

## RJ45 patchcord Cat.6A UL

500 MHz, shielded, assignment 1:1



### Description

Shielded patch and connection cables with a shielded RJ45 plug and an anti-kink sleeve in the cable sheath colour as well as latching nose protection on both sides.

The patch cables comply with the Category 6A (IEC) component standard and fulfil the Class EA channel requirements for 10GBase-T transmissions in a cabling link.

The cable has an overlapping copper braid as an overall shield, which ensures excellent NEXT and impedance values.

Standard range: from 0.5 m to 20 m.

### Construction

Wire material	bare copper wire
Cross section	4 x 2 x AWG 27/7 - 4 x 2 x 0.1 mm <sup>2</sup>
Insulation	Cellular PE
Arrangement of wire cores	4 pairs twisted
Shielding	tinned copper braiding
Outer sheath material	LSZH
Outer sheath colour	grey

### General properties

Cable type	S/FTP
Type of connector connection 1	RJ45 IP 20
Type of connector connection 2	RJ45 IP 20
Wire colour	white/blue, white/orange, white/green, white/brown, according to IEC 60189 and IEC 60708
Installation temperature	0 °C - +50 °C
Storage temperature	-20 °C - +60 °C

## Electrical properties

Category	Cat.6A
Characteristic impedance	100 ± 15 Ω @ 1–100 MHz
Delay skew	2.5 ns/100 m
Operating capacity	46 pF/m
Resistance differential	5 %
Test voltage, wire-wire-shield	2.5 kV / DC, 2 s
Gbit/s	Up to 10 Gbit/s
Shielding	shielded

## Mechanical properties

Minimum bending radius	30 mm
Tensile strength (4P)	40 N

## Standards

Zero halogen no corrosive gases	IEC 60754-2
Flame propagation	IEC 60332-1-2
Flame spread	IEC 60332-3-24
Cabling standards	ISO/IEC 11801
Connector standards	IEC 60603-7-51
PoE	IEEE 802.3at
UL certification	DUXR2

## Versions

Material number	Product	Length (m)	Weight [kg]	GTIN / EAN
65541100ZY	RJ45 patchcord Cat.6A UL	1	0.05 kg	40393910233612
65541200ZY	RJ45 patchcord Cat.6A UL	2	0.09 kg	40393910233605
65541300ZY	RJ45 patchcord Cat.6A UL	3	0.12 kg	40393910233599
65541400ZY	RJ45 patchcord Cat.6A UL	5	0.19 kg	40393910233582
65541500ZY	RJ45 patchcord Cat.6A UL	10	0.38 kg	40393910233575
65541600ZY	RJ45 patchcord Cat.6A UL	15	0.55 kg	40393910233568