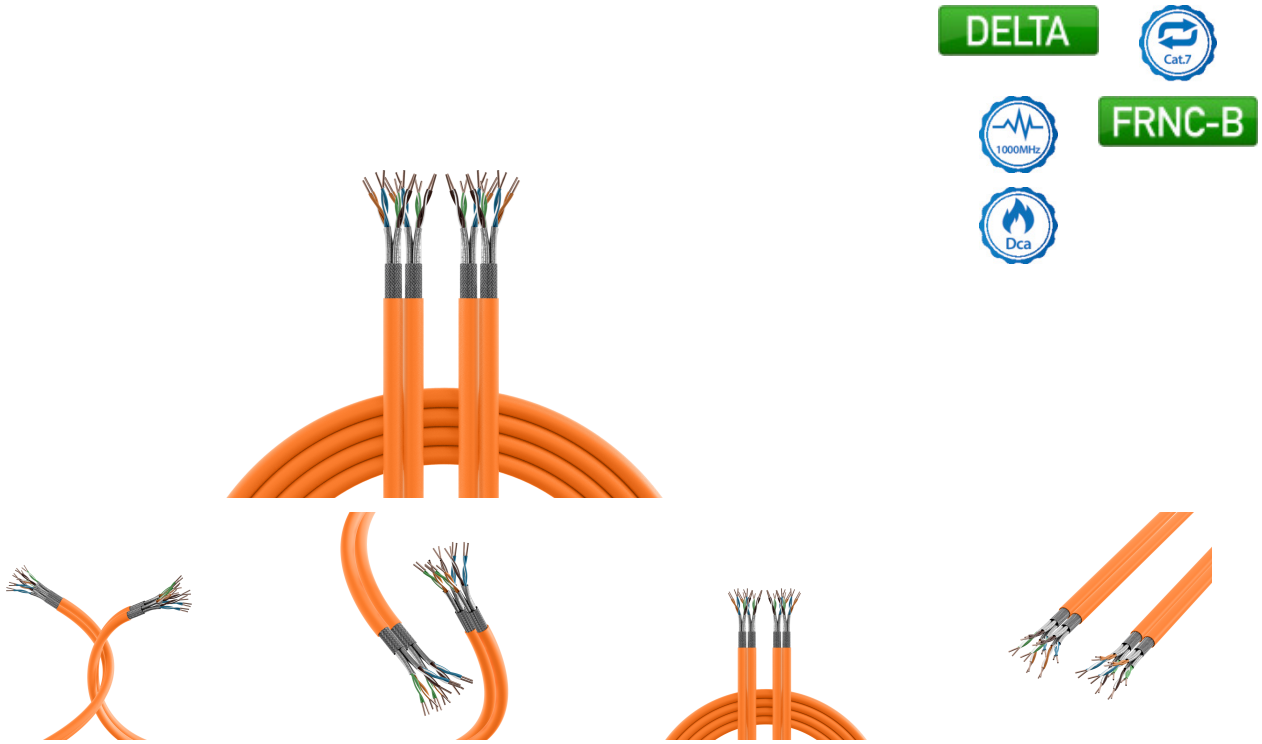
DATASHEET

Duplex LAN Cat.7 1000 AWG23 S/FTP,4P, CPR Dca, orange, 100m



General data

The Cat.7 Duplex LAN Installation Cable 1000MHz AWG23 FRNC-B from EFB-Elektronik is designed for high-performance network cabling. The S/FTP structure with braided shielding and the FRNC-B jacket in orange according to RAL 2003 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 design with braid shielding – Reduces interference and supports stable signal quality in demanding cabling.
• Duplex design with 2x8 wires and 23/1 AWG – Facilitates structured installation as a high-performance installation cable for professional network environments.

The cable is designed as a duplex and uses 23/1 conductors with 2x8 wires. The dynamic bending radius of 60 mm makes installation easier. The braided shielding 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 installation in structured network environments. The jacket is halogen-free according to EN 60754 and complies with RoHS 2011/65/UE. The Euroclass Dca complements the installation with a standard-compliant choice of material.

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EFB-Elektronik GmbH
Striegauer Straße 1
33719 Bielefeld

fon: +49 521 40 41 8-0
fax: +49 521 40 41 8-50

info@efb-elektronik.de
www.efb-elektronik.de

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Technical details
- Brand: EFB-Elektronik
- Category: 7
- 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: 23/1
- Number of cores: 2x8
- Type: duplex
- Sheath material: FRNC-B
- Sheath colour: orange
- RAL colour: RAL 2003
- Armour: without
- Bend radius (dynamic): 60 mm
- Directive/Regulation: RoHS 2011/65/UE
- Euroclass: Dca
- Halogen-free: according to EN 60754
- Shield over stranding: braid

Technical properties	
AWG-size	23/1
Armour	none
Bending radius (dynamic)	60 mm
Cable	IEC 61156-6
Cable silicone free	True
Cable structure	S/FTP
Cable type	EFB Cat.7 S/FTP 1000 AWG23 Eca
Cabling standards	ISO/IEC 11801
Category	7
Characteristic impedance	100 ± 5 Ohm
Conductor category	Class 1 = solid
Conductor material	Copper, tinned
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	Dca
Flame retardant	acc. to EN 60332-1

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Halogen free	acc. to EN 60754
Harmonised Standard	EN 50575
Installation standard	EN 50174
Insulation resistance (500V)	≥ 2000 MOhm/km
Loop resistance	191.2 Ohm/km
Low smoke	acc. to EN 61034
Material outer sheath	FRNC-B
Max. Freuqency	MHz MHz
NVP value	76 %
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	< 3 %
Screen over stranding	braiding
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	no

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
MK7101DX.100-CPR	Duplex LAN Cat.7 1000 AWG23 S/FTP,4P, CPR Dca, orange, 100m	orange	100.0 m	2x8	RAL 2003	duplex	44 kg/km	116 kg/km	100 N	7.4 x 15.0 mm	1180 MJ/km

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MK7101DX.500-CPR	Duplex LAN Cat.7 1000 AWG23 S/FTP,4P, CPR Dca, orange, 500m	orange	500.0 m	2x8	RAL 2003	duplex	44 kg/km	116 kg/km	100 N	7.4 x 15.0 mm	1180 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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