



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	ZK1090-9191-00xx
Wires	4 pairs
Cross section	0.128 mm ² , AWG26/7
DC resistance	max. 14 Ω / 100 m, 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 (pair to ground)	max. 160 pF / 100 m at 1 kHz
Characteristic impedance	100 Ω ± 15 Ω (1-100 MHz)
Test voltage	1 kV (DC, 1 min)
Cable sheet material	PUR
Color	green (RAL 6018)
Cable construction	SF/UTP
Cord diameter	typical 5.9 mm ±0,2 mm
Bend radius	< 5 x diameter
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-V2
Standards	EIA/TIA 568-B.2; IEC 61156-6; ISO/IEC 11801; EN50173; EN50288-2-2

Ordering information*

Type	Length
ZK1090-9191-0001	0.17 m
ZK1090-9191-0002	0.26 m
ZK1090-9191-0005	0.5 m
ZK1090-9191-0010	1.0 m

Type	Length
ZK1090-9191-0020	2.0 m
ZK1090-9191-0030	3.0 m
ZK1090-9191-0050	5.0 m
ZK1090-9191-0100	10 m

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