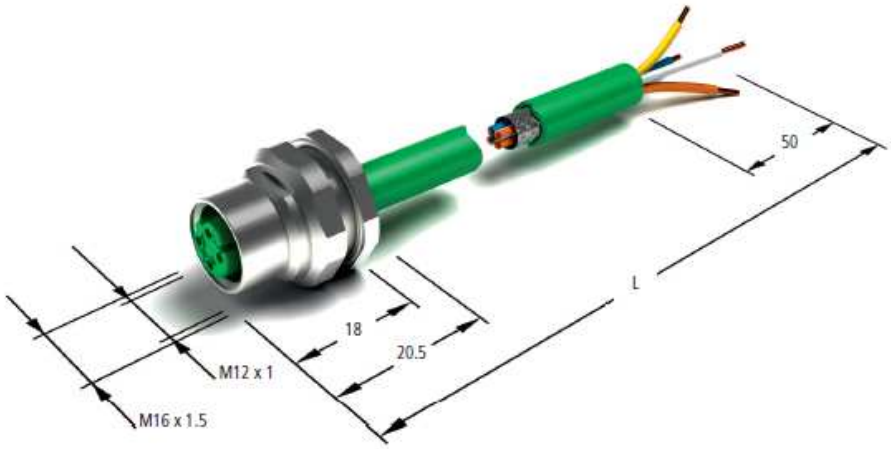

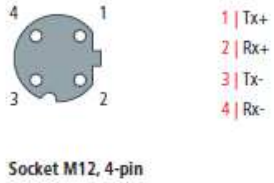

EtherCAT cable | M12 flange, straight, d-coded, 4-pin – open end

Electrical data	ZK1090-6600-0xxx
Rated voltage	160 V (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
Cable type	ZB9020

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…+80 °C
Cable outside diameter	6.50 ± 0.20 mm
Drag chain suitable	yes
Bending radius	repeated 7,5 x Ø, single 5 x Ø
Number of cycles	min. 3 million
Parameter	diameter 200mm, 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 (thermoplastic polyurethan), UL, 4-wire around filler, 4 x AWG22, green

Ordering information	cable length
ZK1090-6600-0005	0.50 m
ZK1090-6600-0010	1.00 m
ZK1090-6600-0020	2.00 m
ZK1090-6600-0050	5.00 m
ZK1090-6600-0100	10.00 m
ZK1090-6600-0300	30.00 m

Beckhoff® and EtherCAT are registered trademarks of Beckhoff. Information is subject to change without notice and warranted only to the extent agreed in the terms of contract. Beckhoff Automation GmbH, Eiserstr. 5, 33415 Verl, Germany, Tel.: +49 (0) 5246 963 0, Fax.: +49 (0) 5246 963 149, http://www.beckhoff.com