



Patch cables for EtherCAT and Industrial Ethernet

The patch cables for EtherCAT and Industrial Ethernet with pre-assembled RJ45 plugs enable fast easy connections within the control and are also suitable for short distances on the machine. The robust industrial quality PUR cables distinguish themselves from ordinary office cables by both their mechanical and their EMC characteristics.

Technical data	ZK1090-9191-0xxx, ZK1090-9191-5xxx
Wires	4 pairs
Cross section	0.128 mm ² , AWG 26/7
DC resistance	max. 290 Ω / km, at 20°C
Resistance unbalance	max. 5% at 20°C
Insulation resistance (500 V)	min. 5000 MΩ / km, at 20°C
Mutual capacitance	nom. 5.1 nF / 100 m at 1 kHz
Capacitance unbalance	max. 160 pF / 100 m at 1 kHz (pair to ground)
Characteristic impedance	100 Ω ± 15 Ω (1 ... 100 MHz)
Test voltage	1 kV (DC, 1 min)
Cable sheet material / Color	PUR / green (RAL 6018)
Cable construction	SF/UTP
Cord diameter	typical 5.8 mm ±0.2 mm
Minimum bend radius	> 5 x diameter (fixed installation)
Insertion cycles	min. 750
Category / class	CAT5, Class D
permissible ambient temperature range	-40°C ... +80°C (in operation)
	-10°C ... +60°C (at installation)
Fire rating	IEC 60332-1, UL94-V0
Standards	EIA/TIA 568-B.2; IEC 61156-6; ISO/IEC 11801; EN50173; EN50288-2-2

Ordering information

Length	Type
0.17 m	ZK1090-9191-0001
0.23 m	ZK1090-9191-5023
0.26 m	ZK1090-9191-0002
0.32 m	ZK1090-9191-5032
0.42 m	ZK1090-9191-5042
0.50 m	ZK1090-9191-0005
0.75 m	ZK1090-9191-0007
1.00 m	ZK1090-9191-0010

Length	Type
1.25 m	ZK1090-9191-0012
1.50 m	ZK1090-9191-0015
1.75 m	ZK1090-9191-0017
2.00 m	ZK1090-9191-0020
2.50 m	ZK1090-9191-0025
3.00 m	ZK1090-9191-0030
4.00 m	ZK1090-9191-0040
5.00 m	ZK1090-9191-0050

Length	Type
5.5 m	ZK1090-9191-0055
6.0 m	ZK1090-9191-0060
7.0 m	ZK1090-9191-0070
8.0 m	ZK1090-9191-0080
9.0 m	ZK1090-9191-0090
10.0 m	ZK1090-9191-0100
15.0 m	ZK1090-9191-0150
20.0 m	ZK1090-9191-0200

Length	Type
25.0 m	ZK1090-9191-0250
30.0 m	ZK1090-9191-0300
35.0 m	ZK1090-9191-0350
40.0 m	ZK1090-9191-0400
45.0 m	ZK1090-9191-0450
50.0 m	ZK1090-9191-0500

Further versions and lengths may be found at our homepage (www.beckhoff.com) and at the price list.