

M12 male 90° A-cod. with cable shielded

PUR 5x0.34 shielded bk UL/CSA+drag ch. 1.5m

Male 90° M12, 5-pole shielded A-coded

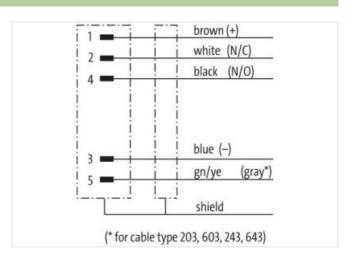
Plastic housings with good resistance against chemicals and oils.

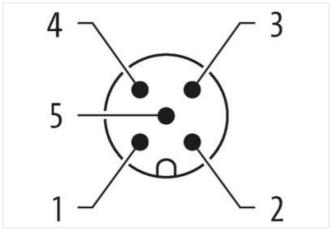
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

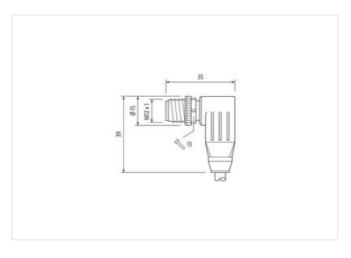
Link to Product

Illustration









Product may differ from Image













Cable length

1,5 m

Side 1

Tightening torque 0,6

0,6 Nm



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Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Coding	A
Material contact	Copper alloy
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Coating contact	gold plated
Commercial data	300 p.m.00
ECLASS-6.0	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	4048879543453
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Installation Connection	
Mounting set	M12 x 1
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	l l
Mechanical data Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting Zinc die-casting
Mechanical data Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
	Coponioning on outline quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.

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: 2024-04-28



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Installation Cable Cable Identification 642 Cable Identification 642 Liebted Coder District Property of Certificate CUPUs Current Ioal Capital Capital Capital Capital Capital Capital Capital Capit	Conformity	
Cable Imperitionation 842 Cable Type 3 Lake LG Golor black Type of Cartification cVRus Amount stranding 1 Stranding 5 wies around Core filler twisted Cable shielding (type) copper brack, finned Cable Weight Fig. 2 Filter yes wise arrangement brown, block, blue, white, green-yellow Cable weight 57.2 pm Material jocket PUR Freedom from ingredients (jacket) 58.8 mm Outer charmeter (jacket) 5.8 mm College Cable (jacket) 5.8 mm Outer charmeter (jacket) 5.5 mm Outer charmeter (jacket) 5.5 mm Outer charmeter (jacket) 5.5 mm Outer charmeter (jacket) 7.0 mm Outer charmeter (jacket) 7.0 mm	Product standard	DIN EN 61076-2-101 (M12)
Cable Type 3 Anchete Coder black Danceter Coder black Amount stranding 1 Swines around Core filter twisted Cable shielding (type) coper braid, finned Cable shielding (overrage) 80 % Branding Fleece, Foll Filter yes Branding Fleece, Foll Filter yes Authority and School Sc	Installation Cable	
Lackvot Coder	Cable identification	642
Lackvot Coder	Cable Type	3
Type of Certificate cUPus Amount stranding 1 Swires around Core filter twisted Cable shelding (type) Cable shelding (pype) Cable shelding (pype) Bending Fleece, Fol Fleece, F	Jacket Color	
Amount stranding 1 Stranding 5 wires around Core filler Invisted Cable shielding (type) copper braid, tinned Cable shielding (coverage) 89 % Bandring Fleece, Foll Filler yes Wire arrangement brown, black, blue, white, green yellow Cable weight 57 2 gm Material packet Filler yes Shore hardness jacket PUR Shore hardness jacket 99 £ 5 Shore A Freedom from ingredients (jacket) 15 % Material wire insulation PP Culter-diameter (jacket) 5,5 mm Culter-diameter (jacket) 15 % Material wire insulation PP Amount wires 5 Shore hardness wire insulation 12.5 mm Culter diameter insulation 7 % 5 Shore D Ingredient feeness wire insulation 16 shore hardness wire insulation 16 shore hardness wire insulation 16 shore hardness wire insulation 17 % 5 Shore D Ingredient feeness wire insulation 18 % Material conductor wire should be shore the shore of the shore hardness wire insulation 18 % Material conductor reassection (wire) 42 Dameter of single wires 0,1 mm Conductor reassection (wire) 0,34 mm² Material conductor wire) 0,34 mm² Material conductor wire wire shore 0 from @ 25 °C) horizontals Current load capacity flandardry 1 for IN VE Goste 4 Current load capacity flandardry 1 for IN VE Goste 4 Current load capacity flandardry 1 for IN VE Goste 4 Current load capacity flandardry 1 for IN VE Goste 4 Current load capacity min. wire 4,5 A Current load capacity mi		
Stranding 5 wires around Core filler Iwisted Cable shelding (type) copper braid, timed Cable shelding (coverage) 80 % Banding Fleece, Foil Filter yes wire arrangement brown, black, blue, white, green-yellow Cable weight 57.2 g/m Makerial jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 190 ± 5 Shore A Freedom from ingredients (jacket) 190 ± 5 Shore A Freedom couter diameter (sheath) 5 5 % Makerial jacket 9 FP Amount wires 5 Outer diameter (jacket) 5 5 mm Outer diameter (jacket) 5 5 mm Outer diameter (jacket) 5 5 mm Outer diameter (jacket) 1 5 5 % Shore hardness wire insulation PP Amount wires 5 Outer diameter (jacket) 1 5 5 % Shore hardness wire insulation 1 2.5 mm Outer diameter insulation 70 ± 5 Shore D Ingredient freeness wire insulation 1 2.5 mm Outer diameter insulation 1 2.5 mm Ou	Amount stranding	
Cable shielding (coverage)	Stranding	5 wires around Core filler twisted
Cable shielding (coverage)	Cable shielding (type)	copper braid, tinned
Pleace, Foil		80 %
### brown, black, blue, white, green-yellow Sable weight	Banding	Fleece, Foil
Cable weigth 57,2 g/m Material jacket PUR Material jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jacket) 5.6 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter folerance core insulation 1,25 mm Outer diameter folerance core insulation 1,25 mm Outer diameter folerance swire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 1,25 mm Under diameter of single wires 0,1 mm Conductor of single wires 0,1 mm Conductor of vires wire of single wires 0,1 mm Conductor type (wire) 5 made class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Current load capacity (sitandard) to DIN VIE 0298 4 Current load capacity (sitandard) to DIN VIE 0298 4 Current load capacity (win wire) 4,5 A Electrical resistance	Filler	yes
Cable weigth 57,2 g/m Material jacket PUR Material jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jacket) 5.6 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter folerance core insulation 1,25 mm Outer diameter folerance core insulation 1,25 mm Outer diameter folerance swire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 1,25 mm Under diameter of single wires 0,1 mm Conductor of single wires 0,1 mm Conductor of vires wire of single wires 0,1 mm Conductor type (wire) 5 made class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Current load capacity (sitandard) to DIN VIE 0298 4 Current load capacity (sitandard) to DIN VIE 0298 4 Current load capacity (win wire) 4,5 A Electrical resistance	wire arrangement	•
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Shore hardness jacket 90 ± 5 Shore A	Material jacket	_
Freedom from Ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Shore hardness jacket	90 ± 5 Shore A
Outer-diameter (jacket) 5,6 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter insulation 1,25 mm Outer diameter insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor (wire) 9,34 mm² Material conductor wire Stranded copper wire, bare Conductor (wire) stranded copper wire, bare Conductor (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 300 V AC withstand voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire -	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter insulation 1,25 mm Outer diameter insulation 1,25 mm Outer diameter before core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 10 ± 5 % Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand diase 6 Traversing distance (C-track) 5 m Ø 25 °C horizontal Current load capacity (standard) to IN VDE 0298-4 Current load capacity (standard) to INN VDE 0298-4 Current load capacity wire wire 4,5 A Electrical resistance line constant wire 57 D/km Ø 20 °C Nominal voltage power (wire - shield) 2 kV Ø 60 s Power frequency withstand voltage power (wire - wire) 2 kV Ø 60 s Max. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation UV resistance Din K Ensistance Din Cod, application-related testing Gasoline resistance Din K Ensistance Din K D S IN D D IN EN ISC 04892-2 A Clure resistance Good, application-related testing Direstiance Bending radius (floxed) 5 Mo Cuter diameter Direstiance Bending radius (floxed) 5 Mo Cuter diameter	Outer-diameter (jacket)	
Amount wires 5 Outer diameter insulation 1,25 mm Other diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor rosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (with wire strand view (with present wire strand since (inconstant wire strand) 2 NV @ 60 s AC withstand voltage power (wire - shield) 2 kV @ 60 s AC withstand voltage power (wire - shield) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s </td <td>Tolerance outer diameter (sheath)</td> <td>±5%</td>	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 87 Ω/km @ 20 °C Nominal voltage power (wire - shield) 2 kV Ø 60 s Power frequency withstand voltage power (wire - shield) 2 kV Ø 60 s Wire - jacket) 2 kV Ø 60 s AC withstand voltage power (wire - wire) 2 kV Ø 60 s Min. operating temperature (static) 40 °C Max. operating temperature min. (dynamic) 25 °C Operating temperature min. (dynamic) 80 °C / 90 °C Ø 10000 h Operation	Material wire insulation	PP
Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Nominal voltage power AC max. 300 V AC withstand voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - wire) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C@ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) 90 °C / 90 °C@ 10000 h Operation UV resistance DIN EN ISO 4892-2 A	Amount wires	5
Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-frack) 5 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 \(\Omega \text{km} \) @ 0 °C Nominal voltage power AC max. 300 V AC withstand voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - shield) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand volt	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 0/km @ 20 °C Nominal voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - shield) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation DOPerating temperature min. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Dil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Outer diameter tolerance core insulation	±5%
Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Nominal voltage power AC max. 300 V AC withstand voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - shield) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Casoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Shore hardness wire insulation	70 ± 5 Shore D
Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Nominal voltage power AC max. 300 V AC withstand voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - shield) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, app	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire) Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire Nominal voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - shield) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Gasoline resistance Good, application-related testing Gasoline resistance DIN EN 160 Ø25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Amount strands (wire)	42
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Nominal voltage power AC max. 300 V AC withstand voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - wire) 2 kV @ 60 s Power frequency withstand voltage power (wire - wire) 2 kV @ 60 s Max. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Dil resistance DIN EN 60811-404 Good, application-related testing Dil resistance DIN EN 60811-404 Good, application-related testing Dil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Diameter of single wires	0,1 mm
Conductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 \(\Omega \) / (xm @ 20 °C Nominal voltage power AC max. 300 V AC withstand voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Fiame resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 6881-1404 Good, application-related testing No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Conductor crosssection (wire)	0,34 mm ²
Traversing distance (C-track) 5 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Nominal voltage power AC max. 300 V AC withstand voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard) Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Nominal voltage power AC max. 300 V AC withstand voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Conductor type (wire)	strand class 6
Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 \(\Omega \text{tm} \) \(\omega \text{ Q} \color{ C} \) Nominal voltage power AC max. 300 V AC withstand voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Traversing distance (C-track)	5 m @ 25 °C horizontal
Electrical resistance line constant wire 57 Ω/km @ 20 °C Nominal voltage power AC max. 300 V AC withstand voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Current load capacity (standard)	to DIN VDE 0298-4
Nominal voltage power AC max. 300 V AC withstand voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - jacket) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Current load capacity min. wire	4,5 A
AC withstand voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Electrical resistance line constant wire	57 Ω/km @ 20 °C
Power frequency withstand voltage power (wire - jacket) AC withstand voltage power (wire - wire) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Nominal voltage power AC max.	300 V
(wire - jacket) AC withstand voltage power (wire - wire) AC withstand voltage power (wire of uncons) AC withstand voltage power (wire is with a constant of the c	AC withstand voltage power (wire - shield)	2 kV @ 60 s
Min. operating temperature (static) Max. operating temperature (fixed) Max. operating temperature (fixed) Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 10 × Outer diameter	Power frequency withstand voltage power (wire - jacket)	2 kV @ 60 s
Max. operating temperature (fixed) Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	AC withstand voltage power (wire - wire)	2 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Operating temperature min. (dynamic)	-25 °C
Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	UV resistance	
Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter		UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2
Oil resistance DIN EN 60811-404 Good, application-related testing No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter		
No. of bending cycles (C-track) 5 Mio. @ 25 °C Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	chemical resistance	-
Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	chemical resistance Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter	chemical resistance Gasoline resistance Oil resistance	Good, application-related testing DIN EN 60811-404 Good, application-related testing
	chemical resistance Gasoline resistance	Good, application-related testing DIN EN 60811-404 Good, application-related testing
No. of torsion cycles 2 Mio.	chemical resistance Gasoline resistance Oil resistance No. of bending cycles (C-track) Bending radius (fixed)	Good, application-related testing DIN EN 60811-404 Good, application-related testing 5 Mio. @ 25 °C 5 x Outer diameter
	chemical resistance Gasoline resistance Oil resistance No. of bending cycles (C-track) Bending radius (fixed) Bending radius (dynamic)	Good, application-related testing DIN EN 60811-404 Good, application-related testing 5 Mio. @ 25 °C 5 x Outer diameter 10 x Outer diameter

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Torsion speed 35 cycles/min

Torsion stress ± 30 °/m