

## M12 Power male 90° / female 90° L-cod.

PUR 5x1.5 bk UL/CSA+drag ch. 5m

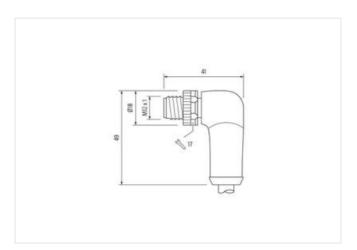
Power M12 – M12, 5-pole Male 90° – female 90° L-coded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

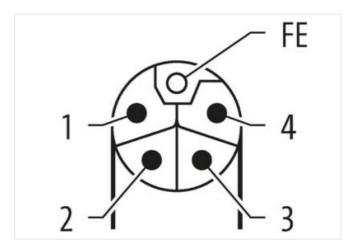
## Link to Product

Illustration



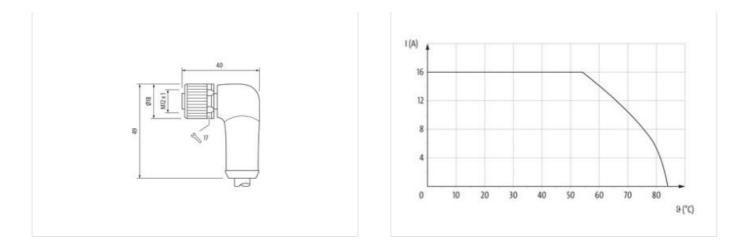
1	BN 1	(1
2 -	WH 2	(2
3	BU 3	
4	BK 4	(4
FE>	GY 5	<b>=</b> FE

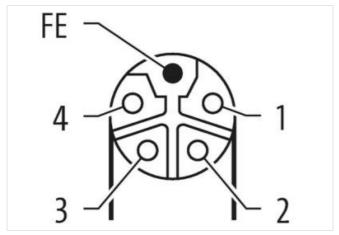




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F stay connected





Product may differ from Image



Cable length	5 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12P
Thread	M12 x 1
suitable for corrugated tube (internal $\emptyset$ )	16,4 mm
Coding	L
Material contact	Copper alloy
No. of poles	5
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12P
Thread	M12 x 1
Coding	L

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Material contact	Copper alloy
No. of poles	5
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060327
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060327
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879744003
Packaging unit	1
Electrical data   Supply	
Operating voltage DC max.	63 V
Current operating per contact max.	12 A
Diagnostics	
Status indication LED	no
Installation   Connection	
· ·	04/47
Width across flats	SW17
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	
Mechanical data   Material data	
Coating locking	Nickeled
Material gasket	FKM
Material housing	PUR
Locking material	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
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.
Conformity	
Product standard	IEC 61076-2-111
Installation   Cable	
Cable identification	P04
Cable Type	3
Printing color of wire insulation	black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray isolation)
Jacket Color	black

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Amount stranding         1           Stranding         5 wires around Filler heted           Filler         yes           Wire arrangement         gray 5, black 4, blue 3, white 2, brown 1           Cable weigh         128,8 pm           Material jacket         PUR           Shrie hardness jacket         90 ± 5 Shore A           Freedom Tran Ingredents (gacket)         82 ± mm           Tolderance using ingredents (gacket)         82 ± mm           Tolderance using ingredents (gacket)         82 ± mm           Tolderance using ingredents (gacket)         82 ± mm           Columer diameter (shealton         25 %           Material wire insulation         83 mm           Outer diameter insulation         60 ± 5 Shore D           Ingredent freemess wire insulation         60 ± 5 Shore D           Ingredent freemess wire insulation         18 ± 5 %           Shore harchess wire insulation         18 ± 5 %           Shore harchess wire insulation         18 ± 5 %           Mount strand, sive         84           Dameter of single wires         0.15 mm           Conductor crosssection (wire)         1.5 mm <sup>2</sup> Conductor vires Stranded coper wire, bare         Stranded coper wire, bare           Conductor vires Stranded coper wire,	Type of Certificate	cURus
Filler         yes           wire arrangement         gray 5. black 4, blue 3, white 2, brown 1           Cable weigh         128.8 g/m           Material jacketi         90.1 5 Shore A           Freedom from ingredents (jacket)         lead-tree, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         8.2 mm           Tolerance outer diameter (risketh)         1.5 %           Material wire insulation         PP           Amount wires         5           Outer-diameter (insulation)         2.3 mm           Cuter diameter insulation         6.1 5 Shore D           Ingredient treeses wire insulation         6.9 5 Shore D           Ingredient treeses wire insulation         1.6 ± Shore D           Ingredient treeses wire insulation         black (white isolation), white (isolation black), white (jaclation black), white (jaclation)           Material aver, a stall a	Amount stranding	1
wire anangement         gray 5, black 4, blue 3, while 2, brown 1           Cable weigh         129.8 g/m           Material Jacks         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (jackol)         8.2 mm           Tolerance outer diameter (sheath)         1.5 %           Material wire insulation         PP           Amount wires         5           Outer diameter insulation         2.3 rm           Outer diameter insulation         60 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing oold or vire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing oold or vire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Normal veilage AC max.         1000 V           Conductor vire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Normal veilage AC max.         1000 V           Conductor vire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Diameter of single wires         0,15 mm           Conductor vire insulation	Stranding	5 wires around Filler twisted
Cable weigh         128.8 g/m           Material jacket         PUR           Shore hardness jacket         90.4 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         8,2 mm           Outer diameter (jacket)         8,2 mm           Defrance outer diameter (sheath)         2.5 %           Material twire insulation         PP           Amount wires         6           Outer diameter insulation         2.3 mm           Outer diameter insulation         6.1 5 Shore DA           Nore hardness wire insulation         6.2 5 Shore D           Ingredimit freeness wire insulation         6.3 5 Shore D           Material ordination (wire)         8.4           Diamoter of single wires         0.15 mm           Conductor rossection (wire)         1.5 mm²           Material ordinator wire         13.5 Mm ?           Conductor wire         Strandid copper wire, bare           Conductor wire         10.0 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-1           Outer diameter di	Filler	yes
Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead these, cadmium free, CFC-free, halogen-free           Outer diameter (jacket)         8.2 mm           Tolerance outer diameter (jacket)         8.2 mm           Material wire insulation         PP           Amount wires         5           Outer diameter insulation         6.2 s 5 more D           Ingredient freeness wire insulation         1.6 5 %           Shore hardness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free           Printing color of wire insulation         lead-free, cadmium-free, CFC-free, halogen-free           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, sellcone-free           Printing color of wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, sellcone-free           Conductor or dissocition (wire)         84           Conductor or dissocition (wire)         84           Conductor or dissocition (wire)         1.5 mm²           Conductor or dissocition (wire)         1.5 mm²           Conductor wire         Stranded copper wire, bare           Conductor wire (wire)         1.5 A           Electrical resistance         10.0 V E0 0294-           Currento	wire arrangement	gray 5, black 4, blue 3, white 2, brown 1
Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Ucter-diameter (jacket)         8,2 mm           Tolerance ouler diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         5           Outer diameter ore insulation         2,3 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         60 ± 5 Shore O           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         black (white isolation blue), white (isolation brown), white (isolation black), white (gray isolation)           Amount strands (wire)         B4           Diameter of single wires         0,15 mm           Conductor rossection (wire)         1,5 mm²           Material conductor wire         Stranded cooper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage (wire - wite)         1,5 Mm @ 20 °C           Current load capacity (stinknath)         to DV VE 0284-4           Current load capacity (stinknath)         10,0 V @ 60 s           Min. operating temperature (staic)         -50 °C	Cable weigth	129,8 g/m
Freedom from ingredients (jacket)     lead-free, cadmium-free, OFC-free, halogen-free       Outer diameter (jacket)     8,2 mm       Dotarent diameter (jacket)     8,2 mm       Material wire insulation     PP       Amount wires     5       Outer diameter foldmeter (sheath)     2,3 mm       Outer diameter tolerance core insulation     2,3 mm       Outer diameter tolerance core insulation     2,5 %       Shore hardness wire insulation     60 ± 5 Shore D       Ingredient freeness wire insulation     black (white isolation blue), white (isolation brown), white (solation black), white (gray isolation)       Amount stands (wire)     84       Diameter of singra wires     0,15 mm       Conductor orge (wire)     1,5 mm²       Material conductor wire     Stranded copper wire, bare       Conductor vire (wire)     1,5 mm²       Material conductor wire (wire)     1,5 A       Electrical resistance ine constant wire     13,5 A       Electrical resistance ine constant wire     13,5 A       Electrical resistance ine constant wire     10 kV @ 80 s       Power requery, withstard voltage (wire - wire)     10 kV @ 80 s       Power requery, withstard voltage (wire - wire)     10 kV @ 80 s       Power requery, withstard voltage (wire - wire)     80 °C / 90 °C @ 10000 h Operation       Operating temperature mix. (dynamic)     -25 °C	Material jacket	PUR
Outer-diameter (acket)         8.2 mm           Tolerance outer diameter (sheath)         1 5 %           Material wire insulation         PP           Amount wires         5           Outer diameter (solution)         2.3 mm           Outer diameter (solution)         60 ± 5 Shore D           Ingredient freeness wire insulation         60 ± 5 Shore D           Ingredient freeness wire insulation         Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter visualition         Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (single wires         0,15 mm           Conductor crosssection (wire)         1,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal votage AC max.         1000 V           Current load capacity (standard)         to DIN VDE 0290-4           Current load capacity (standard)         to DIN VDE 0290 vC           AC withstand votage (wire - wire)         10 kV @ 60 s           Min. operating temperature (static) <td< td=""><td>Shore hardness jacket</td><td>90 ± 5 Shore A</td></td<>	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       5         Outer diameter linsulation       2,3 mm         Outer diameter linsulation       60 ± 5 Shore D         Ingredient freeness wire insulation       164 5 Shore D         Ingredient freeness wire insulation       bits 6 Shore D         Ingredient freeness wire insulation       bits 6 Shore D         Dimeter of single wires       0,15 mm         Conductor crossection (wire)       1,5 mm <sup>2</sup> Material conductor wire       Standed copper wire, bare         Conductor crossection (wire)       1,5 mm <sup>2</sup> Material conductor wire       Standed copper wire, bare         Conductor by (wire)       strand class 6         Nominal voltage AC max.       1000 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       10 KV @ 60 s         Max. operating temperature (static)       -50 °C         Max. operating temperature (static)       -50 °C         Operating temperature max. (dynamic)       -25 °C         Operating temperature max. (dynamic)       -25 °C         Operating temperature max. (	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation         PP           Amourt wires         5           Outer diameter tolerance core insulation         1:5 %           Shore hardness wire insulation         60:1:5 %           Shore hardness wire insulation         60:1:5 %           Shore hardness wire insulation         60:1:5 Shore D           Ingredient freeness wire insulation         60:1:5 %           Shore hardness wire insulation         60:1:5 %           Diameter of single wires         0.1:5 mm           Conductor crossection (wire)         1.5 mm²           Conductor vire (wire)         5:5 mm4           Conductor vire (wire)         1:5 mm²           Conductor vire (wire)         5:5 Amm4           Conductor vire (wire)         1:5 mm²           Conductor vire (wire)         1:5 mm²           Conductor vire (wire)         1:5 mm²           Conductor vire (wire)         1:0 N VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (win- wire)         1:0 kV @ 60 s           Min. operating temperature (statc)         -50 °C           Max. operating temperature (statc)         -50 °C           Max. operating temperature (statc)         80 °C / 90 °C @ 10000 h Operation           UV resistance	Outer-diameter (jacket)	8,2 mm
Amount wires       5         Outer diameter insulation       2.3 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       60 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free         Printing color of wire insulation       black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray isolation)         Amount strands (wire)       84         Diameter of single wires       0.15 mm         Conductor crossection (wire)       1.5 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       1000 V         Current tod capacity (standard)       to DIN VDE 0284.4         Current tod capacity (wire - wire)       10 kV @ 60 s         Power frequency withstand voltage (wire - vire)       10 kV @ 60 s         Power frequency withstand voltage (wire - vire)       10 kV @ 60 s         Operating temperature (static)       -50 °C         Max. operating temperature (static)       -50 °C         Max. operating temperature (static)       80 °C / 90 °C @ 10000 h Operation         Operating temperature max. (dynamic)       25 °C         Operating temperature max.	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation         2.3 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         60 ± 5 Shore D           Imgredient Thereness wire insulation         lead-free, cadinum-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         black (white isolation blue), white (isolation brown), white (isolation black), white (gray isolation)           Amount Strands (wire)         84           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         1,5 mm <sup>2</sup> Material conductor wire         Strandel copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage (wire - wire)         1,5 mm <sup>2</sup> Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VD @ 00 s           Power frequency withstand voltage (wire - wire)         13,5 A           Electrical resistance         10 kV @ 60 s           Min. operating temperature (static)         -50 °C           Max. operating temperature (static)         -50 °C           Operating temperature max. (dynamic)	Material wire insulation	PP
Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         60 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         black (white isolation), white (isolation blue), white (isolation black), white (gray isolation)           Amount strands (wire)         84           Diameter of single wires         0,15 mm           Conductor crossection (wire)         1,5 mm <sup>2</sup> Material conductor wire         Stranded copper wire, bare           Conductor wire         DIN VDE 0298-4           Current load capacity min, wire         13,5 A           Electrical resistance line constant wire         10 kV Ø 60 s           Power frequency withstand voltage (wire - wire)         10 kV Ø 60 s           Max. operaling temperature (static)         -50 °C           Max. operaling temperature (static)         -50 °C	Amount wires	5
Shore hardness wire insulation         60 ± \$ Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Printing color of wire insulation         black (white isolation), white (isolation blue), white (isolation black), white (gray isolation)           Anount strands (wire)         84           Diameter of single wires         0,15 mm           Conductor wire         Stranded copper wire, bare           Conductor wire (wire)         1.5 mm <sup>2</sup> Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         1000 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min, wire         13.5 A           Electrical resistance line constant wire         13.5 D/km @ 20 °C           AC withstand voltage (wire - wire)         10 kV @ 60 s           Power frequency withstand voltage (wire - ing acket)         10 kV @ 60 s           Min. operating temperature (static)         -50 °C           Max. operating temperature (static)         -50 °C           Operating temperature (static)         -50 °C           Operating temperature (static)         -50 °C           Max. operating temperature (static)         -50 °C	Outer diameter insulation	2,3 mm
Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Printing color of wire insulation       black (white isolation), white (isolation brown), white (isolation black), white (gray isolation)         Amount strands (wire)       84         Diameter of single wires       0,15 mm         Conductor vire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       1000 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (wire)       13,3 0km @ 20 °C         AC withstand voltage (wire -       10 kV @ 60 s         power frequency withstand voltage (wire -       10 kV @ 60 s         Max. operating temperature (stalic)       -50 °C         Max. operating temperature (ked)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C         Operating temperature min. (dynamic)       -25 °C         Order distance       Good, application-related testing         Oli x voter distance       Good, application-related testing         Oli x voter distance       Good, application-related testing         Obreating temperature min. (fixed)       7,5 x Outer diameter <td>Outer diameter tolerance core insulation</td> <td>±5%</td>	Outer diameter tolerance core insulation	±5%
Printing color of wire insulation         black (white isolation), white (isolation blue), white (isolation blow), white (isolation black), white (gray isolation)           Amount strands (wire)         84           Diameter of single wires         0.15 mm           Conductor crossection (wire)         1.5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         1000 V           Current load capacity (standard)         to DIN VDE 0298-4           Gurrent load capacity (standard) voltage (wire -         10 kV @ 60 s           Max. operating temperature (stred)         50 °C           Max. operating temperature (stred)         80 °C / 90 °C @ 10000 h Operation           Operating temperature (stred)         80 °C / 90 °C @ 10000 h Operation           UV resistance         Din L S51 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2 <tr< td=""><td>Shore hardness wire insulation</td><td>60 ± 5 Shore D</td></tr<>	Shore hardness wire insulation	60 ± 5 Shore D
Amount strands (wire)       84         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       1,5 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       1000 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       10 kV @ 60 s         Power frequency withstand voltage (wire - ila, 3, Ω/km @ 20 °C         AC withstand voltage (wire - wire)       10 kV @ 60 s         Power frequency withstand voltage (wire - ila (staic)       -50 °C         Max. operating temperature (static)       -50 °C         Max. operating temperature (static)       -25 °C         Operating temperature min. (dynamic)       -25 °C         Operating temperature min. (dynamic)       -25 °C         Operating temperature min. (dynamic)       -25 °C         Officient resistance       DIN EN ISO 4892-2 A         Flame resistance       DIN EN ISO 4892-2 A         Flame resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Gasoline resistance       Good, application-related test	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Diameter of single wires       0,15 mm         Conductor crosssection (wire)       1,5 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       1000 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       13,5 A         Electrical resistance line constant wire       13,3 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       10 KV @ 60 s         Power frequency withstand voltage (wire - jacket)       10 kV @ 60 s         Min. operating temperature (static)       -50 °C         Max. operating temperature (static)       -25 °C         Operating temperature max. (dynamic)       25 °C         Operating temperature max. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       UL 1581 § 1100 FT2   UL 1591 § 1990   IEC 60332-2-2         Chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, application-related testing   DIN K 06811-404         Bending radius (fixed)       7,5 x Outer diameter         Bending radius (fixed)       10 x Outer diamete	Printing color of wire insulation	black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray isolation)
Conductor crosssection (wire)       1,5 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       1000 V         Current load capacity (strandard)       to DIN VDE 0298-4         Current load capacity (strandard)       to VDE 0298-4         Current load capacity (strandard)       to VV @ 60 s         Power frequency withstand voltage (wire - inic (straic)       -50 °C         Max. operating temperature (straic)       -50 °C         Max. operating temperature (straic)       -25 °C         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         Golit resistance       Good, application-related tes	Amount strands (wire)	84
Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         1000 V           Current load capacity (standard)         to DIN VDE 0298-4           Carrent load capacity (standard)         to XV @ 60 s           Power frequency withstand voltage (wire - ipacket)         10 kV @ 60 s           Min. operating temperature (static)         -50 °C           Max. operating temperature (static)         -50 °C           Operating temperature (mixed)         80 °C / 90 °C @ 10000 h Operation           UV resistance         DIN EN ISO 4892-2 A           Flame resistance         UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2 ·2           chemical resistance         Good, application-related testing <td>Diameter of single wires</td> <td>0,15 mm</td>	Diameter of single wires	0,15 mm
Conductor type (wire)       strand class 6         Nominal voltage AC max.       1000 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       13,5 A         Electrical resistance line constant wire       13,3 Ω/m @ 20 °C         AC withstand voltage (wire - vire)       10 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       -50 °C         Min. operating temperature (static)       -50 °C         Max. operating temperature (static)       -50 °C         Operating temperature min. (dynamic)       -25 °C         Operating temperature min. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       DIN EN ISO 4892-2 A         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 residance       Good, application-related	Conductor crosssection (wire)	1,5 mm <sup>2</sup>
Nominal voltage AC max.1000 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire13,5 AElectrical resistance line constant wire13,3 Ω/km @ 20 °CAC withstand voltage (wire - wire)10 kV @ 60 sPower frequency withstand voltage (wire - jacket)10 kV @ 60 sMax. operating temperature (static)-50 °CMax. operating temperature (ifxed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resi	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire13,5 AElectrical resistance line constant wire13,3 Ω/km @ 20 °CAC withstand voltage (wire - wire)10 kV @ 60 sPower frequency withstand voltage (wire - jacket)10 kV @ 60 sMin. operating temperature (static)-50 °CMax. operating temperature (static)-50 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceSo (o torsion cycles (C-track) <t< td=""><td>Conductor type (wire)</td><td>strand class 6</td></t<>	Conductor type (wire)	strand class 6
Current load capacity min. wire       13,5 A         Electrical resistance line constant wire       13,3 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       10 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       10 kV @ 60 s         Min. operating temperature (static)       -50 °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       Good, application-related testing         Gasoline resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, application-related testing         No. of bending cycles (C-track)       5 Mio. @ 25 °C         Traversing distance (C-track)       5 Mio. @ 25 °C         Traversing distance (C-track)       5 Mio. @ 25 °C         No. of bending cycles (C-track)       5 Mio. @ 25 °C         No. of torsion cycles	Nominal voltage AC max.	1000 V
Electrical resistance line constant wire       13,3 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       10 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       10 kV @ 60 s         Min. operating temperature (static)       -50 °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 § 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         No. of bending radius (dynamic)       10 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         No. of bending cycles (C-track)       5 m@ 25 °C         Traversing distance (C-track)       5 m@ 25 °C         No. of torsion cycles       2 Mio.         Torsion stress	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire)       10 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       10 kV @ 60 s         Min. operating temperature (static)       -50 °C         Max. operating temperature (tixed)       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 § 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         Oil resistance       Good, application-related testing         Oil resistance       Good, application-related testing   DIN EN 60811-404         Bending radius (fixed)       7,5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         No. of bending cycles (C-track)       5 m @ 25 °C         Traversing distance (C-track)       5 m @ 25 °C         Traversing distance (C-track)       5 m @ 25 °C         No. of torsion cycles       2 Mio.         Torsion stress       ± 180 °/m	Current load capacity min. wire	13,5 A
Power frequency withstand voltage (wire - jacket)10 kV @ 60 sMin. operating temperature (static)-50 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingDi v Outer diameterBending radius (fixed)7,5 x Outer diameterBending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Electrical resistance line constant wire	13,3 Ω/km @ 20 °C
jacket)IN W @ 80 SMin. operating temperature (static)-50 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingDi v Outer diameterNo. of bending cycles (C-track)No. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	AC withstand voltage (wire - wire)	10 kV @ 60 s
Max. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)7,5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		10 kV @ 60 s
Operating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending radius (fixed)7,5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 m @ 25 °CTraversing distance (C-track)5 m @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Min. operating temperature (static)	-50 °C
Operating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDin resistanceGood, application-related testingOil resistanceGood, application-related testingDin x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
UV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingDil resistanceGood, application-related testingOil resistanceGood, application-related testingDin resistanceGood, application-related testingDin resistanceGood, application-related testingDin resistanceGood, application-related testingDin coll resistanceGood, application-related testingDin resistanceGood, application-related testingDin coll resistanceTo volter diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 m @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Operating temperature min. (dynamic)	-25 °C
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chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)7,5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	UV resistance	DIN EN ISO 4892-2 A
Gasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)7,5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Flame resistance	UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2
Oil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)7,5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	chemical resistance	Good, application-related testing
Bending radius (fixed)7,5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Oil resistance	Good, application-related testing   DIN EN 60811-404
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Traversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	No. of bending cycles (C-track)	5 Mio. @ 25 °C
No. of torsion cycles     2 Mio.       Torsion stress     ± 180 °/m	Traversing distance (C-track)	5 m @ 25 °C
Torsion stress ± 180 °/m	Travel speed (C-track)	3,3 m/s @ 25 °C
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 180 °/m
	Torsion speed	35 cycles/min

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