



EtherCAT cable | M12 plug, straight, d-coded, 4-pin – M12 plug, straight, d-coded, 4-pin

Electrical data	ZK1090-6161-0xxx
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)
DC resistance	max. 58 Ω/km at 20 °C
Nominal impedance	1...100 MHz, (100 ±15) Ω
Shielding	aluminium-clad foil, braiding of tinned copper wires, coupling
Electrical parameters	according to EN 50288-2-1

Mechanical data	
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...+70 °C
Cable outside diameter	6.50 ±0.20 mm
Drag chain suitable	yes
Bending radius	200 mm
Number of cycles	min. 3 million
Parameter	max. velocity 4 m/s, acceleration max. 4 m/sec ²
Approbations	UL Style 119100 VOL.1 SEC.13 Page 1
Material properties	RoHS-compliant, halogen-free, flame-resistant as per IEC 60332-1-2, oil-resistant as per DIN EN 60811-2-1
Wire pair 1	7 x 0.25, WS/GE/BU/OR

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, PUR, UL, 4-wire around filler, 4 x AWG22, green

Ordering information	Cable length
ZK1090-6161-0005	0.50 m
ZK1090-6161-0010	1.00 m
ZK1090-6161-0020	2.00 m
ZK1090-6161-0025	2.50 m
ZK1090-6161-0050	5.00 m
ZK1090-6161-0100	10.00 m
ZK1090-6161-0200	20.00 m
ZK1090-6161-0300	30.00 m