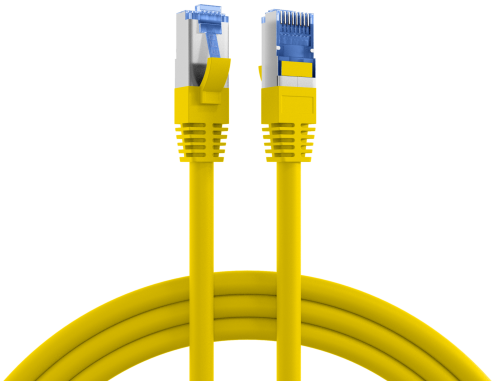
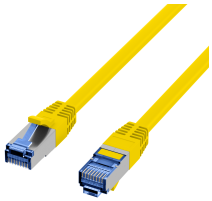
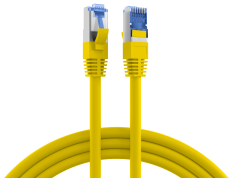
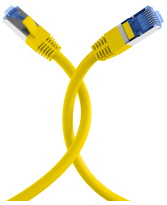
DATASHEET

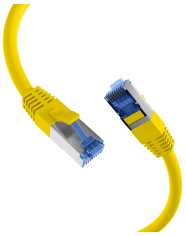
RJ45 Patch Cord Cat.6A S/FTP TPE Cat.7 raw cable superflex yellow 1,5m











General data

The Cat.6A (IEC) LAN cable from EFB-Elektronik supports 10Gbit. The S/FTP shielding reliably protects against interference and ensures high-quality signal. Since it is a Cat.6A (IEC) network 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 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.

This datasheet was created automatically on 24-10-2026 . 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 TPE Cat.7 raw cable superflex yellow 1,5m

Product Description
The S/FTP LAN cable has a double shield that 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 patch cable has an IP20 rating. The TPE/LSZH jacket is flexible, halogen-free and low-smoke, making it ideal for safe and professional patch and server cabinet installations.

Technical details
• Cat.6A (IEC)
• 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
• Gold-plated contacts
• Sheath: TPE/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 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	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 (IEC)
Colour anti-kink sleeve	yellow
Colour outer sheath	yellow
Conductive shield	360° shield contact

This datasheet was created automatically on 24-10-2026 . 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 TPE Cat.7 raw cable superflex yellow 1,5m

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 A
Fire retardant version	acc. IEC60332-1
Halogen free	acc. IEC60754-2
Harmonised Standard	EN 50575
Impedance	100 ±25 Ω
Insulation Resistance	100 MΩ
Length imprint	True
Locking lever	True
Loop resistance	284 Ω/km
Low smoke	acc. IEC61034
Material outer sheath	TPE/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	SFTP 300 CAT.5E 26AWGX4P PATCH ISO/IEC 11801 & EN 50173 VERIFIED www.efb-elektronik.de
Raw cable	Cat.7
Resistance unbalance	2 %
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)
Type of connector connection 2	RJ45 8(8)

This datasheet was created automatically on 24-10-2026 . 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 TPE Cat.7 raw cable superflex yellow 1,5m

UL approbated	False
UV resistant	no

Available variants

ArtNr.	Bezeichnung	Length	POE class	Length tolerance
K5525FGE.0,15	RJ45 Patch Cord Cat.6A S/FTP TPE Cat.7 raw cable superflex yellow 0,15m	0.15 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5525FGE.0,25	RJ45 Patch Cord Cat.6A S/FTP TPE Cat.7 raw cable superflex yellow 0,25m	0.25 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5525FGE.0,5	RJ45 Patch Cord Cat.6A S/FTP TPE Cat.7 raw cable superflex yellow 0,5m	0.5 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5525FGE.1	RJ45 Patch Cord Cat.6A S/FTP TPE Cat.7 raw cable superflex yellow 1m	1.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5525FGE.1,5	RJ45 Patch Cord Cat.6A S/FTP TPE Cat.7 raw cable superflex yellow 1,5m	1.5 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5525FGE.10	RJ45 Patch Cord Cat.6A S/FTP TPE Cat.7 raw cable superflex yellow 10m	10.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5525FGE.15	RJ45 Patch Cord Cat.6A S/FTP TPE Cat.7 raw cable superflex yellow 15m	15.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5525FGE.2	RJ45 Patch Cord Cat.6A S/FTP TPE Cat.7 raw cable superflex yellow 2m	2.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5525FGE.20	RJ45 Patch Cord Cat.6A S/FTP TPE Cat.7 raw cable superflex yellow 20m	20.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5525FGE.25	RJ45 Patch Cord Cat.6A S/FTP TPE Cat.7 raw cable superflex yellow 25m	25.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at	±5 %
K5525FGE.3	RJ45 Patch Cord Cat.6A S/FTP TPE Cat.7 raw cable superflex yellow 3m	3.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5525FGE.30	RJ45 Patch Cord Cat.6A S/FTP TPE Cat.7 raw cable superflex yellow 30m	30.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at	±5 %
K5525FGE.5	RJ45 Patch Cord Cat.6A S/FTP TPE Cat.7 raw cable superflex yellow 5m	5.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5525FGE.7,5	RJ45 Patch Cord Cat.6A S/FTP TPE Cat.7 raw cable superflex yellow 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

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

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.

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