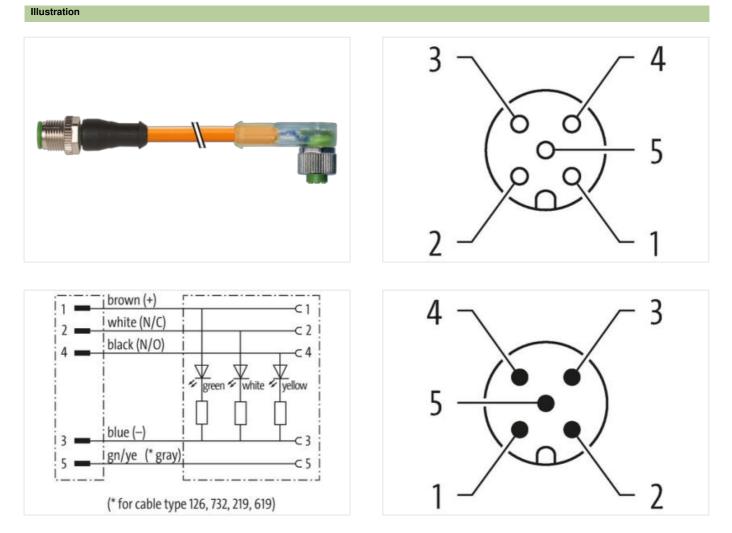


M12 male 0° / M12 female 90° A-cod. LED

PUR 4x0.34+1x0.5 or UL/CSA+robot+drag ch. 1.5m

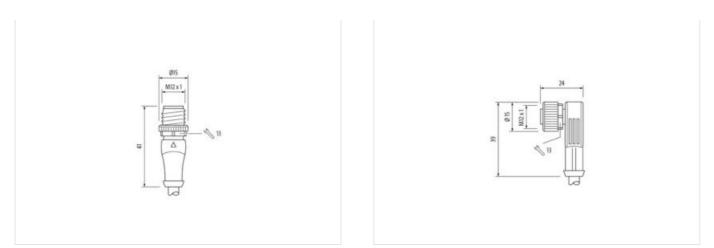
Male straight – female 90° Zinc die casting, save-cover coated M12 – M12, 5-pole 3× LED (PNP), (NPN) on request Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested 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





Product may differ from Image



Cable length	1,5 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	4048879408929
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
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	
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	
· · · ·	-25 °C
Operating temperature min. Operating temperature max.	-23 °C 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. Attention: Observe the permissible bending radii when laving cables, as the IP protection class can be
Note on bending radius	endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation Cable	
wire arrangement	brown, black, blue, white, green-yellow
Cable identification	852
Cable Type	5
Function cable	Hybrid, Signal, Power
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) Outer-diameter (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
	5,2 mm



Material wire insulation PP Amount wire 4 Outer diameter insulation 1.25 mm Cater diameter insulation 1.5 % Some hardness wire insulation 1.4 Shore D Improdim treenous wire insulation 1.4 Shore D Conductor crossaccion (wire) 4.2 Shore D Conductor crossaccion (wire) 0.34 mm ² Conductor crossaccion (Power) 1.4 mm Telerano colat Gravita (wire)	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation 1.25 mm Outer diameter folgrance ore insulation 1.45 mk Shore handress wire insulation 1.45 % Shore handress wire insulation 1.43 Shore D Impredient feeness wire insulation 1.43 Shore D Dambert of single wires 0.41 mm Conductor crosssection (wire) 0.34 mm² Material ordination wire Strande to coper wire, bare Conductor type (wire) strand class 6 Material ordination (Power) PP Outer diameter wire insulation (Power) 1.4 mm Tolerance outer diameter wire insulation (Power) 1.4 mm Ingredient freeness wire insulation (Power) 1.4 mm Amount wires (Power) 1.6 Diameter or single wires (Power) 1.6 Diameter or single wires (Power) 0.5 mm² Current toxic appacity min. wire 4.5 A Current toxic appacity min. wire 4.5 A Curr	Material wire insulation	PP
Outer diameter loterance ocre insulation ± 5 %, Shore hardness wire insulation 14 ± 3 Shore D Impredient Teeness wire insulation 1ead free, cadmium-free, CFC free, halogen-free, silicone-free Amount strands (wire) 42 Dameter of single wires 0.1 mm Concluctor reassection (wire) 0.34 mm² Concluctor yire (wire) stranded coper wire, bare Concluctor yire (Power) 14 mm Tolerance cuter (Power) 14 mm Tolerance cuter (Power) 16 Dameter of single wires (Power) 0.2 mm Wire conductor yire stranded coper wire, bare Constructor type wire (Power) Stranded cop	Amount wires	4
Shore hardness wire insulation 74 ± 3 Shore D Ingredent Treancess wire insulation lead-tree, cafmum-free, CPC-free, halogen-free, silicone-free Amount strands (vire) 0.3 mm ³ Conductor crosssection (wire) 0.34 mm ³ Material conductor wire Stranded copper wire, bare Conductor crosssection (wire) 9.4 mm ³ Material vire insulation (Power) 1.4 mm Toterance outer diameter wire insulation (Power) 1.4 mm Toterance outer diameter wire insulation (Power) 14 S % Shore hardness wire insulation (Power) 7423 Shore D Torgerdent Treances wire insulation (Power) 16 Diameter of single wires (Power) 0.2 mm Wire conductor cross section (Power) 0.3 mm ² Material conductor wire (Power) Strande copper wire, bare Conductor type wire (Power) 0.5 mm ² Material conductor wire (Power) Strande copper wire, bare Conductor type wire (Power) Strande copper wire, bare Conductor type wire (Power) Strand class 5 Nominal voltage (wire - wire) Strande copper wire, bare Conductor type wire (Power) Strand class 5 <td>Outer diameter insulation</td> <td>1,25 mm</td>	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, allicone-free Amount strands (vire) 42 Damater of single wires 0,1 mm Conductor crosssection (vire) 0.34 mm ³ Material conductor wire Stranded copper wire, bare Conductor type (vire) strand class 6 Material conductor wire Stranded copper wire, bare Conductor type (vire) Hard class 6 Material conductor wire Stranded case 6 Conductor type (vire) 14 mm Tolerance outer fameter wire insulation (Power) 7433 Shore D Ingredient freeness wire insulation (Power) 14 mm Amount strands wire (Power) 16 Dameter of single wires (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 Canductor type wire (Power) Stranded copper wire, bare Canductor type wire (Power) Stranded copper wire, bare Canductor type wire (Power) Stranded copper wire, bare Canduct	Outer diameter tolerance core insulation	±5%
Anount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crossescion (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor crossescion (wire) PP Outer diameter wire insulation (Power) PP Outer diameter wire insulation (Power) 1,4 mm Tolerance outer diameter wire insulation (Power) 14,4 mm Tolerance outer diameter wire insulation (Power) 14,4 mm Tolerance outer diameter wire insulation (Power) 14,3 Store D Ingredient freeness wire insulation (Power) 14 Amount strands wire (Power) 16 Diameter of single wires (Power) 0,2 mm Wire conductor cross societion (Power) 0,5 mm² Material conductor wire (Power) 0,5 mm² Material conductor wire (Power) 0,5 mm² Constluctor (power) Strandel copper wire, bare Constluctor gassity (strandard) to DIN VDE 0298-4 Current load capacity (strandard) to DIN VDE 0298-4 Current carling capacity mini, wire 4,5 A Carrent carling capacity mini, wire (Power) 2,5 KV @ 60 s	Shore hardness wire insulation	74 ± 3 Shore D
Dameter of single wires 0,1 mm Conductor vicessection (vice) 0.34 mm ² Material conductor vice Stranded copper wire, bare Conductor type (wire) strand class 6 Material conductor vice insulation (Power) PP Cutor diameter wire insulation (Power) 1.4 mm Tolerance outer diameter wire insulation (Power) 74.25 Shore D Ingredient Teeness wire insulation (Power) 1 Amount wires (Power) 16 Diameter of single wires (Power) 16 Diameter of single wires (Power) 0.5 mm ² Miter conductor coss section (Power) 0.5 mm ² Material conductor vice (Power) 0.5 mm ² Material conductor vice (Power) Stranded cass 5 Nominal voitage AC max. 300 V Current load capacity (strandard) to DIN VDE 0298-4 Current load capacity (min. wire 4.5 A Current load capacity (min. wire (Power) 5.8 A Electrical resistance Ione constant wire 60.0 km @ 20 °C AC withstand voitage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voitage (wire - wire) 2.5 kV @ 60 s <	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor roressection (wire) 0.34 mm² Material conductor wire Stranded copper wire, bare Conductor yoy (wire) stranded case 6 Material wire insulation (Power) PP Outer diameter wire insulation (Power) 1.4 mm Tolerance undre diameter wire insulation (Power) 1.4 mm Tolerance undre diameter wire insulation (Power) 1.4 mm Tolerance undre diameter wire insulation (Power) 1.4 mm Impredient Thereass wire insulation (Power) 1.6 % Diameter disingte wire (Power) 16 Diameter disingte wire (Power) 0.5 mm² Material conductor wire (Power) 0.5 mm² Material conductor wire (Power) Strand class 5 Nominal voltage AC max. 300 V Current load capacity min. wire (Power) 6.8 A Electrical resistance conting wire (Power) 6.8 A Electrical resistance conting wire (Power) 2.5 kV @ 60 s Mix. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Mix. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Mix. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation	Amount strands (wire)	42
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand dass 6 Material wire insulation (Power) 1.4 mm Tolerance outer diameter wire insulation (Power) 1.4 mm Tolerance outer diameter wire insulation (Power) 74:3 Shore D Ingrediant Henness wire insulation (Power) 1 Amount wires (Power) 1 Amount wires (Power) 1 Amount wires (Power) 0.2 mm Wire conductor wire (Power) 0.5 mm² Material conductor wire (Power) 0.5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor by wire (Power) Stranded copper wire, bare Conductor by wire (Power) 0.5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor by wire (Power) Stranded copper wire, bare Conductor wire (Power) Stranded cosper stranded cosper stranded cosper strand coss stranded conductor wire (Power)	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) 1.4 mm Tolerance outer diameter wire insulation (Power) 1.4 stm Ingredient freeness wire insulation (Power) 1e3 % Shore hardness wire insulation (Power) 1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands wire (Power) 16 Diameter of single wires (Power) 0.5 mm ² Material conductor wire (Power) Strande class 5 Nominal voltage AC max. 300 V Current load capacity (sintandri) to DIN VDE 0298-4 Current load capacity (sintandri) to DIN VDE 0298-4 Current load capacity (sintandri) to DIN VDE 0298-4 Current load capacity (sintandri) to DIN Wire 20 °C Electrical resistance coating wire (Power) 35 AMm @20 °C Electrical resistance coating wire (Power) 35 AMm @20 °C Min. operating temperature (static) 4°C Min. operating temperature (static) 4°C Min. operating temperature max. (dynamic) 25 °C <td>Conductor crosssection (wire)</td> <td>0,34 mm²</td>	Conductor crosssection (wire)	0,34 mm ²
Material wire insulation (Power) PP Duter diameter wire insulation (Power) 1,4 mm Tolerance outer diameter wire insulation 45 % Shore hardness wire insulation (Power) 74:3 Shore D Ingredient fleeness wire insulation (Power) 1 Amount wires (Power) 1 Amount wires (Power) 1 Amount wires (Power) 0.2 mm Wire conductor cross section (Power) 0.5 mm² Material conductor wire (Power) Stranded copper wire, bare Conductor vipe wire (Power) Stranded cost Current load capacity min. wire 4.5 A Current carrying capacity min. wire 4.5 A Current load capacity min. wire (Power) 3.9 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 Min. operating temperature (istatic) 40 °C <	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) 7433 Shore D Ingredient freeness wire insulation (Power) 7433 Shore D Ingredient freeness wire insulation (Power) 14 Amount wire (Power) 16 Diameter of single wires (Power) 0,5 mm² Miterical conductor wire (Power) 0,5 mm² Miterical conductor wire (Power) Strand class 5 Nominal voiting 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 (Power) 3.9 Δkm @20 °C Electrical resistance ine constant wire 60 Ω km @20 °C Electrical resistance coaling wire (Power) 3.9 Δkm @20 °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 Ac withstand voltage (wire-wire) 2,5 kV @ 60 s Power requency withstand Voltage (wire-wire) 2,5 kV @ 60 s	Conductor type (wire)	strand class 6
Tolerance outer diameter wire insulation (Power) ±5 % Shore hardness wire insulation (Power) Isad-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strank (Power) 1 Amount strank wire (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 Conductor type wire (Power) Stranded copper wire, bare Current load capacity (standard) to DIN VDE 0298.4 Current load capacity (standard) to DIN WE 029°C AC withstand voltage (wire - iscalatore conting wire (Power) 39 O/km @20°C AC withstand voltage (wire - iscalatore conting wire (Stande) 40 °C Max. operating temperature (tskalc) -40 °C Max. operating temperature (tskalc) -40 °C Max. operating temperature (tskalc) -25 °C <t< td=""><td>Material wire insulation (Power)</td><td>PP</td></t<>	Material wire insulation (Power)	PP
(Power) 25 % Shore hardness wire insulation (Power) 74±3 Shore D Ingradient freeness wire insulation (Power) 1 Amount wires (Power) 1 Amount strands wire (Power) 16 Diameter of single wires (Power) 0.5 mm ² Mite conductor cross section (Power) 0.5 mm ² Material conductor wire (Power) Strand dopper wire, bare Conductor type wire (Power) Strand dosper wire, bare Onductor wire (Power) Strand dosper wire, bare Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire wire) 6.8 A Electrical resistance locating wire (Power) 39 D/km @20 °C Electrical resistance locating wire (Power) 39 D/km @20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - isologue) 2.5 kV @ 60 s Min. operating temperature (istatic) -40 °C Max. operating temperature (istatic) -40 °C Max. operating temperature (istatic) -50 °C Operating temperature (istatic)	Outer diameter wire insulation (Power)	1,4 mm
Ingredient freeness wire insulation (Power) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount wires (Power) 1 Amount strands wire (Power) 0.2 mm Wire conductor cross section (Power) 0.2 mm Wire conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) Strand class 5 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire (Power) 68 A Electrical resistance line constant wire 60 Ωkm @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - 2,5 kV @ 60 s 2,5 kV @ 60 s jacket) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature		±5 %
Amount wires (Power) 1 Amount strands wire (Power) 0.2 mm Diareter 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) Stranded capso Material conductor wire (Power) Stranded capso Current load capacity min. wire 4.5 A Current load capacity min. wire 6.8 A Electrical resistance ine constant wire 60 Ωkm @ 20 °C Electrical resistance ine constant wire 60 Ωkm @ 20 °C AC withstand voltage (wire - ine) 2.5 kV @ 60 s Power frequency withstand voltage (wire - iackel) 2.5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) 30 °C /90 °C @ 10000 h Operation Flame resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing	Shore hardness wire insulation (Power)	74±3 Shore D
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 type wire (Power) Strand class 5 Nominal voltage AC max. 300 V Current toad capacity (standard) to DIN VDE 0298-4 Current coat capacity min. wire 4.5 A Current coat capacity min. wire (Power) 39 Ωkm @ 20 °C Electrical resistance line constant wire 60 Ωkm @ 20 °C AC withstaind voltage (wire - 2.5 kV @ 60 s Power frequency withstand voltage (wire - 2.5 kV @ 60 s Power frequency withstand voltage (wire - 2.5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -25 °C Operating temperature (static) -25 °C Operating temperature (static) 5 × Oute @ 10000 h Operation Flame resistance UL 1581 § 1000 J IEC 60322-22 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance	Ingredient freeness wire insulation (Power)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Diameter of single wires (Power) 0,2 mm Wire conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) Strand class 5 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Current load capacity min. wire (Power) 38 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 - iacket) 40 °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 Flame resistance Good, application-related testing Oil resistance G	Amount wires (Power)	1
Wire conductor cross section (Power) 0.5 mm² Material conductor wire (Power) Strand class 5 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) to DIN VDE 0298-4 Current carrying capacity min. wire 4.5 A Current carrying capacity (standard) 60.0/km @ 20 °C Electrical resistance inc constant wire 60.0/km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - interpretive for a standard) 2.5 kV @ 60 s Power frequency withstand voltage (wire - interpretive for a standard) 2.5 kV @ 60 s Power frequency withstand voltage (wire - interpretive for a standard) 2.5 kV @ 60 s Power frequency withstand voltage (wire - interpretive for a standard) 2.5 kV @ 60 s Querating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -25 °C Operating temperature (max. (dynamic) -25 °C Operating temperature (static) 60 °C / 90 °C @ 10000 h Operation Flame resistance Goo	Amount strands wire (Power)	16
Material conductor wire (Power) Stranded copper wire, bare Conductor type wire (Power) Strand class 5 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4.5 A Current load capacity min. wire (Power) 6.8 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 - 2.5 kV @ 60 s Aix. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (static) -40 °C Max. operating temperature (static) 40 °C Operating temperature (static) -25 °C Operating temperature (static) -80 °C / 90 °C @ 10000 h Operation If learne resistance UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Glaie resistance Good, application-related testing Glaie resistance Good, application-related testing Glaie resistance Good, application-related testing Gli resistance Good, application-related testing Oil resistance	Diameter of single wires (Power)	0,2 mm
Conductor type wire (Power)Strand class 5Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current carrying capacity min. wire4.5 ACurrent carrying capacity min. wire (Power)6.8 AElectrical resistance line constant wire60 Ω /km $@$ 20 °CAC withstand voltage (wire - wire)2.5 kV $@$ 60 sPower frequency withstand voltage (wire - iacket)2.5 kV $@$ 60 sMax. operating temperature (static)-40 °CMax. operating temperature (tixed)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 testing 101N EN 60811-404Bending radius (dynamic)10 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio.Traversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio.Torsion stress \pm 360 °/m	Wire conductor cross section (Power)	0,5 mm ²
Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Current carrying capacity min. wire 60 Ω/km @ 20 °C Electrical resistance coating wire (Power) 68,8 A 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 - iacket) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Operating temperature (mixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (static) -40 °C Max. operating temperature (static) -25 °C Operating temperature (mixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (static) -25 °C Operating temperature (static) -40 °C Max. operating temperature (static) -25 °C Operating temperature (static) 60 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1090 J IEC 60332-2-2 / UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Oill resistance Good, applicati	Material conductor wire (Power)	Stranded copper wire, bare
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Current carrying capacity min. wire (Power) 6,8 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) -40 °C Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation 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 DIN EN 608	Conductor type wire (Power)	Strand class 5
Current load capacity min. wire4,5 ACurrent carrying capacity min. wire (Power)6,8 AElectrical resistance line constant wire60 Q/km @ 20 °CElectrical resistance coating wire (Power)39 Q/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2,5 kV @ 60 sMin. 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 resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2Chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingDi for on cold (frack)5 m @ 25 °C <td>Nominal voltage AC max.</td> <td>300 V</td>	Nominal voltage AC max.	300 V
Current carrying capacity min. wire (Power) 6.8 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 Max. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1000 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 Oil resistance Good, application-related testing No. of bending cycles (C-track) 10 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Bending radius (dynamic) 10 wolter diameter No. of bending cycles (C-track) 5 m @ 25 °C <	Current load capacity (standard)	to DIN VDE 0298-4
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 Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °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 Flame resistance UL 1581 § 100 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 Dil resistance Good, application-related testing Obil resistance Good, application-related testing Dil resistance Good, application-related testing Dil resistance Good, application-related testing </td <td>Current load capacity min. wire</td> <td>4,5 A</td>	Current load capacity min. wire	4,5 A
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 Min. operating temperature (static) -40 °C Max. operating temperature (tixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation 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 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 m @ 25 °C No. of torsion cycles 1 Mio. Traversing distance (C-track) 5 m @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 360 °/m	Current carrying capacity min. wire (Power)	6,8 A
AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 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 No. of bending cycles (C-track) 10 × Outer diameter Bending radius (dynamic) 10 × Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C No. of torsion cycles 1 Mio. Torsion stre	Electrical resistance line constant wire	60 Ω/km @ 20 °C
Power frequency withstand voltage (wire - jacket) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 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 No. of bending cycles (C-track) 10 x Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 360 °/m	Electrical resistance coating wire (Power)	39 Ω/km @20 °C
jacket)2.5 N/@ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)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 testingNo. of bending cycles (C-track)10 Nio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C horizontalTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
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 Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Div x Outer diameter Bending radius (fixed) Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 360 °/m		2,5 kV @ 60 s
Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 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 No. of bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 360 °/m	Min. operating temperature (static)	-40 °C
Operating 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 testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C horizontalTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame 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 diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C horizontalTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 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 diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C horizontalTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Gasoline resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C horizontalTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Flame resistance	UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2
Oil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C horizontalTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	chemical resistance	Good, application-related testing
Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C horizontalTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C horizontalTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Oil resistance	Good, application-related testing DIN EN 60811-404
No. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C horizontalTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Bending radius (fixed)	5 x Outer diameter
Traversing distance (C-track)5 m @ 25 °C horizontalTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 360 °/m	No. of bending cycles (C-track)	10 Mio. @ 25 °C
No. of torsion cycles 1 Mio. Torsion stress ± 360 °/m	Traversing distance (C-track)	5 m @ 25 °C horizontal
Torsion stress ± 360 °/m	Travel speed (C-track)	3,3 m/s @ 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