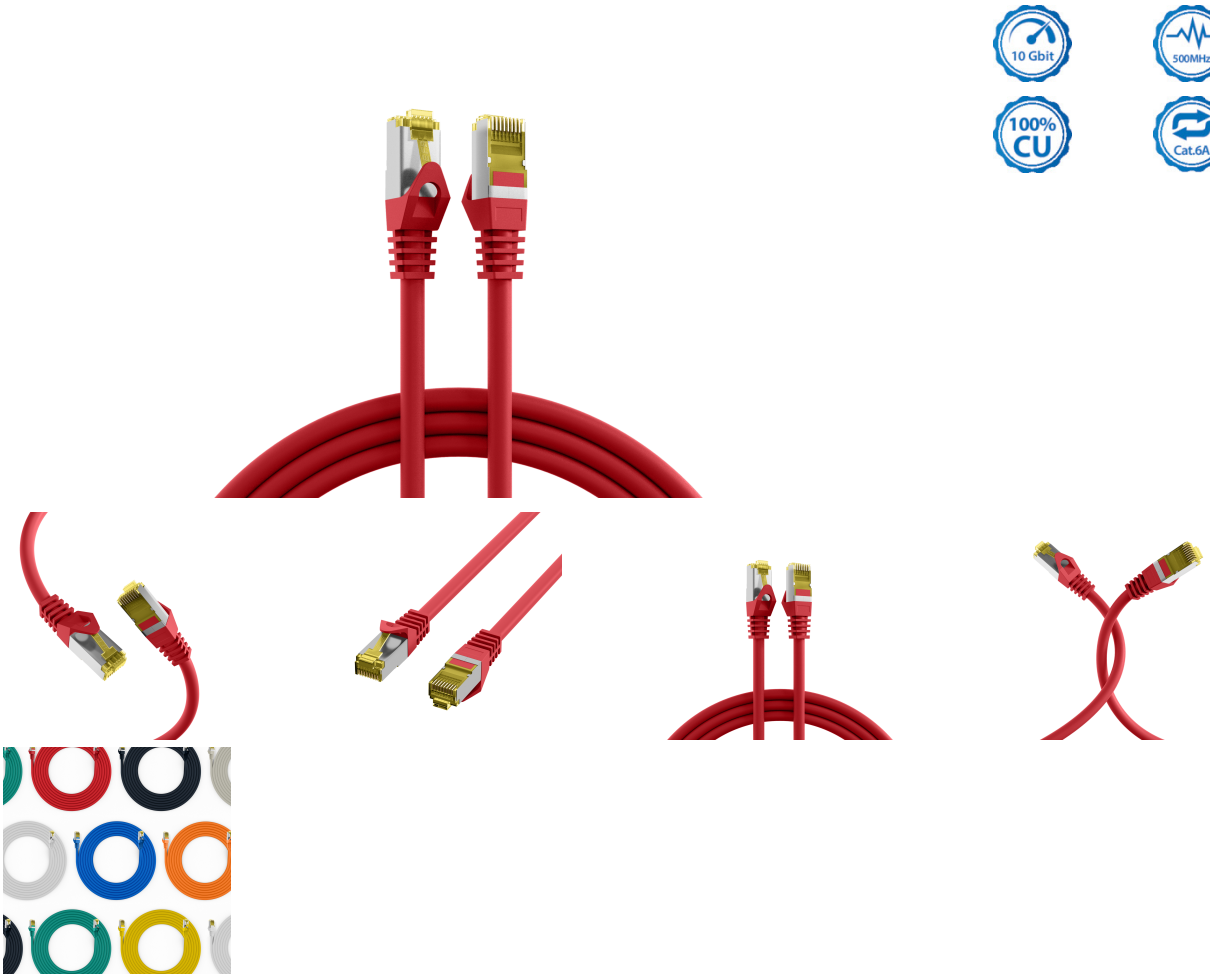
DATASHEET

RJ45 Patch Cord Cat.6A S/FTP LSZH Cat.7 raw cable red 20m



General data

The Cat.6A (TIA) network cable from EFB-Elektronik supports data transmissions up to 10Gbit. The S/FTP shielding reliably protects against interference and ensures good signal quality. Since it is a Cat.6A (TIA) network cable, it supports 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 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.

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Product Description
The S/FTP data cable has double shielding, which effectively reduces electromagnetic interference. It can be used in a temperature range of -20 – 60 °C. The wide range of possible applications is supported by the bending radius of >32.5 mm. The network 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.6A (TIA)
• Connector: RJ45 8(8) to RJ45 8(8) with yellow 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
• Gold-plated contacts
• Sheath: LSZH sheath material
• Outer diameter: 6.5 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	26/7
Allocation	acc. TIA/EIA 568B
Anti-kink sleeve	moulded-on
Area of Application	Industrial Ethernet
Bandwidth	500MHz
Bending radius	>32,5 mm
Cable construction	4x2
Cable shape	rund
Cable type	S/FTP
Cabling standard	EN50173
Category	6A (TIA)
Colour anti-kink sleeve	red
Colour outer sheath	red
Conductive shield	Selected shield contact

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Conductor Material	Copper
Conductor resistance DC	146 Ω/km
Connector	IEC 60603-7-51
Connector type	RJ45 standard yellow
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 ±5 Ω
Insulation Resistance	10 MΩ
Length imprint	True
Locking lever	True
Loop resistance	292 Ω/km
Low smoke	acc. IEC61034
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	6.5 mm
Ozone resistance	No
Pin assignment	1:1
Printing	Cat.7 raw cable S/FTP 4x2xAWG26/7 PIMF 600MHz ISO/IEC 11801 & EN50173-1 TIA/EIA 568B-2.1 Halogen Free ***10GIGABIT*** www.efb-elektronik.de
Raw cable	Cat.7
Resistance unbalance	5 %
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
Transmission	10Gbit
Type of connector connection 1	RJ45 8(8)

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Type of connector connection 2	RJ45 8(8)
UL approbated	False
UV resistant	no

Available variants

ArtNr.	Bezeichnung	Length	POE class	Length tolerance
MK7001.0,15R	RJ45 Patch Cord Cat.6A S/FTP LSZH Cat.7 raw cable red 0,15m	0.15 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK7001.0,25R	RJ45 Patch Cord Cat.6A S/FTP LSZH Cat.7 raw cable red 0,25m	0.25 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK7001.0,5R	RJ45 Patch Cord Cat.6A S/FTP LSZH Cat.7 raw cable red 0,5m	0.5 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK7001.1,5R	RJ45 Patch Cord Cat.6A S/FTP LSZH Cat.7 raw cable red 1,5m	1.5 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK7001.10R	RJ45 Patch Cord Cat.6A S/FTP LSZH Cat.7 raw cable red 10m	10.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK7001.15R	RJ45 Patch Cord Cat.6A S/FTP LSZH Cat.7 raw cable red 15m	15.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK7001.1R	RJ45 Patch Cord Cat.6A S/FTP LSZH Cat.7 raw cable red 1m	1.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK7001.20R	RJ45 Patch Cord Cat.6A S/FTP LSZH Cat.7 raw cable red 20m	20.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK7001.25R	RJ45 Patch Cord Cat.6A S/FTP LSZH Cat.7 raw cable red 25m	25.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at	±5 %
MK7001.2R	RJ45 Patch Cord Cat.6A S/FTP LSZH Cat.7 raw cable red 2m	2.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK7001.30R	RJ45 Patch Cord Cat.6A S/FTP LSZH Cat.7 raw cable red 30m	30.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at	±5 %
MK7001.3R	RJ45 Patch Cord Cat.6A S/FTP LSZH Cat.7 raw cable red 3m	3.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK7001.5R	RJ45 Patch Cord Cat.6A S/FTP LSZH Cat.7 raw cable red 5m	5.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
MK7001.7,5R	RJ45 Patch Cord Cat.6A S/FTP LSZH Cat.7 raw cable red 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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