DATASHEET

RJ45 Patch Cord Cat.6 U/UTP LSZH CCA red 1m



General data

The Cat.6 LAN cable from EFB-Elektronik transmits data up to 5Gbit. Since it is a Cat.6 data cable, it offers a frequency range of up to 250MHz, which allows for high data transmission performance.

• 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.
• Increased safety in the event of a fire – low smoke generation after IEC61034 helps to keep escape routes as low-smoke as possible in the event of a fire, and the halogen-free materials according to IEC60754-2 reduce the development of corrosive fire gases.
• Ensure reliable 5 Gigabit connections – gold-plated contact surfaces reduce contact resistance and contact corrosion, which supports signal quality and thus stable 5Gbps transmission.

Product Description

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WIR SORGEN FÜR VERBINDUNG
WE CARE FOR CONNECTION

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The unshielded design in this U/UTP LAN cable enables cost-effective networking in low-interference environments while providing high flexibility for easy installation. It can be used in a temperature range of -20 – 60 °C. The wide range of possible applications is supported by the bending radius of >30 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.

Technical details
• Cat.6
• Connector: RJ45 8(8) to RJ45 8(8) with RJ45 connectors
• Shielding: U/UTP cable with 4x2 x AWG24/7
• Cable shape: round
• Pin assignment: 1:1 according to TIA/EIA 568B
• Gold-plated contacts
• Sheath: LSZH sheath material
• Outer diameter: 5.9 mm
• With an injected 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 locking lever protection
• Mating cycles: ≥750
• With length print
• Brand: EFB-Elektronik

Technical properties	
AWG-size	24/7
Allocation	acc. TIA/EIA 568B
Anti-kink sleeve	moulded-on
Area of Application	Industrial Ethernet
Bandwidth	250MHz
Bending radius	>30 mm
Cable construction	4x2
Cable shape	rund
Cable type	U/UTP
Cabling standard	EN50173
Category	6
Colour anti-kink sleeve	red
Colour outer sheath	red
Conductive shield	No
Conductor Material	CCA
Connector	IEC 60603-7-4
Connector type	RJ45 standard

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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
Length imprint	True
Locking lever	True
Low smoke	acc. IEC61034
Material outer sheath	LSZH
Mating cycles	≥ 750
Model	unshielded
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
Printing	CAT.6 U/UTP AWG24 stranded × 4pairs LSZH cable ***5 GIGABIT*** www.efb-elektronik.de
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
Transmission	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
K8104RT.0,25	RJ45 Patch Cord Cat.6 U/UTP LSZH CCA red 0,25m	0.25 m	No	±5 %
K8104RT.0,5	RJ45 Patch Cord Cat.6 U/UTP LSZH CCA red 0,5m	0.5 m	No	±5 %
K8104RT.1	RJ45 Patch Cord Cat.6 U/UTP LSZH CCA red 1m	1.0 m	No	±5 %
K8104RT.1,5	RJ45 Patch Cord Cat.6 U/UTP LSZH CCA red 1,5m	1.5 m	No	±5 %
K8104RT.10	RJ45 Patch Cord Cat.6 U/UTP LSZH CCA red 10m	10.0 m	No	±5 %

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K8104RT.15	RJ45 Patch Cord Cat.6 U/UTP LSZH CCA red 15m	15.0 m	No	±5 %
K8104RT.2	RJ45 Patch Cord Cat.6 U/UTP LSZH CCA red 2m	2.0 m	No	±5 %
K8104RT.20	RJ45 Patch Cord Cat.6 U/UTP LSZH CCA red 20m	20.0 m	No	±5 %
K8104RT.3	RJ45 Patch Cord Cat.6 U/UTP LSZH CCA red 3m	3.0 m	No	±5 %
K8104RT.5	RJ45 Patch Cord Cat.6 U/UTP LSZH CCA red 5m	5.0 m	No	±5 %
K8104RT.7,5	RJ45 Patch Cord Cat.6 U/UTP LSZH CCA red 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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