

#### M8 female 90° A-cod. with cable LED

PUR 3x0.34 gy UL/CSA+drag ch. 2m

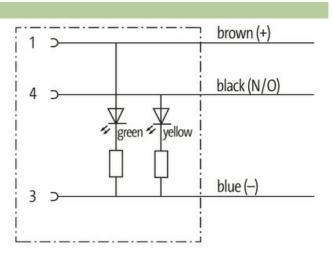
Female 90° M8, 3-pole 2× LED (PNP) with cable sleeves

Plastic housings with good resistance against chemicals and oils.

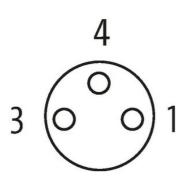
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

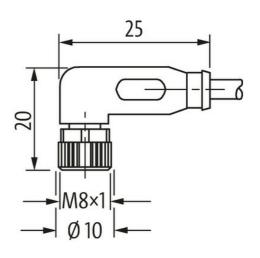
### **Link to Product**

# Illustration



## **Female**





Product may differ from Image





\* only for products with UL/CSA approved cable

### Form

08121 Form

**Technical Data** 

Operating voltage 24 V DC ±25%

The information in this brochure has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 03/22



Locking of Jords	Operating current per contact	max. 4 A
Lacking material	Locking of ports	Screw thread (M8×1 mm) recommended torque 0.4 Nm, self-securing
Cable inflication         233           Cable inflication         233           Cable Type         3 (PUR)           Approval (cable)         CURus (AWM-Style 205491043); CE conform           Cable weight [grm]         29.7 g           Material (wire)         Cu wire, bare           Besistor (core)         max. 57 (JWm (20°C)           Single wire (Ocre)         0.1 mm           Construction (core)         42 × 0.1 mm (multi-strand wire class 6)           Dameter (core)         3 × 0.34 mm²           AWC         similar to AWG 22           Material (wire isolation)         PP           Material property (wire solation)         PF           Material property (wire solation)         70 ± 5 D           Wire-Q and isolation         1.25 mm ±5%           Colorchumbering of wires         br, bk, bl           Stranding combination         3 vires twisted           Sheld         no           Material property (yackst)         CFC: halogen:, cadmium:, silicone- and lead-free, mail, low-adhesion, machine easy to process, abrasion-tresistant; hydrolysis and microbal resistant           Shore hardness (jacket)         PUR           Material property (yackst)         CFC: halogen:, cadmium:, silicone- and lead-free, mail, low-adhesion, machine easy to process, abrasion-tresistant	Protection	IP66K, IP67 inserted and tightened (EN 60529)
Cable (identification         233           Cable Type         3 (PUR)           Approval (cable)         cURIS (AWM-Style 2054910493); CE conform           Cable Type         Curwire, bare           Cable weight (girr)         29.7 g           Material (wire)         Curwire, bare           Resistor (core)         max. 57 (2km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         3x 0.34 mm²           AWG         similar to AWG 22           Material (wire isolation)         PP           Material property (wire isolation)         PP CFC, halogen-, cadmium-, sillicone- and lead-free           Shore hardness (wire isolation)         70 ±5 D           Wire-Ø Ind.: isolation         1.25 mm ±5%           Colorrumbering of wires         br, lisk, bl           Shrading combination         3 wires twisted           Shield         no           Material property (jacket)         PUR           Material property (jacket)         PUR           Shore hardness (jackete)         90 ±5 A           Outer-Ø (jackete)         4.1 mm ±5%           Color (jackete)         4.1 mm ±5%           Color (jackete)         4.1 mm ±5%           Color (jackete)         700 × C	Locking material	Zinc die casting, nickel-plated
Cable Type         3 (PUR)           Approval (cable)         cURus (AWM-Style 20549/10493); CE conform           Cable weight (gm)         29.7 g           Material (wire)         Cu wire, bare           Resistor (core)         max. 57 Dkm (20°C)           Single wire O (core)         0.1 mm           Construction (core)         420.1 mm (multi-strand wire class 6)           Diameter (core)         3* 0.34 mm²           AWG         aminist to AWG 22           Material (wire isolation)         PP           Material (wire isolation)         PP           Wire-O Inct. solation         1.25 mm ±5%           Coloriumbering of wires         br. Nb. 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 trybridysis and microbial resistant           Material property (jacket)         PUR           Material property (jacket)         90.5 A           Outer-O (jacket)         4.1 mm ±5%           Cotor (jacket)         91.2 Mm           Chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           Thermal resistance         frame returdand UL,	Cables	
Approval (cable)         CURus (AWM-Style 20549/10493); CE conform           Cable weight [g/m]         29.7 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 (wire isolation)         PP           Material property (wire isolation)         CFC- halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         70 ± 5 D           Wire Ø Incl. isolation         1.25 mm ±5%           Coloriumbering of wires         br. bk, bl           Shred         no           Material (jacket)         PUR           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 resistance           Shore hardness (jacket)         90 ± 5 A           Culter-Ø (jacket)         4.1 mm ±5%           Color (jacket)         4.1 mm ±5%           Color (jacket)         90 ± 5 A           Color (jacket)         90 ± 5 A <td>Cable identification</td> <td>233</td>	Cable identification	233
Cable weight (g/m)         29.7 g           Material (wire)         Cu wire, bare           Resistor (core)         max. 57 0/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42 x 0.1 mm (multi-shand wire class 6)           Diameter (core)         3 x 0.34 mm²           AWG         similar to AWG 22           Material (wire isolation)         PP           Material property (wire isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         125 mm ±5%           Colonnumbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Sheld         no           Material (jacket)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, mait, low-adhesion, machine easy to process, abrasion-resistant, lyothoysis and microbial resistant           Material property (jacket)         PUR           Material property (jacket)         QFC-, halogen-, cadmium-, silicone- and lead-free, mait, low-adhesion, machine easy to process, abrasion-resistant, lyothoysis and microbial resistant           Material property (jacket)         90.55 A           Material property (jacket)         90.55 M           Material property (jacket)         90.55 M	Cable Type	3 (PUR)
Material (wire)         Cu wire, bare           Resistor (core)         max. 57 Ωkm (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)         PP           Material property (wire isolation)         70±5 D           Wire-2 incl. isolation         1,25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wises twisted           Sheld         no           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, pratrolysis and microbial resistant           Shore hardness (jacket)         PUR           Allerial property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, pratrolysis and microbial resistant           Shore hardness (jacket)         90 ±5 A           Outer Ø (jacket)         4.1 mm ±5%           Cotor (jacket)         gray           Chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           Ithermal resistance         flame retardand UL 1581 Section 1090 (	Approval (cable)	cURus (AWM-Style 20549/10493); CE conform
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)         3 × 0.34 mm²           AWG         similar to AWG 22           Material (vier isolation)         PP           Material property (wire isolation)         CFC, halogen, cadmium, silicone- and lead-free           Shore hardness (wire isolation)         70 ± 5 D           Wire-Ø Ind. isolation         1.25 mm ±5%           Color/inumbering of wires         br. bk, bl           Stranding combination         3 wires twisted           Streading combination         3 wires twisted           Streading combination         9 0 ± 5 A           Material property (jackel)         CFC-, halogen-, cadmium-, silicone- and lead-free, mat, low-adhesion, machine easy to process, abrasion-resistance (jacket)           Material property (jackel)         PUR           Material property (jackel)         CFC-, halogen-, cadmium-, silicone- and lead-free, mat, low-adhesion, machine easy to process, abrasion-resistance (jacket)           Material property (jacket)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free           Material property (jacket)         CFC-, halogen-, cadmium-, silicone- and lead-free	Cable weight [g/m]	29,7 g
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)         PP           Material property (wire isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         7.0 ± 5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Coloriumbering of wires         bb, bb           Stranding combination         3 wires twisted           Shord         no           Material (jocket)         PUR           Material property (jacket)         CFC-, halogen-, cadmium-, ellicone- and lead-free, mat, low-adhesion, machine easy to process, abrasion-resistant property (jacket)           Shore hardness (jacket)         PUR           Material property (jacket)         4.1 mm ±5%           Color (jacket)         4.1 mm ±5%           Color (jacket)         4.1 mm ±5%           Color (jacket)         gray           Color (jacket)         9.0 ± A           Outer-Ø (jacket)         4.1 mm ±5%           Color (jacket)         9.0 ± A           Outer-Ø (jacket)         4.1 mm ±5%           Color (jacket)	Material (wire)	Cu wire, bare
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)         PP           Material property (wire isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         70 ±5 D           Wire-O incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shoild         no           Material property (jacket)         PUR           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           Color (jacket)         41 mm ±5%           Color (jacket)         41 mm ±5%           Color (jacket)         gray           chemical resistance         glame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2           Nominal voltage         300 V AC           Current load capacity         to DIN VDE 0294-4           Temperature range (fixed)         4080 °C, (+90 °C at max. 10 000 operating hours)           Temperature range (fixed)         4080 °C, (+90 °C at max. 10 000 ope	Resistor (core)	max. 57 Ω/km (20 °C)
Diameter (core)         3 x 0.34 mm²           AWG         similar to AWG 22           Material (wire isolation)         PP           Material property (wire isolation)         CPC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         70 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Colorizumbering of wires         br. jbk, lb           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, sprothysis and microbial resistant           Shore hardness (jacket)         90 ±5 A           Outer-Ø (jacket)         4.1 mm ±5%           Color (jacket)         gray           chemical resistance         goad resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2           Nominal voltage         300 V AC           Test voltage         2500 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -40+80 °C, (+90 °C at max. 10 000 operating hours)           Bend radius (fixed)         5 vouter Ø           Bend radius (	Single wire Ø (core)	0.1 mm
AWG         similar to AWG 22           Material (wire isolation)         PP           Material (wire isolation)         CFC-, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         70 ±5 D           Wire-0 incl. Isolation         1.25 mm ±5%           Cotor/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Sheld         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           Shee hardness (jacket)         90 ±5 A           Outer-0 (jacket)         4.1 mm ±5%           Color (jacket)         gray           chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2           Nominal voltage         300 V AC           Test voltage         2500 V AC           Current load capacity         10 IN VDE 0288-4           Temperature range (fixed)         -40+80 °C, (+90 °C at max. 10 000 operating hours)           Temperature range (mobile)         -25+80 °C, (+90 °C at max. 10 000 operating hours)      <	Construction (core)	42× 0.1 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)         70 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Colorinumbering of wires         br, bk, bl           Stranding combination         3 wires twisted           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)         4.1 mm ±5%           Color (jacket)         4.1 mm ±5%           Color (jacket)         good resistance of good resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2           Nominal voltage         300 V AC           Test voltage         2500 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (mobile)         -25+80 °C, (+90 °C at max. 10 000 operating hours)           Bend radius (fixed)         5× outer Ø           Bend radius (fixed)         max. 10 m/s²           Travel speed (C-track)         max. 10 m/s²	Diameter (core)	3× 0.34 mm²
Material property (wire isolation)         CFC, halogen-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         70 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Colorinumbering of wires         br. Nk. N           Stranding combination         3 wires twisted           Sheld         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           Culter-Ø (jacket)         4.1 mm ±5%           Color (jacket)         gray           chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardand UL 1581 Section 1090 (H), CSA FTZ / IEC 60332-2-2           Nominal voltage         300 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         40+80 °C, (+90 °C at max. 10 000 operating hours)           Temperature range (mobile)         -25+80 °C, (+90 °C at max. 10 000 operating hours)           Bend radius (fixed)         5× outer Ø           Bend radius (moving)         10x outer Ø           No. of bending cycles (C-track)	AWG	similar to AWG 22
Shore hardness (wire isolation)         70 ± 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 jorcept (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           Culorer (jacket)         gray           Color (jacket)         gray           Chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2           Nominal voltage         300 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -40+80 °C, (+90 °C at max. 10 000 operating hours)           Temperature range (mobile)         -25+80 °C, (+90 °C at max. 10 000 operating hours)           Bend radius (fixed)         5× outer Ø           Bend radius (fixed)         5× outer Ø           Bend radius (fixed)         max. 10 Mio. (25 °C)           Travel speed (O-track)         max. 10 Mio. (25 °C)	Material (wire isolation)	PP
Shore hardness (wire isolation)         70 ± 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 jorcept (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           Culorer (jacket)         gray           Color (jacket)         gray           Chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2           Nominal voltage         300 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -40+80 °C, (+90 °C at max. 10 000 operating hours)           Temperature range (mobile)         -25+80 °C, (+90 °C at max. 10 000 operating hours)           Bend radius (fixed)         5× outer Ø           Bend radius (fixed)         5× outer Ø           Bend radius (fixed)         max. 10 Mio. (25 °C)           Travel speed (O-track)         max. 10 Mio. (25 °C)	Material property (wire isolation)	CFC-, halogen-, cadmium-, silicone- and lead-free
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           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)         4.1 mm ±5%           Color (jacket)         gray           Chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2           Nominal voltage         300 V AC           Test voltage         2500 V AC           Current load capacity         to DIN VDE 2084-4           Temperature range (fixed)         40+80 °C, (+90 °C at max. 10 000 operating hours)           Temperature range (mobile)         -25+80 °C, (+90 °C at max. 10 000 operating hours)           Bend radius (moving)         10 × outer Ø           No. of bending cycles (C-track)         max. 10 m/s²           Torsion stress         ±180 ′m           No. of torsion cycles         max. 2 Mio. (25 °C)           Tors		<del>-</del>
Stranding combination         3 wires twisted           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)         4.1 mm ±5%           Color (jacket)         gray           chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2           Nominal voltage         300 V AC           Test voltage         2500 V AG           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         40+80 °C, (+90 °C at max. 10 000 operating hours)           Temperature range (mobile)         -25+80 °C, (+90 °C at max. 10 000 operating hours)           Bend radius (fixed)         5 × outer Ø           Bend radius (moving)         10 x outer Ø           No. of bending cycles (C-track)         max. 10 Mio. (25 °C)           Travel speed (C-track)         max. 10 m/s²           Torsion speed         35 cycles/min           Country of origin         DE           Customs tariff		1.25 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)         4.1 mm ±5%           Color (jacket)         gray           chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2           Nominal voltage         300 V AC           Test voltage         2500 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -40+80 °C, (+90 °C at max. 10 000 operating hours)           Temperature range (mobile)         -25+80 °C, (+90 °C at max. 10 000 operating hours)           Bend radius (fixed)         5× outer Ø           Bend radius (moving)         10× outer Ø           No. of bending cycles (C-track)         max. 10 Mio. (25 °C)           Travel speed (C-track)         max. 10 Mio. (25 °C)           Travel speed (C-track)         max. 10 Mio. (25 °C)           Torsion stress         ±180 °/m           No. of torsion cycles         max. 2 Mio. (25 °C) <t< td=""><td>Color/numbering of wires</td><td>br, bk, bl</td></t<>	Color/numbering of wires	br, bk, bl
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)         4.1 mm ±5%           Color (jacket)         gray           chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2           Nominal voltage         300 V AC           Test voltage         2500 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -40+80 °C, (+90 °C at max. 10 000 operating hours)           Temperature range (mobile)         -25+80 °C, (+90 °C at max. 10 000 operating hours)           Bend radius (fixed)         5× outer Ø           Bend radius (moving)         10× outer Ø           No. of bending cycles (C-track)         max. 10 Mio. (25 °C)           Travel speed (C-track)         max. 10 Mio. (25 °C)           Travel speed (C-track)         max. 10 Mio. (25 °C)           Torsion stress         ±180 °/m           No. of torsion cycles         max. 2 Mio. (25 °C) <t< td=""><td>Stranding combination</td><td>3 wires twisted</td></t<>	Stranding combination	3 wires twisted
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)         4.1 mm ±5%           Color (jacket)         gray           chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardand UL 1581 Section 1090 (H), CSA FTZ / IEC 60332-2-2           Nominal voltage         300 V AC           Test voltage         2500 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -40+80 °C, (+90 °C at max. 10 000 operating hours)           Temperature range (mobile)         -25+80 °C, (+90 °C at max. 10 000 operating hours)           Bend radius (fixed)         5x outer Ø           Bend radius (moving)         10x outer Ø           No. of bending cycles (C-track)         max. 10 Mio. (25 °C)           Travel speed (C-track)         max. 3 m/s           Acceleration (C-track)         max. 2 Mio. (25 °C)           Torsion stress         ±180°/m           No. of torsion cycles         max. 2 Mio. (25 °C)           Torsion speed         35 cycles/min	·	no
Material property (jacket)  Shore hardness (jacket)  Outer-Ø (jacket)  Outer-Ø (jacket)  Outer-Ø (jacket)  Outer-Ø (jacket)  Color (jacket)  Outer-Ø (jacket	Material (iacket)	
Outer-Ø (jacket)         4.1 mm ±5%           Color (jacket)         gray           chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2           Nominal voltage         300 V AC           Test voltage         2500 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -40+80 °C, (+90 °C at max. 10 000 operating hours)           Temperature range (mobile)         -25+80 °C, (+90 °C at max. 10 000 operating hours)           Bend radius (fixed)         5× outer Ø           Bend radius (moving)         10× outer Ø           No. of bending cycles (C-track)         max. 10 Mio. (25 °C)           Travel speed (C-track)         max. 3 m/s           Acceleration (C-track)         max. 10 m/s²           Torsion stress         ±180°/m           No. of torsion cycles         max. 2 Mio. (25 °C)           Torsion speed         35 cycles/min           Commercial data         country of origin         DE           customs tariff number         85444290           EAN         4048879085335           eClass         27279218	Material property (jacket)	
Color (jacket)         gray           chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2           Nominal voltage         300 V AC           Test voltage         2500 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -40+80 °C, (+90 °C at max. 10 000 operating hours)           Temperature range (mobile)         -25+80 °C, (+90 °C at max. 10 000 operating hours)           Bend radius (fixed)         5× outer Ø           Bend radius (moving)         10× outer Ø           No. of bending cycles (C-track)         max. 10 Mio. (25 °C)           Travel speed (C-track)         max. 10 m/s²           Acceleration (C-track)         max. 10 m/s²           Torsion stress         ±180°/m           No. of torsion cycles         max. 2 Mio. (25 °C)           Torsion speed         35 cycles/min           Commercial data           country of origin         DE           customs tariff number         85444290           EAN         4048879085335           eClass         27279218	Shore hardness (jacket)	90 ±5 A
chemical resistance         good resistance to oil, gasoline and chemicals (EN 60811-404)           thermal resistance         flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2           Nominal voltage         300 V AC           Test voltage         2500 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -40+80 °C, (+90 °C at max. 10 000 operating hours)           Temperature range (mobile)         -25+80 °C, (+90 °C at max. 10 000 operating hours)           Bend radius (fixed)         5× outer Ø           Bend radius (moving)         10× outer Ø           No. of bending cycles (C-track)         max. 10 Mio. (25 °C)           Travel speed (C-track)         max. 3 m/s           Acceleration (C-track)         max. 10 m/s²           Torsion stress         ±180°/m           No. of torsion cycles         max. 2 Mio. (25 °C)           Torsion speed         35 cycles/min           Commercial data           country of origin         DE           customs tariff number         85444290           EAN         4048879085335           eClass         27279218	Outer-Ø (jacket)	4.1 mm ±5%
thermal resistance flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2  Nominal voltage 300 V AC  Test voltage 2500 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -40+80 °C, (+90 °C at max. 10 000 operating hours)  Temperature range (mobile) -25+80 °C, (+90 °C at max. 10 000 operating hours)  Bend radius (fixed) 5× outer Ø  Bend radius (moving) 10× outer Ø  No. of bending cycles (C-track) max. 10 Mio. (25 °C)  Travel speed (C-track) max. 3 m/s  Acceleration (C-track) max. 10 m/s²  Torsion stress ±180°/m  No. of torsion cycles max. 2 Mio. (25 °C)  Torsion speed 35 cycles/min  Commercial data  country of origin DE  customs tariff number 85444290  EAN 4048879085335  eClass 27279218	Color (jacket)	gray
Nominal voltage         300 V AC           Test voltage         2500 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -40+80 °C, (+90 °C at max. 10 000 operating hours)           Temperature range (mobile)         -25+80 °C, (+90 °C at max. 10 000 operating hours)           Bend radius (fixed)         5× outer Ø           Bend radius (moving)         10× outer Ø           No. of bending cycles (C-track)         max. 10 Mio. (25 °C)           Travel speed (C-track)         max. 3 m/s           Acceleration (C-track)         max. 10 m/s²           Torsion stress         ±180 °m           No. of torsion cycles         max. 2 Mio. (25 °C)           Torsion speed         35 cycles/min           Commercial data         country of origin         DE           customs tariff number         85444290           EAN         4048879085335           eClass         27279218	chemical resistance	good resistance to oil, gasoline and chemicals (EN 60811-404)
Test voltage         2500 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -40+80 °C, (+90 °C at max. 10 000 operating hours)           Temperature range (mobile)         -25+80 °C, (+90 °C at max. 10 000 operating hours)           Bend radius (fixed)         5× outer Ø           Bend radius (moving)         10× outer Ø           No. of bending cycles (C-track)         max. 10 Mio. (25 °C)           Travel speed (C-track)         max. 3 m/s           Acceleration (C-track)         max. 10 m/s²           Torsion stress         ±180°/m           No. of torsion cycles         max. 2 Mio. (25 °C)           Torsion speed         35 cycles/min           Commercial data         country of origin         DE           customs tariff number         85444290           EAN         4048879085335           eClass         27279218	thermal resistance	flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2
Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -40+80 °C, (+90 °C at max. 10 000 operating hours)  Temperature range (mobile) -25+80 °C, (+90 °C at max. 10 000 operating hours)  Bend radius (fixed) 5× outer Ø  Bend radius (moving) 10× outer Ø  No. of bending cycles (C-track) max. 10 Mio. (25 °C)  Travel speed (C-track) max. 3 m/s  Acceleration (C-track) max. 10 m/s²  Torsion stress ±180°/m  No. of torsion cycles max. 2 Mio. (25 °C)  Torsion speed 35 cycles/min  Commercial data  country of origin DE  customs tariff number 85444290  EAN 4048879085335  eClass 27279218	Nominal voltage	300 V AC
Temperature range (fixed) -40+80 °C, (+90 °C at max. 10 000 operating hours)  Temperature range (mobile) -25+80 °C, (+90 °C at max. 10 000 operating hours)  Bend radius (fixed) 5× outer Ø  Bend radius (moving) 10× outer Ø  No. of bending cycles (C-track) max. 10 Mio. (25 °C)  Travel speed (C-track) max. 3 m/s  Acceleration (C-track) max. 10 m/s²  Torsion stress ±180°/m  No. of torsion cycles max. 2 Mio. (25 °C)  Torsion speed 35 cycles/min  Commercial data  country of origin DE customs tariff number 85444290  EAN 4048879085335 eClass 27279218	Test voltage	2500 V AC
Temperature range (mobile) -25+80 °C, (+90 °C at max. 10 000 operating hours)  Bend radius (fixed) 5× outer Ø  Bend radius (moving) 10× outer Ø  No. of bending cycles (C-track) max. 10 Mio. (25 °C)  Travel speed (C-track) max. 3 m/s  Acceleration (C-track) max. 10 m/s²  Torsion stress ±180°/m  No. of torsion cycles max. 2 Mio. (25 °C)  Torsion speed 35 cycles/min  Commercial data  country of origin DE customs tariff number 85444290  EAN 4048879085335 eClass 27279218	Current load capacity	to DIN VDE 0298-4
Bend radius (fixed)         5× outer Ø           Bend radius (moving)         10× outer Ø           No. of bending cycles (C-track)         max. 10 Mio. (25 °C)           Travel speed (C-track)         max. 3 m/s           Acceleration (C-track)         max. 10 m/s²           Torsion stress         ±180°/m           No. of torsion cycles         max. 2 Mio. (25 °C)           Torsion speed         35 cycles/min           Commercial data         country of origin           customs tariff number         85444290           EAN         4048879085335           eClass         27279218	Temperature range (fixed)	-40+80 °C, (+90 °C at max. 10 000 operating hours)
Bend radius (moving) 10× outer Ø  No. of bending cycles (C-track) max. 10 Mio. (25 °C)  Travel speed (C-track) max. 3 m/s  Acceleration (C-track) max. 10 m/s²  Torsion stress ±180°/m  No. of torsion cycles max. 2 Mio. (25 °C)  Torsion speed 35 cycles/min  Commercial data  country of origin DE  customs tariff number 85444290  EAN 4048879085335  eClass 27279218	Temperature range (mobile)	-25+80 °C, (+90 °C at max. 10 000 operating hours)
No. of bending cycles (C-track) max. 10 Mio. (25 °C)  Travel speed (C-track) max. 3 m/s  Acceleration (C-track) max. 10 m/s²  Torsion stress ±180°/m  No. of torsion cycles max. 2 Mio. (25 °C)  Torsion speed 35 cycles/min  Commercial data  country of origin DE  customs tariff number 85444290  EAN 4048879085335  eClass 27279218	Bend radius (fixed)	5× outer Ø
Travel speed (C-track)         max. 3 m/s           Acceleration (C-track)         max. 10 m/s²           Torsion stress         ±180°/m           No. of torsion cycles         max. 2 Mio. (25 °C)           Torsion speed         35 cycles/min           Commercial data         country of origin           customs tariff number         85444290           EAN         4048879085335           eClass         27279218	Bend radius (moving)	10× outer Ø
Acceleration (C-track)         max. 10 m/s²           Torsion stress         ±180°/m           No. of torsion cycles         max. 2 Mio. (25 °C)           Torsion speed         35 cycles/min           Commercial data         DE           country of origin         DE           customs tariff number         85444290           EAN         4048879085335           eClass         27279218	No. of bending cycles (C-track)	max. 10 Mio. (25 °C)
Torsion stress         ±180°/m           No. of torsion cycles         max. 2 Mio. (25 °C)           Torsion speed         35 cycles/min           Commercial data         DE           country of origin         DE           customs tariff number         85444290           EAN         4048879085335           eClass         27279218	Travel speed (C-track)	max. 3 m/s
No. of torsion cycles         max. 2 Mio. (25 °C)           Torsion speed         35 cycles/min           Commercial data           country of origin         DE           customs tariff number         85444290           EAN         4048879085335           eClass         27279218	Acceleration (C-track)	max. 10 m/s <sup>2</sup>
Torsion speed         35 cycles/min           Commercial data           country of origin         DE           customs tariff number         85444290           EAN         4048879085335           eClass         27279218	Torsion stress	±180°/m
Commercial data           country of origin         DE           customs tariff number         85444290           EAN         4048879085335           eClass         27279218	No. of torsion cycles	max. 2 Mio. (25 °C)
country of origin         DE           customs tariff number         85444290           EAN         4048879085335           eClass         27279218	Torsion speed	35 cycles/min
customs tariff number         85444290           EAN         4048879085335           eClass         27279218	Commercial data	
EAN 4048879085335 eClass 27279218	country of origin	DE
eClass 27279218	customs tariff number	85444290
	EAN	4048879085335
Packaging unit 1.000	eClass	27279218
	Packaging unit	1.000