DATASHEET

Raw cable Cat.7, S/FTP, LSZH, orange, 100m ring



General data

The Cat.7 S/FTP raw cable from EFB-Elektronik in Orange is designed for high-performance network cabling. The S/FTP design with FRNC-B sheath supports stable data connections up to 600 MHz and is therefore suitable for structured installations with modern bandwidth.

• 600 MHz Cat.7 bandwidth – Supports transmission standards from IEEE 802.3 10Mbit to 10Gbit and creates scope for high-performance networks.
• S/FTP design with braid shielding – Reduces interference and supports stable signal quality in demanding cabling.
• FRNC-B jacket in orange – Is halogen-free to EN 60754, complies with RoHS 2011/65/UE and adds a robust choice of materials to the installation.

The cable is designed as a simplex and uses 26/7 conductors with 8 wires. The dynamic bending radius of 32 mm facilitates installation in tight installation environments. 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 installation in structured network environments.

Technical details
• Brand: EFB-Elektronik
• Category: 7
• Transmission standards: IEEE 802.3 10Mbit to 10Gbit
• Max. frequency: 600 MHz

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- 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: FRNC-B
- Sheath colour: orange
- Armour: without
- Bend radius (dynamic): 32 mm
- Directive/Regulation: RoHS 2011/65/UE
- Halogen-free: according to EN 60754
- Shield over stranding: braid

Technical properties	
AWG-size	26/7
Bending radius (dynamic)	5 x OD
Cable	IEC 61156-5
Cable structure	S/FTP
Cable type	EFB Cat.7 S/FTP Patchcable LSZH
Cabling standards	ANSI/TIA 568-C.2
Category	7
Characteristic impedance	100 ± 15 Ohm
Conductor category	Class 2 = stranded
Conductor material	Copper, tinned
Core identification	Colour
Core insulation	Foam-Skin-PE
Directive/Regulation	RoHS 2011/65/UE
Flame retardant	acc. to EN 60332-1
Halogen free	acc. to EN 60754-1/2
Installation standard	EN 50174
Insulation resistance (500V)	≥ 100 MOhm/km
Loop resistance	≤ 142 Ohm/km
Low smoke	acc. to EN 61034
Material outer sheath	FRNC-B
Max. Freuqency	MHz MHz
Operating temperature, fix	-20 – 60 °C
Operating temperature, flexible	0 – 60 °C
Operating temperature, storage	0 – 60 °C
PoE	acc. to IEEE802.3af PoE
Resistance unbalance	2 %

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Screen over stranding	braiding
Screen over stranding element	Foil
Stranding element	Pairs
Transmission standards	IEEE 802.3 10Mbit bis 10Gbit
UV resistant	Nein

Available variants

ArtNr.	Bezeichnung	Colour outer sheath	Length	Number of cores	Type	Copper weight	Weight	Max. tractive force	Outer diameter approx.	Fire load
MK7104.100B	Raw cable Cat.7, S/FTP, LSZH, black, 100m ring	black	100.0 m	8	simplex	17 kg/km	32.6 kg/km	100 N	6.5 mm	465 MJ/km
MK7104.100BL	Raw cable Cat.7, S/FTP, LSZH, blue, 100m ring	blue	100.0 m	8	simplex	17 kg/km	32.6 kg/km	100 N	6.5 mm	465 MJ/km
MK7104.100G	Raw cable Cat.7, S/FTP, LSZH, grey, 100m ring	grey	100.0 m	8	simplex	17 kg/km	32.6 kg/km	100 N	6.5 mm	465 MJ/km
MK7104.100GR	Raw cable Cat.7, S/FTP, LSZH, green, 100m ring	green	100.0 m	8	simplex	17 kg/km	32.6 kg/km	100 N	6.5 mm	465 MJ/km
MK7104.100O	Raw cable Cat.7, S/FTP, LSZH, orange, 100m ring	orange	100.0 m	8	simplex	17 kg/km	32.6 kg/km	100 N	6.5 mm	465 MJ/km
MK7104.100P	Raw cable Cat.7, S/FTP, LSZH, pink, 100m ring	magenta	100.0 m	8	simplex	6.5 mm				
MK7104.100R	Raw cable Cat.7, S/FTP, LSZH, red, 100m ring	red	100.0 m	8	simplex	17 kg/km	32.6 kg/km	100 N	6.5 mm	465 MJ/km
MK7104.100V	Raw cable Cat.7, S/FTP, LSZH, violet, 100m ring	purple	100.0 m	8	simplex	17 kg/km	32.6 kg/km	100 N	6.5 mm	465 MJ/km
MK7104.100W	Raw cable Cat.7, S/FTP, LSZH, white, 100m ring	white	100.0 m	8	simplex	17 kg/km	32.6 kg/km	100 N	6.5 mm	465 MJ/km
MK7104.100Y	Raw cable Cat.7, S/FTP, LSZH, yellow, 100m ring	yellow	100.0 m	8	simplex	17 kg/km	32.6 kg/km	100 N	6.5 mm	465 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

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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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