DATASHEET

RJ45 Flat Patch Cord Cat.6A U/FTP PVC red 1m

General data

The Cat.6A (TIA) network cable from EFB-Elektronik supports data transmissions up to 10Gbit. U/FTP shielding reliably protects against interference and ensures good signal quality. Because it is a Cat.6A (TIA) patch cable, it offers a frequency range of up to 500MHz, which provides high data transmission performance.

• Space-saving cabling – the flat cable enables kink-free installation in confined spaces.
• Cover fire protection requirements in compliance with standards – flame-retardant cable behaviour according to IEC60332-1 reduces the spread of fire in the event of a fault and supports compliance with common installation specifications.
• Supply and connect end devices via one cable – reduces cabling effort because data and power are transmitted via PoE+ according to IEEE802.3at on a single line. PoE+ according to IEEE802.3at can only be used up to certain cable lengths.

Product Description

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WIR SORGEN FÜR VERBINDUNG
WE CARE FOR CONNECTION

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This patch cord offers enhanced pair-level interference resistance (U/FTP) – individually foil-shielded wire pairs reduce crosstalk, increase data security, and ensure stable high-speed transmission. It can be used in a temperature range of -20 – 60 °C. The wide range of possible applications is supported by the bending radius of >20 mm. The Ethernet cable has an IP20 rating. The polyvinyl chloride (PVC) jacket is a flexible standard jacket for network applications, without special fire protection properties.

Technical details
- Cat.6A (TIA)
- Connector: RJ45 8(8) to RJ45 8(8) with extra-short RJ45 connectors
- Shielding: U/FTP cable with 4x2 x AWG30/7
- Cable shape: flat
- Pin assignment: 1:1 according to TIA/EIA 568B
- Equivalent to PoE class: PoE according to IEEE802.3af
- Gold-plated contacts
- Sheath: Polyvinyl chloride (PVC) sheath material
- External dimensions of the cable: 7.0*2.2 mm
- With an injected anti-kink grommet
- Fire protection: flame-retardant according to IEC60332-1
- Degree of protection: IP20
- With a punctual screen contact
- With locking lever protection
- Mating cycles: ≥750
- Brand: EFB-Elektronik

Technical properties	
AWG-size	30/7
Allocation	acc. TIA/EIA 568B
Anti-kink sleeve	moulded-on
Area of Application	Industrial Ethernet
Bandwidth	500MHz
Bending radius	>20 mm
Cable construction	4x2
Cable shape	flat
Cable type	U/FTP
Cabling standard	EN50173
Category	6A (TIA)
Colour anti-kink sleeve	red
Colour outer sheath	red
Conductive shield	Selected shield contact
Conductor Material	Copper
Conductor resistance DC	376 Ω/km
Connector	IEC 60603-7-51

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Connector type	RJ45 short version
Contacts	Gold plated
Current capacity	max. 1 A
Fire retardant version	acc. IEC60332-1
Halogen free	False
Harmonised Standard	EN 50575
Impedance	100 ±15 Ω
Insulation Resistance	100 MΩ
Length imprint	False
Locking lever	True
Loop resistance	752 Ω/km
Material outer sheath	PVC
Mating cycles	≥750
Model	shielded
NVP value	76 %
Oil resistant	no
Operating Temperature	-20 – 60 °C
Operating-/ tempering voltage	max. 50 V DC
Outer diameter of the cable	7.0*2.2 mm
Ozone resistance	No
Pin assignment	1:1
Printing	SLIM PATCHCABLE U/FTP CAT.6A ***10GE***
Resistance unbalance	< 4 %
Resistant to chemicals	False
Silicone-free	True
Suitable for degree of protection (IP)	IP20
Test voltage	1000 (V DC, 1min) core/core und core/screen
Transmission	10Gbit
Type of connector connection 1	RJ45 8(8)
Type of connector connection 2	RJ45 8(8)
UL approbated	False
UV resistant	no

Available variants

ArtNr.	Bezeichnung	Length	POE class	Length tolerance

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K5545RT.0,15	RJ45 Flat Patch Cord Cat.6A U/FTP PVC rot 0.15m	0.15 m	PoE acc. to IEEE802.3af	±5 %
K5545RT.0,25	RJ45 Flat Patch Cord Cat.6A U/FTP PVC red 0,25m	0.25 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at	±5 %
K5545RT.0,5	RJ45 Flat Patch Cord Cat.6A U/FTP PVC red 0,5m	0.5 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at	±5 %
K5545RT.1	RJ45 Flat Patch Cord Cat.6A U/FTP PVC red 1m	1.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at	±5 %
K5545RT.1,5	RJ45 Flat Patch Cord Cat.6A U/FTP PVC red 1,5m	1.5 m	PoE acc. to IEEE802.3af	±5 %
K5545RT.2	RJ45 Flat Patch Cord Cat.6A U/FTP PVC red 2m	2.0 m	PoE acc. to IEEE802.3af	±5 %
K5545RT.3	RJ45 Flat Patch Cord Cat.6A U/FTP PVC red 3m	3.0 m	PoE acc. to IEEE802.3af	±5 %
K5545RT.5	RJ45 Flat Patch Cord Cat.6A U/FTP PVC red 5m	5.0 m	PoE acc. to IEEE802.3af	±5 %

Note on Intended Use

This data sheet is intended solely to describe the technical characteristics of the product. It does not replace an assessment of the product’s suitability for a specific application. The user is responsible for ensuring that the product is used in accordance with its technical specifications and applicable legal and regulatory requirements.

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