



PROFIBUS cable | M12 plug, straight, reverse-keyed, 4-pin – M12 socket, straight, reverse-keyed, 4-pin

Electrical data	ZK1031-6251-1xxx
Rated voltage	160 V (according to IEC 61076-2-101)
Rated current	4 A at 40 °C (according to IEC 61076-2-101)
Insulation resistance	≥ 10 GΩ (according to IEC 60512-2)
Line capacitance	28.5 nF/km
Nominal impedance	3...20 MHz, (150 ±15) Ω 38.4 kHz, (185 ±8.5) Ω 9.6 kHz, (270 ±27) Ω
Shielding	aluminium-clad foil, braiding of tinned copper wires
Attenuation	16 MHz: 42 dB/km 4 MHz: 25 dB/km 38.4 kHz: 4 dB/km 9.6 kHz: 3 dB/km

Mechanical data	
Bus plug	B-coded
Protection class	IP 67 in screwed condition (according to IEC 60529)
Ambient temperature	-30 °C...+80 °C (according to IEC 60644-1)
Insertion cycles	≤ 100 (according to IEC 60512-9a)
Contamination level	3/2 (according to IEC 60664-1)

Mechanical properties cable	
Temperature range (cable)	-40 °C...+80 °C
Cable outside diameter	8.50 ±0.40 mm
Drag chain suitable	yes
Bending radius	7.5 x D
Number of cycles	min. 5 million
Parameter	acceleration max. 4 m/sec <sup>2</sup>
Approbations	UL Style 119100 VOL.1 SEC.8 Page 1
Material properties	RoHS-compliant, halogen-free as per DIN VDE 0472, part 815/A, flame-resistant as per IEC 60332-1-2, oil-resistant as per DIN EN 60811-2-1
Wire pair 1	19 x 0.14 mm, RD/GN

Materials	
Contact material	CuZn
Contact surface	Ni, Au gal.
Contact carrier/body	TPU GF, UL 94/TPU, UL 94
Coupling screw/nut	CuZn, Ni
Seal	FPM
Cable	TPU, UL, 2-wire with filler, purple, 2 x AWG22, shielded

Ordering information	
ZK1031-6251-1003	0.30 m
ZK1031-6251-1005	0.50 m
ZK1031-6251-1010	1.00 m
ZK1031-6251-1020	2.00 m
ZK1031-6251-1050	5.00 m
ZK1031-6251-1100	10.00 m
ZK1031-6251-1150	15.00 m
ZK1031-6251-1200	20.0 m