DATASHEET

RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 25m



General data

This Cat.6A (TIA) data cable from EFB-Elektronik transmits data up to 10Gbit. The S/FTP shielding reliably protects against interference and ensures good signal quality. Since it is a Cat.6A (TIA) Ethernet cable, it offers a frequency range of up to 500MHz, which provides high data transmission performance.

• Designed for sun-exposed installations – UV-resistant jacket materials reduce material ageing caused by sun exposure and increase service life when used in bright/sunny areas (e.g. near windows or in sheltered outdoor areas).
• 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.
• Power and connect end devices via one cable – reduces cabling effort because data and power are transmitted via 4PPoE according to IEEE802.3bt on one line (fewer power supplies/sockets, faster installation).

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 >25 mm. The data cable is IP20 rated. The polyurethane (PUR) jacket is particularly robust, making it suitable for demanding industrial applications.

Technical details

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WIR SORGEN FÜR VERBINDUNG
WE CARE FOR CONNECTION

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- Cat.6A (TIA)
- Connector: RJ45 8(8) to RJ45 8(8) with yellow TM31 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: Polyurethane (PUR) sheath material
- Outer diameter: 6.4 mm
- With an attached anti-kink grommet
- Degree of protection: IP20
- With a 360° umbrella attachment
- With locking lever protection
- Mating cycles: ≥750
- 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	>25 mm
Cable construction	4x2
Cable shape	rund
Cable type	S/FTP
Cable type acc. to Manufacturer	Draka Patch Pro flex Cat 7
Cabling standard	EN50173
Category	6A (TIA)
Colour anti-kink sleeve	black
Colour outer sheath	black
Conductive shield	360° shield contact
Conductor Material	Copper
Conductor resistance DC	125 Ω/km
Connector	IEC 60603-7-51
Connector type	TM31 yellow
Contact Resistance	< 20 mΩ
Contacts	Gold plated
Current capacity	max. 1 A

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Fire retardant version	no
Halogen free	False
Harmonised Standard	EN 50575
Impedance	100 ±5 Ω
Insulation Resistance	500 MΩ
Length imprint	False
Locking lever	True
Loop resistance	250 Ω/km
Material outer sheath	Polyurethan (PUR)
Mating cycles	≥750
Model	shielded
NVP value	75 %
Oil resistant	no
Operating Temperature	-20 – 60 °C
Operating-/ tempering voltage	max. 50 V DC
Outer diameter of the cable	6.4 mm
Ozone resistance	No
Pin assignment	1:1
Printing	Cat.6A PREMIUM Patchcord U/UTP 4x2xAWG24/7 ISO/IEC11801 TIA/EIA-568-C.2 ***10Gigabit Ethernet***
Raw cable	Cat.7
Resistance unbalance	2 %
Resistant to chemicals	False
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)
UL approbated	False
UV resistant	True

Available variants

ArtNr.	Bezeichnung	Length	POE class	Length tolerance
K3130.0,5	RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 0,5m	0.5 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %

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K3130.1	RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 1m	1.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K3130.1,5	RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 1,5m	1.5 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K3130.10	RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 10m	10.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K3130.15	RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 15m	15.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K3130.2	RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 2m	2.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K3130.20	RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 20m	20.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K3130.25	RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 25m	25.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K3130.3	RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 3m	3.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K3130.30	RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 30m	30.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at	±5 %
K3130.5	RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 5m	5.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K3130.50	RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 50m	50.0 m	No	±5 %
K3130.7,5	RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 7,5m	7.5 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at	±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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