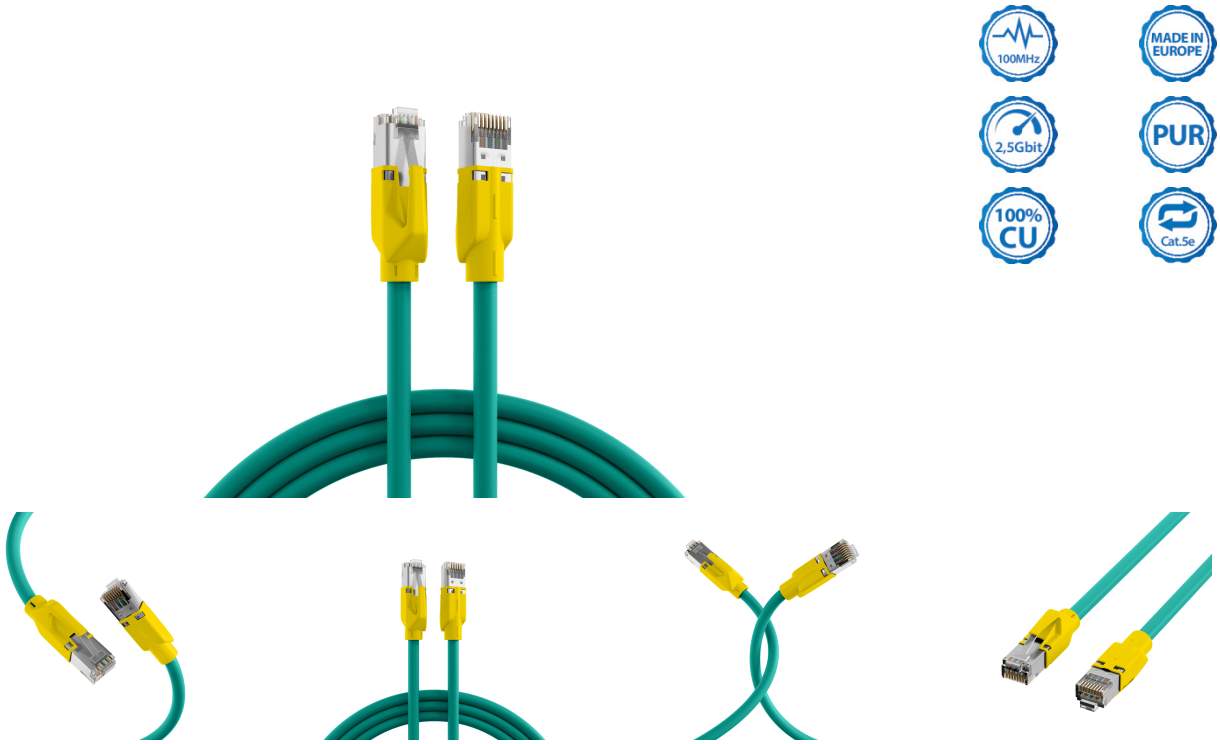
DATASHEET

RJ45 Patch Cord Cat.5e SF/UTP PUR TM21 yellow boot drag chain suitable green 2m



General data

This Cat.5e Ethernet cable from EFB-Elektronik supports data transfers up to 2.5Gbit. SF/UTP shielding reliably protects against interference and ensures good signal quality. Since it is a Cat.5e LAN cable, it offers 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 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 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. It can be used in an extended temperature range of -40 – 85 °C. The wide range of possible applications is supported by the bending radius of >34 mm. The Ethernet cable is IP20 rated. The polyurethane (PUR) jacket is particularly robust, making it suitable for demanding industrial applications. It is also oil-resistant.

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WIR SORGEN FÜR VERBINDUNG
WE CARE FOR CONNECTION

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Technical details
• Cat.5e
• Connector: RJ45 8(8) to RJ45 8(8) with red TM21 connectors
• Shielding: SF/UTP cable with 4x2 x AWG26/19
• 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
• UL approved
• Gold-plated contacts
• Sheath: Polyurethane (PUR) sheath material
• Oil-resistant according to EN 60811-2-1
• Outer diameter: 6.9 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	26/19
Allocation	acc. TIA/EIA 568B
Anti-kink sleeve	put-on
Area of Application	Industrial Ethernet
Bandwidth	100MHz
Bending radius	>34 mm
Cable construction	4x2
Cable shape	rund
Cable type	SF/UTP
Cable type acc. to Manufacturer	Helu
Cabling standard	EN50173
Category	5e
Colour anti-kink sleeve	yellow
Colour outer sheath	green
Conductive shield	360° shield contact
Conductor Material	Copper
Conductor resistance DC	125 Ω/km
Connector	IEC 60603-7-3

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Connector type	TM21 red
Contact Resistance	< 20 mΩ
Contacts	Gold plated
Current capacity	max. 1 A
Fire retardant version	acc. IEC60332-1
Halogen free	acc. IEC60754-2
Harmonised Standard	EN 50575
Impedance	100 ±5 Ω
Insulation Resistance	500 MΩ
Length imprint	False
Locking lever	True
Loop resistance	250 Ω/km
Low smoke	acc. IEC61034
Material outer sheath	Polyurethan (PUR)
Mating cycles	≥750
Model	shielded
NVP value	68 %
Oil resistant	acc. EN 60811-2-1
Operating Temperature	-40 – 85 °C
Operating-/ tempering voltage	max. 50 V DC
Outer diameter of the cable	6.9 mm
Ozone resistance	No
Pin assignment	1:1
Resistant to chemicals	False
Suitable for degree of protection (IP)	IP20
Test voltage	1000 (V DC, 1min) core/core und core/screen
Total screening	90 %
Transmission	2.5Gbit
Type of connector connection 1	RJ45 8(8)
Type of connector connection 2	RJ45 8(8)
UL approbated	True
UV resistant	Nein

Available variants

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ArtNr.	Bezeichnung	Length	POE class	Length tolerance
K8030.1	RJ45 Patch Cord Cat.5e SF/UTP PUR TM21 yellow boot drag chain suitable green 1m	1.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8030.10	RJ45 Patch Cord Cat.5e SF/UTP PUR TM21 yellow boot drag chain suitable 10m	10.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8030.15	RJ45 Patch Cord Cat.5e SF/UTP PUR TM21 yellow boot drag chain suitable 15m	15.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8030.2	RJ45 Patch Cord Cat.5e SF/UTP PUR TM21 yellow boot drag chain suitable green 2m	2.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8030.20	RJ45 Patch Cord Cat.5e SF/UTP PUR TM21 yellow boot drag chain suitable 20m	20.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8030.25	RJ45 Patch Cord Cat.5e SF/UTP PUR TM21 yellow boot drag chain suitable 25m	25.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at	±5 %
K8030.3	RJ45 Patch Cord Cat.5e SF/UTP PUR TM21 yellow boot drag chain suitable green 3m	3.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8030.30	RJ45 Patch Cord Cat.5e SF/UTP PUR TM21 yellow boot drag chain suitable 30m	30.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at	±5 %
K8030.40	RJ45 Patch Cord Cat.5e SF/UTP PUR TM21 yellow boot drag chain suitable 40m	40.0 m	PoE acc. to IEEE802.3af	±5 %
K8030.5	RJ45 Patch Cord Cat.5e SF/UTP PUR TM21 yellow boot drag chain suitable green 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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