) Ouer 0 8.7 mm 55% Bend radius (mowing) 10 - ouer 0 Temperature range (flood) -5080 °C Temperature range (mobile) -2080 °C Cable Identification P04 Cable Identification P04 Cable (application) P04 Material (pixel) Cu vire, bare Resistor (core) max 13.3 (blue 120°C) Single wire of (core) 84 v 0.15 mm (multi-strand wire class 6) Diameter (core) 54 v 1.5 mm² AWC similar to AWG 16 Material (wire isolation) PP Material (vire isolation) PP CP , halogen-, cadmium., silicone- and lead-free Shore hardness (wire isolation) 60 ± 5 D Vire-2 (incl. isolation) 2.3 mm 55% Color-Immeding of wires bk, bl, wh, br, gr, nu	C-track properties	5 Mio.
Outer O 8.7 mm ±5% Band radius (mowing) 10x outer O Temperature range (kided) -50480 °C Temperature range (mobile) -20480 °C Cable Infection PO4 Cable Infection PO4 Cable Type 3 (PUB) Approval (cable) CURus (AWM Style 21223/10492) Cable Type 2 (PUB) Approval (cable) CU wire, bare Resistor (core) max. 13.3 Ω/mr (20 °C) Single wire Ø (core) 0.15 mm Resistor (core) 84 × 0.15 mm (multi-strand wire class 6) Diameter (core) 84 × 0.15 mm (multi-strand wire class 6) Diameter (core) 84 × 0.15 mm (multi-strand wire class 6) Diameter (core) 5 × 1.5 mm² AWG similar to AWG 16 Material property (wire isolation) CPC - halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 2 3 mm ±5% Color-humbering of wires bk, bl, wh, br, gr, num Stranding combination 5 wires wisted around central filler Shield no Material (pocket) PU	Jacket Color	black
Bend radius (moving)	Material (jacket)	PUR (UL/CSA)
Temperature range (fixed) -5080 °C Temperature range (mobile) -2080 °C Cable Identification P04 Cable (abile) 3 (PUR) Approval (cable) cURIUS (AWM-Style 21223/10492) Cable weight (pim) 129.80 Material (wire) Cu wire, bare Resistor (core) max. 13.3 Ω/km (20 °C) Single wire Ø (core) 0.15 mm Construction (core) 84 × 0.15 mm (multi-strand wire class 6) Diamoter (core) 5 * 1.5 mm² AWG simillar to AWG 16 Material property (wire isolation) PP Material property (wire isolation) CFC-, halogen-, cadmitum-, silicone- and lead-free Shore hardness (wire isolation) 60 ± 50 Wire-Ø Incl. isolation 2.3 mm ±5% Color/umbering of wires bb. bl. wh. br. gr. num Shanding ombination 5 wires twisted around central filler Shield no Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, bydrolysis and microbial resistant Shore hardness (jacket) 90 ± 5 A </td <td>Outer Ø</td> <td>8.7 mm ±5%</td>	Outer Ø	8.7 mm ±5%
Temperature range (mobile) 20480 °C Cabbie (danification) P04 Cabbie (shiffication) CWB Approval (cable) cURIN (AWM-Style 21223710492) Cabbie (vipe) cURIN (AWM-Style 21223710492) Cable (virie) curvie, bare Resistor (core) max. 13.3 (Mem (20 °C)) Single virie O (core) 0.15 mm Construction (core) 84 × 0.15 mm (multi-strand wire class 6) Diameter (core) 5 × 15 mm² AWG similar to AWG 16 Material (wire isolation) PP Material (wire isolation) PP Wire-O (incl. isolation) 2.3 mm ±5% Coloriumbering of viries bb, by, br, gr, num Shared ing combination 5 wires twisted around central filler Shield no Material (jacket) PUR Material (jacket) PUR Material property (jacket) 8.7 mm ±5% Color (jacket) 18 jacket <td>Bend radius (moving)</td> <td>10× outer Ø</td>	Bend radius (moving)	10× outer Ø
Cable identification P04 Cable Type 3 (PUR) Approval (cable) cURus (AMM-Style 21223/10492) Cable weight (gm) 129.80 Material (wire) Cu wire, bare Resistor (core) max. 13.3 (km (20 °C) Single wire of (core) 0.15 mm Construction (core) 84× 0.15 mm (multi-strand wire class 6) Diameter (core) 5 × 1.5 mm² AWG similar to AWG 16 Material (wire isolation) PP Material (property (wire isolation) CFC - halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 0.6 ± 5 D Vire-Si Incl. isolation 2.3 mm ±5% Colorinumbering of wires bk, bl, wh. br, gr, num Stranding combination 5 wires wised around contral filler Shield no Material (packet) PUR Material property (jacket) CFC - halogen-, cadmium-, silicone- and lead-free, mat, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) 90 ± 5 A Outer-Oj (jacket) 8.7 mm ±5% Color (jacket) </td <td>Temperature range (fixed)</td> <td>-50+80 °C</td>	Temperature range (fixed)	-50+80 °C
Cable Type 3 (PUR) Approval (cable) cURus (AWM-Style 21223/10492) Cable weight [gim] 129.80 Material (wire) Cu wire, bare Resistor (core) max. 13.8 Ω/km (20 °C) Single wire O (core) 0.15 mm Construction (core) 84 × 0.15 mm (multi-strand wire class 6) Diamoter (core) 5 × 1.5 mm² AWG similar to AWG 16 Material (wire isolation) PP Material (wire isolation) CPC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 60 ±5 D Wire-Q incl. isolation 2.3 mm ±5% Colorinumbering of wires bk, bl, wh, br, gr., num Stranding combination 5 wires bristled around central filler Shield no Material property (jackel) CPC-, halogen-, cadmium-, silicone- and lead-free, mait, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jackel) 90 ±5 A Cuter (Jackel) 90 ±5 A Cuter (Jackel) 90 ± 5 A Cuter (Jackel) black Color (Jackel) <td< td=""><td>Temperature range (mobile)</td><td>-20+80 °C</td></td<>	Temperature range (mobile)	-20+80 °C
Approval (cable) cUFus (AWM-Style 2123/10492) Cablo weight (g/m) 129,80 Material (wire) Cu wire, bare Resistor (core) max 13.3 Rkm (20 °C) Single wire Ø (core) 0.15 mm Construction (core) 84 × 0.15 mm (multi-strand wire class 6) Diameter (core) 5 × 1.5 mm² AWG similar to AWG 16 Material (wire isolation) PP Material (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 0.6 ± 5 D Wire-Ø Incl. isolation 2.3 mm ±5% Color/mumbering of wires 0.8 k, bi, wh. br. gr. num Shraid goombination 5 wires bristed around central filler Shield no Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant (jacket) Shield no Material property (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant (jacket) Short A (Jacket) 9.0 ± 6 Cutter Ø (jacket) 9.0 ± 6 Cutter Ø (jacket) <td>Cable identification</td> <td>P04</td>	Cable identification	P04
Cable weight [gim] 129,80 Material (wire) Cu wire, bare Resistor (core) max. 13,3 Ω/km (20 °C) Single wire Ø (core) 0.15 mm Construction (core) 84 × 0.15 mm (multi-atrand wire class 6) Diameter (core) 5 × 1.5 mm² AWG similar to AWG 16 Material (wire isolation) PP Material property (wire isolation) CPC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 60 ± 5 D Wire-Ø incl. isolation 2.3 mm ±5 % Color/humbering of wires bk, bl, wh, br, gr, num Stranding combination 5 wires twisted around central filler Shield no Material property (jacket) CPC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, briorlysis and microbial resistant Shore hardness (jacket) 90 ± 5 A Outer-Ø (jacket) 8.7 mm ±5 % Color (jacket) black Chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance fame retardant UL 1581 VWH / CSA FT1 / IEC 60332-1, IEC 60332-2.2	Cable Type	3 (PUR)
Material (wire) Cu wire, bare Resistor (core) max. 13.3 Mon (20 °C) Single wire O (core) 0.15 mm Construction (core) 84 v. 0.15 mm (multi-strand wire class 6) Diameter (core) 5 x. 1.5 mm² AWG similar to AWG 16 Material (wire isolation) PP Material property (wire isolation) CPC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 60 ±5 D Wire-O incl. isolation 2.3 mm ±5% Color/numbering of wires BK, bl., wh. br. gr., num Stranding combination 5 wires twisted around central filler Shore hardness (jacket) PUR Material (jacket) PUR Material property (jacket) CPC-, halogen-, cadmium-, silicone- and lead-free, mart, low-adhesion, machine easy to process, abrasion-resistant, tyloridysis and microbial resistant Shore hardness (jacket) 90 ±5 A Cuter-O (jacket) black Color (jacket) black Chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance fame retardant UL 1581 VWI / CSA FTI / IEC 60332-1, IEC 60332-2-2	Approval (cable)	cURus (AWM-Style 21223/10492)
Resistor (core) max. 13.3 M/m (20 °C) Single wire Ø (core) 0.15 mm Construction (core) 84 x 0.15 mm (multi-strand wire class 6) Diameter (core) 5 x 1.5 mm² AWG similar to AWG 16 Material (wire isolation) PP Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 60 ±5 D Wire-Ø incl. isolation 2.3 mm ±5% Color/numbering of wires bk, bl, wh, br. gr. num Stranding combination 5 wires twisted around central filler Shield no Material property (jacket) PUR 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 Outer-Ø (jacket) 8.7 mm ±5% Color (jacket) black Chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-2-1, IEC 60332-2-2 Nominal voltage 100 kV	Cable weight [g/m]	129,80
Single wire Ø (core) 0.15 mm Construction (core) 84 x 0.15 mm (multi-strand wire class 6) Diameter (core) 5 x 1.5 mm² AWG similar to AWG 16 Material property (wire isolation) PP Material property (wire isolation) 60 ±5 D Shore hardness (wire isolation) 2.3 mm ±5% Colorinumbering of wires bk, bl, wh, br, gr, num Stranding combination 5 wires twisted around central filler Shield no Material (jackef) PUR 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 Outer-Ø (jacket) 8.7 mm ±5% Color (jacket) black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2.2 Nominal voltage 100 kV Current load capacity to DIN VDE 0298-4 Temperature range (mobile) -2040 °C Bend radius (fixed)	Material (wire)	Cu wire, bare
Construction (core) 84 x 0.15 mm (multi-strand wire class 6) Diameter (core) 5 x 1.5 mm² AWG smillar to AWG 16 Material (wire isolation) PP Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 60 ±5 D Wire-Ø incl. isolation 2.3 mm ±5% Colorinumbering of wires bk, bl, wh, br, gr, num Stranding combination 5 wires twisted around central filler Shield no Material property (jacket) PUR Material property (jacket) PUR Material property (jacket) PUR Material property (jacket) 8.7 mm ±5% Outer-Ø (jacket) 8.7 mm ±5% Outer-Ø (jacket) black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 Nominal voltage 1000 V AC Test voltage 100 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50480 °C	Resistor (core)	max. 13.3 Ω /km (20 °C)
Diameter (core) 5x 1.5 mm² AWG similar to AWG 16 Material (wire isolation) PP Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 60 ± 5 D Wire-Ø incl. isolation 2.3 mm ±5% Color/numbering of wires Dk, bl, wh, br, gr, num Stranding combination 5 wires wisisted around central filler 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) 90 ± 5 A Outer-Ø (jacket) 8.7 mm ±5% Color (jacket) black Chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2.2 Nominal voltage 100 V AC Test voltage 10.0 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Bendr adulus (fixed) 7.5 × outer Ø Bend radius (fi	Single wire Ø (core)	0.15 mm
AWG similar to AWG 16 Material (wire isolation) PP Material property (wire isolation) CFC., halogen., cadmium., silicone- and lead-free Shore hardness (wire isolation) 60 ±5 D Wire-Ø incl. isolation 2.3 mm ±5% Color/humbering of wires bk, bl, wh, br, gr, num Stranding combination 5 wires twisted around central filler 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) 90 ±5 A Outer-Ø (jacket) 8.7 mm ±5% Color (jacket) black Chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 Nominal voltage 100 V AC Test voltage 10 LV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Emperature range (mobile) -20+80 °C<	Construction (core)	84× 0.15 mm (multi-strand wire class 6)
Material (wire isolation) PP Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 60 ±5 D Wire-Ø incl. isolation 2.3 mm ±5% Color/numbering of wires bk, bl, wh, br, gr, num Stranding combination 5 wires twisted around central filler Shield no Material (jacket) PUR 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 Culer (jacket) 8.7 mm ±5% Color (jacket) black Chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VWI / CSA FT1 / IEC 60332-1, IEC 60332-2-2 Nominal voltage 1000 V AC Test voltage 10.0 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 5 m/s² Traver	Diameter (core)	5× 1.5 mm²
Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 60 ±5 D Wire-Ø incl. isolation 2.3 mm ±5% Color/numbering of wires bk, bl, wh, br, gr, num Stranding combination 5 wires twisted around central filler Shield no Material (jacket) PUR 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 Cuter-Ø (jacket) 8.7 mm ±5% Color (jacket) black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 Nominal voltage 100 V AC Test voltage 10.0 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Temperature range (mobile) -20+80 °C Bend radius (fixed) 7.5× outer Ø Bend radius (fixed) 7.5× outer Ø Bend	AWG	similar to AWG 16
Shore hardness (wire isolation) 60 ±5 D Wire-Ø incl. isolation 2.3 mm ±5% Color/numbering of wires bk, bl., wh, br., gr., num Stranding combination 5 wires twisted around central filler Shield no Material property (jacket) PUR 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 Culor-Ø (jacket) 8.7 mm ±5% Color (jacket) black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 Nominal voltage 1000 V AC Test voltage 10.0 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50480 °C Temperature range (mobile) -20+80 °C Bend radius (moving) 10x outer Ø No. of bending cycles (C-track) max. 5 mios² Travel speed (C-track) max. 5 mios² Torsion stress <	Material (wire isolation)	PP
Wire-Ø incl. isolation 2.3 mm ±5% Color/numbering of wires bk, bl, wh, br, gr, num Stranding combination 5 wires twisted around central filler Shield no Material (jacket) PUR 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 Cuter-Ø (jacket) 8.7 mm ±5% Color (jacket) black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 Nominal voltage 1000 V AC Test voltage 10.0 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Temperature range (mobile) -20+80 °C Bend radius (fixed) 7.5× outer Ø No. of bending cycles (C-track) max. 5 m(orizontal) Traversing distance (C-track) max. 5 m (horizontal) Traversing distance (C-track) max. 5 m/s² Torsion stress<	Material property (wire isolation)	CFC-, halogen-, cadmium-, silicone- and lead-free
Color/humbering of wires bk, bl, wh, br, gr, num Stranding combination 5 wires twisted around central filler Shield no Material (jacket) PUR 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 Outer-Ø (jacket) 8.7 mm ±5%. Color (jacket) black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 Nominal voltage 10.0 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Temperature range (mobile) -20+80 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 5 m (horizontal) Travel speed (C-track) max. 5 m/s² Tosion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	Shore hardness (wire isolation)	60 ±5 D
Stranding combination 5 wires twisted around central filler Shield no Material (jacket) PUR 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 Outer-Ø (jacket) 8.7 mm ±5% Color (jacket) black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 Nominal voltage 100 V AC Test voltage 10.0 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Temperature range (mobile) -20+80 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 5 Mio. (25 °C) Traversing distance (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	Wire-Ø incl. isolation	2.3 mm ±5%
Shield no Material (jacket) PUR 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 Outer-Ø (jacket) 8.7 mm ±5% Color (jacket) black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 Nominal voltage 1000 V AC Test voltage 10.0 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Temperature range (mobile) -20+80 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 5 Mio. (25 °C) Traversing distance (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	Color/numbering of wires	bk, bl, wh, br, gr, num
Material (jacket) PUR 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 Outer-Ø (jacket) 8.7 mm ±5% Color (jacket) black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 Nominal voltage 1000 V AC Test voltage 10.0 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Temperature range (mobile) -20+80 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 5 Mio. (25 °C) Traversing distance (C-track) max. 5 m (horizontal) Travel speed (C-track) max. 3 m/s Acceleration (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	Stranding combination	5 wires twisted around central filler
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 Outer-Ø (jacket) 8.7 mm ±5% Color (jacket) black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 Nominal voltage 1000 V AC Test voltage 10.0 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Temperature range (mobile) -20+80 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 5 Mio. (25 °C) Traversing distance (C-track) max. 5 m/s² Torsion stress ±180 °M No. of torsion cycles max. 2 Mio. (25 °C)	Shield	no
resistant, hydrolysis and microbial resistant Shore hardness (jacket) 90 ±5 A Outer-Ø (jacket) 8.7 mm ±5% Color (jacket) black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 Nominal voltage 10.0 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Temperature range (mobile) -20+80 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 5 Mio. (25 °C) Traversing distance (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	Material (jacket)	PUR
Outer-Ø (jacket) 8.7 mm ±5% Color (jacket) black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 Nominal voltage 1000 V AC Test voltage 10.0 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Temperature range (mobile) -20+80 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 5 Mio. (25 °C) Traversing distance (C-track) max. 5 m (horizontal) Travel speed (C-track) max. 3.3 m/s Acceleration (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of forsion cycles max. 2 Mio. (25 °C)	Material property (jacket)	
Color (jacket) black chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 Nominal voltage 1000 V AC Test voltage 10.0 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Temperature range (mobile) -20+80 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 5 Mio. (25 °C) Traversing distance (C-track) max. 3 m/s Acceleration (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	Shore hardness (jacket)	90 ±5 A
chemical resistance good resistance to oil, gasoline and chemicals (EN 60811-404) thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 Nominal voltage 10.0 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Temperature range (mobile) -20+80 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 5 Mio. (25 °C) Traversing distance (C-track) max. 3 m/s Acceleration (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of forsion cycles (max. 2 Mio. (25 °C)	Outer-Ø (jacket)	8.7 mm ±5%
thermal resistance flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 Nominal voltage 10.00 V AC Test voltage 10.0 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Temperature range (mobile) -20+80 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 5 Mio. (25 °C) Traversing distance (C-track) max. 5 m (horizontal) Travel speed (C-track) max. 3 m/s Acceleration (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	Color (jacket)	black
Nominal voltage 1000 V AC Test voltage 10.0 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Temperature range (mobile) -20+80 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 5 Mio. (25 °C) Traversing distance (C-track) max. 5 m (horizontal) Travel speed (C-track) max. 3.3 m/s Acceleration (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	chemical resistance	good resistance to oil, gasoline and chemicals (EN 60811-404)
Test voltage 10.0 kV Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Temperature range (mobile) -20+80 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 5 Mio. (25 °C) Traversing distance (C-track) max. 5 m (horizontal) Travel speed (C-track) max. 5 m/s² Acceleration (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	thermal resistance	flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2
Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -50+80 °C Temperature range (mobile) -20+80 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 5 Mio. (25 °C) Traversing distance (C-track) max. 5 m (horizontal) Travel speed (C-track) max. 3.3 m/s Acceleration (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	Nominal voltage	1000 V AC
Temperature range (fixed) -50+80 °C Temperature range (mobile) -20+80 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 5 Mio. (25 °C) Traversing distance (C-track) max. 5 m (horizontal) Travel speed (C-track) max. 3.3 m/s Acceleration (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	Test voltage	10.0 kV
Temperature range (mobile) -20+80 °C Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 5 Mio. (25 °C) Traversing distance (C-track) max. 5 m (horizontal) Travel speed (C-track) max. 3 m/s Acceleration (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	Current load capacity	to DIN VDE 0298-4
Bend radius (fixed) 7.5× outer Ø Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) Traversing distance (C-track) max. 5 Mio. (25 °C) Travel speed (C-track) max. 3.3 m/s Acceleration (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	Temperature range (fixed)	-50+80 °C
Bend radius (moving) 10× outer Ø No. of bending cycles (C-track) max. 5 Mio. (25 °C) Traversing distance (C-track) max. 5 m (horizontal) Travel speed (C-track) max. 3.3 m/s Acceleration (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	Temperature range (mobile)	-20+80 °C
No. of bending cycles (C-track) Traversing distance (C-track) max. 5 Mio. (25 °C) Travel speed (C-track) max. 3.3 m/s Acceleration (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	Bend radius (fixed)	7.5× outer Ø
Traversing distance (C-track) max. 5 m (horizontal) Travel speed (C-track) max. 3.3 m/s Acceleration (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	Bend radius (moving)	10× outer Ø
Travel speed (C-track) max. 3.3 m/s Acceleration (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	No. of bending cycles (C-track)	max. 5 Mio. (25 °C)
Acceleration (C-track) max. 5 m/s² Torsion stress ±180 °/m No. of torsion cycles max. 2 Mio. (25 °C)	Traversing distance (C-track)	max. 5 m (horizontal)
Torsion stress ±180°/m No. of torsion cycles max. 2 Mio. (25 °C)	Travel speed (C-track)	max. 3.3 m/s
No. of torsion cycles max. 2 Mio. (25 °C)	Acceleration (C-track)	max. 5 m/s ²
	Torsion stress	±180°/m
Torsion speed 35 cycles/min	No. of torsion cycles	max. 2 Mio. (25 °C)
·	Torsion speed	35 cycles/min
Technical Data	Technical Data	



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Operating voltage	max. 63 V AC/DC
Rated surge voltage	1.5 kV
Operating current per contact	max. 16 A
Material group	IEC 60664-1, category I
Coding	L-coded
Locking of ports	Screw thread (M12×1 mm) recommended torque 0.6 Nm, self-securing
Compression gland	M12 (SW17)
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)
Locking material	Zinc die casting, matte nickel plated
Material	PUR
suitable for corrugated tube (internal \emptyset)	12 mm
Commercial data	
country of origin	DE
customs tariff number	85444290
EAN	4048879742375
eClass	27279218
Packaging unit	1
Sketch	





Product may differ from Image