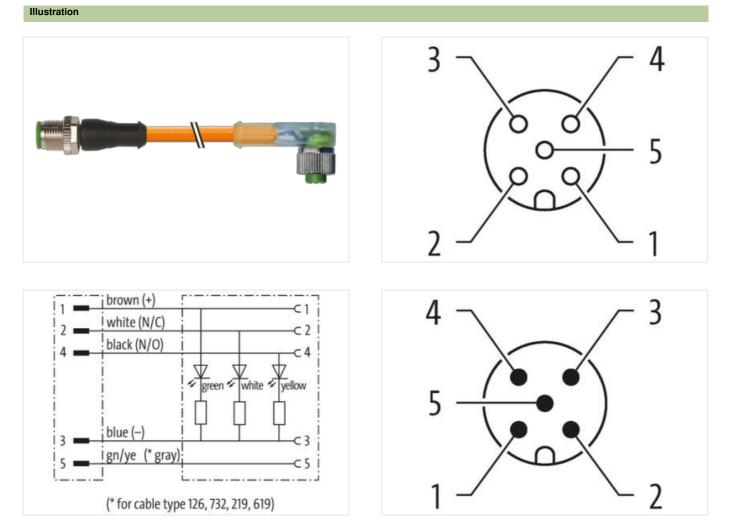


M12 male 0° / M12 female 90° A-cod. LED

PUR 4x0.34+1x0.5 or UL/CSA+robot+drag ch. 0.5m

Male straight – female 90° Zinc die casting, save-cover coated M12 – M12, 5-pole 3× LED (PNP), (NPN) on request Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request 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.

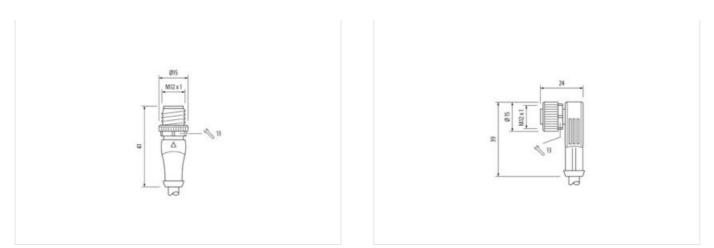
Link to Product



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: 2024-05-19

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Product may differ from Image



Cable length	0,5 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
Material	PUR
No. of poles	5
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
Material	PUR
No. of poles	5
Width across flats	SW13
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

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GTIN	4048879542500
Packaging unit	1
Electrical data Supply	
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Operating voltage DC max. (UL-listed)	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	green, white, yellow
Installation Connection	
Mounting set	M12 x 1
Device protection Electrical	
•	
Additional condition protection degree	inserted, screwed
Pollution Degree	3 0.8 kV
Rated surge voltage Material group (IEC 60664-1)	υ,ο κν Ι
Mechanical data Material data	
Coating locking	safe-cover coated
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	>
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	DIN EN 61076-2-101 (M12)
Installation Cable	
STOOW style jacket	Hybrid, Signal, Power
Cable identification	852
Cable Type	5
Jacket Color	orange
Type of Certificate	cURus
Amount stranding	1
Stranding	5 wires around Core filler twisted
Filler	yes
wire arrangement	brown, black, blue, white, green-yellow
Cable weigth	46,2 g/m
Material jacket	PUR
Shore hardness jacket	58 ± 3 Shore D
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	5,2 mm
Tolerance outer diameter (sheath)	± 5 %

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Outer diameter insulation 1,25 mm Outer diameter trierance core insulation 1 5 % Store hardness wite insulation 14,3 Shore D Ingredient treeness wite insulation 164,4 rec, cadmum-free, CFC-free, halogen-free, silicone-free Amount strands (wive) 42 Dameter of single wises 0,1 mm Conductor crosssection (wive) 0,34 mm ³ Material conductor wive Strand class 6 Conductor wive insulation (Power) PP Outer diameter wire insulation (Power) 1,4 mm Tolerance outer diameter wire insulation (Power) 1,45 % Shore handness wire insulation (Power) 14,5 % Diameter of single wires (Power) 14,3 Shore D ingredient freemess wire insulation (Power) 14,3 Shore D ingredient freemess wire insulation (Power) 14,3 Shore D ingredient freemess wire insulation (Power) 0,2 mm Wire conductor cores section (Power) 0,2 mm Mitterial and/councer wire (Power) Strand class 5 Travel godd Line (Power) Strand class 5 Travel godd Class / Exp. (Strand class 5 Strand class 5 Conductor type wir	Material wire insulation	PP
Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation YA ± 3 Shore D Imagedient freeness wire insulation 44 Arnout strands (wire) 42 Diameter of single wires 0,1 mm Conductor types conductor consection (wire) 0,3 mm ² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand dass 6 Material wire insulation (Power) PP Other diameter wire insulation (Power) 1,4 mm Tolerance outer diameter wire insulation (Power) 1,4 mm Tolerance outer diameter wire insulation (Power) 16 Diameter of single wires (Power) 0,2 mm Wire conductor proves Strande dopper wire, bare Conductor type (Power) Strande dopper wire, bare Conductor type wires (Power) 0,5 mm ² Diameter of single wires (Power) Strande dopper wire, bare Conductor type wire (Power) S	Amount wires	4
Shore hardness wire insulation 74 ± 3 Shore D Ingredent freeness wire insulation lead/free, cadminum-free, CFC-free, halogen-free, silicone-free Manuns transk (vire) 42 Diameter of single wires 0,1 mm Canductor orassection (vire) 0,24 mm ² Material conductor wire Strand doc poper wire, bare Conductor vire Strand doc poper wire, bare Conductor wire insulation (Power) PP Outer diameter wire insulation (Power) 1,4 mm Tolerance outer diameter wire insulation (Power) 65 % Shore hardness wire insulation (Power) 74:3 Shore D Ingredent freeress wire insulation (Power) 16 Diameter of single wires (Power) 16 Diameter of single wires (Power) 0,5 mm ² Material conductor wire (Power) 0,5 mm ² Vire conductor wire (Power) Strand class 5 Traversing distance (C-tack) 5 m @ 25 °C harizontal Traversing distance (C-tack) 5 m @ 25 °C harizontal Traversing distance (C-tack) 1 Normist valdage AC max. 300 V Corrant load capacity (sindard) 10 DIN VDE	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, sillcone-free Arnount strands (wire) 42 Diameter of single wires 0,1 mm Conductor prosestion (wire) 0,34 mm ² Stranded copper wire, bare 0.00000000000000000000000000000000000	Outer diameter tolerance core insulation	± 5 %
Amount strands (wire) 42 Diameter of single wires 0.1 mm Conductor crossection (wire) 0.34 mm² Material conductor wire Stranded copper wire, bare Conductor crossection (wire) PP Outer diameter wire insulation (Power) 14 mm Tolerance outer diameter wire insulation (Power) 14 mm Tolerance outer diameter wire insulation (Power) 14 mm Tolerance swire insulation (Power) 14 mm Wire conductor cross section (Power) 0.5 mm² Mine conductor cross section (Power) 0.5 mm² Wire conductor cross section (Power) 0.5 mm² Traversing distance (Crask) 1 Traversing distance (Crask) 1 Nominal votage 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 (standard) to DIN VDE 0298.4 Current load capacity (standard) <td>Shore hardness wire insulation</td> <td>74 ± 3 Shore D</td>	Shore hardness wire insulation	74 ± 3 Shore D
Dlameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm ³ Material conductor vire Stradd copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) PP Outer diameter wire insulation (Power) 1.4 mm Tolerance outer diameter wire insulation (Power) 1.4 mm Diameter of single wires (Power) 74.13 Shore D Diameter of single wires (Power) 0.2 mm Wire conductor vorse section (Power) 0.5 mm ³ Material conductor wire (Power) Strand class 5 Traversing del Chrack) 5 m @ 25 °C horizontal Travel ange (Chrack) 1 Normal voltage AC max. 300 V Current load capacity (standard) to DN VDE 0298-4 Current load capacity (standard) to DN VDE 0298-4 Current load capacity (wint wire) 4.5 A Electrical resistance line constant wire 60 Q Dxm @ 20 °C <td>Ingredient freeness wire insulation</td> <td>lead-free, cadmium-free, CFC-free, halogen-free, silicone-free</td>	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire) 0.34 mm ⁴ Material orductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) PP Culer diameter wire insulation (Power) 1.4 mm Tolerance outer diameter wire insulation (Power) 1.4 5 % Shore hardmess wire insulation (Power) 1.43 Shore D Ingredient Ineeness wire insulation (Power) 1.43 Shore D Ingredient Ineeness wire insulation (Power) 0.2 mm Wire conductor wire (Power) 0.2 mm Wire conductor wire (Power) 0.5 mm ² Conductor type wire (Power) 0.5 mm ² Traversing distance (C-track) 5 m @ 25 °C horizontal Traversing distance (C-track) 1 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 4.5 A Electrical resistance one constant wire (60 ob QArm @ 20 °C AC withstand voltage (wire - wire) 2.5 KV @ 60 s Power tropueryw withstand voltage (wire - wire) 2.5 KV @ 60	Amount strands (wire)	42
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) 1,4 mm Tolerance outer diameter wire insulation ±5 % Shore hardness wire insulation (Power) 1,4 mm Tolerance outer diameter wire insulation (Power) 7433 Shore D Ingredient freeness wire insulation (Power) 16 Diameter of single wires (Power) 0,2 mm Wire conductor cross section (Power) 0,5 mm² Material conductor wire (Power) 0,5 mm² Material conductor wire (Power) 0,5 mm² Material conductor wire (Power) Strand class 5 Travevising distance (Cruck) 5 m @ 28 °C horizontal Travel speed (Cruck) 1 Nornial voltage AC max. 300 V Current load capacity min. wire 4,5 A Electrical resistance line constant wire 60 Ω/km @ 20 °C Ack withstand voltage (wire - wire) 2,5 kV @ 60 s Dorperating temperature (statc) 40 °C Min. operating temperature (mater) 80 °C / 90 °C @ 10000 h Operation Operating temperature (mater) 80 °C / 90 °C @	Diameter of single wires	0,1 mm
Conductor type (wire) strand class 6 Material wire insulation (Power) PP Outer diameter wire insulation (Power) 1.4 mm Tolerance outer diameter wire insulation (Power) 1.45 % Shore hardness wire insulation (Power) 7433 Shore D Ingredient freeness wire insulation (Power) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands wire (Power) 0.5 mm ² Diameter of single wires (Power) 0.5 mm ² Material conductor vires (Power) 0.5 mm ² Conductor type wire (Power) Strande class 5 Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 1 Nominal voltage AC max. 300 V Current load capacity (strander) b DIN VDE 0298-4 Current load capacity (strander) b DIN VDE 0298-4 Current load capacity (strander) 90 V/m @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Electrical resistance line constant wire 60 Q.Hm @ 20 °C Loop resistance 6.8 A Min. operating temperature (strack) 40 °C Ac withstand voltage (wire - wire	Conductor crosssection (wire)	0,34 mm²
Material wire insulation (Power) PP Outer diameter wire insulation (Power) 1.4 mm Tolerance outer diameter wire insulation 45 % Shore hardness wire insulation (Power) 74:3 Shore D Ingredient Treeness wire insulation (Power) 16 Diameter of single wires (Power) 16 Diameter of single wires (Power) 0.5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor vipe wire (Power) Stranded copper wire, bare Current load capacity (standard) to DIN VDE 0298.4 Current load capacity min. wire 4,5 A Electrical resistance constant wire 60 2/km @ 20 °C Ac winstand wollage (wire - wire) 2,5 kV @ 60 s Copper sistance 6.8 A Min.	Material conductor wire	Stranded copper wire, bare
Outer diameter wire insulation (Power) 1.4 mm Tolerance outer diameter wire insulation ±5 % Shore hardness wire insulation (Power) 74±3 Shore D Ingredient freeness wire insulation (Power) 16 Diameter of single wires (Power) 0.2 mm Wire conductor cross section (Power) 0.5 mm² Anount strands wire (Power) 0.5 mm² Outcot rows (Power) Strand class 5 Conductor yee (Power) Strand class 5 Traversing distance (C-track) 5 m @ 25 °C horizontal Traversing distance (C-track) 1 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN WE 0290 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power (requency withstand voltage (wire - wire) 2.5 kV @ 60 s Power (requency withstand voltage (wire - wire) 2.5 kV @ 60 s Coreating temperature mix. (dynami	Conductor type (wire)	strand class 6
Tolerance outer diameter wire insulation (Power) ±5 % Shore hardness wire insulation (Power) 74.3 Shore D Ingredient freeness wire insulation (Power) 16 Diameter of single wires (Power) 0,2 mm Wire conductor cross section (Power) 0,5 mm² Material conductor wire (Power) Strand deass 5 Conductor type wire (Power) Strand deass 5 Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 1 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0288-4 Current load capacity min. wire 4.5 A Electrical resistance contain wire 60 Ωkm @ 20 °C Ac withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - acket) 2.5 kV @ 60 s None orating temperature (static) -40 °C Max. oparating temperature (Material wire insulation (Power)	PP
(Power) ±5 % Shore hardness wire insulation (Power) 74±3 Shore D Impredient freeness wire insulation (Power) 16 Diameter of single wires (Power) 0.2 mm Wire conductor orse section (Power) 0.5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) Stranded copper wire, bare Current load capacity (strander) to DIN VDE 0298-4 Current load capacity (strander) to DIN wire 20 °C Electrical resistance lone constant wire 60 DArm @20 °C AC withstand voltage (wire - wire) 2,5 KV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 KV @ 60 s Doperating temperature min. (dynamic) <	Outer diameter wire insulation (Power)	1,4 mm
Ingredient freeness wire insulation (Power) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands wire (Power) 0,2 mm Wire conductor ross section (Power) 0,5 mm ² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) Stranded copper wire, bare Conductor type wire (Power) Stranded copper wire, bare Conductor type wire (Power) Strand class 5 Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 1 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (int. wire 4,5 A Electrical resistance conting wire (Power) 39 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Loop resistance 6.8 A Min. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Flame resistance	Tolerance outer diameter wire insulation (Power)	±5 %
Amount strands wire (Power) 16 Diameter of single wires (Power) 0,2 mm Wire conductor cross section (Power) 0,5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor lype wire (Power) Stranded copper wire, bare Conductor wire (Power) Strand class 5 Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 1 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 60 0,2 km @ 20 °C Cod withstand voltage (wire - wire) 2,5 kV @ 60 s Coop resistance 6,8 A Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Gasoine resistance Good, application-related testing Operating temperature (static) -40 °C Gasoine re	Shore hardness wire insulation (Power)	74±3 Shore D
Diameter of single wires (Power) 0,2 mm Wire conductor cross section (Power) 0.5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) Strand class 5 Traversing distance (C-track) 5 m @ 25 °C horizontal Traversing distance (C-track) 1 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 60 Ω/km @ 20 °C Electrical resistance uncertaint wire 0,5 KV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 KV @ 60 s Power frequency withstand voltage (wire - distance) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Chemical resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Good, application-related testing Cold resistance Good, application-related testing Gasolin	Ingredient freeness wire insulation (Power)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Wire conductor cross section (Power) 0.5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) Strand class 5 Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 1 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4.5 A Electrical resistance ine constant wire 60 Ωkm @ 20 °C Electrical resistance scotting wire (Power) 39 Ω/km @ 20 °C AC withstand voltage (wire - 2.5 kV @ 60 s Power frequency withstand voltage (wire - 2.5 kV @ 60 s Loop resistance 6.8 A Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) 60 c/ 90 °C @ 10000 h Operation Flame resistance <	Amount strands wire (Power)	16
Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) Strand class 5 Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 1 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 (standard) 60 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - apacket) 2.5 kV @ 60 s Power frequency withstand voltage (wire - apacket) 4.0 °C Max. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Power frequency withstand voltage (wire - apacket) 2.5 kV @ 60 s Correating temperature (static) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Power frequency withstand voltage (wire - application-related testing Corre (application-related testing) Operating temperature (static) 40 °C C Max. operating temperature (static)	Diameter of single wires (Power)	0,2 mm
Conductor type wire (Power) Strand class 5 Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 1 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4.5 A Electrical resistance line constant wire 60 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - acket) 40 °C AC withstand voltage (wire - acket) 40 °C Advact 80 °C / 90 °C @ 10000 h Operation Operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Chernical resistance 6.8 A Min. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) 80 °C / 90 °C @ 10000 h Operation Filam resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-re	Wire conductor cross section (Power)	0,5 mm ²
Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 1 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 60 0/km @ 20 °C Electrical resistance ine constant wire 60 0/km @ 20 °C Electrical resistance coating wire (Power) 39 0/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - isoket) 2,5 kV @ 60 s Loop resistance 6,8 A Min. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1000 EC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance	Material conductor wire (Power)	Stranded copper wire, bare
Travel speed (C-track) 1 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 60 Ω/km @ 20 °C AC withstand voltage (wire - wire) 25 kV @ 60 s Power frequency withstand voltage (wire - iacket) 2,5 kV @ 60 s Power frequency withstand voltage (wire - iacket) 40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) 50 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) 50 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing IDIN EN 60811-404 Bending radius (fiked)	Conductor type wire (Power)	Strand class 5
Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire60 Ω/km @ 20 °CElectrical resistance coating wire (Power)39 Ω/km @20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - ackett)2,5 kV @ 60 sLoop resistance6,8 AMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CQuerting temperature (static)-25 °COperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationPartice resistanceGood, application-related testingGasoline resistanceGood, application-related testingOll resistanceGood, application-related testingOll resistanceGood, application-related testingOll resistanceGood, application-related testingOll resistanceGood, application-related testingBending radius (fixed)5 × Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Traversing distance (C-track)	5 m @ 25 °C horizontal
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 AElectrical resistance line constant wire60 Ω/km @ 20 °CElectrical resistance coating wire (Power)39 Ω/km @20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - acket)2,5 kV @ 60 sLoop resistance6,8 AMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-25 °COperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDi resistanceGood, application-related testingOil resistanceGood, application-related testingDi resistanceGood, application-related testingDi resistance10 N × Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Travel speed (C-track)	1
Current load capacity min. wire 4,5 A Electrical resistance line constant wire 60 Ω/km @ 20 °C Electrical resistance coating wire (Power) 39 Ω/km @20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2,5 kV @ 60 s Loop resistance 6,8 A Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 60 Ω/km @ 20 °C Electrical resistance coating wire (Power) 39 Ω/km @20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2,5 kV @ 60 s Loop resistance 6,8 A Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing <td< td=""><td>Current load capacity (standard)</td><td>to DIN VDE 0298-4</td></td<>	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance coating wire (Power)39 Ω/km @20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2,5 kV @ 60 sLoop resistance6,8 AMin. operating temperature (static)-40 °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 OperationFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceI0 v Outer diameterBending radius (fixed)5 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Current load capacity min. wire	4,5 A
AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2,5 kV @ 60 s Loop resistance 6,8 A Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical 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 In 0 No. @ 25 °C No. of torsion cycles 1 Mio. Travel speed (C-trac	Electrical resistance line constant wire	60 Ω/km @ 20 °C
Power frequency withstand voltage (wire - jacket)2,5 kV @ 60 sLoop resistance6,8 AMin. operating temperature (static)-40 °CMax. operating temperature (ixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2Chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingI ravel speed (C-track)10 X Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Electrical resistance coating wire (Power)	39 Ω/km @20 °C
jacket)2,5 N (@ b0 sLoop resistance6,8 AMin. operating temperature (static)-40 °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 OperationFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2Chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDi ravisu (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Min. operating temperature (static)-40 °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 OperationFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingDi resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Power frequency withstand voltage (wire - jacket)	2,5 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 OperationFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDi v Outer diameterTravel speed (C-track)Travel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Loop resistance	6,8 A
Operating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation 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 Good, application-related testing Ding radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 360 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
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 Good, application-related testing Oil resistance Good, application-related testing Dil resistance Good, application-related testing Bending radius (fixed) 5 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 360 °/m	Operating temperature min. (dynamic)	-25 °C
chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 360 °/m	Flame resistance	UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2
Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 10 × Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 360 °/m	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 360 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 360 °/m	Oil resistance	Good, application-related testing DIN EN 60811-404
Travel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Bending radius (fixed)	5 x Outer diameter
No. of torsion cycles 1 Mio. Torsion stress ± 360 °/m	Bending radius (dynamic)	10 x Outer diameter
Torsion stress ± 360 °/m	Travel speed (C-track)	10 Mio. @ 25 °C
	No. of torsion cycles	1 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 360 °/m
	Torsion speed	35 cycles/min

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: 2024-05-19

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