DATASHEET

RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 3m

General data

This Cat.6A (TIA) Ethernet cable from EFB-Elektronik transmits data up to 10Gbit. Since it is a Cat.6A (TIA) data cable, it supports a frequency range of up to 500MHz, which provides high data transmission performance.

• Slim cable – the extra-thin cable construction with an outer diameter of 3.6 mm makes the patch cable particularly suitable for areas with limited space or hard-to-reach areas.
• 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.
• Power and connect end devices via one cable – reduces cabling effort because data and power are transmitted via PoE+ to IEEE802.3at on one line (fewer power adapters/sockets, faster installation).

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Product Description
The unshielded design in this U/UTP Ethernet cable enables cost-effective networking in low-interference environments while providing high flexibility for easy installation. The temperature range of the cable is -20 – 60 °C. The wide range of possible applications is supported by the bending radius of >15 mm. The patch cable has an IP20 rating. The TPE/LSZH jacket is flexible, halogen-free and low-smoke, making it ideal for safe and professional patch and server cabinet installations.

Technical details
• Cat.6A (TIA)
• Connector: RJ45 8(8) to RJ45 8(8) with extra-short RJ45 connectors
• Shielding: U/UTP cable with 4x2 x AWG30/7
• Cable shape: slim
• Pin assignment: 1:1 according to TIA/EIA 568B
• Corresponds to PoE class: PoE according to IEEE802.3af and PoE+ according to IEEE802.3at
• Gold-plated contacts
• Sheath: TPE/LSZH sheath material
• Outer diameter: 3.6 mm
• With an injected anti-kink grommet
• Fire protection: flame-retardant according to IEC60332-1, low-smoke according to IEC61034, halogen-free according to IEC60754-2
• Degree of protection: IP20
• 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	>15 mm
Cable construction	4x2
Cable shape	slim
Cable type	U/UTP
Cabling standard	EN50173
Category	6A (TIA)
Colour anti-kink sleeve	black
Colour outer sheath	black
Conductive shield	No
Conductor Material	Copper

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Conductor resistance DC	376 Ω/km
Connector	IEC 60603-7-41
Connector type	RJ45 short version
Contact Resistance	< 20 mΩ
Contacts	Gold plated
Current capacity	max. 1 A
Fire retardant version	acc. IEC60332-1
Halogen free	acc. IEC60754-2
Harmonised Standard	EN 50575
Impedance	100 ±15 Ω
Insulation Resistance	100 MΩ
Length imprint	False
Locking lever	True
Loop resistance	752 Ω/km
Low smoke	acc. IEC61034
Material outer sheath	TPE/LSZH
Mating cycles	≥750
Model	unshielded
NVP value	76 %
Oil resistant	no
Operating Temperature	-20 – 60 °C
Operating-/ tempering voltage	max. 50 V DC
Outer diameter of the cable	3.6 mm
Ozone resistance	No
Pin assignment	1:1
Printing	Cat.6A Patchcord ULTRAFLEX U/UTP TPE 10G
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

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Available variants

ArtNr.	Bezeichnung	Length	POE class	Length tolerance
K8108SW.0,15	RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 0,15m	0.15 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at	±5 %
K8108SW.0,25	RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 0,25m	0.25 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at	±5 %
K8108SW.0,5	RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 0,5m	0.5 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at	±5 %
K8108SW.1	RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 1m	1.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at	±5 %
K8108SW.1,5	RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 1,5m	1.5 m	PoE acc. to IEEE802.3af	±5 %
K8108SW.2	RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 2m	2.0 m	PoE acc. to IEEE802.3af	±5 %
K8108SW.3	RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 3m	3.0 m	PoE acc. to IEEE802.3af	±5 %
K8108SW.5	RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 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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