

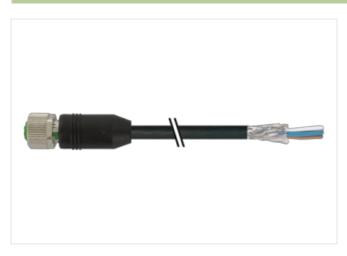
## M12 female 0° A-cod. with cable shielded

PUR 8x0.25 shielded bk UL/CSA+drag ch. 4m

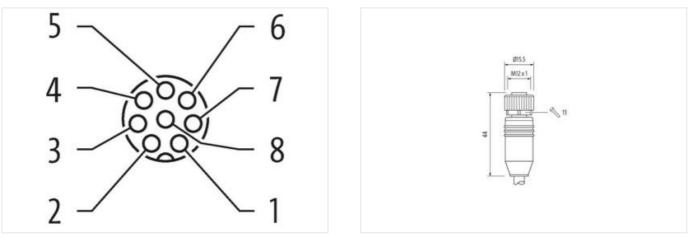
Female straight M12, 8-pole shielded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

Illustration



1)	<u>WH</u>	
	BN	/ \
	GN	
	YE	
	GY	
	PK	
	BU	
	RD	
		Ľ.



Product may differ from Image



4 m

0,6 Nm

Cable length

## Side 1

Tightening torque

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: 2024-05-18



Mounting method	inserted, screwed	
Coating contact	gold plated	
Family construction form	M12	
Thread	M12 x 1	
Material contact	Copper alloy	
Material	PUR	
No. of poles	8	
Width across flats	SW13	
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67	
Commercial data		
ECLASS-6.0	27279218	
ECLASS-6.1	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	4048879520690	
Packaging unit	1	
Electrical data   Supply		
Operating voltage AC max.	30 V	
Operating voltage DC max.	30 V	
Operating voltage AC (UL-listed)	30 V	
Operating voltage DC (UL-listed)	30 V	
Current operating per contact max.	2 A	
Installation   Connection		
Mounting set	M12 x 1	
Device protection   Electrical		
•		
Additional condition protection degree Pollution Degree	inserted, screwed 3	
-		
Rated surge voltage	0,8 kV	
Material group (IEC 60664-1)		
Mechanical data   Material data		
Coating locking	Nickeled	
Coating of fitting	nickel plated	
Locking material	Zinc die-casting	
Material screw connection	Zinc die-casting	
Mechanical data   Mounting data		
Mounting method	inserted, screwed, Shaking protection	
Environmental characteristics   Climatic	<u></u>	
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		
Conformity		

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Product standard

DIN EN 61076-2-101 (M12)

wire arrangementbrown, white, red, blue, pink, gray, yellow, greenCable identification717Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding8 wires around Core filler twistedCable shielding (type)copper braid, tinnedCable shielding (coverage)80 %BandingFleece, FoilFilleryeswire arrangementbrown, white, red, blue, pink, gray, yellow, greenCable weigth66 g/mMaterial jacket9U # SFore Andress jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Installation   Cable		
Cabe isorgication         717           Cabe Type         3           Cabe Type         3           Stackel Colo         Back           Type of Carificate         URus           Amount stranding         1           Stranding         8 wires around Core filter twisted           Cable shielding (coverage)         expore triad, fined           Cable shielding (coverage)         80 %           Banding         Fleece, Fol           Filter         yes           yes         90 %           Cable shielding (coverage)         80 %           Starb harding specifie         90 %           Store hardness isolet         90 ± 5 fore A           Frowdom from ingredinats (jacket)         90 ± 5 fore A           Frowdom from ingredinats (jacket)         7 m           Toenaco outer dimeter (starbat)         1 5 %           Material wire insulation         PP           Anound wires         8           Older diameter insulation         1 5 %           Store D         1 5 %           Cable diverse insulation         1 5 %           Dameter of anoly wires         0 4 %           Outer diameter insulation         1 5 %           Cabren dinterse wire insul	•		
Cable Type3Lacket ColorblackJacket ColorblackType of CattlicatecURusAnnout Stranding1Stranding8 wiss around Core filler twistedCable shielding (coverage)80 %BandingFleoco. FollFileryswise aroangenetbrow, wite, edd, black, pirk, gray, yellow, greenCable wise aroangenetbrow, wite, edd, black, pirk, gray, yellow, greenCable wise aroangenetbrow, wite, edd, black, pirk, gray, yellow, greenCable wise file (sold)90 ± 5 Shore AShore hardness jacket90 ± 5 Shore AShore hardness jacket90 ± 5 Shore AOlder damoting (sold)7 mmTolerance outer diameter (health)5 %Material wise insulationPPAnnoutt wires8Outer diameter (health)5 %Shore hardness wise insulation12 mmCulter diameter (health)2 5 %Shore hardness wise insulation12 mmCulter diameter (health)2 5 %Shore hardness wise insulation12 stranded copper wise, bardnessOuter diameter (health)12 stranded copper wise, bardConductor type scole (wire)0.25 mn²Conductor type scole (wire)0.24 w@ 90 sConductor type scole (wire)0.24 w@ 90 sConductor type scole (w			
Jackel Color         black           Jone Standing         ol/Fuis           Anount standing         1           Stranding         8 wires around Core filter wisted           Cable shielding (coverage)         80 %           Banding         Fileece, Fol           Filer         yes           Yes         90 %           Cable shielding (coverage)         80 %           Standing         Filece, Fol           Filer         yes           Yes         Standing           Shore hardness igoket         91 5 Shore A           Shore hardness igoket         92 1 5 Shore A           Shore hardness igoket         92 1 5 Shore A           Cable weight         7 min           Tolearcro coder diredired (slacket)         1 5 %           Material wei insulation         1 2 %           Coller donder insulation         1 2 %           Shore hardness wei insulation         1 5 % Shore D           Ingredient fineness wire insulation         1 5 %           Shore hardness wei insulation         1 8 % <tr< td=""><td></td><td></td></tr<>			
Type of Carillicate         cURus           Arnourt stranding         1           Arnourt stranding         1           Cable shielding (type)         copper braid, fined           Cable shielding (type)         Sopper braid, fined           Wei arrangement         Derwin, while, red, blue, pink, gray, yellow, green           Cable weigh         Ge g/m           Material jacket         PUF           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (velocit)         1 5 %           Material vie insulation         PP           Annout viers         8           Outer diameter velocance core insulation         12 5 %/re D           Brone hardness wei insulation         12 5 %/re D           Candeat versesterion (vier)         25 fore D           Candeat versesterion (vier)         0.25 mr <sup>2</sup> Candeat versesterion (vier)         0.25 mr <sup>2</sup> Candeat versesterion (vier)         0.25 mr <sup>2</sup> Candeat vers	Cable Type		
Amount stranding       1         Stranding       8 wires around Core Illier twisted         Cable shelding (cycerage)       80 %         Banding       Fileoe, Fol         Filer       yes         wire atrangement       brown, white, red, blue, pink, gray, yellow, green         Cable weigh       66 g/m         Material jacket       PUR         Shore hardiness jacket       92 ± 5 shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free         Outer diameter (jacket)       7 mm         Tolerance outer diameter (jacket)       2 5 %         Material yes       8         Outer diameter insulation       1.2 mm         Outer diameter insulation       1.2 mm         Outer diameter insulation       7 to 5 Shore D         Ingredient freeness wire insulation       1.2 mm         Outer diameter insulation       1.2 mm         Outer diameter insulation       1.2 mm         Outer diameter insulation       1.2 mm         Candidator virence       0.1 mm         Conductor virence       0.1 mm         Conductor virence       0.1 mm         Conductor virence       0.1 mill         Conductor virence       0.3 A <td></td> <td></td>			
Stranding         8 wires around Core filler twisted           Cable shelding (type)         copper braid, finned           Cable shelding (type)         80 %           Banding         Fleece, Fol           Filler         yes           wire arrangement         brown, white, red, blue, pink, gray, yellow, green           Cable weigh         66 g/m           Material jackst         PUR           Shore hordness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         10 ± 5 S.           Outer diameter (isolation)         7 m           Tolerance outer diameter (solation)         5 %.           Material wire isolation         1.2 mm           Outer diameter isolation         1.2 mm           Outer diameter isolation         1.2 mm           Outer diameter isolation         1.2 mm           Canduct corsease wire insolation         1.2 mm	Type of Certificate	cURus	
Cable shieding (type)         coppor braid, linned           Cable shieding (coverage)         80 %           Banding         Fleece, Foll           Filer         yes           wire arrangement         brown, while, red, blae, pink, gray, yellow, green           Cable weigh         66 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free           Outer diameter (lacket)         7 mn           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         8           Outer diameter tolerance oure insulation         1 2 mm           Outer diameter insulation         1 2 5 %           Shore hardness wire insulation         1 2 4 5 Shore D           Impredent Incomess wire insulation         1 2 4 5 Shore D           Impredent Incomes wire insulation         1 2 4 5 Shore D           Dameter of alings wire insulation         1 2 4 5 Shore D           Conductor regress wire insulation         1 2 4 5 Shore D           Dameter of alings wire insulation         1 2 4 5 Shore D           Conductor regress wire insulation         1 2 4 5 Shore D      <	Amount stranding	1	
Cable shielding (coverage)         80 %           Banding         Piece, Fol           Filter         yes           Cable weight         66 gim           Matarial jacket         PUR           Shore hardness jacket         90 5 S hore A           Freedom from ingredients (jacket)         7 mm           Tolerance outer diameter (jacket)         7 mm           Tolerance outer diameter (jacket)         7 mm           Tolerance outer diameter (jacket)         8           Outer diameter isulation         PP           Annort wires         8           Outer diameter isulation         1.2 mm           Outer diameter isulation         70 5 S hore D           Forgetem free site isulation         70 5 S hore D           Shore hardness wire isulation         70 5 S hore D           Conduct or orssessical (wire)         32           Diameter of single wrise         0.1 mm           Conductor orssessical (wire)         32           Diameter of single wrise         0.1 mm           Conductor wrise         Stranded copper wire, bare           Conductor wrise         Stranded copper wire, bare           Conductor wrise         Stranded copper wire, bare           Conductor wrise         Stranded copper wire,	Stranding	8 wires around Core filler twisted	
Banding         Fleece, Foll           Filer         yea           wise arrangement         brown, white, red, blue, prik, gray, yellow, green           Cable weight         66 g/m           Material jackat         PUR           Shore hardness jackat         90 5 5 Shore A           Freedom from ingredients (gackat)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (gackat)         7 mm           Tolerance outer diameter (sheatth)         1 5 %           Material wein insulation         PP           Amount wires         8           Outer diameter insulation         1.2 mm           Outer diameter insulation         1.2 free           Tope and tree insulation         1.2 free           Tope and tree insulation         1.2 mm           Outer diameter insulation         1.2 free           Tope and trees wire insulation         1.2 free           Ingredient freeness wire insulation         1.2 free           Ingredient freeness wire insulation         1.2 free           Conductor trye (wire)         32           Diameter of single wires         0.1 mm           Conductor trye (wire)         34 a           Diameter of single wires         0.1 mm           Con	Cable shielding (type)	copper braid, tinned	
File         yes           wire arrangement         brown, white, ed. blue, pirk, gray, yellow, green           Cable weigh         66 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom form ingredents (jacket)         7 mm           Tolerance outer diameter (lacket)         7 mm           Tolerance outer diameter (lacket)         7 mm           Outer diameter insulation         1.5 %           Amount vires         8           Outer diameter insulation         1.2 mm           Outer diameter insulation         7.1 5 %           Shore hardness wire insulation         7.0 ± 5 %           Shore hardness wire insulation         1.2 mm           Outer diameter (solve)         32           Diameter of single wires         0.1 mm           Conductor crosssection (wire)         32           Diameter of single wires         0.1 mm           Conductor vise (wire)         stranded copper wire, bare           Conductor vise (wire)         stranded copper wire, bare           Conductor vise (wire)         tranded copper wire, bare           Conductor vise (wire)         2 kV @ 60 s           Nominal voitage AC max.         300 V           Current lo	Cable shielding (coverage)	80 %	
wire arrangement         brown, white, red. blue, pink, gray, yellow, green           Cable wolgth         66 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         18a-thee, cadinum-tree, CFC-free, halogen-tree, silicone-free           Outer diameter (glockel)         7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material jacket         8           Outer diameter insulation         12 mm           Outer diameter insulation         70 ± 5 Shore D           Shore hardness wire insulation         12 Shore D           Ingredient treeness wire insulation         12 Shore D           Conductor rossection (wire)         0.25 mm²           Conductor rossection (wire)         0.25 mm²           Conductor type (wire)         stand clospe Ardness 6           Control cad capacity (standard)         D D IN VDE 0298 4           Current load capacity (standard)         D D IN VDE 0298 4           Current load capacity (standard)         D D IN VDE 0298 4           Current	Banding	Fleece, Foil	
Cable weight     66 g/m       Material jacket     PUR       Shore hardness jacket     90 E S bore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer diameter (jacket)     7 mm       Tolerance outer diameter (sloket)     5 %.       Material wire insulation     PP       Amount wires     8       Outer diameter insulation     1.2 mm       Outer diameter insulation     1.5 %.       Shore hardness wire insulation     1.5 %.       Shore hardness wire insulation     1.5 %.       Shore hardness wire insulation     1.2 mm       Outer diameter insulation     1.2 mm       Outer diameter solution     1.2 mm       Outer diameter solution     1.2 mm       Outer diameter solution     1.2 mm       Outer diameter insulation     1.2 mm       Outer diameter wires     0.1 mm       Conductor rosses wire insulation     0.2 mm <sup>2</sup> Material conductor wire     Stranded copper wire, bare       Conductor rype (wire)     0.2 mm <sup>2</sup> Nominal voltage AC max.     300 V       Current load capacity (istandard)     to DIN VDE 0298-4       Current load capacity min. wire     3 A       Electrical resistance line constant wire     3 A       Electrical resistance l	Filler	yes	
Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedon from ingredients (jacket)         Ied Aree, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diamater (jacket)         7 mm           Tolerance outer diameter (sheath)         ± 5 %           Matarial wire insulation         PP           Amount wires         8           Outer diameter (sheath)         ± 5 %           Shore hardness wire insulation         1.2 mm           Outer diameter insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 %           Shore hardness wire insulation         10 ± 5 %           Diameter of singer wires         0.1 mm           Conductor yree (wire)         52 mm <sup>2</sup> Conductor yree (wire)         52 mm <sup>2</sup> Material conductor wire         Stranded copper wire, bare           Conductor yree (wire)         54 A           Current load capacity (min. wire)         3 A           Electrical resistance line constant wire         79 Ω/km @ 20 °C           AC withstand voltage (wire - shield)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s	wire arrangement	brown, white, red, blue, pink, gray, yellow, green	
Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (jacket)         7 m           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         8           Outer diameter tolerance occre insulation         1.2 mm           Outer diameter tolerance occre insulation         1.5 %           Shore hardness wire insulation         No 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount stards (wire)         32           Diameter of single wires         0.1 mm           Conductor crosssection (wire)         0.25 mm <sup>2</sup> Material conductor wire         Stranded copper wire, bare           Conductor crosssection (wire)         0.25 mm <sup>2</sup> Conductor vires         Stranded capper wire, bare           Conductor wire         Stranded copper wire, bare           Conductor vires         Stranded copper wire, bare           Conductor vires         Stranded copper wire, bare           Conductor vires         Stranded copper wire, bare           Contrent load capacity fistandwortape (wire - wire)         2 kV @	Cable weigth		
Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         8           Outer diameter insulation         1.2 mm           Outer diameter lolerance core insulation         1.5 %           Shore hardness wire insulation         1.6 5 %           Shore hardness wire insulation         1.6 5 %           Diameter of single wires         0,1 mm           Conductor crossection (wire)         32           Diameter of single wires         0,1 mm           Conductor viree         Stranded coper wire, bare           Retrait conductor wire)         5.25 mm²           Conductor viree         Stranded cape wire, bare           Current load capacity min. wire         3 A           Electrical resistance line constant wire         7 P.0 km @ 0 ° C           Power frequency withstand voltage (wire - shiled)         2 kV @ 60 s           Ac withstand voltage (wire - shiled)         2 kV @ 60 s           Ac withstand voltage (wire - shiled)         2 kV @ 60 s           Min. operating temperature (static)         40 °C           Ac withstand voltage (wire - shiled	Material jacket	PUR	
Outer-diameter (acket)         7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         8           Outer diameter tolerance core insulation         ± 2 %           Shore hardness wire insulation         12 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         12 mm           Outer diameter tolerance core insulation         tead-free, cadmium-free, CFC-free, halogen-free           Amount stands (wire)         32           Diameter of single wires         0,1 mm           Conductor crossection (wire)         0,25 mm²           Conductor type (wire)         strande dopper wire, bare           Conductor type (wire)         strande dopper wire, bare           Conductor type (wire)         strande dopper wire, bare           Current load capacity (standard)         to DIN VDE 0238-4           Current load capacity (standard)         to DIN VDE 0238-4 <t< td=""><td>Shore hardness jacket</td><td>90 ± 5 Shore A</td></t<>	Shore hardness jacket	90 ± 5 Shore A	
Outer-diameter (acket)         7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         8           Outer diameter tolerance core insulation         ± 2 %           Shore hardness wire insulation         12 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         12 mm           Outer diameter tolerance core insulation         tead-free, cadmium-free, CFC-free, halogen-free           Amount stands (wire)         32           Diameter of single wires         0,1 mm           Conductor crossection (wire)         0,25 mm²           Conductor type (wire)         strande dopper wire, bare           Conductor type (wire)         strande dopper wire, bare           Conductor type (wire)         strande dopper wire, bare           Current load capacity (standard)         to DIN VDE 0238-4           Current load capacity (standard)         to DIN VDE 0238-4 <t< td=""><td>Freedom from ingredients (jacket)</td><td>lead-free, cadmium-free, CFC-free, halogen-free, silicone-free</td></t<>	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	
Tolerance outer diameter (sheath) $\pm$ 5 %Material wire insulationPPAmount wires8Outer diameter insulation1,2 mmOuter diameter insulation $\pm$ 5 %Shore hardness wire insulation $2 \pm$ 5 %Impredient freeness wire insulation $70 \pm$ 5 Shore DImpredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)32Diameter of single wires0,1 mmConductor wires section (wire)0.25 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)2 kV @ 60 sPower frequency withstant voltage (wire ·2 kV @ 60 sPower frequency withstant voltage (wire ·2 kV @ 60 sAc withstand voltage (wire - shield)2 kV @ 60 sMax. operating temperature (iscal)40 °C / 90 °C @ 10000 h OperationOperating temperature (iscal)60 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4392-2 APlame resistanceEC 60332-2 2 /U Li 1581 § 1100 FT2 I UL 1581 § 1090Chemical resistanceGood, application-related testingGasolin resistanceGood, application-related testingGasolin resistance </td <td>Outer-diameter (jacket)</td> <td>-</td>	Outer-diameter (jacket)	-	
Material wire insulation         PP           Amount wires         8           Outer diameter insulation         1.2 mm           Outer diameter insulation         5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeneess wire insulation         70 ± 5 Shore D           Ingredient freeneess wire insulation         82           Diameter of single wires         0.1 mm           Conductor crossection (wire)         0.25 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         D DIN VDE 0298-4           Ac withstand voltage (wire - wire)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Max. operating temperature (stat			
Amount wires8Outer diameter insulation1.2 mmOuter diameter tolerance core insulation1.5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulation70 ± 5 Shore DIngredient freeness wire insulation82Diameter of single wires0.1 mmConductor wires0.25 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (stindard)10 DIN VDE 0298-4Current load capacity (stindard)10 DIN VDE 0298-4Current load capacity (stindard)2 KV @ 60 sPower frequency withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - shield)2 kV @ 60 sAc withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (stac)40 °CMax. operating temperature (stac)80 °C / 90 °C @ 10000 h OperationOperating temperature (stac)60 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)5 °C (20000 h OperationOut resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGoline resistance <td></td> <td></td>			
Quter diameter insulation1,2 mmOuter diameter lolerance core insulation $\pm 5$ %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)32Diameter of single wires0,1 mmConductor crosssection (wire)0,25 mm²Material conductor wireStranded copper wire, bareConductor type (wire)stranded copper wir			
Outer diameter tolerance core insulation $\pm$ 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)32Diameter of single wires0,1 mmConductor crosssection (wire)0,25 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (wire)2 kV @ 60 sPower frequency withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMan. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)25 °COperating temperature min. (dynamic)90 °C / 90 °C @ 10000 h OperationUV resistanceGood, application-related testingOil resistanceGood, application-related testingCasoline resistanceGood, application-related testingOil resist			
Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)32Diameter of single wires0,1 mmConductor crosssection (wire)0,25 mm²Material conductor type (wire)Stranded copper wire, bareConductor type (wire)Stranded copper wire, bareCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to SIN © 0 °C 0			
Ingredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)32Diameter of single wires0,1 mmConductor crossection (wire)0,25 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire3 AElectrical resistance line constant wire79 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - sileld)2 kV @ 60 sMin. operating temperature (statle)40 °CMax. operature (statle)40 °COperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 6032-2 2 ( UL 1581 § 1100 FT2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOld resistanceGood, application-related testingOld resistanceGood, application-related testingOld resistanceGood, application-related testing I DIN EN 60811-404Bending radius (fixed)5 × Culor diameterBending radius (fixed)5 × Culor diameterNo. of bending royces (C-track)5 Mio. @ 25 °CNo. of bending royces (C-track)5 Mio.			
Amount strands (wire)       32         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,25 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)       2 kV @ 60 s         Ac withstand voltage (wire - siled)       2 kV @ 60 s         Max. operating temperature (staic)       40 °C         Max. operating temperature (staic)       80 °C / 90 °C @ 10000 h Operation         Operatin			
Diameter of single wires0,1 mmConductor crosssection (wire)0,25 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sMin. operating temperature (static)40 °CMax. operating temperature (static)40 °CMax. operating temperature (static)40 °COperating temperature (static)80 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2.2   UL 1581 § 1100 FT2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGoo	-		
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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       3 A         Electrical resistance line constant wire       79 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2 kV @ 60 s         Power frequency withstand voltage (wire - shield)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (static)       -40 °C         Max. 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       IEC 60332-2:2   UL 1581 § 1100 FT2   UL 1581 § 1090         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, application-related testing         Oil resistance       Good, application-r		· · · · · · · · · · · · · · · · · · ·	
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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)       5 Mio. @ 25 °C         Traversing distance (C-track)       5 m @ 25 °C   horizontal         Travel speed (C-track)       3,3 m/s @ 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         Traversing distance (C-track)       5 m @ 25 °C   horizontal         Travel speed (C-track)       3,3 m/s @ 25 °C			
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No. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C   horizontalTravel speed (C-track)3,3 m/s @ 25 °C			
Traversing distance (C-track)     5 m @ 25 °C   horizontal       Travel speed (C-track)     3,3 m/s @ 25 °C			
Travel speed (C-track)     3,3 m/s @ 25 °C			
No. of torsion cycles 2 Mio.			
	No. of torsion cycles	2 MIO.	

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Torsion stress

Torsion speed

± 30 °/m 35 cycles/min

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