DATASHEET

RJ45 Patch Cord Cat.5e S/UTP PVCDätwyler 5502 TM11 yellow 50m



General data

The Cat.5e data cable from EFB-Elektronik transmits data up to 2.5Gbit. S/UTP shielding reliably protects against interference and ensures high-quality signals. Since it is a Cat.5e patch cable, it offers a frequency range of up to 100MHz.

• 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.
• Power and connect devices via a cable – reduces cabling effort because data and power are transmitted via 4PPoE to IEEE802.3bt on a single line. 4PPoE according to IEEE802.3bt can only be used up to certain cable lengths.
• Reliable performance for your network connection – the pure copper conductor material ensures stable data transmission and supports consistent signal quality in typical IT and home network applications.

Product Description
The S/UTP data cable offers reliable performance under typical EMC loads. The braided shield reduces electromagnetic radiation, increases operational reliability and ensures stable data connections in the standard network. The temperature range of the cable is -20 – 60 °C. The wide range of possible applications is supported by the bending radius of >20 mm. The Ethernet cable has an IP20 rating. The polyvinyl chloride (PVC) jacket is a flexible standard jacket for network applications, without special fire protection properties.

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Technical details
- Cat.5e
- Connector: RJ45 8(8) to RJ45 8(8) with TM11 connectors
- Shielding: S/UTP 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: Polyvinyl chloride (PVC) sheath material
- Outer diameter: 5.1 mm
- With an attached anti-kink grommet
- Fire protection: flame-retardant according to IEC60332-1
- Degree of protection: IP20
- With a 360° umbrella attachment
- 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	100MHz
Bending radius	>20 mm
Cable construction	4x2
Cable shape	rund
Cable type	S/UTP
Cable type acc. to Manufacturer	Dätwyler CU 5502 flex
Cabling standard	EN50173
Category	5e
Colour anti-kink sleeve	yellow
Colour outer sheath	yellow
Conductive shield	360° shield contact
Conductor Material	Copper
Conductor resistance DC	113 Ω/km
Connector	IEC 60603-7-3
Connector type	TM11
Contacts	Gold plated
Current capacity	max. 1 A

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Fire retardant version	acc. IEC60332-1
Halogen free	False
Harmonised Standard	EN 50575
Impedance	100 ±15 Ω
Length imprint	False
Locking lever	False
Loop resistance	225 Ω/km
Material outer sheath	Polyvinylchlorid (PVC)
Mating cycles	≥750
Model	shielded
NVP value	76 %
Oil resistant	no
Operating Temperature	-20 – 60 °C
Operating-/ tempering voltage	max. 50 V DC
Outer diameter of the cable	5.1 mm
Ozone resistance	No
Pin assignment	1:1
Resistant to chemicals	False
Suitable for degree of protection (IP)	IP20
Test voltage	1000 (V DC, 1min) core/core und core/screen
Transmission	2.5Gbit
Type of connector connection 1	RJ45 8(8)
Type of connector connection 2	RJ45 8(8)
UL approbated	False
UV resistant	Nein

Available variants

ArtNr.	Bezeichnung	Length	POE class	Length tolerance
K8702.0,50	RJ45 Patch Cord Cat.5e S/UTP PVCDätwyler 5502 TM11 yellow 0,5m	0.5 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8702.1	RJ45 Patch Cord Cat.5e S/UTP PVCDätwyler 5502 TM11 yellow 1m	1.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8702.1,5	RJ45 Patch Cord Cat.5e S/UTP PVCDätwyler 5502 TM11 yellow 1,5m	1.5 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8702.10	RJ45 Patch Cord Cat.5e S/UTP PVCDätwyler 5502 TM11 yellow 10m	10.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %

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K8702.15	RJ45 Patch Cord Cat.5e S/UTP PVCDätwyler 5502 TM11 yellow 15m	15.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8702.2	RJ45 Patch Cord Cat.5e S/UTP PVCDätwyler 5502 TM11 yellow 2m	2.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8702.20	RJ45 Patch Cord Cat.5e S/UTP PVCDätwyler 5502 TM11 yellow 20m	20.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8702.25	RJ45 Patch Cord Cat.5e S/UTP PVCDätwyler 5502 TM11 yellow 25m	25.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at	±5 %
K8702.3	RJ45 Patch Cord Cat.5e S/UTP PVCDätwyler 5502 TM11 yellow 3m	3.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8702.30	RJ45 Patch Cord Cat.5e S/UTP PVCDätwyler 5502 TM11 yellow 30m	30.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at	±5 %
K8702.5	RJ45 Patch Cord Cat.5e S/UTP PVCDätwyler 5502 TM11 yellow 5m	5.0 m	PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt	±5 %
K8702.50	RJ45 Patch Cord Cat.5e S/UTP PVCDätwyler 5502 TM11 yellow 50m	50.0 m	No	±5 %
K8702.7,5	RJ45 Patch Cord Cat.5e S/UTP PVCDätwyler 5502 TM11 yellow 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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