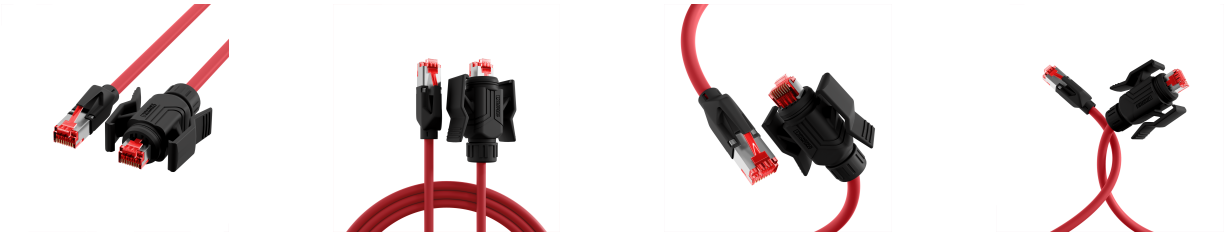
DATASHEET

RJ45 Patch Cord Cat. 6A S/FTP PUR TM21 1xIP67 PUR for 53730.1V2 1m



General data

The Cat.6A (IEC) data cable of the EFB-Elektronik brand 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 (IEC) data cable, it supports a frequency range of up to 500MHz, which provides high data transmission performance.

• Suitable for outdoor use – the cable has an IP67 rating, preventing splashes, dust and sand from entering.
• 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.

Product Description
The S/FTP Ethernet cable has double shielding, which effectively minimizes electromagnetic interference. The temperature range of the cable is -30 – 75 °C. The wide range of possible applications is supported by the bending radius of >25 mm. The patch cord has an IP67 rating. The polyurethane (PUR) jacket is particularly robust, making it suitable for demanding industrial applications. It is also oil-resistant.

Technical details
• Cat.6A (IEC)

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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 red TM21 connectors
- Shielding: S/FTP cable with 4x2 x AWG27/7
- 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
- Oil-resistant according to EN 60811-2-1
- Ozone resistant according to EN60811-2-1
- Outer diameter: 5.9 mm
- With an attached anti-kink grommet
- Fire protection: flame-retardant according to IEC60332-1, low-smoke according to IEC61034, halogen-free according to IEC60754-2
- With a 360° umbrella attachment
- With locking lever protection
- Mating cycles: ≥750
- Brand: EFB-Elektronik

Technical properties	
AWG-size	27/7
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 UC900 SS27 Cat.7 PUR
Cabling standard	EN50173
Category	6A (IEC)
Colour anti-kink sleeve	black
Colour outer sheath	red
Conductive shield	360° shield contact
Conductor Material	Copper
Conductor resistance DC	170 Ω/km
Connector	IEC 60603-7-51
Connector type	TM21 red
Contact Resistance	< 20 mΩ
Contacts	Gold plated

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Current capacity	max. 1 A
Euro class	Eca
Fire retardant version	acc. IEC60332-1
Halogen free	acc. IEC60754-2
Harmonised Standard	EN 50575
Impedance	100 ±5 Ω
Insulation Resistance	> 2000 MΩ
Length imprint	False
Locking lever	True
Loop resistance	< 340 Ω/km
Low smoke	acc. IEC61034
Material outer sheath	Polyurethan (PUR)
Mating cycles	≥750
Model	shielded
NVP value	79 %
Oil resistant	acc. EN 60811-2-1
Operating Temperature	-30 – 75 °C
Operating-/ tempering voltage	max. 50 V DC
Outer diameter of the cable	5.9 mm
Ozone resistance	acc. EN60811-2-1
Pin assignment	1:1
Raw cable	Cat.7
Resistance unbalance	3 %
Resistant to chemicals	False
Suitable for degree of protection (IP)	IP67
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

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K8670.1	RJ45 Patch Cord Cat. 6A S/FTP PUR TM21 1xIP67 PUR for 53730.1V2 1m	1.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8670.10	RJ45 Patch Cord Cat. 6A S/FTP PUR TM21 1xIP67 PUR for 53730.1V2 10m	10.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8670.2	RJ45 Patch Cord Cat. 6A S/FTP PUR TM21 1xIP67 PUR for 53730.1V2 2m	2.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8670.3	RJ45 Patch Cord Cat. 6A S/FTP PUR TM21 1xIP67 PUR for 53730.1V2 3m	3.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8670.5	RJ45 Patch Cord Cat. 6A S/FTP PUR TM21 1xIP67 PUR for 53730.1V2 5m	5.0 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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