DATASHEET

RJ45 Patch cable S/FTP, Cat.6, PVC, short boot, UL, 2m, black



General data

The Cat.6 patch cable from EFB-Elektronik transmits data up to 5Gbit. The S/FTP shielding reliably protects against interference and ensures good signal quality. Since it is a Cat.6 network cable, it supports a frequency range of up to 250MHz, which enables high data transmission performance.

• 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.
• Reliable performance for your network connection – the pure copper conductor material ensures stable data transmission and supports consistent signal quality in typical IT and home network applications.

Product Description
The S/FTP Ethernet cable has a double shield that effectively minimizes electromagnetic interference. It can be used in a temperature range of -5 – 75 °C. The wide range of possible applications is supported by the bending radius of >27.5 mm. The network cable is IP20 rated. The polyvinyl chloride (PVC) jacket is a flexible standard jacket for network applications, without special fire protection properties.

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Technical details
- Cat.6
- 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
- UL approved
- Gold-plated contacts
- Sheath: Polyvinyl chloride (PVC) sheath material
- Outer diameter: 6.5 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	26/7
Allocation	acc. TIA/EIA 568B
Anti-kink sleeve	moulded-on
Area of Application	Industrial Ethernet
Bandwidth	250MHz
Bending radius	>27,5 mm
Cable construction	4x2
Cable shape	rund
Cable type	S/FTP
Cabling standard	EN50173
Category	6
Colour anti-kink sleeve	black
Colour outer sheath	black
Conductive shield	Selected shield contact
Conductor Material	Copper
Connector	IEC 60603-7-5
Connector type	RJ45 standard
Contact Resistance	< 20 mΩ
Contacts	Gold plated
Current capacity	max. 1 A

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Fire retardant version	acc. IEC60332-1
Halogen free	False
Harmonised Standard	EN 50575
Impedance	100 ±15 Ω
Insulation Resistance	500 MΩ
Length imprint	False
Locking lever	True
Material outer sheath	Polyvinylchlorid (PVC)
Mating cycles	≥750
Model	shielded
Oil resistant	no
Operating Temperature	-5 – 75 °C
Operating-/ tempering voltage	max. 50 V DC
Outer diameter of the cable	6.5 mm
Ozone resistance	No
Pin assignment	1:1
Printing	VOIP Cat.6 Patchcable S/FTP AWG26/7 UL E132276-C CM 75°C 4PR PVC IEC332-1 ISO-IEC11801 TIA/EIA-568-B.2.1 ***Voice Over IP***
Resistant to chemicals	False
Suitable for degree of protection (IP)	IP20
Test voltage	1000 (V DC, 1min) core/core und core/screen
Transmission	5Gbit
Type of connector connection 1	RJ45 8(8)
Type of connector connection 2	RJ45 8(8)
UL approbated	True
UV resistant	Nein

Available variants

ArtNr.	Bezeichnung	Length	POE class	Length tolerance
K2460.1	RJ45 Patch cable S/FTP, Cat.6, PVC, short boot, UL, 1m, black	1.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K2460.15	RJ45 Patch cable S/FTP, Cat.6, PVC, short boot, UL, 15m, black	15.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K2460.2	RJ45 Patch cable S/FTP, Cat.6, PVC, short boot, UL, 2m, black	2.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %

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K2460.3	RJ45 Patch cable S/FTP, Cat.6, PVC, short boot, UL, 3m, black	3.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K2460.6	RJ45 Patch cable S/FTP, Cat.6, PVC, short boot, UL, 6m, black	6.0 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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