DATASHEET

RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 50m



General data

The Cat.6A (TIA) data cable from the EFB-Elektronik brand supports data transmissions up to 10Gbit. The S/FTP shielding reliably protects against interference and ensures high signal quality. Because it is a Cat.6A (TIA) data cable, it offers a frequency range of up to 500MHz, which provides 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 patch cable has a double shield that effectively reduces electromagnetic interference. The temperature range of the cable is -20 – 75 °C. The wide range of possible applications is supported by the bending radius of >34 mm. The patch cord is IP20 rated. The polyvinyl chloride (PVC) jacket is a flexible standard jacket for network applications, without special fire protection properties.

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 AWG24/7
- 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: 6.8 mm
- With an injected anti-kink grommet
- Fire protection: flame-retardant according to IEC60332-1
- Degree of protection: IP20
- With a 360° umbrella attachment
- With locking lever protection
- Mating cycles: ≥750
- Brand: EFB-Elektronik

Technical properties	
AWG-size	24/7
Allocation	acc. TIA/EIA 568B
Anti-kink sleeve	moulded-on
Area of Application	Industrial Ethernet
Bandwidth	500MHz
Bending radius	>34 mm
Cable construction	4x2
Cable shape	rund
Cable type	S/FTP
Cabling standard	EN50173
Category	6A (TIA)
Colour anti-kink sleeve	grey
Colour outer sheath	grey
Conductive shield	360° shield contact
Conductor Material	Copper
Connector	IEC 60603-7-51
Connector type	RJ45 standard
Contact Resistance	< 20 mΩ
Contacts	Gold plated
Current capacity	max. 1 A
Fire retardant version	acc. IEC60332-1
Halogen free	False
Harmonised Standard	EN 50575

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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	-20 – 75 °C
Operating-/ tempering voltage	max. 50 V DC
Outer diameter of the cable	6.8 mm
Ozone resistance	No
Pin assignment	1:1
Printing	E132276-C (UL) CM 75° 4PR 26AWG CSA LL64151-C CMG 75°C FT4 Cat.6(A) SSTP PATCH CORD
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	True
UV resistant	Nein

Available variants

ArtNr.	Bezeichnung	Length	POE class	Length tolerance
K5537GR.20	RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 20m	20.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5537GR.30	RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 30m	30.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5537GR.40	RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 40m	40.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5537GR.50	RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 50m	50.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5537GR.60	RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 60m	60.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5537GR.70	RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 70m	70.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %

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K5537GR.80	RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 80m	80.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5537GR.90	RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 90m	90.0 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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