

1507434

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Bus system cable, CANopen[®], DeviceNet[™], 5-position, PUR halogen-free, red lilac RAL 4001, shielded (Tinned copper braided shield), Plug straight M12, coding: A, on free cable end, cable length: 5 m

Commercial data

Item number	1507434
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF04
Product key	BF1CKD
Catalog page	Page 433 (C-2-2019)
GTIN	4017918900243
Weight per piece (including packing)	311.2 g
Weight per piece (excluding packing)	311.2 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Notes

General	Further products with variable cable lengths can be found in the
	accessories section

Product properties

Data cable preassembled
Standard
CANopen [®]
5
1
yes
A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Interfaces

Bus system	CANopen [®] /DeviceNet™
Signal type/category	CANopen [®]
	DeviceNet™

Signaling

Status display	No
Status display present	No

Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	4 A
Transmission medium	Copper

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Material specifications

Flammability rating according to UL 94	НВ
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au



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Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated

Connection data

Pin assignment

doo.go	
Contact Color (signal designation) Contact (optional)	1 (Plug) SR (shield)
	2 (Plug) RD (V+)
	3 (Plug) BK (V-)
	4 (Plug) WH (CAN_H)
	5 (Plug) BU (CAN_L)

Connector

Connection 1

Туре	Plug straight M12
Number of positions	5
Coding type	A (Standard)
Ambient temperature (operation)	-25 °C 90 °C

Connection 2

Туре	free cable end

Cable/line

Cable length 5 m

CANopen®/DeviceNet™, PUR, violet [920]

Dimensional drawing



Cable weight	90 kg/km		
UL AWM Style	21198 (80°C/300 V)		
Number of positions	4		
Shielded	yes		
Cable type	CANopen [®] /DeviceNet™, PUR, violet [920]		
Conductor structure	2xAWG24/19+2xAWG22/19		
Conductor structure signal line	19x 0.13 mm		
AWG signal line	24		
Conductor cross section	2x 0.25 mm² (Data cable)		
	2x 0.34 mm² (Power supply)		
	1x 0.34 mm² (Drain wire)		



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Outer sheath, material PUR External sheath, color red lilac RAL 4001 Conductor material Tin-plated Cu litz wires Material wire insulation Foamed PE (Data cable) PE (Power supply) PE (Power supply) Single wire, color red-black, blue-white Twisted pairs 2 cores to the pair Type of pair shielding Plastic-coated aluminum foil, aluminum side outside Overall twist 2 pairs around a drain wire in the center to the core Optical shield covering 80 % Insulation resistance ≥ 5 GΩ*km (Data cable) ≥ 5 GΩ*km (Power supply) ≥ 5 GΩ*km (Power supply) Loop resistance ≤ 181.80 Ω/km (Power supply) Wave impedance 1 20 Ω ± 10 % (with 1 MHz) Cable capacity nom. 40 nF/km (Data cable) Nominal voltage, cable ≤ 300 V (Peak value, not for high-power applications) Test voltage Core/Core 2000 V (50 Hz, 1 min.) Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fiexel installation 5 x D Minimum bending radius, fiexel installation 10 x D Smallest bending r	Wire diameter incl. insulation	1.95 mm ±0.05 mm (Data cable)
Outer sheath, material PUR External sheath, color red lilac RAL 4001 Conductor material Tin-plated Cu litz wires Material wire insulation Foamed PE (Data cable) PE (Power supply) Single wire, color red-black, blue-white Twisted pairs 2 cores to the pair Type of pair shielding Plastic-coated aluminum foil, aluminum side outside Overall twist 2 pairs around a drain wire in the center to the core Optical shield covering 80 % Insulation resistance ≥ 5 GΩ*km (Data cable) ≥ 5 GΩ*km (Power supply) Loop resistance ≤ 181.80 Ω/km (Power supply) Wave impedance 120 Ω ± 10 % (with 1 MHz) Cable capacity nom. 40 nF/km (Data cable) Nominal voltage, cable ≤ 300 V (Peak value, not for high-power applications) Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Minimum bending radius, fixed installation 5 x D Make bending radius, fixed installation 67 mm		1.4 mm ±0.05 mm (Power supply)
External sheath, color red lilac RAL 4001 Conductor material Tin-plated Cu litz wires Material wire insulation Foamed PE (Data cable) PE (Power supply) PE (Power supply) Single wire, color red-black, blue-white Twisted pairs 2 cores to the pair Type of pair shielding Plastic-coated aluminum foil, aluminum side outside Overall twist 2 pairs around a drain wire in the center to the core Optical shield covering 80 % Insulation resistance ≥ 5 GΩ*km (Power supply) Loop resistance ≤ 181.80 Ω/km (Power supply) Loop resistance ≤ 181.80 Ω/km (Power supply) Wave impedance 120 0 ± 10 % (with 1 MHz) Cable capacity nom. 40 nF/km (Data cable) Nominal voitage, cable ≤ 3000 V (Peak value, not for high-power applications) Test voltage Core/Core 2000 V (50 Hz, 1 min.) Test voltage Core/Shield 2000 v (50 Hz, 1 min.) Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 34 mm Sma	External cable diameter	6.70 mm ±0.3 mm
Conductor material Tin-plated Cu litz wires Material wire insulation Foamed PE (Data cable) Single wire, color red-black, blue-white Twisted pairs 2 cores to the pair Type of pair shielding Plastic-coated aluminum foil, aluminum side outside Overall twist 2 pairs around a drain wire in the center to the core Optical shield covering 80 % Insulation resistance ≥ 5 GΩ*km (Data cable) ≥ 5 GΩ*km (Power supply) Loop resistance ≤ 181.80 Ω/km (Power supply) Wave impedance 120 0 ± 10 % (with 1 MHz) Cablic capacity nom. 40 nF/km (Data cable) Nominal voltage, cable ≤ 300 V (Peak value, not for high-power applications) Test voltage Core/Core 2000 V (50 Hz, 1 min.) Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 3 4 mm Smallest bending radius, smo vable installation 3 4 mm Smallest bending radius, smo vable installation 6 7 mm Max. bending cycles 5000000 Shield attenuation	Outer sheath, material	PUR
Material wire insulation Foamed PE (Data cable) PE (Power supply) Single wire, color red-black, blue-white Twisted pairs 2 cores to the pair Type of pair shielding Plastic-coated aluminum foil, aluminum side outside Overall twist 2 pairs around a drain wire in the center to the core Optical shield covering 80 % Insulation resistance ≥ 5 GΩ*km (Data cable) Loop resistance ≤ 181.80 Ω/km (Data cable) ≤ 181.80 Ω/km (Power supply) Wave impedance 120 Ω ±10 % (with 1 MHz) Cable capacity nom. 40 nF/km (Data cable) Nominal voltage, cable ≤ 300 V (Peak value, not for high-power applications) Test voltage Core/Core 2000 V (50 Hz, 1 min.) Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 34 mm Smallest bending radius, fixed installation 34 mm Smallest bending radius, fixed installation 67 mm Max. bending radius, movable installation 67 mm Max. bending radius, movable installation 67 mm Max. bending radius, fixed installation 67 mm </td <td>External sheath, color</td> <td>red lilac RAL 4001</td>	External sheath, color	red lilac RAL 4001
PE (Power supply) Single wire, color red-black, blue-white	Conductor material	Tin-plated Cu litz wires
Single wire, color red-black, blue-white Twisted pairs 2 cores to the pair Type of pair shielding Plastic-coated aluminum foil, aluminum side outside Overall twist 2 pairs around a drain wire in the center to the core Optical shield covering 80 % Insulation resistance ≥ 5 GΩ*km (Data cable) ≥ 5 GΩ*km (Power supply) ≤ 181.80 Ω/km (Data cable) ≤ 181.80 Ω/km (Power supply) ≤ 181.80 Ω/km (Power supply) Wave impedance 120 Ω ± 10 % (with 1 MHz) Cable capacity nom. 40 nF/km (Data cable) Nominal voltage, cable ≤ 300 V (Peak value, not for high-power applications) Test voltage Core/Core 2000 V (50 Hz, 1 min.) Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 34 mm Smallest bending radius, movable installation 67 mm Max. bending radius, movable installation 67 mm Max. bending radius, movable installation 67 km (At 500 kHz) ≤ 9.5 dB/km (At 126 kHz) 16.	Material wire insulation	Foamed PE (Data cable)
Twisted pairs 2 cores to the pair Type of pair shielding Plastic-coated aluminum foil, aluminum side outside Overall twist 2 pairs around a drain wire in the center to the core Optical shield covering 80 % Insulation resistance ≥ 5 GΩ*km (Data cable) ≥ 5 GΩ*km (Power supply) Loop resistance ≤ 181.80 Ω/km (Power supply) Wave impedance 120 Ω ± 10 % (with 1 MHz) Cable capacity nom. 40 nF/km (Data cable) Nominal voltage, cable ≤ 300 V (Peak value, not for high-power applications) Test voltage Core/Core 2000 V (50 Hz, 1 min.) Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 34 mm Smallest bending radius, movable installation 67 mm Max. bending cycles 5000000 Shield attenuation ≤ 22.9 dB/km (kit 1 MHz) ≤ 16.4 dB/km (At 500 kHz) ≤ 9.5 dB/km (kit 10 Mtz) ≤ 16.4 dB/km (At 500 kHz) in accordance with DIN VDE 0472 part 815 according		PE (Power supply)
Type of pair shielding Plastic-coated aluminum foil, aluminum side outside Overall twist 2 pairs around a drain wire in the center to the core Optical shield covering 80 % Insulation resistance ≥ 5 GΩ*km (Data cable) ≥ 5 GΩ*km (Power supply) Loop resistance ≤ 118.80 Ω/km (Power supply) Wave impedance 120 Ω ± 10 % (with 1 MHz) Cable capacity nom. 40 nF/km (Data cable) Nominal voltage, cable ≤ 300 V (Peak value, not for high-power applications) Test voltage Core/Core 2000 V (50 Hz, 1 min.) Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 34 mm Smallest bending radius, movable installation 67 mm Max. bending cycles 5000000 Shield attenuation ≤ 22.9 dB/km (with 1 MHz) ≤ 16.4 dB/km (At 500 kHz) ≤ 9.5 dB/km (At 125 kHz) Halogen-free in accordance with DIN VDE 0472 part 815 Flame resistance IEC 60332-1-2 in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01)	Single wire, color	red-black, blue-white
Overall twist 2 pairs around a drain wire in the center to the core Optical shield covering 80% Insulation resistance $\geq 5 \text{ GO}^*\text{km}$ (Data cable) $\geq 5 \text{ GO}^*\text{km}$ (Power supply) Loop resistance $\leq 181.80 \Omega/\text{km}$ (Power supply) Wave impedance $120 \Omega \pm 10 \%$ (with 1 MHz) Cable capacity nom. 40 nF/km (Data cable) Nominal voltage, cable $\leq 300 \text{ V}$ (Peak value, not for high-power applications) Test voltage Core/Core $\geq 2000 \text{ V}$ (50 Hz, 1 min.) Test voltage Core/Shield $\geq 2000.00 \text{ V}$ (50 Hz, 1 min.) Minimum bending radius, fixed installation $\leq 5 \text{ ND}$ Minimum bending radius, fixed installation $\leq 5 \text{ ND}$ Smallest bending radius, fixed installation $\leq 7 \text{ Mm}$ Max. bending cycles ≤ 5000000 Shield attenuation $\leq 22.9 \text{ dB/km}$ (with 1 MHz) $\leq 5 \text{ Sd/km}$ (At 125 kHz) $\leq 16.4 \text{ dB/km}$ (At 125 kHz) Halogen-free in accordance with DIN VDE 0472 part 815 Flame resistance IEC 60332-1-2 in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Low adhesion Ambient temperature (operation) $\leq 40 °$	Twisted pairs	2 cores to the pair
$ \begin{array}{lll} \text{Optical shield covering} & 80 \% \\ \text{Insulation resistance} & \geq 5 \text{G}\Omega^*\text{km} (\text{Data cable}) \\ & \geq 5 \text{G}\Omega^*\text{km} (\text{Power supply}) \\ \text{Loop resistance} & \leq 181.80 \Omega/\text{km} (\text{Power supply}) \\ & \leq 181.80 \Omega/\text{km} (\text{Power supply}) \\ \text{Wave impedance} & 120 \Omega \pm 10 \% (\text{with 1 MHz}) \\ \text{Cable capacity} & \text{nom. 40 nF/km} (\text{Data cable}) \\ \text{Some of the capacity} & \text{nom. 40 nF/km} (\text{Data cable}) \\ \text{Nominal voltage, cable} & \leq 300 \text{V} (\text{Peak value, not for high-power applications}) \\ \text{Test voltage Core/Core} & 2000 \text{V} (50 \text{Hz}, 1 \text{min.}) \\ \text{Test voltage Core/Shield} & 2000.00 \text{V} (50 \text{Hz}, 1 \text{min.}) \\ \text{Minimum bending radius, fixed installation} & 5 \text{x} \text{D} \\ \text{Minimum bending radius, fixed installation} & 34 \text{mm} \\ \text{Smallest bending radius, fixed installation} & 37 \text{mm} \\ \text{Smallest bending radius, movable installation} & 67 \text{mm} \\ \text{Smallest bending radius, movable installation} & 67 \text{mm} \\ \text{Shield attenuation} & \leq 22.9 \text{dB/km} (\text{with 1 MHz}) \\ & \leq 16.4 \text{dB/km} (\text{At 125 kHz}) \\ \text{Halogen-free} & \text{in accordance with DIN VDE 0472 part 815} \\ \text{according to IEC 60754-1} \\ \text{Flame resistance} & \text{IEC 60332-1-2} \\ \text{in accordance with ISO 6722-1 5.22} (\text{UN ECE-R 118.01}) \\ \text{Other resistance} & \text{Low adhesion} \\ \text{-40 °C} 80 °C (\text{cable, fixed installation}) \\ -30 ^{\circ}\text{C} 70 ^{\circ}\text{C} (\text{Cable, fixed installation}) \\ -30 ^{\circ}\text{C} 70 ^{\circ}\text{C} (\text{Cable, fixed installation}) \\ -20 ^{\circ}\text{C} 60 ^{\circ}\text{C} (\text{for installation}) \\ -20 ^{\circ}\text{C} 60 ^{\circ}\text{C} (\text{for installation}) \\ \end{array}$	Type of pair shielding	Plastic-coated aluminum foil, aluminum side outside
S 5 GΩ*km (Power supply)	Overall twist	2 pairs around a drain wire in the center to the core
≥ 5 GΩ*km (Power supply) Loop resistance ≤ 181.80 Ω/km (Data cable) ≤ 114.80 Ω/km (Power supply) Wave impedance 120 Ω ±10 % (with 1 MHz) Cable capacity nom. 40 nF/km (Data cable) Nominal voltage, cable ≤ 300 V (Peak value, not for high-power applications) Test voltage Core/Core 2000 V (50 Hz, 1 min.) Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 34 mm Smallest bending radius, movable installation 67 mm Max. bending cycles 5000000 Shield attenuation ≤ 22.9 dB/km (with 1 MHz) ≤ 16.4 dB/km (At 500 kHz) ≤ 9.5 dB/km (At 125 kHz) Halogen-free in accordance with DIN VDE 0472 part 815 according to IEC 60754-1 according to IEC 60754-1 Flame resistance IEC 60332-1-2 in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Low adhesion Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -30 °C	Optical shield covering	80 %
Loop resistance ≤ 181.80 Ω/km (Data cable) ≤ 114.80 Ω/km (Power supply) Wave impedance 120 Ω ±10 % (with 1 MHz) Cable capacity nom. 40 nF/km (Data cable) Nominal voltage, cable ≤ 300 V (Peak value, not for high-power applications) Test voltage Core/Core 2000 V (50 Hz, 1 min.) Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 34 mm Smallest bending radius, fixed installation 67 mm Max. bending cycles 5000000 Shield attenuation ≤ 22.9 dB/km (with 1 MHz) ≤ 16.4 dB/km (At 500 kHz) ≤ 9.5 dB/km (At 125 kHz) Halogen-free in accordance with DIN VDE 0472 part 815 according to IEC 60754-1 IEC 60332-1-2 in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Low adhesion Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -20 °C 80 °C (ror installation)	Insulation resistance	≥ 5 GΩ*km (Data cable)
$ = 114.80 \ \Omega/km \ (Power supply) $ Wave impedance $ 120 \ \Omega \pm 10 \ \% \ (with 1 \ MHz) $ $ nom. 40 \ nF/km \ (Data cable) $ $ since 300 \ V \ (Peak \ value, not for high-power applications) $ Test voltage Core/Core $ 2000 \ V \ (50 \ Hz, 1 \ min.) $ Test voltage Core/Shield $ 2000.00 \ V \ (50 \ Hz, 1 \ min.) $ Minimum bending radius, fixed installation $ 5 \times D $ Minimum bending radius, fixed installation $ 10 \times D $ Smallest bending radius, fixed installation $ 34 \ mm $ Smallest bending radius, movable installation $ 67 \ mm $ Max. bending cycles $ 5000000 $ Shield attenuation		≥ 5 GΩ*km (Power supply)
Wave impedance $120 \Omega \pm 10 \%$ (with 1 MHz)Cable capacitynom. 40 nF/km (Data cable)Nominal voltage, cable $\leq 300 \text{ V (Peak value, not for high-power applications)}}$ Test voltage Core/Core $2000.00 \text{ V (50 Hz, 1 min.)}$ Test voltage Core/Shield $2000.00 \text{ V (50 Hz, 1 min.)}$ Minimum bending radius, fixed installation $5 \times D$ Minimum bending radius, flexible installation $10 \times D$ Smallest bending radius, fixed installation 34 mm Smallest bending radius, movable installation 67 mm Max. bending cycles 5000000 Shield attenuation $\leq 22.9 \text{ dB/km (with 1 MHz)}$ $\leq 16.4 \text{ dB/km (At 500 kHz)}$ $\leq 16.4 \text{ dB/km (At 125 kHz)}$ Halogen-freein accordance with DIN VDE 0472 part 815according to IEC 60754-1IEC 60332-1-2In accordance with ISO 6722-1 5.22 (UN ECE-R 118.01)Other resistanceLow adhesionAmbient temperature (operation) $-40 \text{ °C} \dots 80 \text{ °C}$ (cable, fixed installation) $-30 \text{ °C} \dots 70 \text{ °C}$ (Cable, flexible installation) $-20 \text{ °C} \dots 60 \text{ °C}$ (for installation)	Loop resistance	≤ 181.80 Ω/km (Data cable)
Cable capacity nom. 40 nF/km (Data cable) Nominal voltage, cable ≤ 300 V (Peak value, not for high-power applications) Test voltage Core/Core 2000 v (50 Hz, 1 min.) Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 34 mm Smallest bending radius, movable installation 67 mm Max. bending cycles 5000000 Shield attenuation ≤ 22.9 dB/km (with 1 MHz) ≤ 16.4 dB/km (At 500 kHz) ≤ 9.5 dB/km (At 125 kHz) Halogen-free in accordance with DIN VDE 0472 part 815 according to IEC 60754-1 IEC 60332-1-2 In accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Low adhesion Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -20 °C 60 °C (for installation)		≤ 114.80 Ω/km (Power supply)
Nominal voltage, cable ≤ 300 V (Peak value, not for high-power applications) Test voltage Core/Core 2000 V (50 Hz, 1 min.) Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 34 mm Smallest bending radius, movable installation 67 mm Max. bending cycles 5000000 Shield attenuation ≤ 22.9 dB/km (with 1 MHz) ≤ 16.4 dB/km (At 500 kHz) ≤ 9.5 dB/km (At 125 kHz) in accordance with DIN VDE 0472 part 815 according to IEC 60754-1 Flame resistance IEC 60332-1-2 in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Low adhesion Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -30 °C 70 °C (Cable, flexible installation) -20 °C 60 °C (for installation)	Wave impedance	120 Ω ±10 % (with 1 MHz)
Test voltage Core/Core 2000 V (50 Hz, 1 min.) Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 10 x D Smallest bending radius, fixed installation 34 mm Smallest bending radius, movable installation 67 mm Max. bending cycles 5000000 Shield attenuation ≤ 22.9 dB/km (with 1 MHz) ≤ 16.4 dB/km (At 500 kHz) ≤ 9.5 dB/km (At 125 kHz) Halogen-free in accordance with DIN VDE 0472 part 815 according to IEC 60754-1 IEC 60332-1-2 in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Low adhesion Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -20 °C 60 °C (for installation)	Cable capacity	nom. 40 nF/km (Data cable)
Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 10 x D Smallest bending radius, fixed installation 34 mm Smallest bending radius, movable installation 67 mm Max. bending cycles 5000000 Shield attenuation ≤ 22.9 dB/km (with 1 MHz) ≤ 16.4 dB/km (At 500 kHz) ≤ 9.5 dB/km (At 125 kHz) Halogen-free in accordance with DIN VDE 0472 part 815 according to IEC 60754-1 IEC 60332-1-2 in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Low adhesion Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -20 °C 60 °C (for installation)	Nominal voltage, cable	≤ 300 V (Peak value, not for high-power applications)
Test voltage Core/Shield 2000.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 10 x D Smallest bending radius, fixed installation 34 mm Smallest bending radius, movable installation 67 mm Max. bending cycles 5000000 Shield attenuation ≤ 22.9 dB/km (with 1 MHz) ≤ 16.4 dB/km (At 500 kHz) ≤ 9.5 dB/km (At 125 kHz) Halogen-free in accordance with DIN VDE 0472 part 815 according to IEC 60754-1 IEC 60332-1-2 in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Low adhesion Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -20 °C 60 °C (for installation)	Test voltage Core/Core	
Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 10 x D Smallest bending radius, fixed installation 34 mm Smallest bending radius, movable installation 67 mm Max. bending cycles 5000000 Shield attenuation \$\frac{22.9 \text{ dB/km} \text{ (with 1 MHz)}}{\text{ \leq 16.4 dB/km} \text{ (At 500 kHz)}} \$\frac{16.4 \text{ dB/km} \text{ (At 125 kHz)}}{\text{ \leq 0.5 dB/km} \text{ (At 125 kHz)}} Halogen-free in accordance with DIN VDE 0472 part 815 according to IEC 60754-1 Flame resistance IEC 60332-1-2 in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -20 °C 60 °C (for installation)	Test voltage Core/Shield	
Minimum bending radius, flexible installation Smallest bending radius, fixed installation Smallest bending radius, movable installation Max. bending cycles Shield attenuation Shield	Minimum bending radius, fixed installation	
Smallest bending radius, fixed installation Smallest bending radius, movable installation Max. bending cycles 5000000 Shield attenuation \$\frac{\geq 22.9 \text{ dB/km} \text{ (with 1 MHz)}}{\geq 16.4 \text{ dB/km} \text{ (At 500 kHz)}}{\geq 9.5 \text{ dB/km} \text{ (At 125 kHz)}} Halogen-free in accordance with DIN VDE 0472 part 815 according to IEC 60754-1 Flame resistance IEC 60332-1-2 in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -20 °C 60 °C (for installation)		10 x D
Smallest bending radius, movable installation 67 mm Max. bending cycles 5000000 Shield attenuation ≤ 22.9 dB/km (with 1 MHz) ≤ 16.4 dB/km (At 500 kHz) ≤ 9.5 dB/km (At 125 kHz) Halogen-free in accordance with DIN VDE 0472 part 815 according to IEC 60754-1 IEC 60332-1-2 in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Low adhesion Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -20 °C 60 °C (for installation)	Smallest bending radius, fixed installation	34 mm
Max. bending cycles 5000000 Shield attenuation ≤ 22.9 dB/km (with 1 MHz) ≤ 16.4 dB/km (At 500 kHz) ≤ 9.5 dB/km (At 125 kHz) Halogen-free in accordance with DIN VDE 0472 part 815 according to IEC 60754-1 according to IEC 60754-1 Flame resistance IEC 60332-1-2 in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Low adhesion Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -20 °C 60 °C (for installation)		67 mm
Shield attenuation $ \leq 22.9 \text{ dB/km (with 1 MHz)} $ $ \leq 16.4 \text{ dB/km (At 500 kHz)} $ $ \leq 9.5 \text{ dB/km (At 125 kHz)} $ Halogen-free in accordance with DIN VDE 0472 part 815 according to IEC 60754-1 Flame resistance IEC 60332-1-2 in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Low adhesion Ambient temperature (operation) $ -40 \text{ °C } \dots 80 \text{ °C (cable, fixed installation)} $ $ -30 \text{ °C } \dots 70 \text{ °C (Cable, flexible installation)} $ $ -20 \text{ °C } \dots 60 \text{ °C (for installation)} $		5000000
≤ 16.4 dB/km (At 500 kHz) ≤ 9.5 dB/km (At 125 kHz) Halogen-free in accordance with DIN VDE 0472 part 815 according to IEC 60754-1 Flame resistance IEC 60332-1-2 in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Low adhesion Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -20 °C 60 °C (for installation)	Shield attenuation	≤ 22.9 dB/km (with 1 MHz)
≤ 9.5 dB/km (At 125 kHz) Halogen-free in accordance with DIN VDE 0472 part 815 according to IEC 60754-1 Flame resistance IEC 60332-1-2 in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Low adhesion Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -20 °C 60 °C (for installation)		
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according to IEC 60754-1 Flame resistance IEC 60332-1-2 in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Low adhesion -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -20 °C 60 °C (for installation)	Halogen-free	· · ·
Flame resistance IEC 60332-1-2 in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Low adhesion -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -20 °C 60 °C (for installation)		
in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) Other resistance Low adhesion -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -20 °C 60 °C (for installation)	Flame resistance	
Other resistance Low adhesion -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -20 °C 60 °C (for installation)		
Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation) -30 °C 70 °C (Cable, flexible installation) -20 °C 60 °C (for installation)	Other resistance	
-30 °C 70 °C (Cable, flexible installation) -20 °C 60 °C (for installation)		
-20 °C 60 °C (for installation)	(
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65



1507434

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IP67		

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