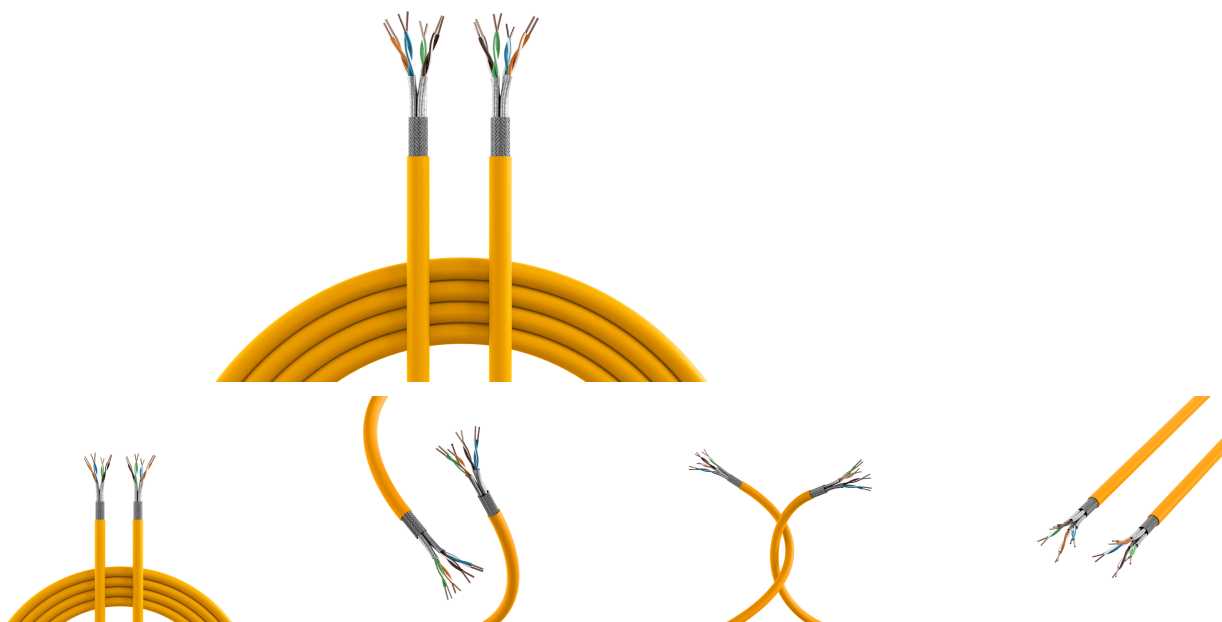


DATASHEET

INFRALAN Cat.7A 1500 AWG22 S/FTP 2x4P CPR Cca melon yellow RAL1028, 500m



General data

The INFRALAN® data cable 999834.x-CPR is designed for transmissions up to 1500 MHz and exceeds the electrical transmission characteristics required for Category 7A.

Cabling runs for Channel Class E, EA, F, and FA according to ISO/IEC 11801 (AMD 2:2009) or EN 50173-1 (2009) can be implemented with this cable.

Continuous performance quality assurance of the simplex version through GHMT PVP certification for Category 7A.

The individual twisted pairs are protected against electromagnetic interference by a foil shield (PiMF) and an overall braided shield; this excellent protection also prevents the cable from radiating signals.

This shielding ensures compliance with Class B EN 55022 emission limits and EN 55024 immunity requirements.

The twisting of the individual pairs is optimized so that the propagation delay difference between the pairs (skew) is minimal while achieving maximum decoupling (crosstalk).

With this cable, transmissions of 10 GBit according to IEEE 802.3 and 25GBase-T up to 30m according to ISO/IEC TR 11801-9905 (2018-02) are possible.

Technical properties

AWG-size

22/1

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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 1500 AWG22 Cca
Cabling standards	ISO/IEC 11801
Category	7A
Characteristic impedance	100 $\pm$ 5 Ohm
Conductor category	Class 1 = solid
Conductor material	CU, tinned
Core identification	Colour
Core insulation	Foam-Skin-PE
Coupling attenuation	$\geq$ 80 dB
Diameter conductor	0.62 mm
Directive/Regulation	RoHS 2011/65/UE
Euro class	Cca
Flame retardant	acc. to IEC/EN 60332-1
Halogen free	acc. to EN 60754-1/2
Harmonised Standard	EN 50575
Installation standard	EN 50174
Insulation resistance (500V)	$\geq$ 5000 MOhm/km
Loop resistance	128 Ohm/km
Low smoke	acc. to EN 61034
Material outer sheath	LSZH
Max. Frequency	MHz MHz
NVP value	79 %
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	2 %
Screen over stranding	foil
Screen over stranding element	Braiding
Separation class acc. EN50174-2	D

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Stranding element	Pairs
Test voltage DC, 1 min	1000 V
Transmission standards	IEEE 802.3 10Mbit bis 10Gbit
UV resistant	False

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
999834.1-CPR	INFRALAN Cat.7A 1500 AWG22 S/FTP 4P CPR Cca melon yellow RAL1028	yellow	1.0 m	8	RAL 1028	simplex	35 kg/km	67 kg/km	150 N	7.7 mm	645 MJ/km
999834.100-CPR	INFRALAN Cat.7A 1500 AWG22 S/FTP 4P CPR Cca melon yellow RAL1028, 100m	yellow	100 m	RAL1028	35 kg/km	67 kg/km	150 N	7.7 mm	645 MJ/km		
999834DX.500-CPR	INFRALAN Cat.7A 1500 AWG22 S/FTP 2x4P CPR Cca melon yellow RAL1028, 500m	yellow	500 m	2x8	RAL 1028	duplex	70 kg/km	134 kg/km	150 N	7.7x15.4 mm	645 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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