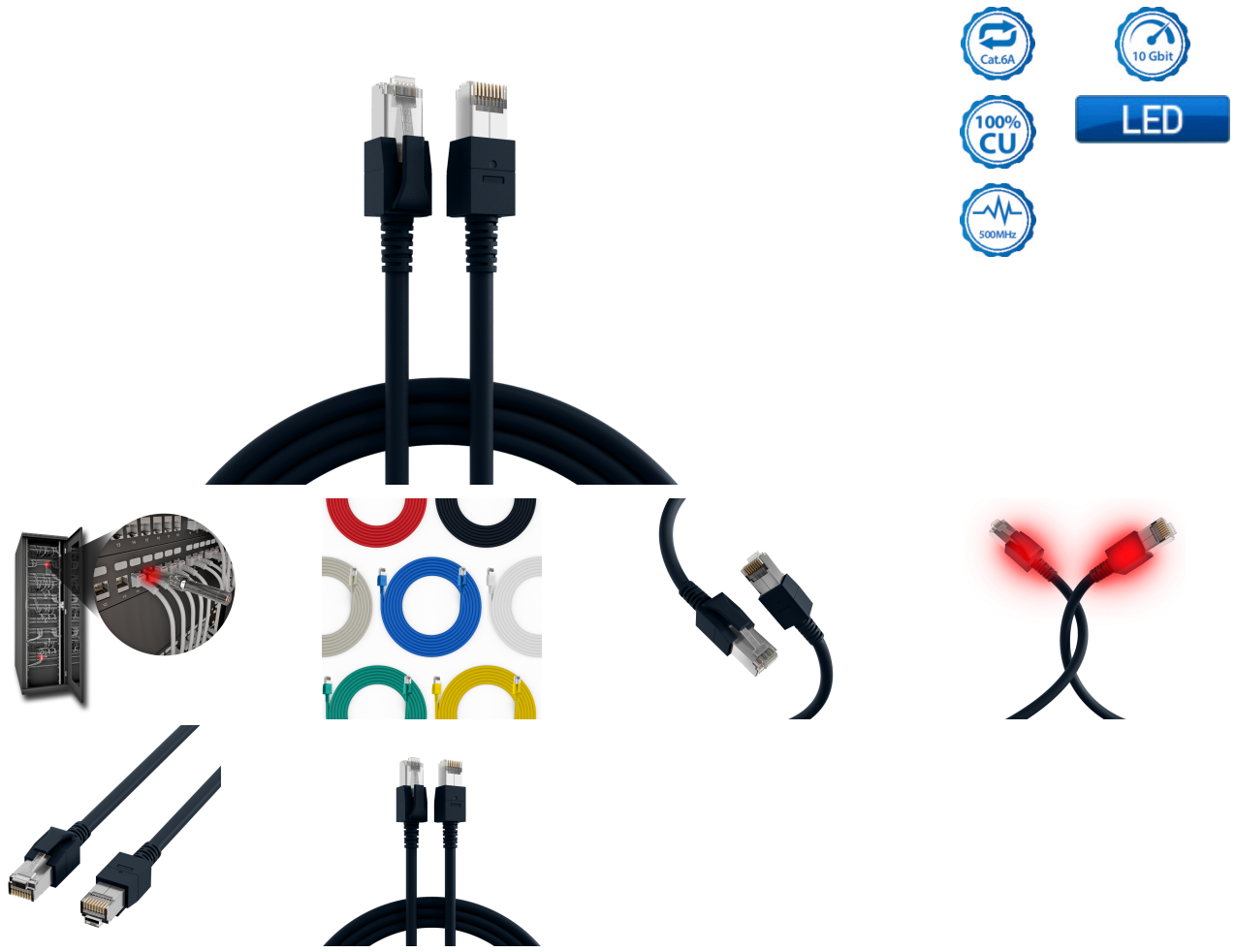
DATASHEET

RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED black 0.5m



General data

This Cat.6A (TIA) data cable from EFB-Elektronik supports 10Gbit. The S/FTP shielding reliably protects against interference and ensures good signal quality. Since it is a Cat.6A (TIA) Ethernet 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 accordance with standards – flame-retardant cable behaviour according to IEC60332-3 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 – low smoke generation after IEC61034 helps to keep escape routes as low-smoke as possible in the event of a fire, and the halogen-free materials according to IEC60754-2 reduce the development of corrosive fire gases.

This datasheet was created automatically on 01-11-2026 . Technical changes reserved.

EFB-Elektronik GmbH
Striegauer Straße 1
33719 Bielefeld

fon: +49 521 40 41 8-0
fax: +49 521 40 41 8-50

info@efb-elektronik.de
www.efb-elektronik.de

WIR SORGEN FÜR VERBINDUNG
WE CARE FOR CONNECTION

DATASHEET

RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED black 0.5m

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 >20 mm. The network cable 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 RJ45 LED 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: 6.2 mm
• With an attached anti-kink grommet
• Fire protection: flame-retardant according to IEC60332-3, low-smoke according to IEC61034, halogen-free according to IEC60754-2
• Degree of protection: IP20
• With a 360° umbrella attachment
• 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	put-on
Area of Application	Industrial Ethernet
Bandwidth	500MHz
Bending radius	>20 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	360° shield contact
Conductor Material	Copper

EFB-Elektronik GmbH
Striegauer Straße 1
33719 Bielefeld

fon: +49 521 40 41 8-0
fax: +49 521 40 41 8-50

info@efb-elektronik.de
www.efb-elektronik.de

WIR SORGEN FÜR VERBINDUNG
WE CARE FOR CONNECTION

DATASHEET

RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED black 0.5m

Conductor resistance DC	165 Ω/km
Connector	IEC 60603-7-51
Connector type	RJ45 LED
Contacts	Gold plated
Current capacity	max. 1 A
Fire retardant version	acc. IEC60332-3
Halogen free	acc. IEC60754-2
Harmonised Standard	EN 50575
Impedance	100 ±15 Ω
Insulation Resistance	> 5000 MΩ
Length imprint	True
Locking lever	True
Loop resistance	330 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	6.2 mm
Ozone resistance	No
Pin assignment	1:1
Printing	LED VC45 Patchkabel Cat.6A ISO S/FTP 4x2xAWG27
Resistant to chemicals	False
Suitable for degree of protection (IP)	IP20
Test voltage	1000 (V DC, 1min) core/core und core/screen
Total screening	65 %
Transmission	10Gbit
Type of connector connection 1	RJ45 8(8)
Type of connector connection 2	RJ45 8(8)
UL approbated	False
UV resistant	Nein

Available variants

This datasheet was created automatically on 01-11-2026 . Technical changes reserved.

EFB-Elektronik GmbH
Striegauer Straße 1
33719 Bielefeld

fon: +49 521 40 41 8-0
fax: +49 521 40 41 8-50

info@efb-elektronik.de
www.efb-elektronik.de

WIR SORGEN FÜR VERBINDUNG
WE CARE FOR CONNECTION

DATASHEET

RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED black 0.5m

ArtNr.	Bezeichnung	Length	POE class	Length tolerance
DCK1001SW.0,5	RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED black 0.5m	0.5 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
DCK1001SW.1	RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED black 1m	1.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
DCK1001SW.1,5	RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED black 1.5m	1.5 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
DCK1001SW.10	RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED black 10m	10.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
DCK1001SW.15	RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED black 15m	15.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
DCK1001SW.2	RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED black 2m	2.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
DCK1001SW.20	RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED black 20m	20.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
DCK1001SW.3	RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED black 3m	3.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
DCK1001SW.5	RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED black 5m	5.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
DCK1001SW.7,5	RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED 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.

This datasheet was created automatically on 01-11-2026 . Technical changes reserved.

EFB-Elektronik GmbH
Striegauer Straße 1
33719 Bielefeld

fon: +49 521 40 41 8-0
fax: +49 521 40 41 8-50

info@efb-elektronik.de
www.efb-elektronik.de

WIR SORGEN FÜR VERBINDUNG
WE CARE FOR CONNECTION