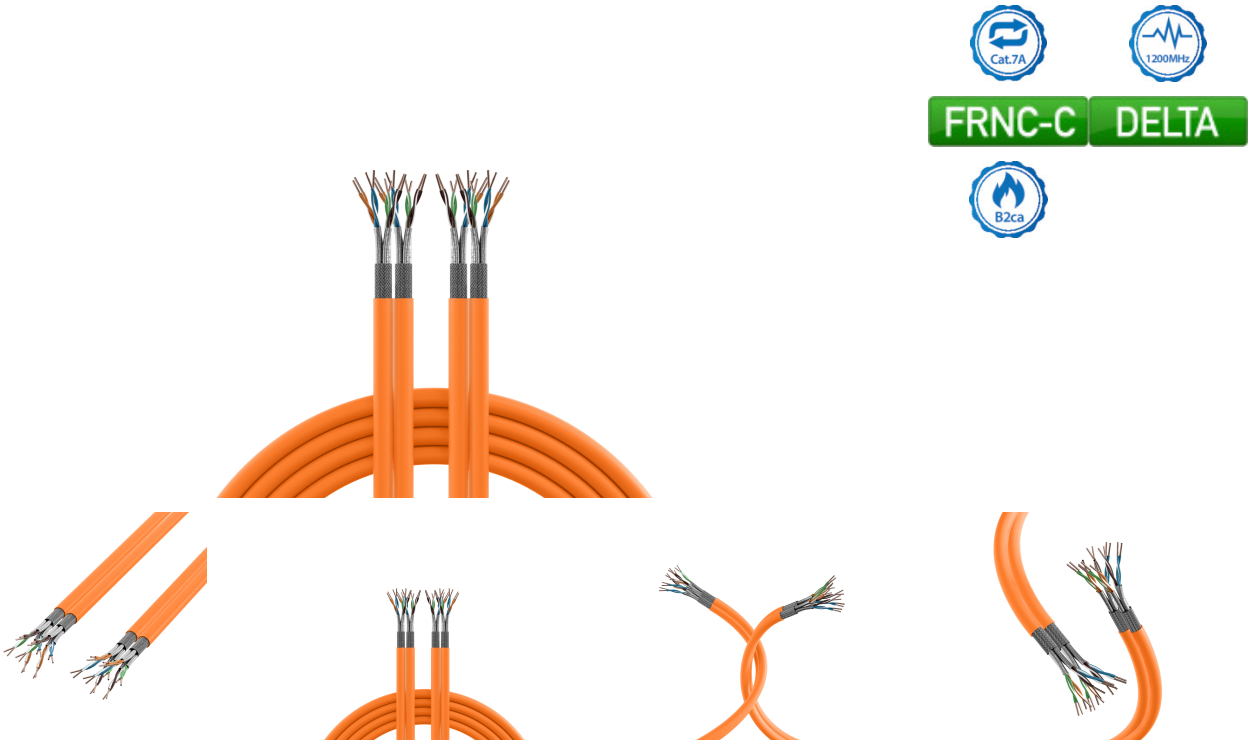
DATASHEET

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



General data

The INFRALAN Cat.7A installation cable S/FTP 1200 MHz with CPR B2ca is designed for high-performance network cabling. The S/FTP design with FRNC-B sheath supports stable data connections up to 1200 MHz and is therefore suitable for modern installations with high bandwidth.

• 1200 MHz Cat.7A bandwidth – Supports transmission standards from IEEE 802.3 10Mbit to 10Gbit and creates reserves 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 with RAL 2003 and Euroclass B2ca – Complements the installation with a halogen-free material selection according to EN 60754-1/2 and RoHS 2011/65/UE.

The cable is designed as a duplex and uses 22/1 conductors with 2x8 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.

Technical details
• Brand: INFRALAN
• Category: 7A

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- Transmission standards: IEEE 802.3 10Mbit to 10Gbit
- Max. frequency: 1200 MHz
- Cable construction: S/FTP
- PoE: after IEEE802.3af PoE, after IEEE802.3at PoE+, after IEEE802.3bt 4PPoE
- AWG cross-section/number of wires: 22/1
- Number of cores: 2x8
- Type: duplex
- Sheath material: FRNC-B
- Sheath colour: orange
- RAL colour: RAL 2003
- Armour: without
- Bend radius (dynamic): 40 mm
- Directive/Regulation: RoHS 2011/65/UE
- Euroclass: B2ca
- Halogen-free: according to EN 60754-1/2
- Shield over stranding: braid

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
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

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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. Freuqency	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

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

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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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