DATASHEET

RJ45 Patch Cord Cat.5e SF/UTP LSZHDraka UC300 TM11 crossed red 2m



General data

This Cat.5e crossover cable from EFB-Elektronik supports data transfers up to 2.5Gbit. SF/UTP shielding reliably protects against interference and ensures high-quality signal. Because it is a Cat.5e LAN cable, it supports a frequency range of up to 100MHz.

• Connect network devices directly without additional components – enables point-to-point connection of compatible devices (crossover), e.g. for quick commissioning, service cases or temporary routes without a switch.
• Increase interference immunity in electromagnetically charged environments – double shielding (SF/UTP) improves the 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.

Product Description
The SF/UTP data cable combines foil and braid shielding. It thus effectively protects against internal and external interference and ensures the highest signal quality even with dense cable routing. 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 Ethernet cable has an IP20 rating. 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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Technical details
• Cat.5e
• Connector: RJ45 8(8) to RJ45 8(8) with TM11 connectors
• Shielding: SF/UTP cable with 4x2 x AWG26/7
• Cable shape: round
• Pinout: crossed according to typical crossover assignment (1-3, 2-6, 3-1, 4-7, 5-8, 6-2, 7-4, 8-5)
• 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: 5.7 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
• Mating cycles: ≥750
• Brand: EFB-Elektronik

Technical properties	
AWG-size	26/7
Allocation	1-3, 2-6, 3-1, 4-7, 5-8, 6-2, 7-4, 8-5
Anti-kink sleeve	put-on
Area of Application	Industrial Ethernet
Bandwidth	100MHz
Bending radius	>25 mm
Cable construction	4x2
Cable shape	rund
Cable type	SF/UTP
Cable type acc. to Manufacturer	Draka UC300 HS26
Cabling standard	EN50173
Category	5e
Colour anti-kink sleeve	red
Colour outer sheath	red
Conductive shield	360° shield contact
Conductor Material	Copper
Conductor resistance DC	130 Ω/km
Connector	IEC 60603-7-3
Connector type	TM11
Contacts	Gold plated
Current capacity	max. 1 A

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Fire retardant version	acc. IEC60332-1
Halogen free	acc. IEC60754-2
Harmonised Standard	EN 50575
Impedance	100 ±15 Ω
Insulation Resistance	> 2000 MΩ
Length imprint	False
Locking lever	False
Loop resistance	< 260 Ω/km
Low smoke	acc. IEC61034
Material outer sheath	LSZH
Mating cycles	≥750
Model	shielded
NVP value	67 %
Oil resistant	no
Operating Temperature	-20 – 60 °C
Operating-/ tempering voltage	max. 50 V DC
Outer diameter of the cable	5.7 mm
Ozone resistance	No
Pin assignment	crossed
Resistance unbalance	3 %
Resistant to chemicals	False
Suitable for degree of protection (IP)	IP20
Test voltage	1000 (V DC, 1min) core/core und core/screen
Transmission	2.5Gbit
Type of connector connection 1	RJ45 8(8)
Type of connector connection 2	RJ45 8(8)
UL approbated	False
UV resistant	Nein

Available variants

ArtNr.	Bezeichnung	Length	POE class	Length tolerance
K2793.0,50	RJ45 Patch Cord Cat.5e SF/UTP LSZHDraka UC300 TM11 crossed red 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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K2793.1	RJ45 Patch Cord Cat.5e SF/UTP LSZHDraka UC300 TM11 crossed red 1m	1.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K2793.1,5	RJ45 Patch Cord Cat.5e SF/UTP LSZHDraka UC300 TM11 crossed red 1,5m	1.5 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K2793.10	RJ45 Patch Cord Cat.5e SF/UTP LSZHDraka UC300 TM11 crossed red 10m	10.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K2793.2	RJ45 Patch Cord Cat.5e SF/UTP LSZHDraka UC300 TM11 crossed red 2m	2.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K2793.3	RJ45 Patch Cord Cat.5e SF/UTP LSZHDraka UC300 TM11 crossed red 3m	3.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K2793.5	RJ45 Patch Cord Cat.5e SF/UTP LSZHDraka UC300 TM11 crossed red 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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