

## Y-Distributor M12 male / MSUD valve plug B-10mm

PUR 3x0.75 ye UL/CSA+drag ch. 1m

Y connector

Plastic housings with good resistance against chemicals and oils.

Further cable lengths on request.

Male straight - male 90°

M12, 4-pole

A-coded

**MSUD** Form B (10 mm)

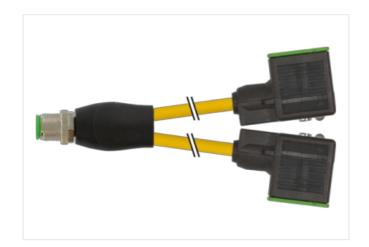
LED (yellow)

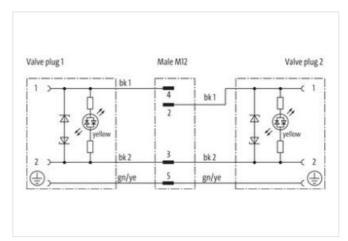
Diode/Z-Diode

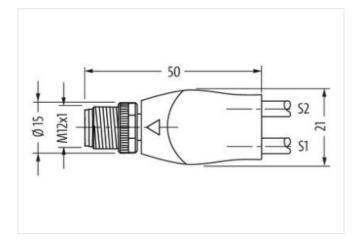
Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

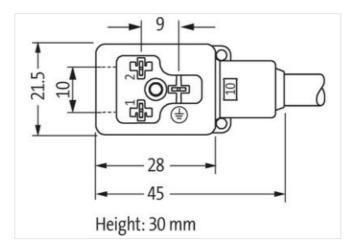
## **Link to Product**

## Illustration

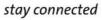


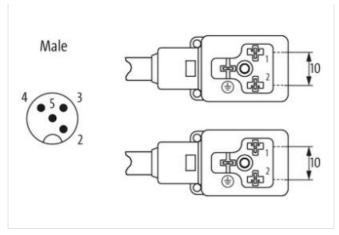












Product may differ from Image



1 m	
0,4 Nm	
inserted, screwed	
gold plated	
M12	
M3	
Copper alloy	
PUR	
4	
SW13	
0,6 Nm	
inserted, screwed	
silver-plated	
MSUD	
M12 x 1	
Copper alloy	
PBT	
3	
inserted, screwed	
MSUD	
3	
27143423	
27279218	
27279218	
27279218	
27060312	
27060312	
27060312	
	0,4 Nm inserted, screwed gold plated M12 M3 Copper alloy PUR 4 SW13  0,6 Nm inserted, screwed silver-plated MSUD M12 x 1 Copper alloy PBT 3 inserted, screwed MSUD 3  27143423 27279218 27279218 27279218 27279218 27279218 27279218 27279218 27279218 27279218



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ECLASS-12.0	27060312
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879304153
Packaging unit	1
Electrical data   Supply	
Operating voltage AC	24 V
Operating voltage AC min.	19,2 V
Operating voltage AC max.	28,8 V
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Cut-off peak voltage max.	55 V
Current operating per contact max.	4 A
Current consumption max.	15 mA
Diagnostics	
Status indication LED	yellow
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP67
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	J
Additional suppressor	Diode, Z-Diode
	Diode, 2-blode
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
Coating locking	Nickeled
Material gasket	PUR
Locking material	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable 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	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
·	
wire arrangement	black 1, black 2, green-yellow
Cable identification	036
Cable Type	3
Printing color of wire insulation	white (isolation black)
Jacket Color	yellow
Type of Certificate	cURus
Amount stranding	1
Stranding	3 wires twisted

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-06-23



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Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ligoridents (jacket)         5,9 mm           Folderance outer diameter (jacket)         5,9 mm           Folderance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,85 mm           Outer diameter orbarance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmum-free, CFC-free, halogen-free, silicone-free           Injection of view insulation         wite (solation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Onductor try in the conductor wire         Stranded copper wire, bare           Material conductor wire         Stranded dopper wire, bare           Conductor type (wire)         strand disas 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire)         25 kV @ 60 s           Power frequency withstand voltage (wire - vire)         2,5 kV @ 60 s           Operating temper	wire arrangement	black 1, black 2, green-yellow
Shore hardness jacket 90 ± 5 Shore A lead-tree, cadmium-free, CFC-free, halogen-free, silicone-free Output diameter (jacket) 15,9 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Duter diameter insulation 1,85 mm  Outer diameter insulation 1,85 mm  Outer diameter insulation 70 ± 5 Shore D  Ingredient forenses wire insulation 1,85 mm  Outer diameter tolerance core insulation 25 %  Shore hardness wire insulation 1,85 mm  Outer diameter tolerance core insulation 70 ± 5 Shore D  Ingredient freenses wire insulation 1,85 mm  Outer diameter tolerance core insulation 1,85 mm  Outer diameter tolerance core insulation 1,85 mm  Outer diameter tolerance core insulation 1,85 mm  Outer diameter of leading to the singulation 1,85 mm  Outer diameter of singulation 1,85 mm  Outer diameter of singulation 1,85 mm  Outer diameter of singulation 1,85 mm  Ingredient freenses wire insulation 1,85 mm  Ingredient free free free,9 miles free free,9 miles	Cable weigth	56,1 g/m
lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Material jacket	PUR
Duter diameter (jacket)         5,9 mm           Folerance outer diameter (sheath)         ± 5 %           Maderial wire insulation         PP           Amount wires         3           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Shore hardness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         42           Diameter of single wires         0,15 mm           Conductor type (wire)         stranded copper wire, bare           Coursent load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         12 A           Cilientrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency wiltistand voltage (wire - wire)         2,5 kV @ 60 s <t< td=""><td>Shore hardness jacket</td><td>90 ± 5 Shore A</td></t<>	Shore hardness jacket	90 ± 5 Shore A
Adamental wire insulation	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation         PP           Amount wires         3           Amount wires         3           Outer diameter tolerance core insulation         1,85 mm           Outer diameter tolerance core insulation         70 ± 5 Shore D           Ingredient Freeness wire insulation         white (isolation black)           Imprinting color of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor rosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max         300 V           Courrent load capacity (istandard)         to DIN VDE 0298-4           Current load capacity (istandard)         to DIN VDE 0298-4           Current load capacity min. wire         12 A           Electrical resistance line constant wire         26 RVm @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (fixed)         30 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C	Outer-diameter (jacket)	5,9 mm
Amount wires 3  Duter diameter insulation 1.85 mm  Duter diameter insulation 2.5 %  Shore hardness wire insulation 70.± 5 Shore D  Ingredient freeness wire insulation white (isolation black)  Amount strands (wire) 42  Diameter of single wires 0.15 mm  Conductor crossection (wire) 0.75 mm²  Material conductor wire  Conductor yee (wire) strand class 6  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 12 A  Electrical resistance line constant wire 26 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2.5 kV @ 60 s  Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s  Awx. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Departing temperature min. (dynamic) 2.5 °C  Departing temperature max. (dynamic) 10 x Outer diameter seistance Good, application-related testing 3 capital services (1 x outer) 10 x Outer diameter  Beending radius (fixed) 5 x Outer diameter  Beending radius (fixed) 10 x Outer diameter  Beending radius (fixed) 10 x Outer diameter  No. of bonding cycles (C-track) 10 min. @ 25 °C  Traversing distance (C-track) 3 min. @ 25 °C  Traversing distance (C-track) 10 min. @ 25 °C  No. of torsion strees ± 180 °/m	Tolerance outer diameter (sheath)	±5%
Duter diameter insulation         1,85 mm           Duter diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         white (isolation black)           Printing color of wire insulation         white (isolation black)           Amount Strands (wire)         42           Diameter of single wires         0,15 mm           Conductor or sessection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nowlinal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298.4           Current load capacity (standard)         to DIN VDE 0298.4           Current load capacity win, wire         12 A           Electrical resistance line constant wire         26 O/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - acket)         2,5 kV @ 60 s           Max. operating temperature (static)         40 °C           Max. operating temperature min. (dynamic)         -25 °C           Operating temperature min. (dynamic)         -25 °C           Operating temperature max. (dynamic)         60	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           Printing color of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity win. wire         12 A           Electrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand vollage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand vollage (wire - size)         2,5 kV @ 60 s           Win. operating temperature (static)         40 °C           Max. operating temperature (static)         40 °C           Querating temperature mix. (dynamic)         25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Diresistance         Good, application-related testing	Amount wires	3
Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Printing color of wire insulation white (isolation black)  Amount strands (wire) 42  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,75 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 12 A  Electrical resistance line constant wire 2.5 k V ⊚ 60 s  Power frequency withstand voltage (wire - ackel)    Min. operating temperature (static) 40 °C  Max. operating temperature (static) 40 °C  Max. operating temperature min. (dynamic) 25 °C  Operating temperature min. (dynamic) 25 °C  Chemical resistance Good, application-related testing Cassiline resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 × Outer diameter  Bending radius (fixed) 10 m @ 25 °C   Inorizontal    Traversing distance (C-track) 10 m @ 25 °C   Inorizontal    Traver speed (C-track) 3 m/s @ 25 °C    No. of torsion stress ± 180 °/m  For simple type of the minute of the control of th	Outer diameter insulation	1,85 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation white (isolation black)  Amount strands (wire) 42  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,75 mm²  Material conductor wire Stranded copper wire, bare  Stranded copper wire, bare  Conductor type (wire) strand class 6  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity (wire - wire) 26 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket) 40 °C  Max. operating temperature (static) 40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Deperating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Deperating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Departing temperature max. (dynamic) 5x °C  Operating temperature max. (dynamic) 6x °C @ 10000 h Operation  Di resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance Good, application-related testing  Dil resistance Good, application-related testing  Dil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5x °C uter diameter  No. of bending cycles (C-track) 10 m @ 25 °C   horizontal  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Traversing distance (C-track) 3 m/s @ 25 °C  No. of torsion cycles 2 Mio.	Outer diameter tolerance core insulation	±5%
Printing color of wire insulation         white (isolation black)           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         12 A           Electrical resistance line constant wire         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - acket)         40 °C           Max. operating temperature (istatic)         -40 °C           Max. operating temperature (iked)         80 °C / 90 °C @ 10000 h Operation           Operating temperature max. (dynamic)         25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Flame resistance         UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2           chemical resistance         Good. application-related testing           Gli resistance         Good. application-related testing           Diresistance         Good. application-related testing   DIN EN 60811-404 <td>Shore hardness wire insulation</td> <td>70 ± 5 Shore D</td>	Shore hardness wire insulation	70 ± 5 Shore D
Amount strands (wire) 42  Diameter of single wires 0,15 mm  Conductor (wire) 0,75 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity (standard) 26 Δ/km @ 20 °C  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s  Min. operating temperature (fixed) 80 °C ′90 °C @ 10000 h Operation  Operating temperature max. (dynamic) 25 °C  Departing temperature max. (dynamic) 80 °C ′90 °C @ 10000 h Operation  Chemical resistance Good, application-related testing  Casoline resistance Good, application-related testing  Casoline resistance Good, application-related testing  Casoline resistance Good, application-related testing  Call (chrack) 10 M o	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Diameter of single wires  O,15 mm  Conductor crosssection (wire)  O,75 mm²  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  strand class 6  Conductor type (wire)  strand class 6  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity (standard)  Current load capacity min. wire  12 A  Cliectrical resistance line constant wire  25 O/km @ 20 °C  AC withstand voltage (wire - wire)  2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket)  Ack of the standard voltage (wire - wire)  2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket)  A0 °C  Max. operating temperature (static)  A0 °C  Operating temperature fixed)  B0 °C / 90 °C @ 10000 h Operation  Operating temperature max. (dynamic)  25 °C  Operating temperature max. (dynamic)  B0 °C / 90 °C @ 10000 h Operation  Flame resistance  Ut 1581 § 1100 FT2   Ut 1581 § 1090   IEC 60332-2-2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oli resistance  Good, application-related testing  Din En 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (fixed)  5 x Outer diameter  No. of bending cycles (C-track)  10 m @ 25 °C   horizontal  Traversing distance (C-track)  3 m/s @ 25 °C  No. of torsion cycles  2 Mio.  Forsion stress  ± 180 °/m	Printing color of wire insulation	white (isolation black)
Conductor crosssection (wire)  Material conductor wire  Stranded copper wire, bare  Strand class 6  Nominal voltage AC max.  300 V  Current load capacity (standard)  Current load capacity (standard)  Current load capacity (standard)  Current load capacity min. wire  12 A  Electrical resistance line constant wire  26 Q/km @ 20 °C  AC withstand voltage (wire - wire)  2.5 kV @ 60 s  Power frequency withstand voltage (wire - acket)  300 V  Current load capacity min. wire  2.5 kV @ 60 s  AC withstand voltage (wire - wire)  2.5 kV @ 60 s  Win. 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  Flame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Dil resistance  Good, application-related testing  Dil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  10 Min. @ 25 °C  Traversing distance (C-track)  3 m/s @ 25 °C  No. of torsion cycles  2 Mio.  Torsion stress  ± 180 °/m	Amount strands (wire)	42
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 2,5 kV @ 60 s Win. operating temperature (static) -40 °C Max. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Dil resistance Good, application-related testing   DIN EN 60811-404 Bending radius (dynamic) 10 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 m @ 25 °C   Traversing distance (C-track) 10 m @ 25 °C   Traversing distance (C-track) 3 m/s @ 25 °C Traversing distance (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± ±180 °/m	Diameter of single wires	0,15 mm
Conductor type (wire) strand class 6  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 12 A  Electrical resistance line constant wire 26 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket) 40 °C  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  Elame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  Chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Bending radius (fixed) 5 × Outer diameter  No. of bending cycles (C-track) 10 m @ 25 °C   horizontal  Travel speed (C-track) 3 m/s @ 25 °C  No. of torsion cycles   L 180 °/m	Conductor crosssection (wire)	0,75 mm²
Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 12 A  Electrical resistance line constant wire 26 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket) 40 °C  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  Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance Good, application-related testing  Dil resistance Good, application-related testing DIN EN 60811-404  Bending radius (fixed) 5 × Outer diameter  Bending radius (fixed) 10 × Outer diameter  No. of bending cycles (C-track) 10 m @ 25 °C   horizontal    Travel speed (C-track) 3 m/s @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 12 A  Electrical resistance line constant wire 26 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2.5 kV @ 60 s  Power frequency withstand voltage (wire - acket) 40 °C  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  Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 min @ 25 °C  Traversing distance (C-track) 10 min @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	Conductor type (wire)	strand class 6
Current load capacity min. wire 12 A  Electrical resistance line constant wire 26 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2.5 kV @ 60 s  Power frequency withstand voltage (wire - acket) 2.5 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  Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Dil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Travel speed (C-track) 3 m/s @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± ± 180 °/m	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 26 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket) 2,5 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  Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Travel speed (C-track) 3 m/s @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire)  2,5 kV @ 60 s  Power frequency withstand voltage (wire - acket)  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  Flame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  10 m @ 25 °C  Traversing distance (C-track)  3 m/s @ 25 °C  No. of torsion cycles  ± 180 °/m	Current load capacity min. wire	12 A
Power frequency withstand voltage (wire - acket)  Min. operating temperature (static)  -40 °C  Max. operating temperature (fixed)  Departing temperature min. (dynamic)  -25 °C  Departing temperature max. (dynamic)  -25 °C  Good, application-related testing  Good, application-related testing  DIN EN 60811-404  Bending radius (fixed)  -5 × Outer diameter  Bending radius (dynamic)  -10 × Outer diameter  No. of bending cycles (C-track)  -10 Mio. @ 25 °C  Traversing distance (C-track)  -10 m @ 25 °C   horizontal  Travel speed (C-track)  -3 m/s @ 25 °C  No. of torsion cycles  -2 Mio.  Torsion stress  ± 180 °/m	Electrical resistance line constant wire	26 Ω/km @ 20 °C
Acket)  All coperating temperature (static)  All coperating temperature (fixed)  All coperating temperature (fixed)  All coperating temperature min. (dynamic)  All coperating temperature max. (dynamic)  All coperating temperature max. (dynamic)  All coperating temperature max. (dynamic)  Bo coperation dynamic temperature max. (dynamic)  Bo coperation dynamic temperature fill to	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  Flame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  Chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  10 Mio. @ 25 °C  Traversing distance (C-track)  10 m @ 25 °C   horizontal  Travel speed (C-track)  3 m/s @ 25 °C  No. of torsion cycles  2 Mio.  Torsion stress  ± 180 °/m	Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Travel speed (C-track) 3 m/s @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  Chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing  Dil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Travel speed (C-track) 3 m/s @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  10 Mio. @ 25 °C  Traversing distance (C-track)  10 m @ 25 °C   horizontal  Travel speed (C-track)  3 m/s @ 25 °C  No. of torsion cycles  2 Mio.  Torsion stress  ± 180 °/m	Operating temperature min. (dynamic)	-25 °C
Chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Travel speed (C-track) 3 m/s @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Travel speed (C-track) 3 m/s @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	Flame resistance	UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2
Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Travel speed (C-track) 3 m/s @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Travel speed (C-track) 3 m/s @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  10 Mio. @ 25 °C  Traversing distance (C-track)  10 m @ 25 °C   horizontal  Travel speed (C-track)  3 m/s @ 25 °C  No. of torsion cycles  2 Mio.  Torsion stress  ± 180 °/m	Oil resistance	Good, application-related testing   DIN EN 60811-404
No. of bending cycles (C-track)  10 Mio. @ 25 °C  Traversing distance (C-track)  10 m @ 25 °C   horizontal  Travel speed (C-track)  3 m/s @ 25 °C  No. of torsion cycles  2 Mio.  Torsion stress  ± 180 °/m	Bending radius (fixed)	5 x Outer diameter
Traversing distance (C-track)  10 m @ 25 °C   horizontal  Travel speed (C-track)  3 m/s @ 25 °C  No. of torsion cycles  2 Mio.  Torsion stress  ± 180 °/m	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)         3 m/s @ 25 °C           No. of torsion cycles         2 Mio.           Torsion stress         ± 180 °/m	No. of bending cycles (C-track)	10 Mio. @ 25 °C
No. of torsion cycles 2 Mio.  Torsion stress ± 180 °/m	Traversing distance (C-track)	10 m @ 25 °C   horizontal
Torsion stress ± 180 °/m	Travel speed (C-track)	3 m/s @ 25 °C
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 180 °/m
	Torsion speed	35 cycles/min