

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

PUR 5x0.34 ye UL/CSA 0.6m

 $Male\ straight-female\ 90^{\circ}$ 

**⚠ NOTICE ⚠** 

## PRODUCT IS DISCONTINUED. PLEASE HAVE A LOOK AT THE ALTERNATIVE PRODUCTS.

M12 - M12, 5-pole

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

Plastic housings with good resistance against chemicals and oils.

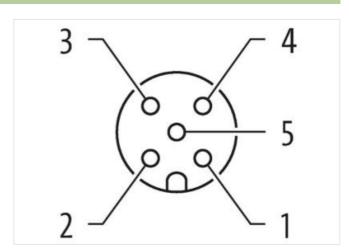
The resistance to aggressive media should be individually tested for your application. Further details on request.

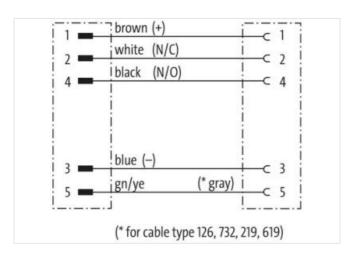
Further cable lengths on request.

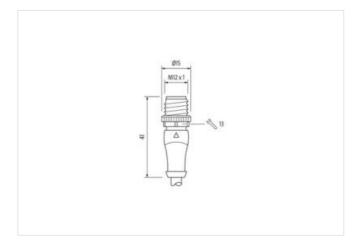
## **Link to Product**

## Illustration



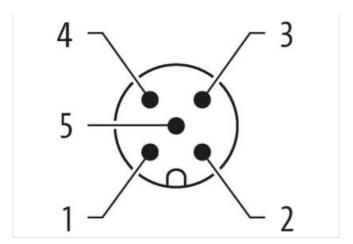


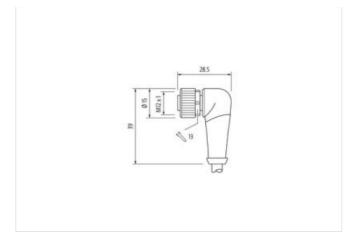






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Product may differ from Image



Cable length





0,6 m







Guoid longin	0,0 111
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
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
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879177160

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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Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	125 V
Operating voltage DC max.	125 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	1,5 KV
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
Cable identification	834
Jacket Color	blue
Type of Certificate	cURus
Amount stranding	1
Stranding	2 wires twisted
Amount stranding (type 2)	1
Stranding (type 2)	2 Stranded joints twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	65 %
Banding	Foil
Drain wire (cross-section)	22 AWG
wire arrangement	(white, blue), (black, red)
Cable weigth	63,12 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)	6,9 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PE
Amount wires	2
Outer diameter insulation	2,1 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	64 ± 5 Shore D
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Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Drain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, finned           Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         ± 53 %           Ingredient Teenes wire insulation (Data)         28 PE           Amount wires (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor or sessection wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Material very (Data)         20 Power           Travel speed (C-track)         5 m           Travel speed (C-track)         1 Mio.           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 <th>Ingredient freeness wire insulation</th> <th>lead-free, CFC-free, halogen-free</th>	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Conductor crosssection (wire)         24 AWG           Drain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, tinned           Electrical function wire         Data           Material wire insulation (Data)         PE           Current increases wire insulation (Data)         1.5 mm           Tolerance outer diameter wire insulation (Data)         1.5 mm           Tolerance outer diameter wire insulation (Data)         lead-free, CFC-free, halogen-free           Amount wires (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Conductor wire (Data)         22 AWG           Conductor wire (Data)         22 AWG           Electrical function wire (Data)         22 AWG           Electrical function wire (Data)         22 AWG           Conductor crosssection wire (Data)         20 AWG           Electrical function wire (Data)         20 AWG           Traversing distance (C-track)         1 Mio.           Traversing distance (C-track)         1 Mio.           Current load capacity min. wire         4.5 A           Current load capacity (istandard)         10 DIN VDE 0298-4	Amount strands (wire)	19
Drain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, tinned           Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         ± 53 %           Ingredient freeness wire insulation (Data)         ± 63 %           Ingredient freeness wire insulation (Data)         18 ead-free, CFC-free, halogen-free           Amount strands wire (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Conductor wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Material conductor wire (Data)         20 Power           Traversing distance (C-track)         5 m           Traversing distance (C-track)         1 Mio.           Nominal voltage AC max         300 V           Current load capacity min. Wire (Data)         4.5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power<	Diameter of single wires	24 AWG
Material conductor wire   Capper stranded wire, tinned   Electrical function wire   Data	Conductor crosssection (wire)	24 AWG
Electrical function wire   Data	Drain wire (cross-section)	22 AWG
Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (data)         ±53 %           Ingredient freeness wire insulation (Data)         lead-free, CFC-free, halogen-free           Amount wires (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         20 per stranded wire, tinned           Electrical function wire (Data)         5 m           Traversing distance (C-track)         5 m           Traversing distance (C-track)         1 Mio.           Current load capacity (Standard)         10 IN VDE 0298-4           Current load capacity min. Wire (Data)         6 A           Electrical function wire         Data           Electrical resistance line constant wire         70 Qwer           Characteristic impedance         120 Q ± 10 % @ 1 MHz           Electrical resistance ime constant wire         2 kV @ 60 s           Electrical resi	Material conductor wire	copper stranded wire, tinned
Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         ±53 %           Ingredient freeness wire insulation (Data)         153 %           Amount wires (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (data)         Power           Traversing distance (C-track)         5 m           Traversing distance (C-track)         1 Mio.           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 Ω± 10 %@ 1 MHz           Electrical resistance line constant wire (Data)         54 Q/km           Electrical resistance coating wire (Data)         54 Q/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical resistance (static)         -40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature m	Electrical function wire	Data
Tolerance outer diameter wire insulation (lata) ± 53 %           Ingredient freeness wire insulation (Data)         lead-free, CFC-free, halogen-free           Amount wires (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Material conductor wire (Data)         0 coper stranded wire, tinned           Electrical function wire (data)         Power           Traversing distance (C-track)         5 m           Traversing distance (C-track)         1 Mio.           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 (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical capacitance         40 W @ 60 s           Electrical capacitance coating wire (Data)         2 kV @ 60 s           Electrical resistance (wire - shield)         2 kV @ 60 s           Min. operating te	Material wire insulation (Data)	PE
Ingredient freeness wire insulation (Data)   lead-free, CFC-free, halogen-free	Outer diameter wire insulation (Data)	1,5 mm
Amount wires (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (data)         Power           Traversing distance (C-track)         5 m           Travel speed (C-track)         1 Mio.           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 (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 Ω± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrica presistance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (static)         40 °C           Max. operating temperature (static)         40	Tolerance outer diameter wire insulation (data)	± 53 %
Amount strands wire (Data) Diameter of single wires (Data) Diameter of single wires (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) copper stranded wire, tinned Electrical function wire (data) Power Traversing distance (C-track) 5 m Travel speed (C-track) 1 Mio. Nominal voltage AC max. 300 V Current load capacity standard) to DIN VDE 0298-4 Current load capacity wire (Data) 6 A Electrical function wire (data) Power Characteristic impedance 120 Ω ± 10 % @ 1 MHz Electrical function wire (Data) Electrical resistance coating wire (Data) 54 Ω/km AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical resistance coating wire (Data) 40 °C Max. operating temperature (static) Mio. operating temperature (static) 40 °C Max. operating temperature (static) 70 °C Flame resistance Good, application-related testing Electrical resistance Cond. application-related testing Color, application-related testing Color, application-related testing Color, adoling tensor and uncolored testing Color, application-related testing Color sesistance Color and uncolored testing Color sesistance Color and uncolored testing Color sesistance Color and uncolored testing Color sesistance Color, application-related testing Color sesistance Color, application-related testing Color sesistance Color and uncolored testing C	Ingredient freeness wire insulation (Data)	lead-free, CFC-free, halogen-free
Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (data)         Power           Traver sing distance (C-track)         5 m           Travel speed (C-track)         1 Mio.           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 (Data)         6 A           Electrical function wire         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric capacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 k V @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature min. (dynamic)         -70 °C           Plame resistance	Amount wires (Data)	2
Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (data)         Power           Traver sing distance (C-track)         5 m           Travel speed (C-track)         1 Mio.           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 (Data)         6 A           Electrical function wire         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric capacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (stacd)         80 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         U. 1581 § 1100 FT2   U. 1581 § 100   IEC 60332-2-2           chemical resistance         Good, application-related testing	Amount strands wire (Data)	19
Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (data)         Power           Traversing distance (C-track)         5 m           Travel speed (C-track)         1 Mio.           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 (Data)         6 A           Electrical function wire         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance voating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric capacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         UL 1581 § 1100 FT2   UL 1581 § 1000   IEC 60332-2-2           Chem	Diameter of single wires (Data)	22 AWG
Electrical function wire (data)         Power           Traversing distance (C-track)         5 m           Travel speed (C-track)         1 Mio.           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 (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrica pacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature min. (dynamic)         -30 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gil resistance         Good, application-related testing	Conductor crosssection wire (Data)	22 AWG
Traversing distance (C-track)         5 m           Travel speed (C-track)         1 Mio.           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 (Data)         6 A           Electrical function wire         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrica pacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gil resistance         Good, application-related testing <th< td=""><td>Material conductor wire (Data)</td><td>copper stranded wire, tinned</td></th<>	Material conductor wire (Data)	copper stranded wire, tinned
Travel speed (C-track)         1 Mio.           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 (Data)         6 A           Electrical function wire         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric capacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (istatic)         30 °C           Operating temperature min. (dynamic)         70 °C           Flame resistance         UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2           chemical resistance         Good, application-related testing           Oil resistance         Good, application-related testing   DIN EN 60811-404           Bending radius (installation)         x Outer diameter	Electrical function wire (data)	Power
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 (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric capacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         U. L 1581 § 1100 FT2   UL 1581 § 1900   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gil resistance         Good, application-related testing           Oil resistance         Good, application-related testing   DIN EN 60811-404           Bending radius (installation)         x Outer diameter	Traversing distance (C-track)	5 m
Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Current load capacity min. Wire (Data)       6 A         Electrical function wire       Data         Electrical function wire (data)       Power         Characteristic impedance       120 Ω ± 10 % @ 1 MHz         Electrical resistance line constant wire       78 Ω/km         Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing   DIN EN 60811-404         Bending radius (installation)       x Outer diameter	Travel speed (C-track)	1 Mio.
Current load capacity min. wire 4,5 A  Current load capacity min. Wire (Data) 6 A  Electrical function wire Data  Electrical function wire (data) Power  Characteristic impedance 120 $\Omega \pm 10$ % @ 1 MHz  Electrical resistance line constant wire 78 $\Omega$ /km  Electrical resistance coating wire (Data) 54 $\Omega$ /km  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance 40000 pF/km  AC withstand voltage (wire - shield) 2 kV @ 60 s  Electric capacity temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Gil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (installation) x Outer diameter	Nominal voltage AC max.	300 V
Current load capacity min. Wire (Data) 6 A  Electrical function wire Data  Electrical function wire (data) Power  Characteristic impedance 120 $\Omega$ ± 10 % @ 1 MHz  Electrical resistance line constant wire 78 $\Omega$ /km  Electrical resistance coating wire (Data) 54 $\Omega$ /km  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance 40000 pF/km  AC withstand voltage (wire - shield) 2 kV @ 60 s  Electric capaciting temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2 chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (installation) x Outer diameter	Current load capacity (standard)	to DIN VDE 0298-4
Electrical function wire Data  Electrical function wire (data) Power  Characteristic impedance 120 $\Omega \pm 10$ % @ 1 MHz  Electrical resistance line constant wire 78 $\Omega$ /km  Electrical resistance coating wire (Data) 54 $\Omega$ /km  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance 40000 pF/km  AC withstand voltage (wire - shield) 2 kV @ 60 s  Electric capacitance 40000 pF/km  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2 chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (installation) x Outer diameter	Current load capacity min. wire	4,5 A
Electrical function wire (data) Power  Characteristic impedance $120 \Omega \pm 10 \% @ 1 \text{ MHz}$ Electrical resistance line constant wire $78 \Omega / \text{km}$ Electrical resistance coating wire (Data) $54 \Omega / \text{km}$ AC withstand voltage (wire - wire) $2 \text{ kV } @ 60 \text{ s}$ Electric capacitance $40000 \text{ pF/km}$ AC withstand voltage (wire - shield) $2 \text{ kV } @ 60 \text{ s}$ Electric capacitance $40000 \text{ pF/km}$ AC withstand voltage (wire - shield) $2 \text{ kV } @ 60 \text{ s}$ Min. operating temperature (static) $40 \text{ °C}$ Max. operating temperature (fixed) $80 \text{ °C}$ Operating temperature min. (dynamic) $-30 \text{ °C}$ Operating temperature max. (dynamic) $70 \text{ °C}$ Flame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (installation) $x \text{ Outer diameter}$	Current load capacity min. Wire (Data)	6 A
Characteristic impedance       120 Ω ± 10 % @ 1 MHz         Electrical resistance line constant wire       78 Ω/km         Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, application-related testing   DIN EN 60811-404         Bending radius (installation)       x Outer diameter	Electrical function wire	Data
Electrical resistance line constant wire       78 Ω/km         Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, application-related testing   DIN EN 60811-404         Bending radius (installation)       x Outer diameter	Electrical function wire (data)	Power
Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, application-related testing   DIN EN 60811-404         Bending radius (installation)       x Outer diameter	Characteristic impedance	120 Ω ± 10 % @ 1 MHz
AC withstand voltage (wire - wire)  2 kV @ 60 s  Electric capacitance  40000 pF/km  AC withstand voltage (wire - shield)  2 kV @ 60 s  Min. operating temperature (static)  40 °C  Max. operating temperature (fixed)  80 °C  Operating temperature min. (dynamic)  -30 °C  Operating temperature max. (dynamic)  70 °C  Flame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (installation)  x Outer diameter	Electrical resistance line constant wire	78 Ω/km
Electric capacitance 40000 pF/km  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (installation) x Outer diameter	Electrical resistance coating wire (Data)	54 Ω/km
AC withstand voltage (wire - shield)  AC withstand voltage (wire - shi	AC withstand voltage (wire - wire)	2 kV @ 60 s
Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  To °C  Flame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (installation)  x Outer diameter	Electric capacitance	40000 pF/km
Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  To °C  Flame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (installation)  x Outer diameter	AC withstand voltage (wire - shield)	2 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic)  70 °C Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404 Bending radius (installation)  x Outer diameter	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)  70 °C  Flame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (installation)  x Outer diameter	Max. operating temperature (fixed)	80 °C
Flame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404 Bending radius (installation) x Outer diameter	Operating temperature min. (dynamic)	-30 °C
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404 Bending radius (installation) x Outer diameter	Operating temperature max. (dynamic)	70 °C
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404 Bending radius (installation) x Outer diameter	Flame resistance	UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2
Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (installation) x Outer diameter	chemical resistance	Good, application-related testing
Bending radius (installation) x Outer diameter	Gasoline resistance	Good, application-related testing
	Oil resistance	Good, application-related testing   DIN EN 60811-404
Rending radius (fixed) 6 x Outer diameter	Bending radius (installation)	x Outer diameter
Donaing radias (intos)	Bending radius (fixed)	6 x Outer diameter
Bending radius (dynamic) 10 x Outer diameter	Bending radius (dynamic)	10 x Outer diameter
No. of torsion cycles 2 Mio.	No. of torsion cycles	2 Mio.
Torsion stress ± 30 °/m	Torsion stress	± 30 °/m
Torsion speed 35 cycles/min	Torsion speed	35 cycles/min