

## MQ15 male 0° / MQ15 female 90° 600V AC type 3

PUR 6x2.5 bk UL/CSA+drag ch. 1,0m

MQ15, 6-pole Male straight – female 90° with cable sleeves

Plastic housings with good resistance against chemicals and oils.

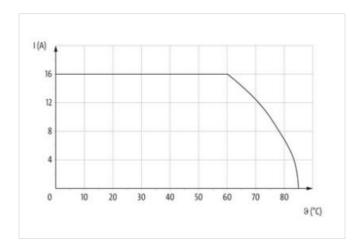
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

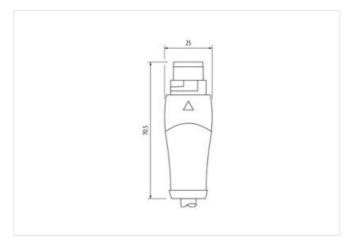
## **Link to Product**

## Illustration



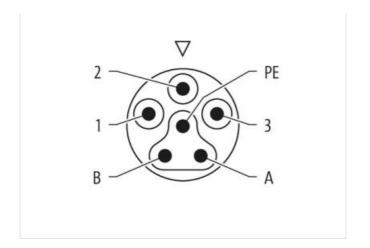


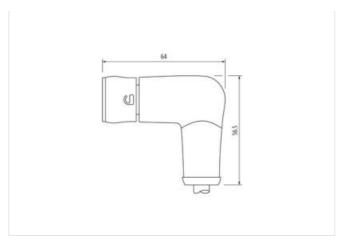


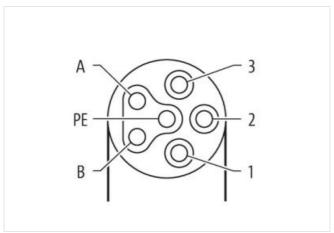




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Product may differ from Image









Cable length	1 m
Side 1	
Mounting method	inserted, locked
Coating contact	silver-plated
Family construction form	MQ15
suitable for corrugated tube (internal $\emptyset$ )	18 mm
Gender	male
Cable outlet	straight
Coding	Type 3
Material contact	Copper alloy
No. of poles	6
Degree of protection (EN IEC 60529)	IP65, IP67
Side 2	
Mounting method	inserted, locked
Coating contact	silver-plated
Family construction form	MQ15
Gender	female
suitable for corrugated tube (internal Ø)	18 mm

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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Cable outlet	angled
Coding	Type 3
Material contact	Copper alloy
No. of poles	6
Degree of protection (EN IEC 60529)	IP65, IP67
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	4065909066959
Packaging unit	1
Electrical data   Supply	
Operating voltage AC per power contact max.	600 V
Operating voltage AC per signal contact max.	63 V
Operating voltage DC per signal contact max.	63 V
Operating current per power contact max.	16 A
Operating current per signal contact max.	10 A
Diagnostics	
Status indication LED	no
Installation   Pin assignment	
	Tune 2
Coding Configuration	Type 3 fully used
	iuily used
Device protection   Electrical	
Additional condition protection degree	inserted, locked
Pollution Degree	3
Rated surge voltage power contacts	6 kV
Rated surge voltage signal contacts	1,5 kV
Material group (IEC 60664-1)	
Mechanical data   Material data	
Material housing	PUR
Material contact carrier	PA
Locking material	POM
Mechanical data   Mounting data	
Looking techniques	bayonet-locking
Environmental characteristics   Climatic	
Operating temperature min.	-30 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
•	Destant the second series have the bloom of the second series to the second series of the sec
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	



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Cable Internation	Installation   Cable	
Cable Internation	wire arrangement	black 5, black 4, black 3, black 2, black 1, green-yellow
Cable Type   3  Lacker Cobr   black   Type of Certificate   cURus   Stranding   6 wires around Filter twisted   Filter   ys   wire arrangement   black 5, black 4, black 3, black 2, black 1, green yettow   Cable weight   227,7 g/m   Material jacket   FUR   Shore hardness jacket   FUR   Freedom from ignodents (jacket)   10,5 mm   Tolerance outer diameter (jacket)   10,5 mm   Tolerance outer diameter (jacket)   10,5 mm   Tolerance outer diameter (jacket)   25 %   Material wire flowarize or insulation   2,8 mm   Outer diameter insulation   2,8 mm   Outer diameter insulation   2,8 mm   Outer diameter insulation   2,5 mm   Outer diameter insulation   0,15 mm   Outer diameter   0,15 mm	Cable identification	
Jacket Color		
Type of Certificatie	· · · · · · · · · · · · · · · · · · ·	
Stranding   6 wires around Filler twisted		
Filler yes wire arrangement black 5, black 4, black 3, black 2, black 1, green-yellow  Ablack 5, black 4, black 3, black 2, black 1, green-yellow  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A Freedom from Ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer diameter (jacket) 10.5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wiros 6  Outer diameter insulation 2,25 mm  Outer diameter swire insulation 4,5 %  Ingredient feeness wire insulation 1,5 mm  Outer diameter oberance core insulation 1,5 %  Ingredient feeness wire insulation 1,5 mm  Outer diameter oberance over insulation 1,5 mm  Outer diameter of single wires 0,15 mm  Outer diameter of single wires 0,15 mm  Outer of single wires 0,15 mm  Conductor type (wire) 5trand class 6  Shore hardness wire insulation (Data) 6,0 ± 5 Shore D  Nominal voltage AC max. 1000 V  Current load capacity (standard) 1,0 DIN VDE 0298-4  Current load capacity (standard) 1,0 DIN VDE 0298-4  Current load capacity (sindardd) 1,0 DI		
wire arrangement black 5, black 4, black 3, black 1, green-yellow  227,7 g/m  Malterial jacket PUR  Shore hardness jacket 99 ± 5 Shore A  Freedom from ingredients (jacket) [lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Under-diameter (jacket) 10.5 mm  Tolerance outer diameter (sheath) ± 5 %  Malterial vivor insulation PP  Amount wires 6  Outer diameter insulation 2,85 mm  Outer diameter insulation 2,85 mm  Outer diameter insulation 1,55 mm  Tolerance orie insulation 2,85 mm  Outer diameter insulation 2,85 mm  Outer diameter rolerance core insulation 1,55 mm  Outer diameter rolerance core insulation 1,55 mm  Outer diameter insulation 1,55 mm  Material conductor wire 5 stranded coppor wire, bare  Conductor type (wire) 1,50 mm  Material conductor wire 5 stranded coppor wire, bare  Conductor type (wire) 1,55 mm  Outer diameter insulation (Data) 60 ± 5 Shore D  Normal outlage AC max. 1000 ∨ C  Current load capacity (standard) 100 NV C  Current load capacity (standard) 100 NV C  Current load capacity (standard) 100 NV C  Current load capacity (wire - wire) 100 kV  Power frequency withstand voltage (wire - wire) 100 kV  Power frequency withstand voltage (wire - wire) 100 kV  Outer diameter mini. (dynamic) 40 °C © 10000 h Operation 1,55 mm  Operating temperature min. (dynamic) 50 °C © 10000 h Operation 1,55 mm  Operating temperature min. (dynamic) 50 °C © 10000 h Operation 1,55 mm  Outer diameter mini. (dynamic) 100 kV L 1581 § 100 FT2  Outer diameter rolesiance 1,55 mm  Outer diameter 1,55 mm	Filler	
Cable weigth         227.7 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         10,5 mm           Tolerance outer diameter (shatt)         ± 5 %           Material vire insulation         PP           Amount wires         6           Outer diameter insulation         ± 5 %           Freedom freeness wire insulation         ± 5 %           Outer diameter tolerance core insulation         ± 5 %           Ingredient freeness wire insulation         ± 5 %           Amount strands (wire)         140           Diameter of single wires         0,15 mm           Conductor prosection (wire)         2,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         \$ 5 hore 1           Nominal voltage AC max.         1000 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire)         19,5 A           Electrical resistance line constant wire         10 kV           Power frequency withstand voltage (wire- jacket)         10 kV           Max.	wire arrangement	·
Material Jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         10.5 mm           Tolerance outer diameter (jacket)         10.5 mm           Tolerance outer diameter (jacket)         ± 5 %           Material wire insulation         PP           Amount wires         6           Outer diameter insulation         ± 2,85 mm           Outer diameter insulation         tead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         140           Diameter of silingle wires         0,15 mm           Conductor type diagnetic wire         0,15 mm           Conductor type (wire)         \$1 mm           Conductor type (wire)         \$1 mm           Shore hardness wire insulation (Data)         60 ± 5 Shore D           Nominal voltage AC max.         1000 V           Current load capacity (standard)         to DIN VIDE 0298-4           Current load capacity (wire)         10 kV           Electrical resistance line constant wire         8 CMm @ 20 °C           AC withstand voltage (wire - wire)         10 kV           Min. operating temperature (fixed)	Cable weigth	227,7 g/m
Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CPC-free, halogen-free, silicone-free           Uoter-diameter (jacket)         10,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wises         6           Outer diameter insulation         2,85 mm           Outer diameter tolerance core insulation         ± 5 %           Ingredient freeness wire insulation         140           Diameter of single wires         0,15 mm           Conductor rosssection (wire)         2,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Shore hardness wire insulation (Data)         60 ± 5 Shore D           Nominal voltage AC max.         1000 V           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity (wire wire)         10 kV           AC withstand voltage (wire - wire)         10 kV           Power frequency withstand voltage (wire - wire)         10 kV           Min. operating temperature (static)         80 °C / 90 °C @ 10000 h Operation           Operating temperature (fixed)         80 °C / 90 °C @ 100000 h Operation <td>Material jacket</td> <td>PUR</td>	Material jacket	PUR
Outer-diameter (jacket)         10,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         6           Outer diameter insulation         ± 5 %           Outer diameter insulation         ± 5 %           Ingredient freeness wire insulation         tead-free, cadmitum-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         140           Diameter of single wires         0,15 mm           Conductor crossection (wire)         2,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         8 franded copper wire, bare           Shore hardness wire insulation (Data)         60 ± 5 Shore D           Nominal voltage AC max.         1000 V           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity (wire wire)         19,5 A           Electrical resistance line constant wire         80 Ωkm @ 20 °C           AC withstand voltage (wire - wire)         10 kV           Power frequency withstand voltage (wire - wire)         10 kV           Mix. operating temperature (static)         80 °C / 90 °C @ 10000 h Operation           Operating temperature max. (dynamic)         25 °C	Shore hardness jacket	90 ± 5 Shore A
Outer-diameter (jacket)         10,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         6           Outer diameter insulation         ± 5 %           Outer diameter insulation         ± 5 %           Ingredient freeness wire insulation         tead-free, cadmitum-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         140           Diameter of single wires         0,15 mm           Conductor crossection (wire)         2,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         8 franded copper wire, bare           Shore hardness wire insulation (Data)         60 ± 5 Shore D           Nominal voltage AC max.         1000 V           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity (wire wire)         19,5 A           Electrical resistance line constant wire         80 Ωkm @ 20 °C           AC withstand voltage (wire - wire)         10 kV           Power frequency withstand voltage (wire - wire)         10 kV           Mix. operating temperature (static)         80 °C / 90 °C @ 10000 h Operation           Operating temperature max. (dynamic)         25 °C	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         6           Outer diameter losulation         2,85 mm           Outer diameter tolerance core insulation         ± 5 %           Ingredient freeness wire insulation         ± 5 %           Amount strands (wire)         140           Diameter of single wires         0,15 mm           Conductor crossection (wire)         2,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Shore hardness wire insulation (Data)         60 ± 5 Shore D           Nominal voltage AC max.         1000 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         19,5 A           Ellectrical resistance line constant wire         8 D/km @ 20 °C           AC withstand voltage (wire - wire)         10 kV           Power frequency withstand voltage (wire - wire)         10 kV           Max. operating temperature (stact)         50 °C           Max. operating temperature max. (dynamic)         25 °C           Operating temperature max. (dynamic)         25 °C           UV resistance         DIN EN ISO 48952 A P	Outer-diameter (jacket)	
Amount wires         6           Outer diameter insulation         2.85 mm           Outer diameter insulation         ± 5 %           ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         140           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         2,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Shore hardness wire insulation (Data)         60 ± 5 Shore D           Nominal voltage AC max.         1000 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         19.5 A           Electrical resistance line constant wire         8 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         10 kV           Power frequency withstand voltage (wire - wire)         10 kV           Min. operating temperature (istatic)         -50 °C           Max. operating temperature (istatic)         -50 °C           Max. operating temperature min. (dynamic)         80 °C / 90 °C @ 100000 h Operation           UV resistance         UN EN ISO 4892-2 A           Flame resistance         UL 1581 § 1090   IEC 60332-2-2   UL 1581	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation         2,85 mm           Outer diameter tolorance core insulation         ± 5 %.           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         140           Diameter of single wires         0,15 mm           Conductor vive         Stranded copper wire, bare           Conductor type (wive)         strand class 6           Shore hardness wire insulation (Data)         60 ± 5 Shore D           Nominal voltage AC max.         1000 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire - wire)         19.5 A           Electrical resistance line constant wire         8 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         10 kV           Power frequency withstand voltage (wire - wire)         10 kV           Max. operating temperature (static)         -50 °C           Max. operating temperature (fixed)         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           Gli resistance         DIN EN ISO 4892-2 A           Bending radius (fixed)	Material wire insulation	PP
Outer diameter tolerance core insulation         ± 5 %           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         140           Diameter of single wires         0.15 mm           Conductor crosssection (wire)         2.5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Shore hardness wire insulation (Data)         60 ± 5 Shore D           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 win. wire         19,5 A           Electrical resistance line constant wire         8 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         10 kV           Power frequency withstand voltage (wire - wire)         10 kV           Min. operating temperature (static)         -50 °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           UV resistance         DIN EN ISG 4892-2 A	Amount wires	6
Outer diameter tolerance core insulation         ± 5 %           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         140           Diameter of single wires         0.15 mm           Conductor crosssection (wire)         2.5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Shore hardness wire insulation (Data)         60 ± 5 Shore D           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 win. wire         19,5 A           Electrical resistance line constant wire         8 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         10 kV           Power frequency withstand voltage (wire - wire)         10 kV           Min. operating temperature (static)         -50 °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           UV resistance         DIN EN ISG 4892-2 A	Outer diameter insulation	2,85 mm
Amount strands (wire) 140  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 2,5 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Shore hardness wire insulation (Data) 60 ± 5 Shore D  Nominal voltage AC max. 1000 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 19,5 A  Electrical resistance line constant wire 8 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 10 kV  Power frequency withstand voltage (wire - wire) 10 kV  Min. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature max. (dynamic) 25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  UV resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 § 1090   IEC 60332-2·2   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DINE No 6811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Cuter diameter  Bending radius (dynamic) 10 x Cuter diameter  No. of bending cycles (C-track) 5 m @ 25 °C  Traver sing distance (C-track) 3 n @ 25 °C  Torsion stress ± 180 °/m @ 25 °C  Torsion stress  ± 180 °/m @ 25 °C  Torsion stress  ± 180 °/m @ 25 °C  Torsion stress	Outer diameter tolerance core insulation	± 5 %
Diameter of single wires         0,15 mm           Conductor crosssection (wire)         2,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Shore hardness wire insulation (Data)         60 ± 5 Shore D           Nominal voltage AC max.         1000 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         19,5 A           Electrical resistance line constant wire         8 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         10 kV           Power frequency withstand voltage (wire - wire)         10 kV           Min. operating temperature (static)         -50 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature max. (dynamic)         25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           UV resistance         DIN EN ISO 4892-2 A           Flame resistance         UL 1581 § 1909   IEC 60332-2-2   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404 [Good, application-related testing     <	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Diameter of single wires         0,15 mm           Conductor crosssection (wire)         2,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Shore hardness wire insulation (Data)         60 ± 5 Shore D           Nominal voltage AC max.         1000 V           Current load capacity (standard)         to DIN NDE 0298-4           Current load capacity inin, wire         19,5 A           Electrical resistance line constant wire         8 0 ½km @ 20 °C           AC withstand voltage (wire - wire)         10 kV           Power frequency withstand voltage (wire - wire)         10 kV           Min. operating temperature (static)         -50 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature max. (dynamic)         25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Ulv resistance         Ull 1581 § 1090   IEC 60332-2-2   Ul 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Oil resistance         DiN EN 60811-404 [Good, application-related testing           Bending radius (fixed)         5 x Outer diameter           Bending radius (fynamic)         10 x Outer diameter     <	Amount strands (wire)	140
Conductor crosssection (wire)         2,5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Shore hardness wire insulation (Data)         60 ± 5 Shore D           Nominal voltage AC max.         1000 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         19,5 A           Electrical resistance line constant wire         8 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         10 kV           Power frequency withstand voltage (wire - jacket)         10 kV           Min. 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. (dynamic)         80 °C / 90 °C @ 10000 h Operation           UV resistance         DIN EN ISO 4892-2 A           Flame resistance         U. 1581 § 1090   EC 60332-2-2   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Bending radius (fixed)         5 x Outer diameter           Bending radius (fixed)         5 x Outer diameter	• •	0.15 mm
Conductor type (wire)         strand class 6           Shore hardness wire insulation (Data)         60 ± 5 Shore D           Nominal voltage AC max.         1000 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         19,5 A           Electrical resistance line constant wire         8 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         10 kV           Power frequency withstand voltage (wire - iacket)         10 kV           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 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @	Conductor crosssection (wire)	
Conductor type (wire)         strand class 6           Shore hardness wire insulation (Data)         60 ± 5 Shore D           Nominal voltage AC max.         1000 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         19,5 A           Electrical resistance line constant wire         8 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         10 kV           Power frequency withstand voltage (wire - iacket)         10 kV           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 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @	Material conductor wire	Stranded copper wire, bare
Shore hardness wire insulation (Data)         60 ± 5 Shore D           Nominal voltage AC max.         1000 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         19,5 A           Electrical resistance line constant wire         8 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         10 kV           Power frequency withstand voltage (wire - ijacket)         10 kV           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 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Traver sing distance (C-track) <t< td=""><td>Conductor type (wire)</td><td></td></t<>	Conductor type (wire)	
Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       19,5 A         Electrical resistance line constant wire       8 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       10 kV         Power frequency withstand voltage (wire - lack)       10 kV         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 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         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         Travel speed (C-track)       3,3 m/s @ 25 °C         Tosion stress       ± 180 °/m @ 25 °C	Shore hardness wire insulation (Data)	60 ± 5 Shore D
Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       19,5 A         Electrical resistance line constant wire       8 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       10 kV         Power frequency withstand voltage (wire - lack)       10 kV         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 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         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         Travel speed (C-track)       3,3 m/s @ 25 °C         Tosion stress       ± 180 °/m @ 25 °C	Nominal voltage AC max.	1000 V
Electrical resistance line constant wire 8 \( \textit{D} \textit{KW} \) \( \textit{Q} \) 20 °C  AC withstand voltage (wire - wire) 10 kV  Power frequency withstand voltage (wire - jacket) 10 kV  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 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traver sing distance (C-track) 5 m @ 25 °C  Travel speed (C-track) 3, 3 m/s @ 25 °C  Travel speed (C-track) 2 Mio. 25 °C  Torsion stress ± ±180 °/m @ 25 °C	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire - jacket)  Min. operating temperature (static)  Ac operating temperature (fixed)  Max. operating temperature (fixed)  Max. operating temperature (fixed)  Ac operating temperature min. (dynamic)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  No "C / 90 "C @ 10000 h Operation  WV resistance  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  5 Mio. @ 25 "C  Traver speed (C-track)  7 m @ 25 "C  Travel speed (C-track)  7 or Win @ 25 "C  Torsion stress  ± 180 "/m @ 25 "C	Current load capacity min. wire	19,5 A
Power frequency withstand voltage (wire - jacket)  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 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  5 mi@ 25 °C  Traversing distance (C-track)  3,3 m/s @ 25 °C  Travel speed (C-track)  3,3 m/s @ 25 °C  Torsion stress  ± 180 °/m @ 25 °C  Torsion stress  ± 180 °/m @ 25 °C	Electrical resistance line constant wire	8 Ω/km @ 20 °C
Min. operating temperature (static)  Min. operating temperature (fixed)  Min. operating temperature (fixed)  Min. operating temperature min. (dynamic)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  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)  3,3 m/s @ 25 °C  Travel speed (C-track)  3,3 m/s @ 25 °C  Torsion stress  ± 180 °/m @ 25 °C  Torsion stress  ± 180 °/m @ 25 °C	AC withstand voltage (wire - wire)	10 kV
Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  5 m @ 25 °C  Traver sing distance (C-track)  3,3 m/s @ 25 °C  Torsion stress  ± 180 °/m @ 25 °C  Torsion stress  ± 180 °/m @ 25 °C	Power frequency withstand voltage (wire - jacket)	10 kV
Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  DIN EN 60811-404   Good, application-related testing  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)  3,3 m/s @ 25 °C  Travel speed (C-track)  3,3 m/s @ 25 °C  Torsion stress  ± 180 °/m @ 25 °C	Min. operating temperature (static)	-50 °C
Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  5 m @ 25 °C  Travel speed (C-track)  3,3 m/s @ 25 °C  Torsion stress  ± 180 °/m @ 25 °C  Torsion stress  ± 180 °/m @ 25 °C	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
UV resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  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  Travel speed (C-track) 3,3 m/s @ 25 °C  Trosion stress ± 180 °/m @ 25 °C  Torsion stress ± 180 °/m @ 25 °C	Operating temperature min. (dynamic)	-25 °C
Flame resistance UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  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  Travel speed (C-track) 3,3 m/s @ 25 °C  Torsion stress ± 180 °/m @ 25 °C	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing 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 Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 2 Mio. 25 °C Torsion stress ± 180 °/m @ 25 °C	UV resistance	DIN EN ISO 4892-2 A
Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  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  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 2 Mio. 25 °C  Torsion stress ± 180 °/m @ 25 °C	Flame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
Oil resistance DIN EN 60811-404   Good, application-related testing  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  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 2 Mio. 25 °C  Torsion stress ± 180 °/m @ 25 °C	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) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 2 Mio. 25 °C  Torsion stress ± 180 °/m @ 25 °C	Gasoline resistance	Good, application-related testing
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  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 2 Mio. 25 °C  Torsion stress ± 180 °/m @ 25 °C	Oil resistance	DIN EN 60811-404   Good, application-related testing
No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 2 Mio. 25 °C  Torsion stress ± 180 °/m @ 25 °C	Bending radius (fixed)	5 x Outer diameter
Traversing distance (C-track) 5 m @ 25 °C  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 2 Mio. 25 °C  Torsion stress ± 180 °/m @ 25 °C	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 2 Mio. 25 °C  Torsion stress ± 180 °/m @ 25 °C	No. of bending cycles (C-track)	5 Mio. @ 25 °C
No. of torsion cycles         2 Mio. 25 °C           Torsion stress         ± 180 °/m @ 25 °C	Traversing distance (C-track)	5 m @ 25 °C
Torsion stress ± 180 °/m @ 25 °C	Travel speed (C-track)	3,3 m/s @ 25 °C
Torsion stress ± 180 °/m @ 25 °C	No. of torsion cycles	
Torsion speed 35 cycles/min 25 °C	Torsion stress	± 180 °/m @ 25 °C
	Torsion speed	35 cycles/min 25 °C