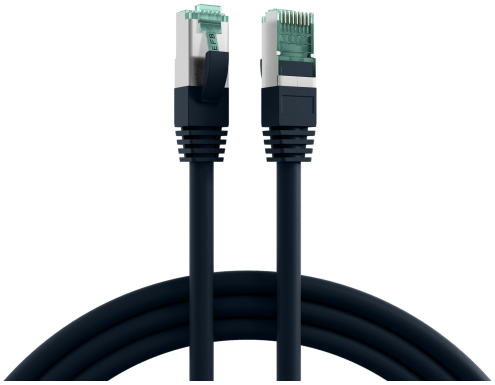
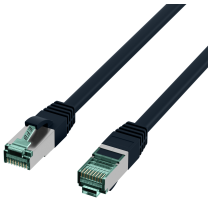
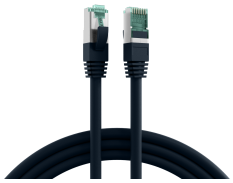
DATASHEET

RJ45 Patch Cord Cat.6A S/FTP LSZH black 1m







General data

This Cat.6A (TIA) LAN cable from EFB-Elektronik supports data transfers up to 10Gbit. The S/FTP shielding reliably protects against interference and ensures good signal quality. Because it is a Cat.6A (TIA) LAN cable, it supports a frequency range up to 500MHz, 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.
• Power and connect devices via a cable – reduces cabling effort because data and power are transmitted via 4PPoE to IEEE802.3bt on a single line. 4PPoE according to IEEE802.3bt can only be used up to certain cable lengths.

Product Description

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The S/FTP LAN cable has double shielding, which effectively reduces electromagnetic interference. The temperature range of the cable is -20 – 60 °C. The wide range of possible applications is supported by the bending radius of >30 mm. The patch cord is IP20 rated. The LSZH jacket is halogen-free and low-smoke. In the event of a fire, it minimizes smoke development and increases indoor safety.

Technical details
• Cat.6A (TIA)
• Connector: RJ45 8(8) to RJ45 8(8) with green RJ45 connectors
• Shielding: S/FTP cable with 4x2 x AWG27/7
• 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: LSZH sheath material
• Outer diameter: 6.0 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 punctual screen contact
• With locking lever protection
• Mating cycles: ≥750
• With length print
• Brand: EFB-Elektronik

Technical properties	
AWG-size	27/7
Allocation	acc. TIA/EIA 568B
Anti-kink sleeve	moulded-on
Area of Application	Industrial Ethernet
Bandwidth	500MHz
Bending radius	>30 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	Selected shield contact
Conductor Material	Copper
Conductor resistance DC	185 Ω/km

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Connector	IEC 60603-7-51
Connector type	RJ45 standard green
Contact Resistance	30 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	10 MΩ
Length imprint	True
Locking lever	True
Loop resistance	370 Ω/km
Low smoke	acc. IEC61034
Material outer sheath	LSZH
Mating cycles	≥750
Model	shielded
NVP value	74 %
Oil resistant	no
Operating Temperature	-20 – 60 °C
Operating-/ tempering voltage	max. 50 V DC
Outer diameter of the cable	6.0 mm
Ozone resistance	No
Pin assignment	1:1
Printing	Cat.6A PATCH S/FTP 4x2xAWG27/7 LSZH ISO/IEC11801 ANSI/TIA-568-C.2 ***10Gigabit Ethernet*** www.efb-elektronik.de
Raw cable	Cat.6A
Resistance unbalance	3 %
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
Total screening	80 %
Transmission	10Gbit
Type of connector connection 1	RJ45 8(8)
Type of connector connection 2	RJ45 8(8)

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UL approbated	False
UV resistant	no

Available variants

ArtNr.	Bezeichnung	Length	POE class	Length tolerance
MK6001.0,15B	RJ45 Patch Cord Cat.6A S/FTP LSZH black 0,15m	0.15 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK6001.0,25B	RJ45 Patch Cord Cat.6A S/FTP LSZH black 0,25m	0.25 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK6001.0,5B	RJ45 Patch Cord Cat.6A S/FTP LSZH black 0,5m	0.5 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK6001.1,5B	RJ45 Patch Cord Cat.6A S/FTP LSZH black 1,5m	1.5 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK6001.10B	RJ45 Patch Cord Cat.6A S/FTP LSZH black 10m	10.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK6001.15B	RJ45 Patch Cord Cat.6A S/FTP LSZH black 15m	15.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at	±5 %
MK6001.1B	RJ45 Patch Cord Cat.6A S/FTP LSZH black 1m	1.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK6001.20B	RJ45 Patch Cord Cat.6A S/FTP LSZH black 20m	20.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at	±5 %
MK6001.25B	RJ45 Patch Cord Cat.6A S/FTP LSZH black 25m	25.0 m	PoE acc. to IEEE802.3af	±5 %
MK6001.2B	RJ45 Patch Cord Cat.6A S/FTP LSZH black 2m	2.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK6001.30B	RJ45 Patch Cord Cat.6A S/FTP LSZH black 30	30.0 m	PoE acc. to IEEE802.3af	±5 %
MK6001.3B	RJ45 Patch Cord Cat.6A S/FTP LSZH black 3m	3.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK6001.40B	RJ45 Patch Cord Cat.6A S/FTP LSZH black 40m	40.0 m	No	±5 %
MK6001.50B	RJ45 Patch Cord Cat.6A S/FTP LSZH black 50m	50.0 m	No	±5 %
MK6001.5B	RJ45 Patch Cord Cat.6A S/FTP LSZH black 5m	5.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK6001.7,5B	RJ45 Patch Cord Cat.6A S/FTP LSZH 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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