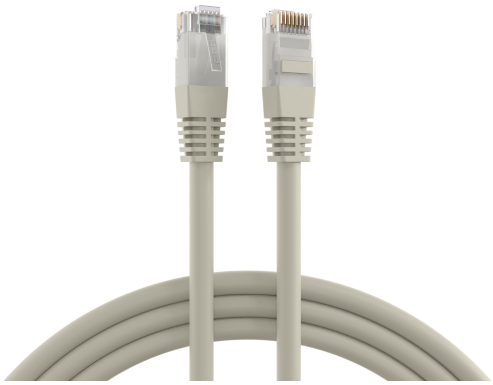
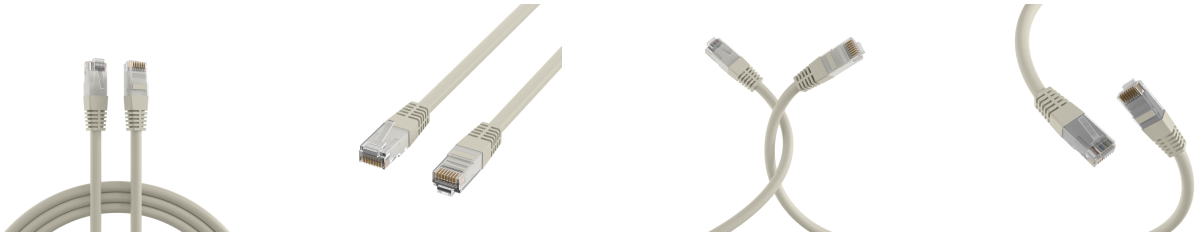
DATASHEET

RJ45 Patch Cord Cat.6 U/UTP PVC CCA grey 15m





General data

This Cat.6 LAN cable from EFB-Elektronik supports data transfers up to 5Gbit. Because it is a Cat.6 patch cable, it offers a frequency range up to 250MHz, which provides 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.
• Ensure reliable 5 Gigabit connections – gold-plated contact surfaces reduce contact resistance and contact corrosion, which supports signal quality and thus stable 5Gbps transmission.
• Reliable performance of 250MHz bandwidth ensures high-speed data transmission.

Product Description
The unshielded design in this U/UTP Ethernet cable enables cost-effective networking in low-interference environments while providing high flexibility for easy installation. The temperature range of the cable is -20 – 60 °C. The wide range of possible applications is supported by the bending radius of >30 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
• Cat.6
• Connector: RJ45 8(8) to RJ45 8(8) with RJ45 connectors

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EFB-Elektronik GmbH
Striegauer Straße 1
33719 Bielefeld

fon: +49 521 40 41 8-0
fax: +49 521 40 41 8-50

info@efb-elektronik.de
www.efb-elektronik.de

WIR SORGEN FÜR VERBINDUNG
WE CARE FOR CONNECTION

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- 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: Polyvinyl chloride (PVC) sheath material
- Outer diameter: 5.9 mm
- With an injected anti-kink grommet
- Fire protection: flame-retardant according to IEC60332-1
- Degree of protection: IP20
- 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	grey
Colour outer sheath	grey
Conductive shield	No
Conductor Material	CCA
Connector	IEC 60603-7-4
Connector type	RJ45 standard
Contacts	Gold plated
Current capacity	max. 1 A
Fire retardant version	acc. IEC60332-1
Halogen free	False
Harmonised Standard	EN 50575
Impedance	100
Length imprint	True
Locking lever	False
Material outer sheath	Polyvinyl chloride (PVC)

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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 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
K8100GR.0,25	RJ45 Patch Cord Cat.6 U/UTP PVC CCA grey 0,25m	0.25 m	No	±5 %
K8100GR.0,5	RJ45 Patch Cord Cat.6 U/UTP PVC CCA grey 0,5m	0.5 m	No	±5 %
K8100GR.1	RJ45 Patch Cord Cat.6 U/UTP PVC CCA grey 1m	1.0 m	No	±5 %
K8100GR.1,5	RJ45 Patch Cord Cat.6 U/UTP PVC CCA grey 1,5m	1.5 m	No	±5 %
K8100GR.10	RJ45 Patch Cord Cat.6 U/UTP PVC CCA grey 10m	10.0 m	No	±5 %
K8100GR.15	RJ45 Patch Cord Cat.6 U/UTP PVC CCA grey 15m	15.0 m	No	±5 %
K8100GR.2	RJ45 Patch Cord Cat.6 U/UTP PVC CCA grey 2m	2.0 m	No	±5 %
K8100GR.20	RJ45 Patch Cord Cat.6 U/UTP PVC CCA grey 20m	20.0 m	No	±5 %
K8100GR.3	RJ45 Patch Cord Cat.6 U/UTP PVC CCA grey 3m	3.0 m	No	±5 %
K8100GR.30	RJ45 Patch Cord Cat.6 U/UTP PVC CCA grey 30m	30.0 m	No	±5 %
K8100GR.5	RJ45 Patch Cord Cat.6 U/UTP PVC CCA grey 5m	5.0 m	No	±5 %
K8100GR.7,5	RJ45 Patch Cord Cat.6 U/UTP PVC CCA grey 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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