

M12 male 0° A-cod. / MSUD valve plug B-10mm

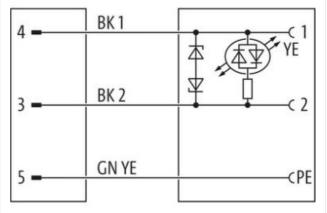
PUR 3x0.75 bk UL/CSA+drag ch. 8m

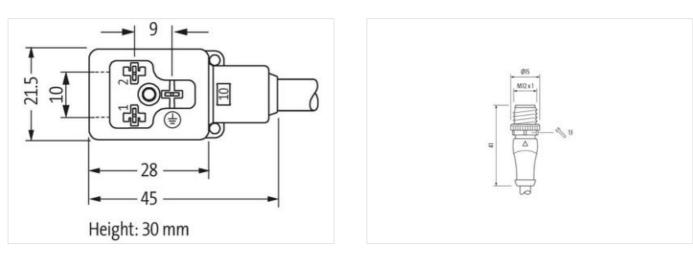
Form B (10 mm) – M12, male straight 24 V AC ±20% / DC ±25% LED and suppression Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

Link to Product



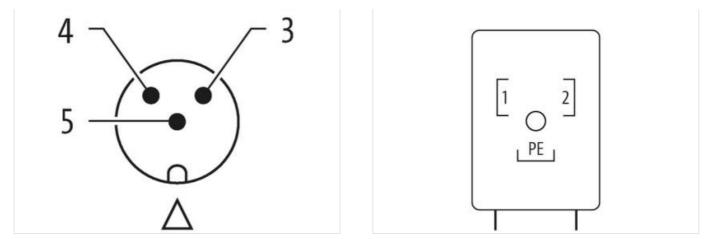






The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-07





Product may differ from Image



Family construction form M12 Thread M12 x 1 suitable for corrugated tube (internal Ø) 10 mm Coding A No. of poles 3 Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Side 2 Tightening torque 0.4 Nm Family construction form MSUD B Thread M3 No. of poles 3 Degree of protection (EN IEC 60529) IP67 Commercial data M3 No. of poles 3 Degree of protection (EN IEC 60529) IP67 Commercial data M3 ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-6.1 27279218 ECLASS-6.1 27279218 ECLASS-10.1 27060312 ECLASS-10.1 27060312 ECLASS-10.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312	Cable length	8 m
Family construction form M12 Thread M12 x 1 suitable for corrugated tube (internal Ø) 10 mm Coding A No. of poles 3 Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Side 2 Tightening torque 0,4 Nm Family construction form MSUD B Thread M3 No. of poles 3 Degree of protection (EN IEC 60529) IP67 Commercial data M3 No. of poles 3 Degree of protection (EN IEC 60529) IP67 Commercial data Z7279218 ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-10.1 27060312 ECLASS-10.1 27060312 ECLASS-10.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 ECO01855 customs tariff number 85444290<	Side 1	
Thread M12 x 1 suitable for corrugated tube (internal 0) 10 mm Coding A No. of poles 3 Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Side 2 T Tightening torque 0,4 Nm Family construction form MSUD B Thread M3 No. of poles 3 Degree of protection (EN IEC 60529) IP67 Side 2 Terad Thread M3 No. of poles 3 Degree of protection (EN IEC 60529) IP67 Commercial data Z ECLASS 6.0 27279218 ECLASS 6.1 27279218 ECLASS 6.1 27279218 ECLASS 6.0 27279218 ECLASS 7.0 27279218 ECLASS 6.1 27060312 ECLASS 7.1.1 27060312 ECLASS 7.1.1 27060312 ECLASS 7.1.1 27060312 ECLASS 7.1.1 27060312 ECL	Tightening torque	0,6 Nm
suitable for corrugated tube (internal Ø) 10 mm Coding A No. of poles 3 Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Side 2 Tightening torque 0.4 Nm Family construction form MSUD B Thread M3 No. of poles 3 Degree of protection (EN IEC 60529) IP67 Commercial dat ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-10.1 27060312 ECLASS-10.1 27060312 ECLASS-10.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001825 Cortinet S644290 GTIN 4048879147477 Packaging unit 1 Electrical data Capacily CX 20 ms	Family construction form	M12
Coding A No. of poles 3 Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Side 2	Thread	M12 x 1
No. of poles 3 Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Side 2	suitable for corrugated tube (internal \emptyset)	10 mm
Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Side 2 IP67 Tightening torque 0.4 Nm Family construction form MSUD B Thread M3 No. of poles 3 Degree of protection (EN IEC 60529) IP67 Commercial data IP67 ECLASS 6.0 27279218 ECLASS 6.1 27279218 ECLASS 6.1 27279218 ECLASS 7.0 27279218 ECLASS 8.0 27260312 ECLASS 8.0 27060312 ECLASS 8.0 27060312 ECLASS 8.1.1 27060312 ETIM-5.0 ECO01855 customs tariff number 85444290 GTIN 4048879147477 Packaging unit 1 Electrical data I Electr	Coding	A
Degree of protection (EN IEC 60529) IP67 Side 2 Prescription (EN IEC 60529) IP67 Tightening torque 0.4 Nm MSUD 8 Tinread M3 MSUD 8 Degree of protection (EN IEC 60529) IP67 MSUD 8 Commercial data 27279218 MSUD 8 ECLASS 6.1 27279218 MSUD 8 ECLASS 7.0 27060312 MSUD 8 ECLASS 7.0 27060312 MSUD 8 ECLASS 7.1.1 27060312 MSUD 8 Customs tartiff number 85444290 MSUB 8 Customs tartiff number 85444290 MSUB 8 GTIN 404	No. of poles	3
Side 2 Tightening torque 0,4 Nm Family construction form MSUD B Thread M3 No. of poles 3 Degree of protection (EN IEC 60529) IP67 Commercial data ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27279218 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 EC011855 customs tariff number 85444290 GTIN 4048879147477 Packaging unit 1 Ecterical data 20 ms	Width across flats	SW13
Tightening torque 0,4 Nm Family construction form MSUD B Thread M3 No. of poles 3 Degree of protection (EN IEC 60529) IP67 Commercial data ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27279218 ECLASS-9.0 27060312 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 Customs tariff number 85444290 GUN 4048879147477 Packaging unit 1 Ectrical data 2 Ectrical data 2 Capacity CX 20 ms	Degree of protection (EN IEC 60529)	IP67
Family construction form MSUD B Thread M3 No. of poles 3 Degree of protection (EN IEC 60529) IP67 Commercial data ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-9.0 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879147477 Packaging unit 1 ELectrical data 20 ms	Side 2	
Thread M3 No. of poles 3 Degree of protection (EN IEC 60529) IP67 Commercial data 2 ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27279218 ECLASS-9.0 27060312 ECLASS-9.0 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879147477 Packaging unit 1 Ecertical data 20 ms	Tightening torque	0,4 Nm
No. of poles 3 Degree of protection (EN IEC 60529) IP67 Commercial data 27279218 ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27279218 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 coustoms tariff number 85444290 GTIN 4048879147477 Packaging unit 1 Eccarcial data 20 ms	Family construction form	MSUD B
Degree of protection (EN IEC 60529) IP67 Commercial data ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-7.0 27279218 ECLASS-7.0 27279218 ECLASS-7.0 27279218 ECLASS-7.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-9.0 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879147477 Packaging unit 1 Electrical data E Capacity CX 20 ms	Thread	M3
Commercial data ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.2.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879147477 Packaging unit 1 Electrical data 20 ms	No. of poles	3
ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879147477 Packaging unit 1 Electrical data 20 ms	Degree of protection (EN IEC 60529)	IP67
ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879147477 Packaging unit 1 Electrical data 20 ms	Commercial data	
ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879147477 Packaging unit 1 Electrical data 20 ms	ECLASS-6.0	27279218
ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879147477 Packaging unit 1 Electrical data 20 ms	ECLASS-6.1	27279218
ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879147477 Packaging unit 1 Electrical data 20 ms	ECLASS-7.0	27279218
ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879147477 Packaging unit 1 Electrical data 20 ms	ECLASS-8.0	27279218
ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879147477 Packaging unit 1 Electrical data 20 ms	ECLASS-9.0	
ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 8544290 GTIN 4048879147477 Packaging unit 1 Electrical data 20 ms	ECLASS-10.1	27060312
ETIM-5.0 EC001855 customs tariff number 8544290 GTIN 4048879147477 Packaging unit 1 Electrical data Electrical curve of the second of the seco	ECLASS-11.1	27060312
customs tariff number 8544290 GTIN 4048879147477 Packaging unit 1 Electrical data 20 ms	ECLASS-12.0	
GTIN 4048879147477 Packaging unit 1 Electrical data 20 ms		
Packaging unit 1 Electrical data 20 ms	customs tariff number	
Electrical data Capacity CX 20 ms		
Capacity CX 20 ms	Packaging unit	1
	Electrical data	
Electrical data Supply	Capacity CX	20 ms
	Electrical data Supply	

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: 2024-05-07



Operating voltage AC	24 V
Operating voltage AC min.	19,2 V
Operating voltage AC max.	28,8 V
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Cut-off peak voltage max.	55 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	yellow
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	
Additional suppressor	Z-Diode
Mechanical data Material data	
Coating locking	Nickeled
Locking screw coating	verzinkt
Color housing	black
Material housing	Plastic
Locking material	Zinc die-casting
Mechanical data Mounting data	
Mounting method	inserted, screwed
Environmental characteristics Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Noto on strain roliof	Protect the connectors by quitable measures from mechanical leads, e.g. by the usage of cable tice
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on strain relief Note on bending radius	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on bending radius Conformity	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Note on bending radius Conformity Product standard	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Note on bending radius Conformity Product standard Installation Cable	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)
Note on bending radius Conformity Product standard Installation Cable Cable identification	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636
Note on bending radius Conformity Product standard Installation Cable Cable identification Cable Type	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3
Note on bending radius Conformity Product standard Installation Cable Cable identification Cable Type Printing color of wire insulation	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black)
Note on bending radius Conformity Product standard Installation Cable Cable identification Cable Type Printing color of wire insulation Jacket Color	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black
Note on bending radius Conformity Product standard Installation Cable Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black cURus
Note on bending radius Conformity Product standard Installation Cable Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black cURus 1
Note on bending radius Conformity Product standard Installation Cable Cable identification Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black cURus 1 3 wires twisted
Note on bending radius Conformity Product standard Installation Cable Cable identification Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black cURus 1 3 wires twisted black 1, black 2, green-yellow
Note on bending radius Conformity Product standard Installation Cable Cable identification Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track)	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black cURus 1 3 wires twisted black 1, black 2, green-yellow 10 m @ 25 °C horizontal
Note on bending radius Conformity Product standard Installation Cable Cable identification Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black cURus 1 3 wires twisted black 1, black 2, green-yellow 10 m @ 25 °C horizontal 56,1 g/m
Note on bending radius Conformity Product standard Installation Cable Cable identification Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth Material jacket	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black cURus 1 3 wires twisted black 1, black 2, green-yellow 10 m @ 25 °C horizontal 56,1 g/m PUR
Note on bending radius Conformity Product standard Installation Cable Cable identification Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth Material jacket Shore hardness jacket	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black cURus 1 3 wires twisted black 1, black 2, green-yellow 10 m @ 25 °C horizontal 56,1 g/m PUR 90 ± 5 Shore A
Note on bending radius Conformity Product standard Installation Cable Cable identification Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black cURus 1 3 wires twisted black 1, black 2, green-yellow 10 m @ 25 °C horizontal 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Note on bending radius Conformity Product standard Installation Cable Cable identification Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black cURus 1 3 wires twisted black 1, black 2, green-yellow 10 m @ 25 °C horizontal 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,9 mm
Note on bending radius Conformity Product standard Installation Cable Cable identification Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 636 3 white (isolation black) black cURus 1 3 wires twisted black 1, black 2, green-yellow 10 m @ 25 °C horizontal 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,9 mm ± 5 %

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: 2024-05-07



Outer diameter insulation	1,85 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	70 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Printing color of wire insulation	white (isolation black)
Amount strands (wire)	42
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,75 mm ²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	12 A
Electrical resistance line constant wire	26 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 (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	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	Good, application-related testing DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/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: 2024-05-07