DATASHEET

PATCH PRO FLEX CAT 7 Kabel PUR/Gummi, RAL9005, UV best., 500m



General data

The Cat.7 S/FTP LAN cable with PUR sheath in black from EFB-Elektronik is designed for high-performance network cabling. The S/FTP structure with braided shielding and the polyurethane sheath in RAL 9005 support stable data connections up to 1000 MHz and are therefore suitable for modern installations with high bandwidth.

• 1000 MHz Cat.7 bandwidth – Supports transmission standards from IEEE 802.3 10Mbit to 10Gbit and creates scope for high-performance networks.
• S/FTP setup with braided shielding – Reduces interference and supports stable signal quality in demanding cabling.
• UV-resistant PUR jacket in black according to RAL 9005 – Provides a resistant outer shell for installations with increased requirements.

The cable is designed as a simplex and uses 26/7 conductors with 8 wires. The dynamic bending radius of 40 mm facilitates installation. The braided shielding supports decoupling from external influences and the design is intended for PoE according to IEEE802.3af, PoE+ according to IEEE802.3at and 4PPoE according to IEEE802.3bt. The version without reinforcement is aimed at laying in structured network environments. RoHS 2011/65/UE is met.

Technical details
• Brand: EFB-Elektronik
• Category: 7

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- Transmission standards: IEEE 802.3 10Mbit to 10Gbit
- Max. frequency: 1000 MHz
- Cable construction: S/FTP
- PoE: after IEEE802.3af PoE, after IEEE802.3at PoE+, after IEEE802.3bt 4PPoE
- AWG cross-section/number of wires: 26/7
- Number of cores: 8
- Type: simplex
- Sheath material: polyurethane (PUR)
- Sheath colour: black
- RAL colour: RAL 9005
- Armour: without
- Bend radius (dynamic): 40 mm
- Directive/Regulation: RoHS 2011/65/UE
- Euroclass: none
- UV resistant: Yes
- Shield over stranding: braid

Technical properties	
AWG-size	26/7
Armour	none
Bending radius (dynamic)	40 mm
Cable	IEC 61156-6
Cable silicone free	True
Cable structure	S/FTP
Cable type	Draka Patch Pro Flex Cat7
Cabling standards	ISO/IEC 11801
Category	7
Characteristic impedance	100 ± 5 Ohm
Conductor category	Class 2 = stranded
Conductor material	Copper, bare
Core identification	Colour
Core insulation	Foam-Skin-PE
Coupling attenuation	≥ 80 dB
Diameter conductor	0.48 mm
Directive/Regulation	RoHS 2011/65/UE
Euro class	none
Flame retardant	No
Halogen free	False
Harmonised Standard	EN 50575

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Installation standard	EN 50174
Insulation resistance (500V)	≥ 2000 MOhm/km
Loop resistance	250 Ohm/km
Low smoke	nein
Material outer sheath	Polyurethan (PUR)
Max. Freuqency	MHz MHz
NVP value	75 %
Nominal cross section conductor	0.16 mm²
Operating capacity	43 pF/km
Operating temperature, fix	-20 – 60 °C
Operating temperature, flexible	0 – 50 °C
Operating temperature, storage	-20 – 60 °C
PoE	acc. to IEEE802.3af PoE
Resistance unbalance	2 %
Screen over stranding	braiding
Screen over stranding element	Foil
Stranding element	Pairs
Test voltage DC, 1 min	1000 V
Transmission standards	IEEE 802.3 10Mbit bis 10Gbit
UV resistant	True

Available variants

ArtNr.	Bezeichnung	Colour outer sheath	Length	Number of cores	RAL colour	Type	Copper weight	Weight	Max. tractive force	Outer diameter approx.	Fire load
99262.1	PATCH PRO FLEX CAT 7 Kabel PUR/Gummi, RAL9005, UV best.	black	1.0 m	8	RAL 9005	simplex	17.5 kg/km	35 kg/km	100 N	6.4 mm	688 MJ/km
99262.100	PATCH PRO FLEX CAT 7 Kabel PUR/Gummi, RAL9005, UV best., 100m	black	100.0 m	8	RAL 9005	simplex	17.5 kg/km	35 kg/km	100 N	6.4 mm	688 MJ/km

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99262.1000	PATCH PRO FLEX CAT 7 Cable PUR/Gummi, RAL9005, UV best.	black	1000.0 m	8	RAL 9005	simplex	17.5 kg/km	35 kg/km	100 N	6.4 mm	688 MJ/km
99262.500	PATCH PRO FLEX CAT 7 Kabel PUR/Gummi, RAL9005, UV best., 500m	black	500.0 m	8	RAL 9005	simplex	17.5 kg/km	35 kg/km	100 N	6.4 mm	688 MJ/km

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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