DATASHEET

RJ45 Patch Cord Cat.6A S/FTP FR HF Kerpen F6-90 TM21 red 2m















General data

The Cat.6A RJ45 patch cable **manufactured in Europe** guarantees very good characteristics for **10 Gigabit** Ethernet applications. The patch cable is composed of the Cat.7 raw cable **F6-90 S/F** from Leoni-Kerpen and **TM21** connectors from Hirose.

Cross section 4 x 2 x AWG27/7
Mounted anti-kink grommet

Technical properties	
AWG-size	27/7
Allocation	acc. TIA/EIA 568B
Anti-kink sleeve	put-on

This datasheet was created automatically on 01-11-2026 . Technical changes reserved.

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

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Area of Application	Industrial Ethernet
Bandwidth	500MHz
Bending radius	28,5 mm
Cable construction	4x2
Cable type	S/FTP
Cable type acc. to Manufacturer	Leoni-Kerpen F6-90 S/F
Cabling standard	ANSI/TIA-568-C.2
Category	6A (TIA)
Colour anti-kink sleeve	yellow
Colour outer sheath	yellow
Conductive shield	360° shield contact
Conductor Material	Copper
Conductor resistance DC	170 Ω/km
Connector	IEC 60603-7-51
Connector type	TM21 red
Contacts	Gold plated
Current capacity	max. 1 A
Fire retardant version	acc. IEC60332-1
Halogen free	acc. IEC60754-2
Impedance	100 ±5 Ω
Insulation Resistance	> 5000 MΩ
Length imprint	False
Locking lever	True
Loop resistance	< 340 Ω/km
Low smoke	acc. IEC61034
Material outer sheath	LSZH
Mating cycles	≥750
Model	shielded
NVP value	78 %
Operating Temperature	-20 – 60 °C
Operating-/ tempering voltage	max. 50 V DC
Outer diameter of the cable	5.7 mm
Pin assignment	1:1
Printing	Cat.6 U/UTP AWG24/7 stranded x 4pairs LSZH cable www.efb-elektronik.de
Raw cable	Cat.7

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Suitable for degree of protection (IP)	IP20
Temperature Range (Installation)	0 – 50 °C
Temperature Range (Operation)	-20 – 60 °C
Test voltage	1000 (V DC, 1min) core/core und core/screen
Transmission	10Gbit
Type of connector connection 1	RJ45 8(8)
Type of connector connection 2	RJ45 8(8)

Available variants

ArtNr.	Bezeichnung	Length	Length tolerance
K8210BL.3	RJ45 Patch Cord Cat.6A S/FTP FR HF Kerpen F6-90 TM21 blue 3m	3.0 m	±5 %
K8210GE.3	RJ45 Patch Cord Cat.6A S/FTP FR HF Kerpen F6-90 TM21 yellow 3m	3.0 m	±5 %
K8210GE.5	RJ45 Patch Cord Cat.6A S/FTP FR HF Kerpen F6-90 TM21 yellow 5m	5.0 m	±5 %
K8210GN.20	RJ45 Patch Cord Cat.6A S/FTP FR HF Kerpen F6-90 TM21 green 20m	20.0 m	±5 %
K8210GR.30	RJ45 Patch Cord Cat.6A S/FTP FR HF Kerpen F6-90 TM21 grey 30m	30.0 m	±5 %
K8210RT.2	RJ45 Patch Cord Cat.6A S/FTP FR HF Kerpen F6-90 TM21 red 2m	2.0 m	±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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