DATASHEET

RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 30m

General data

This Cat.6A (TIA) data cable from the EFB-Elektronik brand transmits data up to 10Gbit. S/FTP shielding reliably protects against interference and ensures high-quality signals. Because it is a Cat.6A (TIA) network cable, it supports a frequency range of up to 500MHz, which provides high data transmission performance.

• Designed for sun-exposed installations – UV-resistant jacket materials reduce material ageing caused by sun exposure and increase service life when used in bright/sunny areas (e.g. near windows or in sheltered outdoor areas).
• Increase interference immunity in electromagnetically charged environments – double shielding (S/FTP) improves EMC reserve, reduces susceptibility to radiation and stabilizes transmission in parallel cable routing.
• 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.

Product Description
The S/FTP data cable has a double shield that effectively minimizes electromagnetic interference. It can be used in an extended temperature range of -40 – 80 °C. The wide range of possible applications is supported by the bending radius of >31 mm. The Ethernet cable is IP20 rated. 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)

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- Connector: RJ45 8(8) to RJ45 8(8) with RJ45 connectors
- Shielding: S/FTP cable with 4x2 x AWG26/7
- Cable shape: round
- Pin assignment: 1:1 according to TIA/EIA 568B
- Equivalent to PoE class: PoE to IEEE802.3af, PoE+ to IEEE802.3at, and 4PPoE to IEEE802.3bt
- Gold-plated contacts
- Sheath: TPE/LSZH sheath material
- Outer diameter: 6.2 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 a 360° umbrella attachment
- With locking lever protection
- Mating cycles: ≥750
- Brand: EFB-Elektronik

Technical properties	
AWG-size	26/7
Allocation	acc. TIA/EIA 568B
Anti-kink sleeve	moulded-on
Area of Application	Industrial Ethernet
Bandwidth	500MHz
Bending radius	>31 mm
Cable construction	4x2
Cable shape	rund
Cable type	S/FTP
Cabling standard	EN50173
Category	6A (TIA)
Colour anti-kink sleeve	black
Colour outer sheath	black
Conductive shield	360° shield contact
Conductor Material	Copper
Conductor resistance DC	142 Ω/km
Connector	IEC 60603-7-51
Connector type	RJ45 standard
Contact Resistance	20 mΩ
Contacts	Gold plated
Current capacity	max. 1 A
Dielectric strength acc. to IEC 60664-1	6 kV
Fire retardant version	acc. IEC60332-1

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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	284 Ω/km
Low smoke	acc. IEC61034
Material outer sheath	TPE/LSZH
Mating cycles	≥750
Model	shielded
Oil resistant	no
Operating Temperature	-40 – 80 °C
Operating-/ tempering voltage	max. 50 V DC
Outer diameter of the cable	6.2 mm
Ozone resistance	No
Pin assignment	1:1
Printing	Cat.6A Patchcord SUPERFLEX S/FTP www.efb-elektronik.de
Resistant to chemicals	False
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	yes

Available variants

ArtNr.	Bezeichnung	Length	POE class	Length tolerance
K5538SW.1	RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 1m	1.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5538SW.10	RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 10m	10.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5538SW.15	RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 15m	15.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5538SW.2	RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 2m	2.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %

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K5538SW.20	RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 20m	20.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5538SW.3	RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 3m	3.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5538SW.30	RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 30m	30.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at	±5 %
K5538SW.5	RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 5m	5.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at	±5 %
K5538SW.7,5	RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 7,5m	7.5 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±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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