

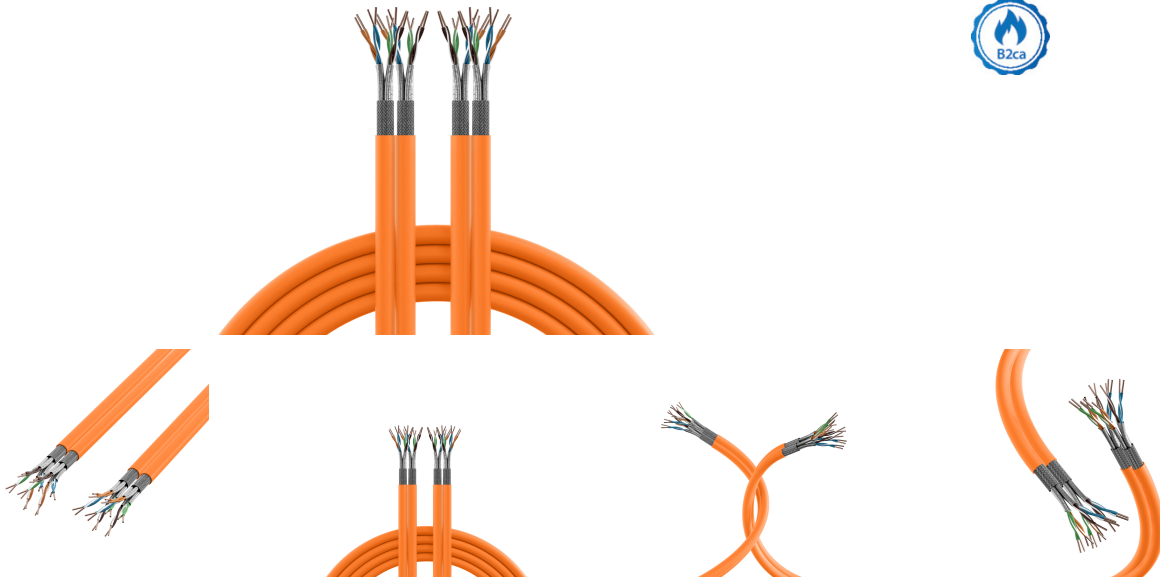
DATASHEET

INFRALAN® Cat.7A 1200 AWG22, S/FTP 2x4P CPR B2ca
orange RAL 2003



FRNC-C

DELTA



General data

The Delta certified INFRALAN® installation cable MK7100.x-CPR is constructed for transmissions up to **1200 MHz** and exceeds with the electrical transmission properties the requirements of the category 7A. Suitable for structured cabling of Class E, EA, F and FA according to ISO/IEC 11801 (AMD 2:2009) resp. EN 50173-1 (2009). The twisted pairs are protected against interferences with a shielding foil (PiMF) and a total shielding. This excellent protection also prevents the radiation of signals out of the cables. The shielding ensures the compliance of emitted interferences according to class B EN 55022 and the interference resistance according to EN 55024. The stranding of the twisted pairs is optimized so that the delay skew between the pairs at the greatest possible uncoupling (crosstalk) is minimum. With this cable transmission rates up to 10 GBit according to IEEE 802.3 are possible.

Technical properties

AWG-size	22/1
Armour	none
Bending radius (dynamic)	40 mm
Cable	IEC 61156-6
Cable silicone free	True
Cable structure	S/FTP
Cable type	EFB Cat.7A S/FTP 1200 AWG22 B2ca

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Cabling standards	ISO/IEC 11801
Category	7A
Characteristic impedance	100 ± 5 Ohm
Conductor category	Class 1 = solid
Conductor material	Copper, tinned
Core identification	Colour
Core insulation	Foam-Skin-PE
Coupling attenuation	≤ 85 dB
Diameter conductor	0.62 mm
Directive/Regulation	RoHS 2011/65/UE
Euro class	B2ca
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
Loop resistance	143.4 Ohm/km
Low smoke	acc. to EN 61034
Material outer sheath	FRNC-B
Max. Frequency	MHz MHz
NVP value	78 %
Operating capacity	43 pF/km
Operating temperature, fix	-20 - 60 °C
Operating temperature, flexible	-20 - 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

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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
MK7100.1-CPR	INFRALAN® Cat.7A 1200 AWG22, S/FTP 4P CPR B2ca orange RAL 2003	orange	1.0 m	8	RAL 2003	simplex	3.62 kg/km	78 kg/km	100 N	8.4 mm	640 MJ/km
MK7100DX.500-CPR	INFRALAN® Cat.7A 1200 AWG22, S/FTP 2x4P CPR B2ca orange RAL 2003	orange	500.0 m	2x8	RAL 2003	duplex	7.24 kg/km	156 kg/km	100 N	8.4 x16.8 mm	1100 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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