DATASHEET

RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 2x90° grey 10m



General data

This Cat.6A (TIA) network cable from the EFB-Elektronik brand transmits data up to 10Gbit. The S/FTP shielding reliably protects against interference and ensures good signal quality. Because it is a Cat.6A (TIA) Ethernet 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 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 network cable has double shielding, which effectively minimizes electromagnetic interference. The temperature range of the cable is -20 – 60 °C. The wide range of possible applications is supported by the bending radius of >25 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.

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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

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Technical details
• Cat.6A (TIA)
• 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: LSZH sheath material
• 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
• Degree of protection: IP20
• 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 (TIA)
Colour anti-kink sleeve	black
Colour outer sheath	grey
Conductive shield	360° shield contact
Conductor Material	Copper
Conductor resistance DC	170 Ω/km
Connector	IEC 60603-7-51
Connector type	TM21 red
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 ±25 Ω
Insulation Resistance	> 2000 MΩ
Length imprint	False
Locking lever	True
Loop resistance	< 340 Ω/km
Low smoke	acc. IEC61034
Material outer sheath	LSZH
Mating cycles	≥750
Model	shielded
NVP value	79 %
Oil resistant	no
Operating Temperature	-20 – 60 °C
Operating-/ tempering voltage	max. 50 V DC
Outer diameter of the cable	5.9 mm
Ozone resistance	No
Pin assignment	1:1
Raw cable	Cat.7
Resistance unbalance	3 %
Resistant to chemicals	False
Suitable for degree of protection (IP)	IP20
Temperature Range (Installation)	0 – 50 °C
Temperature Range (Operation)	-20 – 60 °C
Test voltage	1000 (V DC, 1min) core/core und core/screen
Total screening	ca. 45 %
Transmission	10Gbit
Type of connector connection 1	RJ45 8(8)
Type of connector connection 2	RJ45 8(8)
UL approbated	False
UV resistant	Nein

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Available variants

ArtNr.	Bezeichnung	Length	POE class	Length tolerance
K4137GR.0,50	RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 2x90° grey 0,5m	0.5 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K4137GR.10	RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 2x90° grey 10m	10.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K4137GR.15	RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 2x90° grey 15m	15.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at	±5 %
K4137GR.2	RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 2x90° grey 2m	2.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K4137GR.25	RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 2x90° grey 25m	25.0 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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