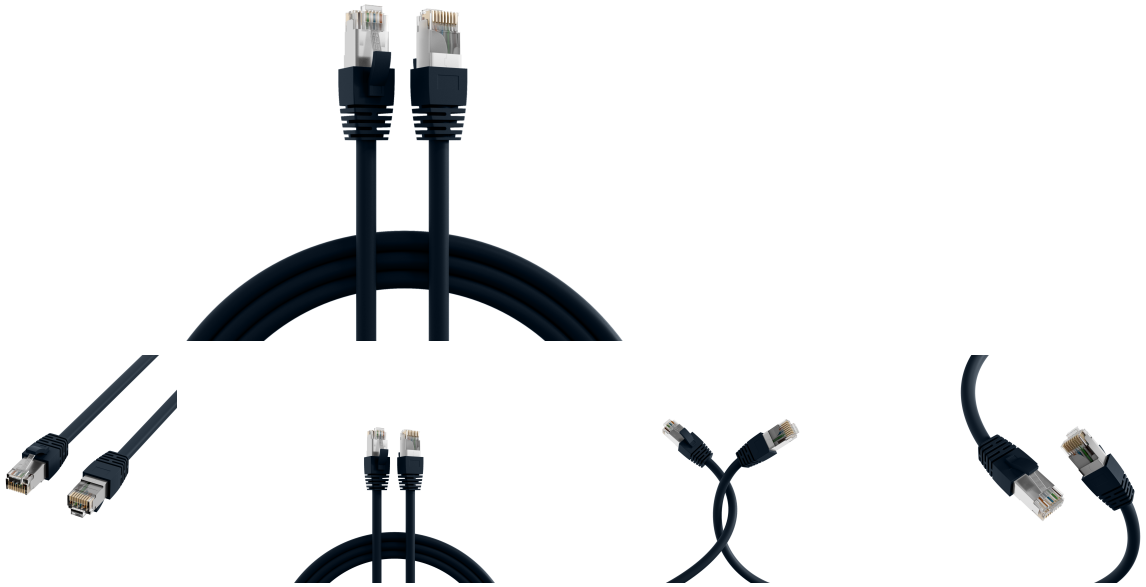
DATASHEET

RJ45 Patch Cord Cat.8.1 S/FTP LSZH BC black 3m



General data

The Cat.8.1 data cable of the EFB-Elektronik brand supports data transmissions up to 40Gbit. The S/FTP shielding reliably protects against interference and ensures high signal quality. Because it is a Cat.8.1 Ethernet cable, it offers a frequency range of up to 2000MHz, 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.
• Increased safety in the event of a fire according to IEC60754-2 – halogen-free materials reduce corrosive fire gases, which means that people, technology and building structures are better protected.

Product Description
The S/FTP LAN cable has double shielding, which effectively minimizes 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 >40 mm. The Ethernet cable has an IP20 rating. 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.8.1

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WIR SORGEN FÜR VERBINDUNG
WE CARE FOR CONNECTION

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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
- Gold-plated contacts
- Sheath: LSZH sheath material
- Outer diameter: 8 mm
- With an injected anti-kink grommet
- Fire protection: flame-retardant according to IEC60332-1, 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	24/7
Allocation	acc. TIA/EIA 568B
Anti-kink sleeve	moulded-on
Area of Application	Industrial Ethernet
Bandwidth	2000MHz
Bending radius	>40 mm
Cable construction	4x2
Cable shape	rund
Cable type	S/FTP
Cabling standard	EN50173
Category	8.1
Colour anti-kink sleeve	black
Colour outer sheath	black
Conductive shield	Selected shield contact
Conductor Material	Copper
Connector	IEC 60603-7-81
Connector type	RJ45 standard
Contact Resistance	5 mΩ
Contacts	Gold plated
Current capacity	max. 1 A
Fire retardant version	acc. IEC60332-1
Halogen free	acc. IEC60754-2
Harmonised Standard	EN 50575

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Impedance	100 ±15 Ω
Insulation Resistance	10 MΩ
Length imprint	True
Locking lever	True
Material outer sheath	LSZH
Mating cycles	≥750
Model	shielded
Oil resistant	no
Operating Temperature	-20 – 60 °C
Operating-/ tempering voltage	max. 50 V DC
Outer diameter of the cable	8 mm
Ozone resistance	No
Pin assignment	1:1
Printing	CAT8 S/FTP 4x2x24AWG/7 LSZH 2000MHz ISO11801
Resistant to chemicals	False
Suitable for degree of protection (IP)	IP20
Test voltage	1000 (V DC, 1min) core/core und core/screen
Transmission	40Gbit
Type of connector connection 1	RJ45 8(8)
Type of connector connection 2	RJ45 8(8)
UL approbated	False
UV resistant	no

Available variants

ArtNr.	Bezeichnung	Length	POE class	Length tolerance
K5528SW.1	RJ45 Patch Cord Cat.8.1 S/FTP LSZH BC black 1m	1.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5528SW.10	RJ45 Patch Cord Cat.8.1 S/FTP LSZH BC black 10m	10.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5528SW.2	RJ45 Patch Cord Cat.8.1 S/FTP LSZH BC black 2m	2.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5528SW.3	RJ45 Patch Cord Cat.8.1 S/FTP LSZH BC black 3m	3.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5528SW.5	RJ45 Patch Cord Cat.8.1 S/FTP LSZH BC black 5m	5.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5528SW.7,5	RJ45 Patch Cord Cat.8.1 S/FTP LSZH BC black 7,5m	7.5 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %

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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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