DATASHEET

RJ45 Patch Cord Cat.5e SF/UTP PURRAL6018 green 15m



General data

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

• 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.
• 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.

Product Description
The SF/UTP Ethernet 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. It can be used in an extended temperature range of -40 – 80 °C. The wide range of possible applications is supported by the bending radius of >31 mm. The LAN cable has an IP20 rating. The polyurethane (PUR) jacket is particularly robust, making it suitable for demanding industrial applications. It is also oil-resistant.

Technical details

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WIR SORGEN FÜR VERBINDUNG
WE CARE FOR CONNECTION

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- Cat.5e
- Connector: RJ45 8(8) to RJ45 8(8) with RJ45 connectors
- Shielding: SF/UTP 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
- Is oil-resistant
- Outer diameter: 6.2 mm
- With an injected anti-kink grommet
- Fire protection: flame-retardant according to IEC60332-1, 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	26/7
Allocation	acc. TIA/EIA 568B
Anti-kink sleeve	moulded-on
Area of Application	Industrial Ethernet
Bandwidth	100MHz
Bending radius	>31 mm
Cable construction	4x2
Cable shape	rund
Cable type	SF/UTP
Cabling standard	EN50173
Category	5e
Colour anti-kink sleeve	green
Colour outer sheath	green
Conductive shield	360° shield contact
Conductor Material	Copper
Connector	IEC 60603-7-3
Connector type	RJ45 standard
Contact Resistance	< 20 mΩ
Contacts	Gold plated
Current capacity	max. 1 A
Fire retardant version	acc. IEC60332-1
Halogen free	acc. IEC60754-2

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Harmonised Standard	EN 50575
Impedance	100
Length imprint	False
Locking lever	True
Material outer sheath	Polyurethan (PUR)
Mating cycles	≥750
Model	shielded
Oil resistant	yes
Operating Temperature	-40 – 80 °C
Operating-/ tempering voltage	max. 50 V DC
Outer diameter of the cable	6.2 mm
Ozone resistance	No
Pin assignment	1:1
Printing	SF/UTP 4x2xAWG26/7 PUR Cat.5e 94V-2 LI2Y (ST)C11Y
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
K5530.0,5	RJ45 Patch Cord Cat.5e SF/UTP PURRAL6018 green 0,5m	0.5 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5530.10	RJ45 Patch Cord Cat.5e SF/UTP PURRAL6018 green 10m	10.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5530.15	RJ45 Patch Cord Cat.5e SF/UTP PURRAL6018 green 15m	15.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5530.2	RJ45 Patch Cord Cat.5e SF/UTP PURRAL6018 green 2m	2.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5530.25	RJ45 Patch Cord Cat.5e SF/UTP PURRAL6018 green 25m	25.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at	±5 %
K5530.3	RJ45 Patch Cord Cat.5e SF/UTP PURRAL6018 green 3m	3.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %

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K5530.30	RJ45 Patch Cord Cat.5e SF/UTP PURRAL6018 green 30m	30.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at	±5 %
K5530.5	RJ45 Patch Cord Cat.5e SF/UTP PURRAL6018 green 5m	5.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K5530.7,5	RJ45 Patch Cord Cat.5e SF/UTP PURRAL6018 green 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 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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