DATASHEET

Cat.7 In-/Outdoor cable 1200MHz AWG23 S/FTP,PE jacket, inner Dca, Sw& Or,50m













General data

The Cat.7 indoor/outdoor cable from EFB-Elektronik is designed for high-performance network cabling. The S/FTP design with PE + LSZH sheath in black supports stable data connections up to 1200 MHz and is therefore suitable for modern installations with high bandwidth.

• 1200 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 foil and braid – Reduces interference and supports stable signal quality in demanding cabling.
• PE + LSZH sheath in black – Combines halogen-free material properties according to EN 60754-1/2 and EN 60754 with UV resistance.

The cable is designed as a simplex and uses 23/1 conductors with 8 wires. The dynamic bending radius of 40 mm facilitates installation. The shielding of foil and braid supports decoupling from external influences and the structure 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.

Technical details
• Brand: EFB-Elektronik
• Category: Cat.7
• Transmission standards: IEEE 802.3 10Mbit to 10Gbit
• Max. frequency: 1200 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: 23/1
- Number of cores: 8
- Type: simplex
- Sheath material: PE + LSZH
- Sheath colour: black
- Armour: without
- Bend radius (dynamic): 40 mm
- Directive/Regulation: RoHS 2011/65/UE
- Euroclass: none
- Halogen-free: according to EN 60754-1/2, according to EN 60754
- Shield over stranding: foil + braid
- UV resistant: Yes

Technical properties	
AWG-size	23/1
Armour	none
Bending radius (dynamic)	40 mm
Cable	IEC 61156-6
Cable silicone free	True
Cable structure	S/FTP
Cable type	EFB Cat.7 UC S/FTP 1200 AWG23 Dca
Cabling standards	ISO/IEC 11801
Category	7
Characteristic impedance	100 ± 5 Ohm
Conductor category	Class 1 = solid
Conductor material	Copper, bare
Core identification	Colour
Core insulation	Foam-Skin-PE
Coupling attenuation	≥ 80 dB
Diameter conductor	0.56 mm
Directive/Regulation	RoHS 2011/65/UE
Euro class	none
Flame retardant	acc. to EN 60332-1
Halogen free	acc. to EN 60754-1/2
Harmonised Standard	EN 50575
Installation standard	EN 50174
Insulation resistance (500V)	≥ 2000 MOhm/km

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Loop resistance	171.2 Ohm/km
Low smoke	acc. to EN 61034
Material outer sheath	PE + LSZH
Max. Freuqency	MHz MHz
NVP value	76 %
Operating capacity	43 pF/km
Operating temperature, fix	-30 – 70 °C
Operating temperature, flexible	0 – 50 °C
Operating temperature, storage	-30 – 70 °C
PoE	acc. to IEEE802.3af PoE
Resistance unbalance	3 %
Screen over stranding	foil + braid
Screen over stranding element	Foil
Separation class acc. EN50174-2	D
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	Type	Copper weight	Weight	Max. tractive force	Outer diameter approx.	Fire load
99733.1-CPR	Cat.7 In-/Outdoor cable 1200MHz AWG23 S/FTP,PE jacket, inner Dca, Sw& Or,1000m	black	1.0 m	8	simplex	25.9 kg/km	132 kg/km	100 N	8.4 mm	1200 MJ/km
99733.100-CPR	Cat.7 In-/Outdoor cable 1200MHz AWG23 S/FTP,PE jacket, inner Dca, Sw& Or,100m	black	100.0 m	8	simplex	25.9 kg/km	132 kg/km	100 N	8.4 mm	1200 MJ/km
99733.25-CPR	Cat.7 In-/Outdoor cable 1200MHz AWG23 S/FTP,PE jacket, inner Dca, Sw& Or,25m	black	25.0 m	8	simplex	25.9 kg/km	132 kg/km	100 N	8.4 mm	1200 MJ/km

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99733.250-CPR	Cat.7 In-/Outdoor cable 1200MHz AWG23 S/FTP,PE jacket, inner Dca, Sw& Or,250m	black	250.0 m	8	simplex	25.9 kg/km	132 kg/km	100 N	8.4 mm	1200 MJ/km
99733.50-CPR	Cat.7 In-/Outdoor cable 1200MHz AWG23 S/FTP,PE jacket, inner Dca, Sw& Or,50m	black	50.0 m	8	simplex	25.9 kg/km	132 kg/km	100 N	8.4 mm	1200 MJ/km
99733.500-CPR	Cat.7 In-/Outdoor cable 1200MHz AWG23 S/FTP,PE jacket, inner Dca, Sw& Or,500m	black	500.0 m	8	simplex	25.9 kg/km	132 kg/km	100 N	8.4 mm	1200 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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