DATASHEET

RJ45 Patch Cord Cat.6A S/FTP PVCUL grey 20m

General data

This Cat.6A (TIA) LAN cable from EFB-Elektronik supports data transfers up to 10Gbit. S/FTP shielding reliably protects against interference and ensures good signal quality. Since it is a Cat.6A (TIA) Ethernet 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.
• Power and connect end devices via one cable – reduces cabling effort because data and power are transmitted via 4PPoE according to IEEE802.3bt on one line (fewer power supplies/sockets, faster installation).

Product Description
The S/FTP data cable has a double shield, which effectively reduces electromagnetic interference. It can be used in a temperature range of -20 – 75 °C. The wide range of possible applications is supported by the bending radius of >31 mm. The patch 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)

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- Connector: RJ45 8(8) to RJ45 8(8) with blue 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	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	grey
Colour outer sheath	grey
Conductive shield	Selected shield contact
Conductor Material	Copper
Conductor resistance DC	142 Ω/km
Connector	IEC 60603-7-51
Connector type	RJ45 standard blue
Contact Resistance	30 mΩ
Contacts	Gold plated
Current capacity	max. 1.5 A
Fire retardant version	acc. IEC60332-1
Halogen free	False

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Harmonised Standard	EN 50575
Impedance	100 ±15 Ω
Insulation Resistance	100 MΩ
Length imprint	False
Locking lever	True
Loop resistance	284 Ω/km
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	6.5 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
K5535GR.0,5	RJ45 Patch Cord Cat.6A S/FTP PVCUL grey 0,5m	0.5 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5535GR.1	RJ45 Patch Cord Cat.6A S/FTP PVCUL grey 1m	1.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5535GR.10	RJ45 Patch Cord Cat.6A S/FTP PVCUL grey 10m	10.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5535GR.15	RJ45 Patch Cord Cat.6A S/FTP PVCUL grey 15m	15.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %

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K5535GR.2	RJ45 Patch Cord Cat.6A S/FTP PVCUL grey 2m	2.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5535GR.20	RJ45 Patch Cord Cat.6A S/FTP PVCUL grey 20m	20.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5535GR.3	RJ45 Patch Cord Cat.6A S/FTP PVCUL grey 3m	3.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5535GR.30	RJ45 Patch Cord Cat.6A S/FTP PVCUL grey 30m	30.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at	±5 %
K5535GR.5	RJ45 Patch Cord Cat.6A S/FTP PVCUL grey 5m	5.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5535GR.7,5	RJ45 Patch Cord Cat.6A S/FTP PVCUL grey 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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