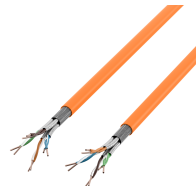
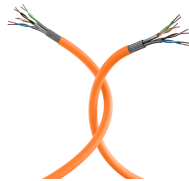
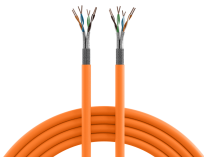
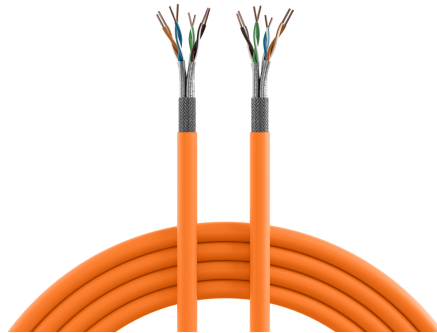


# DATASHEET

INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Cca orange, 500



FRNC-C



## General data

The INFRALAN® installation cable 99981.x-CPR is constructed for transmissions up to **1000 MHz** and exceeds the requirements of the category 7 with the electrical transmission properties. With this cable transmission rates up to 10 GBit according to IEEE 802.3 are possible. Additional this Cable is certified by GHMT PVP program in simplex version.

## 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 AWG23 Cca |
| Cabling standards        | ISO/IEC 11801             |
| Category                 | 7                         |
| Characteristic impedance | 100 ± 5 Ohm               |
| Conductor category       | Class 1 = solid           |

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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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# DATASHEET

## INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Cca orange, 500

|                                 |                              |
|---------------------------------|------------------------------|
| 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                      | 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)    | ≥ 5000 MOhm/km               |
| Loop resistance                 | 146 Ohm/km                   |
| Low smoke                       | acc. to EN 61034             |
| Material outer sheath           | FRNC-B                       |
| Max. Frequency                  | MHz MHz                      |
| NVP value                       | 78 %                         |
| Nominal cross section conductor | 0.26 mm <sup>2</sup>         |
| 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           | 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

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# DATASHEET

## INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Cca orange, 500

| ArtNr.        | Bezeichnung                                                          | Colour<br>outer<br>sheath | Length     | Number<br>of cores | RAL<br>colour | Type    | Copper<br>weight | Weight      | Max.<br>tractive<br>force | Outer<br>diameter<br>approx. | Fire<br>load |
|---------------|----------------------------------------------------------------------|---------------------------|------------|--------------------|---------------|---------|------------------|-------------|---------------------------|------------------------------|--------------|
| 99981.1-CPR   | INFRALAN®<br>Cat.7 1000<br>AWG23, S/FTP<br>4P CPR Cca<br>orange      | orange                    | 1.0 m      | 8                  | RAL<br>2003   | simplex | 28<br>kg/km      | 58<br>kg/km | 95 N                      | 7.5 mm                       | 570<br>MJ/km |
| 99981.500-CPR | INFRALAN®<br>Cat.7 1000<br>AWG23, S/FTP<br>4P CPR Cca<br>orange, 500 | orange                    | 500.0<br>m | 8                  | RAL2003       | simplex | 28<br>kg/km      | 58<br>kg/km | 95 N                      | 7.5 mm                       | 570<br>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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