

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

PUR 4x0.5+2x0.25 shielded gn UL/CSA+drag ch. 0.45m

Cube67
Male straight – female straight
M12 – M12, 6-pole
shielded
A-coded
Hybrid cable

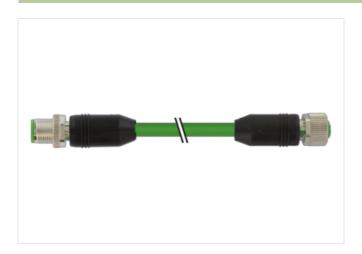
Plastic housings with good resistance against chemicals and oils.

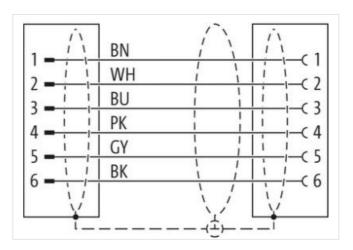
The resistance to aggressive media should be individually tested for your application. Further details on request.

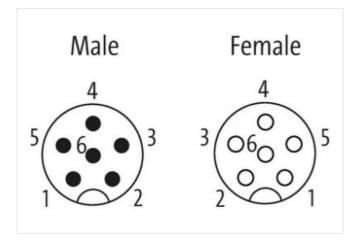
Further cable lengths on request.

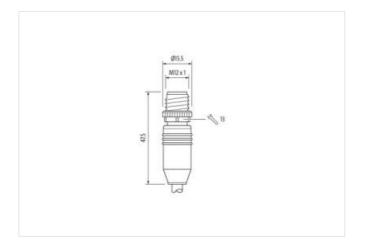
## **Link to Product**

## Illustration



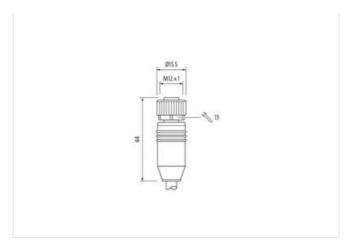








stay connected



Product may differ from Image





Cable length	0,45 m	
Side 1		
Tightening torque	0,6 Nm	
Mounting method	inserted, screwed	
Coating contact	gold plated	
Family construction form	M12	
Thread	M12 x 1	
Coding	A	
Material contact	Copper alloy	
Material	PUR	
No. of poles	6	
Width across flats	SW13	
Side 2		
Tightening torque	0,6 Nm	
Mounting method	inserted, screwed	
Coating contact	gold plated	
Family construction form	M12	
Thread	M12 x 1	
Coding	A	
Material contact	Copper alloy	
Material	PUR	
No. of poles	6	
Commercial data		
ECLASS-6.0	27061801	
ECLASS-6.1	27060307	
ECLASS-7.0	27060307	
ECLASS-8.0	27060307	
ECLASS-9.0	27060307	
ECLASS-10.1	27060307	
ECLASS-11.1	27060307	
ECLASS-12.0	27060307	
ETIM-5.0	EC001855	
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customs tariff number	85444290
GTIN	4048879140522
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	30 V
Operating voltage DC max.	30 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	no
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67
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	Nickeled
Material gasket	FKM
Locking material	Zinc die-casting
Mechanical data   Mounting data	Zino dio odoling
Mounting method	inserted, screwed, Shaking protection
-	inserted, Sciewed, Straking 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	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation   Cable	
wire arrangement	(gray, pink), blue, white, brown, black
Cable identification	802
Function cable	Hybrid, Signal, Data
Jacket Color	green
Type of Certificate	cURus
Amount stranding	1
Stranding	2 wires twisted
Amount stranding (type 2)	1
Stranding (type 2)	4 wires with Stranding combination with 3 Filler twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	80 %
Banding	Fleece
Filler	yes
wire arrangement	(gray, pink), blue, white, brown, black
	77 g/m
Cable weigth	
Material jacket	PUR
	PUR lead-free, CFC-free, halogen-free 6,6 mm



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Outer diameter insulation Outer diameter foliamen core insulation I, 4 mm Outer diameter foliamen core insulation Ingredient freeness were insulation Outer diameter wise insulation (Wire) Ingredient freeness were insulation Outer diameter wire insulation (Data) Outer diameter vire insulation (Data) Outer di	Material wire insulation	PP
Outer dismeter tolerance core insulation         ± 5 %           Ingredient Treeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Diameter of single wires         0.1 mm           Conductor crasssection (wire)         0.5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Material wire insulation (Data)         PP           Outer dismeter wire insulation (Data)         1,1 mm           Tolerance outer clameter wire insulation (Data)         1,1 mm           Tolerance outer clameter wire insulation (Data)         2           Amount strands wire (Data)         2           Amount strands wire (Data)         32           Diameter of single wires (Data)         32           Marterial conductor wire (Data)         2.5 mm²           Ware conductor type (Data)         32 mm²           Ware conductor type (Data)         strand class 6           Normal voltage AC max.         300 V           Current load capacity (standard)         to IN VDE Capa-4           Current load capacity (standard)         to IN VDE Capa-4           Current load capacity (standard)         to IN VDE Capa-4           Current load capacity (standard)         to IN VDE Gas	Amount wires	4
Ingredient freeness wire insulation Amount strands (wire) Billiander of single wies Conductor yes (vire) Billiander of single wies Conductor yes (vire) Stranded corper wire, bare Conductor yes (vire) Strand class 6 Material wire insulation (Data) PP Conductor yes (vire) Strand class 6 Material wire insulation (Data) PP Conductor yes (vire) Strand class 6 Material wire insulation (Data) PP Color diameter wire insulation (Data) Tolerance outer diameter wire insulation (Data) Stranded corper wire, bare Conductor yes (Data) Stranded corper wire, bare Stranded vire (Data) Stranded corper wire, bare Wire conductor yes (Data) Stranded copper wire, bare Wire conductor virey (Data) Stranded conductor vire (Data) Stranded conductor virey (Data) Stranded conductor vire (Data) Stranded conductor virey (Data) Stranded condu	Outer diameter insulation	1,4 mm
Amount strands (wire)         64           Diameter of single wires         0,1 mm           Conductor of single wires         0,5 mm²           Material conductor were         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Material wire insulation (Data)         PP           Outer diameter wire insulation (Data)         1,1 mm           Tolerance outer clameter wire insulation (Data)         1,1 mm           Tolerance outer clameter wire insulation (Data)         2 mmount strands were (Data)           Amount strands were (Data)         32           Amount strands were (Data)         32           Similareter of single wires (Data)         0,1 mm           Conductor orisseaction wire (Data)         32           Material conductor wire (Data)         0,25 mm²           Material conductor wire (Data)         5 mm²           Material conductor wire (Data)         5 mm²           Moriman Voltage AG max         300 V           Current load capacity min. wire         6,3 A           Current load capacity min. wire (Data)         3,2 A           Electrical resistance bine constant wire         6,3 A           Current load capacity min. Wire (Data)         79 c/km @ 20 °C           AG withstand voltage (wire - wire) <t< td=""><td>Outer diameter tolerance core insulation</td><td>±5%</td></t<>	Outer diameter tolerance core insulation	±5%
Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,5 mm²           Material conductor were         Stranded copper wire, baire           Conductor type (wire)         strand class 6           Material wire insulation (Data)         PP           Outer diameter wire insulation (Data)         1,1 mm           Tolerance outer diameter wire insulation (Data)         1.5 %           Impredient freeness wire insulation (Data)         2           Amount wires (Data)         32           Diameter of single wires (Data)         32           Diameter of single wires (Data)         32           Diameter of single wires (Data)         0.1 mm           Conductor consessection wire (Data)         32           View conductor type (Data)         32 strand class 6           Material conductor were (Data)         Strand class 6           Nominal voltage AC max         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire wire)         5,2 A           Current load capacity (wire wire)         1,5 kW @ 60 s           Electrical resistance los constant wire         63 mH/km           Electrical resistance vacting wire (wire	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crossection (wire)         0.5 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Material wire insulation (Data)         PP           Outer diameter wire insulation (Data)         1.1 mm           Tolerance outer diameter wire insulation (Data)         lead free, cadmium-free, CFC-free, halogen-free, silicone-free           Ingredient freeness wire insulation (Data)         lead free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount wires (Data)         2           Amount strands wire (Data)         32           Diameter of single wires (Data)         0.1 mm           Conductor view (Data)         32 mm²           Wire conductor type (Data)         strand class 6           Wire conductor type (Data)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity wire, wire         6.3 A           Current load capacity wire, Wire (Data)         3.2 A           Electrical resistance coating wire (Data)         79 Ωkm @ 20 °C           Electrical cesistance coating wire (Data)         79 Ωkm @ 20 °C           Electrical capacity line constant (wire - wire)         1.5 kV @ 60 s           Electrical capacity line constant (wire - wire)         63000 pF/km <t< td=""><td>Amount strands (wire)</td><td>64</td></t<>	Amount strands (wire)	64
Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Material wire insulation (Data)         PP           Outer diameter wire insulation (Data)         1,1 mm           Tolerance outer diameter wire insulation (Data)         ± 5 %           Ingredient freeness wire insulation (Data)         ± 5 %           Ingredient freeness wire insulation (Data)         2           Amount wires (Data)         32           Diameter of single wires (Data)         32           Diameter of single wires (Data)         0,1 mm           Conductor or sessection wire (Data)         0,25 mm²           Material conductor wire (Data)         0,25 mm²           Mice conductor type (Data)         0,25 mm²           Mice conductor type (Data)         0,25 mm²           Wire conductor type (Data)         0,25 mm²           Wire conductor type (Data)         0,25 mm²           Wire conductor type (Data)         30 V           Current load capacity min. wire         6,3 A           Current load capacity min. wire (Data)         3,2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         7,2 R/m @ 20 °C           Relient Line Line Line Line Line Lin	Diameter of single wires	0,1 mm
Conductor type (wire)         strand class 6           Material wire insulation (Data)         PP           Outer diameter wire insulation (Data)         1.1 mm           Tolerance outer diameter wire insulation (Data)         ± 5 %           Ingredient freeness wire insulation (Data)         Lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount wires (Data)         2           Amount strands wire (Data)         32           Diameter of single wires (Data)         0,1 mm           Conductor crosssection wire (Data)         52 mm²           Material conductor wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         strand class 6           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         6,3 A           Current load capacity min. wire         6,3 A           Current load capacity min. wire         6,3 A           Current load capacity min. wire         6,5 Mm² @ 0 ° C           Electrical resistance coaling wire (Data)         79 D/km @ 0 ° C           Electrical capacity ine constant (wire - wire)	Conductor crosssection (wire)	0,5 mm <sup>2</sup>
Material wire insulation (Data)         PP           Outer diameter wire insulation (Data)         1,1 mm           Tolerance outer diameter wire insulation (Data)         ± 5 %           Ingredient freeness wire insulation (Data)         tead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount wires (Data)         2           Amount strands wire (Data)         0.1 mm           Canductor crossection wire (Data)         0.25 mm²           Material conductor wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         Strand class 6           Nominal voltage AC max.         300 V           Current load capacity (strandard)         10 DIN VDE 0298-4           Current load capacity min. Wire (Data)         3.2 A           Electrical resistance line constant wire         33 Ω/km @ 20 °C           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical capacity line constant (wire - wire)         1,5 kV @ 60 s           Electrical capacity line constant (wire - wire)         1,5 kV @ 60 s           Electrical capacity line constant (wire - wire)         1,5 kV @ 60 s           Stolation resistance         2000 MΩ × km           Min. operating temperature (Red)         90 °C           Operating temperature (Red)         90 °C	Material conductor wire	Stranded copper wire, bare
Outer diameter wire insulation (Data)         1,1 mm           Tolerace outer diameter wire insulation (data)         ± 5 %.           Ingredient freeness wire insulation (Data)         bead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands wire (Data)         2           Amount strands wire (Data)         32           Diameter of single wires (Data)         0.1 mm           Conductor crossection wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         Stranded copper wire, bare           Wire conductor type (Data)         Stranded copper wire, bare           Wire conductor type (Data)         Strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire wire)         3.2 A           Electrical resistance line constant wire         39 Ω km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electrical capacity line constant (wire - wire)         1,5 kV @ 60 s           AC withstand voltage (wire - shield)         1,2 kV @ 60 s           Isolation resistance         2000 MC x km </td <td>Conductor type (wire)</td> <td>strand class 6</td>	Conductor type (wire)	strand class 6
Tolerance outer diameter wire insulation (data)         ± 5 %           Ingredient freeness wire insulation (Data)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount wires (Data)         2           Amount strands wire (Data)         32           Diameter of single wires (Data)         0,1 mm           Conductor crossection wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         Stranded copper wire, bare           Wire conductor type (Data)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         6,3 A           Current load capacity min. Wire (Data)         3,2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electrical resistance viril inductivity line constant (wire - wire)         6,5 mH/km           Fleetrical capacity wire constant (wire - wire)         1,5 kV @ 60 s           Isolation resistance         2000 MC × km           Min. operating temperature (static)         50 °C           Querating temperature (static)         50 °C	Material wire insulation (Data)	PP
Ingredient freeness wire insulation (Data)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Outer diameter wire insulation (Data)	1,1 mm
Amount wires (Data)         2           Amount strands wire (Data)         32           Diameter of single wires (Data)         0.1 mm           Conductor crosssection wire (Data)         0.25 mm²           Material conductor wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         strand class 6           Nominal voltage &C max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         3.2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Current load capacity min. Wire (Data)         7.5 kW @ 60 s           Electrical resistance coating wire (Data)         7.5 kW @ 60 s           Electrical question of the constant (wire - wire)         63000 pF/km           Electrical capacity line constant (wire - wire)         6.5 mH/km           Electrical capacity line constant (wire - wire)         6.500 pF/km           Power frequency withstand voltage (wire - shield)         1.5 kW @ 60 s           AC withstand voltage (wire - shield)         1.2 kW @ 60 s           Isolation resistance         2000 MC × km           Min. operating temperature (fixed)         90 °C           Operating temperature (fixed)         90 °C           Operating temperature (fixed)	Tolerance outer diameter wire insulation (data)	±5%
Amount strands wire (Data)         32           Diameter of single wires (Data)         0.1 mm           Conductor crosssection wire (Data)         0.25 mm²           Material conductor wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         3.2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1.5 kV @ 60 s           Electric inductivity line constant         0.65 mH/km           Electric inductivity line constant (wire - wire)         3500 pF/km           Power frequency withstand voltage (wire - shield)         1.5 kV @ 60 s           Electrical capacity line constant         0.65 mH/km           Electrical resistance         2000 MΩ × km           Min. operating temperature (with voltage (wire - shield)         1.2 kV @ 60 s           Isolation resistance         2000 MΩ × km           Min. operating temperature (static)         -50 °C           Max. operating temperature (static)         -50 °C           Operating temperat	Ingredient freeness wire insulation (Data)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands wire (Data)         32           Diameter of single wires (Data)         0,1 mm           Conductor crosssection wire (Data)         0,25 mm²           Material conductor wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         3,2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance line constant wire         39 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electric inductivity line constant (wire - wire)         63000 pF/km           Electric languacity inine constant (wire - wire)         83000 pF/km           Electric languacity (wire shield)         1,5 kV @ 60 s           Electrical capacity line constant (wire - wire)         83000 pF/km           Electrical capacity (wire shield)         1,2 kV @ 60 s           Electrical resistance         2000 MΩ × km           Min. operating temperature (static)         -50 °C           Max. operating temperature (mix. dynamic)         30 °C           Operating temperature (mix. dynamic)         70 °C           Flame resista	Amount wires (Data)	2
Conductor crosssection wire (Data)         0,25 mm²           Material conductor wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         strand class 6           Wire conductor type (Data)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         3,2 A           Electrical resistance line constant tive         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electric inductivity line constant (wire - wire)         63000 pF/km           Power frequency withstand voltage (wire - shield)         1,2 kV @ 60 s           Isolation resistance         2000 MΩ × km           Min. operating temperature (static)         -50 °C           Max. operating temperature (fixed)         90 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2 I UL 1581 § 1100 FT2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Gasoline resistance         DIN EN 60811-404   Good, application-related testing           In selection of the sistance (Din En 60811-404   Good, a	Amount strands wire (Data)	32
Conductor crosssection wire (Data)         0,25 mm²           Material conductor wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         strand class 6           Wire conductor type (Data)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         3,2 A           Electrical resistance line constant tive         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electric inductivity line constant (wire - wire)         63000 pF/km           Power frequency withstand voltage (wire - shield)         1,2 kV @ 60 s           Isolation resistance         2000 MΩ × km           Min. operating temperature (static)         -50 °C           Max. operating temperature (fixed)         90 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2 I UL 1581 § 1100 FT2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Gasoline resistance         DIN EN 60811-404   Good, application-related testing           In selection of the sistance (Din En 60811-404   Good, a	Diameter of single wires (Data)	0,1 mm
Wire conductor type (Data)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         6.3 A           Current load capacity min. Wire (Data)         3,2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electrical capacity line constant         0.65 mH/km           Power frequency withstand voltage (wire - wire)         63000 pF/km           Power frequency withstand voltage (wire - shield)         1,5 kV @ 60 s           Isolation resistance         2000 MΩ × km           Min. operating temperature (static)         -50 °C           Max. operating temperature (fixed)         90 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Garding radius (fixed)         5 × Cuter diameter <t< td=""><td>Conductor crosssection wire (Data)</td><td>0,25 mm<sup>2</sup></td></t<>	Conductor crosssection wire (Data)	0,25 mm <sup>2</sup>
Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire         6,3 A           Current load capacity min. Wire (Data)         3,2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electric inductivity line constant         0,655 mH/km           Power frequency withstand voltage (wire - wire)         63000 pF/km           Power frequency withstand voltage (wire - shield)         1,5 kV @ 60 s           Isolation resistance         2000 MΩ x km           Min. operating temperature (static)         50 °C           Max. operating temperature (fixed)         90 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 x Outer diameter	Material conductor wire (Data)	Stranded copper wire, bare
Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         6,3 A           Current load capacity min. Wire (Data)         3,2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 °S           Electrical capacity line constant         0,65 mH/km           Electrical capacity line constant (wire - wire)         63000 pF/km           Power frequency withstand voltage (wire - wire)         1,5 kV @ 60 °S           AC withstand voltage (wire - shield)         1,2 kV @ 60 °S           Isolation resistance         2000 MΩ × km           Min. operating temperature (static)         -50 °C           Max. operating temperature (fixed)         90 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         EC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 x Out	Wire conductor type (Data)	strand class 6
Current load capacity min. wire         6,3 A           Current load capacity min. Wire (Data)         3,2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electric inductivity line constant         0,65 mH/km           Electrical capacity line constant (wire - wire)         63000 pF/km           Power frequency withstand voltage (wire - shield)         1,5 kV @ 60 s           Isolation resistance         2000 MΩ × km           Min. operating temperature (static)         -50 °C           Max. operating temperature (fixed)         90 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 × Outer diameter           Bending radius (fixed)         5 × Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Traver sing distance (C-track)         10 m @ 25 °C	Nominal voltage AC max.	300 V
Current load capacity min. wire         6,3 A           Current load capacity min. Wire (Data)         3,2 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electric inductivity line constant         0,65 mH/km           Electrical capacity line constant (wire - wire)         63000 pF/km           Power frequency withstand voltage (wire - shield)         1,5 kV @ 60 s           Isolation resistance         2000 MΩ × km           Min. operating temperature (static)         -50 °C           Max. operating temperature (fixed)         90 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 × Outer diameter           Bending radius (fixed)         5 × Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Traver sing distance (C-track)         10 m @ 25 °C	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance line constant wire $39  \Omega / \text{km} \otimes 20  ^{\circ} \text{C}$ Electrical resistance coating wire (Data) $79  \Omega / \text{km} \otimes 20  ^{\circ} \text{C}$ AC withstand voltage (wire - wire) $1.5  \text{kV} \otimes 60  \text{s}$ Electric inductivity line constant $0.65  \text{mH/km}$ Electrical capacity line constant (wire - wire) $63000  \text{pF/km}$ Power frequency withstand voltage (wire - lack to $0.65  \text{mH/km}$ Electrical capacity line constant (wire - wire) $0.55  \text{kV} \otimes 60  \text{s}$ AC withstand voltage (wire - shield) $0.5  \text{kW} \otimes 60  \text{s}$ Isolation resistance $0.50  \text{kW} \otimes 60  \text{s}$ Isolation resistance $0.50  \text{kW} \otimes 60  \text{s}$ Whin. operating temperature (static) $0.50  \text{kW} \otimes 60  \text{s}$ Max. operating temperature (fixed) $0.50  \text{kW} \otimes 60  \text{s}$ Max. operating temperature min. (dynamic) $0.50  \text{kW} \otimes 60  \text{s}$ Operating temperature max. (dynamic) $0.50  \text{kW} \otimes 60  \text{s}$ Flame resistance $0.50  \text{kW} \otimes 60  \text{s}$ Electroiant resistance $0.50  \text{kW} \otimes 60  \text{s}$ Bending resistance $0.50  \text{kW} \otimes 60  \text{s}$ Bending resistance $0.50  \text{kW} \otimes 60  \text{s}$ Bending radius (fixed) $0.50  \text{kW} \otimes 60  \text{s}$ Bending radius (fixed) $0.50  \text{kW} \otimes 60  \text{s}$ Traversing distance $0.50  $	Current load capacity min. wire	6,3 A
Electrical resistance coating wire (Data) 79 \( \Omega \)/20 °C  AC withstand voltage (wire - wire) 1,5 kV \( \omega \) 60 s  Electric inductivity line constant 0,65 mH/km  Electrical capacity line constant (wire - wire) 63000 pF/km  Power frequency withstand voltage (wire - jacket) 1,5 kV \( \omega \) 60 s  AC withstand voltage (wire - shield) 1,2 kV \( \omega \) 60 s  Isolation resistance 2000 M\( \Omega \) km  Min. operating temperature (static) -50 °C  Max. operating temperature (fixed) 90 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance   IEC 60332-2-2   UL 1581 \( \) 1100 FT2   UL 1581 \( \) 1090  chemical resistance   Good, application-related testing  Gasoline resistance   DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. \( \omega 25 °C \)  Traver sing distance (C-track) 10 m \( \omega 25 °C \)  Travel speed (C-track) 2 m/s \( \omega 25 °C \)	Current load capacity min. Wire (Data)	3,2 A
AC withstand voltage (wire - wire)         1,5 kV @ 60 s           Electric inductivity line constant         0,65 mH/km           Electrical capacity line constant (wire - wire)         63000 pF/km           Power frequency withstand voltage (wire - jacket)         1,5 kV @ 60 s           AC withstand voltage (wire - shield)         1,2 kV @ 60 s           Isolation resistance         2000 MΩ × km           Min. operating temperature (static)         -50 °C           Max. operating temperature (fixed)         90 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         Good, application-related testing           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Traversing distance (C-track)         10 m @ 25 °C           Traversing distance (C-track)         2 m/s @ 25 °C	Electrical resistance line constant wire	39 Ω/km @ 20 °C
Electric inductivity line constant    Some constant   Some co	Electrical resistance coating wire (Data)	79 Ω/km @ 20 °C
Electrical capacity line constant (wire - wire) 63000 pF/km  Power frequency withstand voltage (wire - jacket) 1,5 kV @ 60 s  AC withstand voltage (wire - shield) 1,2 kV @ 60 s  Isolation resistance 2000 MΩ × km  Min. operating temperature (static) -50 °C  Max. operating temperature (fixed) 90 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 × Outer diameter  Bending radius (dynamic) 10 × Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	AC withstand voltage (wire - wire)	1,5 kV @ 60 s
Power frequency withstand voltage (wire - jacket) $1.5 \text{ kV} \otimes 60 \text{ s}$ AC withstand voltage (wire - shield) $1.2 \text{ kV} \otimes 60 \text{ s}$ Isolation resistance $2000 \text{ M}\Omega \times \text{km}$ Min. operating temperature (static) $-50 \text{ °C}$ Max. operating temperature (fixed) $90 \text{ °C}$ Operating temperature min. (dynamic) $-30 \text{ °C}$ Operating temperature max. (dynamic) $70 \text{ °C}$ Flame resistance IEC $60332-2-2 \text{ JUL }1581 \text{ § }1100 \text{ FT2 JUL }1581 \text{ § }1090$ chemical resistance Good, application-related testing  Gasoline resistance DIN EN $60811-404 \text{ J} \text{ Good, application-related testing}$ Bending radius (fixed) $5 \times \text{Outer diameter}$ Bending radius (dynamic) $10 \times \text{Outer diameter}$ No. of bending cycles (C-track) $5 \text{ Mio.} \otimes 25 \text{ °C}$ Traversing distance (C-track) $2 \text{ m/s} \otimes 25 \text{ °C}$	Electric inductivity line constant	0,65 mH/km
jacket)1,3 kV $\oplus$ 60 sAC withstand voltage (wire - shield)1,2 kV $\oplus$ 60 sIsolation resistance2000 MΩ × kmMin. operating temperature (static)-50 °CMax. operating temperature (fixed)90 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio. $\oplus$ 25 °CTraversing distance (C-track)10 m $\oplus$ 25 °CTravel speed (C-track)2 m/s $\oplus$ 25 °C	Electrical capacity line constant (wire - wire)	63000 pF/km
Isolation resistance 2000 MΩ × km  Min. operating temperature (static) -50 °C  Max. operating temperature (fixed) 90 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	Power frequency withstand voltage (wire - jacket)	1,5 kV @ 60 s
Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  To °C  Flame resistance  IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  Chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  5 Mio. @ 25 °C  Traversing distance (C-track)  2 m/s @ 25 °C	AC withstand voltage (wire - shield)	1,2 kV @ 60 s
Max. operating temperature (fixed) 90 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 2 m/s @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	Isolation resistance	$2000 \text{ M}Ω \times \text{km}$
Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic)  70 °C  Flame resistance IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 2 m/s @ 25 °C	Min. operating temperature (static)	-50 °C
Operating temperature max. (dynamic)  Flame resistance  IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  5 Mio. @ 25 °C  Traver sing distance (C-track)  2 m/s @ 25 °C	Max. operating temperature (fixed)	90 °C
Flame resistance IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	Operating temperature min. (dynamic)	-30 °C
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C Travel speed (C-track) 2 m/s @ 25 °C	Operating temperature max. (dynamic)	70 °C
Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C Travel speed (C-track) 2 m/s @ 25 °C	Flame resistance	IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090
Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	Oil resistance	DIN EN 60811-404   Good, application-related testing
No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 10 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	Bending radius (fixed)	5 x Outer diameter
Traversing distance (C-track) 10 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track) 2 m/s @ 25 °C	No. of bending cycles (C-track)	5 Mio. @ 25 °C
	Traversing distance (C-track)	10 m @ 25 °C
Torsion stress ± 180 °/m	Travel speed (C-track)	2 m/s @ 25 °C
	Torsion stress	± 180 °/m