DATASHEET

RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 2m



General data

This Cat.6A (IEC) data cable from EFB-Elektronik supports data transmissions up to 10Gbit. S/FTP shielding reliably protects against interference and ensures high-quality signals. Because it is a Cat.6A (IEC) network cable, it supports a frequency range of up to 500MHz, which provides high data transmission performance.

• Designed for sun-exposed installations – UV-resistant jacket materials reduce material ageing caused by sun exposure and increase service life when used in bright/sunny areas (e.g. near windows or in sheltered outdoor areas).
• Increase interference immunity in electromagnetically charged environments – double shielding (S/FTP) improves 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.

Product Description
The S/FTP patch cable has double shielding, which effectively reduces electromagnetic interference. The temperature range of the cable is -30 – 75 °C. The wide range of possible applications is supported by the bending radius of >25 mm. The Ethernet cable has an IP20 rating. The polyurethane (PUR) jacket is particularly robust, making it suitable for demanding industrial applications. It is also oil-resistant.

This datasheet was created automatically on 30-10-2026 . Technical changes reserved.

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Technical details
• Cat.6A (IEC)
• Connector: RJ45 8(8) to RJ45 8(8) with red TM21 connectors
• Shielding: S/FTP cable with 4x2 x AWG26/7
• 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
• Gold-plated contacts
• Sheath: Polyurethane (PUR) sheath material
• Oil-resistant according to EN 60811-2-1
• Ozone resistant according to EN60811-2-1
• Outer diameter: 5.9 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	26/7
Allocation	acc. TIA/EIA 568B
Anti-kink sleeve	put-on
Area of Application	Industrial Ethernet
Bandwidth	500MHz
Bending radius	>25 mm
Cable construction	4x2
Cable shape	rund
Cable type	S/FTP
Cable type acc. to Manufacturer	Draka UC900 SS27 Cat.7 PUR
Cabling standard	EN50173
Category	6A (IEC)
Colour anti-kink sleeve	black
Colour outer sheath	red
Conductive shield	360° shield contact
Conductor Material	Copper
Conductor resistance DC	170 Ω/km
Connector	IEC 60603-7-51

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Connector type	TM21 red
Contact Resistance	< 20 mΩ
Contacts	Gold plated
Current capacity	max. 1 A
Euro class	Eca
Fire retardant version	acc. IEC60332-1
Halogen free	acc. IEC60754-2
Harmonised Standard	EN 50575
Impedance	100 ±5 Ω
Insulation Resistance	> 2000 MΩ
Length imprint	False
Locking lever	True
Loop resistance	< 340 Ω/km
Low smoke	acc. IEC61034
Material outer sheath	Polyurethan (PUR)
Mating cycles	≥750
Model	shielded
NVP value	79 %
Oil resistant	acc. EN 60811-2-1
Operating Temperature	-30 – 75 °C
Operating-/ tempering voltage	max. 50 V DC
Outer diameter of the cable	5.9 mm
Ozone resistance	acc. EN60811-2-1
Pin assignment	1:1
Raw cable	Cat.7
Resistance unbalance	3 %
Resistant to chemicals	False
Suitable for degree of protection (IP)	IP20
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)
UL approbated	False
UV resistant	True

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Available variants

ArtNr.	Bezeichnung	Length	POE class	Length tolerance
K8048PUI0,25	RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 0,25m	0.25 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8048PUI0,5	RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 0,5m	0.5 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8048PUI1	RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 1m	1.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8048PUI1,5	RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 1,5m	1.5 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8048PUI10	RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 10m	10.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8048PUI15	RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 15m	15.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at	±5 %
K8048PUI2	RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 2m	2.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8048PUI20	RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 20m	20.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at	±5 %
K8048PUI25	RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 25m	25.0 m	PoE acc. to IEEE802.3af	±5 %
K8048PUI3	RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 3m	3.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8048PUI30	RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 30m	30.0 m	PoE acc. to IEEE802.3af	±5 %
K8048PUI40	RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 40m	40.0 m	No	±5 %
K8048PUI5	RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 5m	5.0 m	PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8048PUI50	RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 50m	50.0 m	No	±5 %
K8048PUI7,5	RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 7,5m	7.5 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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