DATASHEET

RJ45 Patch Cord Cat.5e SF/UTP PVC CCA black 1m

General data

The Cat.5e patch cable from EFB-Elektronik transmits data up to 2.5Gbit. The SF/UTP shielding reliably protects against interference and ensures high-quality signals. Since it is a Cat.5e Ethernet 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.
• Ensure reliable 2.5 Gigabit connections – gold-plated contact surfaces reduce contact resistances and contact corrosion, which supports signal quality and thus stable 2.5 Gbps transmission.

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. 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 has an IP20 rating. The polyvinyl chloride (PVC) jacket is a flexible standard jacket for network applications, without special fire protection properties.

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
- Gold-plated contacts
- Sheath: Polyvinyl chloride (PVC) sheath material
- Outer diameter: 5.7 mm
- With an injected anti-kink grommet
- Fire protection: flame-retardant according to IEC60332-1
- Degree of protection: IP20
- With a punctual screen contact
- With locking lever protection
- Mating cycles: ≥750
- With length print
- 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	>25 mm
Cable construction	4x2
Cable shape	rund
Cable type	SF/UTP
Cabling standard	EN50173
Category	5e
Colour anti-kink sleeve	black
Colour outer sheath	black
Conductive shield	Selected shield contact
Conductor Material	CCA
Conductor resistance DC	146 Ω/km
Connector	IEC 60603-7-3
Connector type	RJ45 standard
Contact Resistance	30 mΩ
Contacts	Gold plated
Current capacity	max. 1 A
Fire retardant version	acc. IEC60332-1
Halogen free	False

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Harmonised Standard	EN 50575
Impedance	100
Insulation Resistance	10 MΩ
Length imprint	True
Locking lever	True
Loop resistance	292 Ω/km
Material outer sheath	PVC
Mating cycles	≥750
Model	shielded
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	1:1
Printing	SF/UTP 300 CAT.5E 26AWG×4P PATCH ISO/IEC 11801 & EN 50173 VERIFIED ***2,5 GIGABIT*** www.efb-elektronik.de
Resistance unbalance	5 %
Resistant to chemicals	False
Silicone-free	True
Suitable for degree of protection (IP)	IP20
Test voltage	1000 (V DC, 1min) core/core und core/screen
Total screening	>65 %
Transmission	2.5Gbit
Type of connector connection 1	RJ45 8(8)
Type of connector connection 2	RJ45 8(8)
UL approbated	False
UV resistant	no

Available variants

ArtNr.	Bezeichnung	Length	POE class	Length tolerance
K5456.0,5	RJ45 Patch Cord Cat.5e SF/UTP PVC CCA black 0,5m	0.5 m	No	±5 %
K5456.1	RJ45 Patch Cord Cat.5e SF/UTP PVC CCA black 1m	1.0 m	No	±5 %
K5456.1,5	RJ45 Patch Cord Cat.5e SF/UTP PVC CCA black 1,5m	1.5 m	No	±5 %
K5456.10	RJ45 Patch Cord Cat.5e SF/UTP PVC CCA black 10m	10.0 m	No	±5 %
K5456.15	RJ45 Patch Cord Cat.5e SF/UTP PVC CCA black 15m	15.0 m	No	±5 %
K5456.2	RJ45 Patch Cord Cat.5e SF/UTP PVC CCA black 2m	2.0 m	No	±5 %

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K5456.20	RJ45 Patch Cord Cat.5e SF/UTP PVC CCA black 20m	20.0 m	No	±5 %
K5456.25	RJ45 Patch Cord Cat.5e SF/UTP PVC CCA black 25m	25.0 m	No	±5 %
K5456.3	RJ45 Patch Cord Cat.5e SF/UTP PVC CCA black 3m	3.0 m	No	±5 %
K5456.30	RJ45 Patch Cord Cat.5e SF/UTP PVC CCA black 30m	30.0 m	No	±5 %
K5456.5	RJ45 Patch Cord Cat.5e SF/UTP PVC CCA black 5m	5.0 m	No	±5 %
K5456.7,5	RJ45 Patch Cord Cat.5e SF/UTP PVC CCA black 7,5m	7.5 m	No	±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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