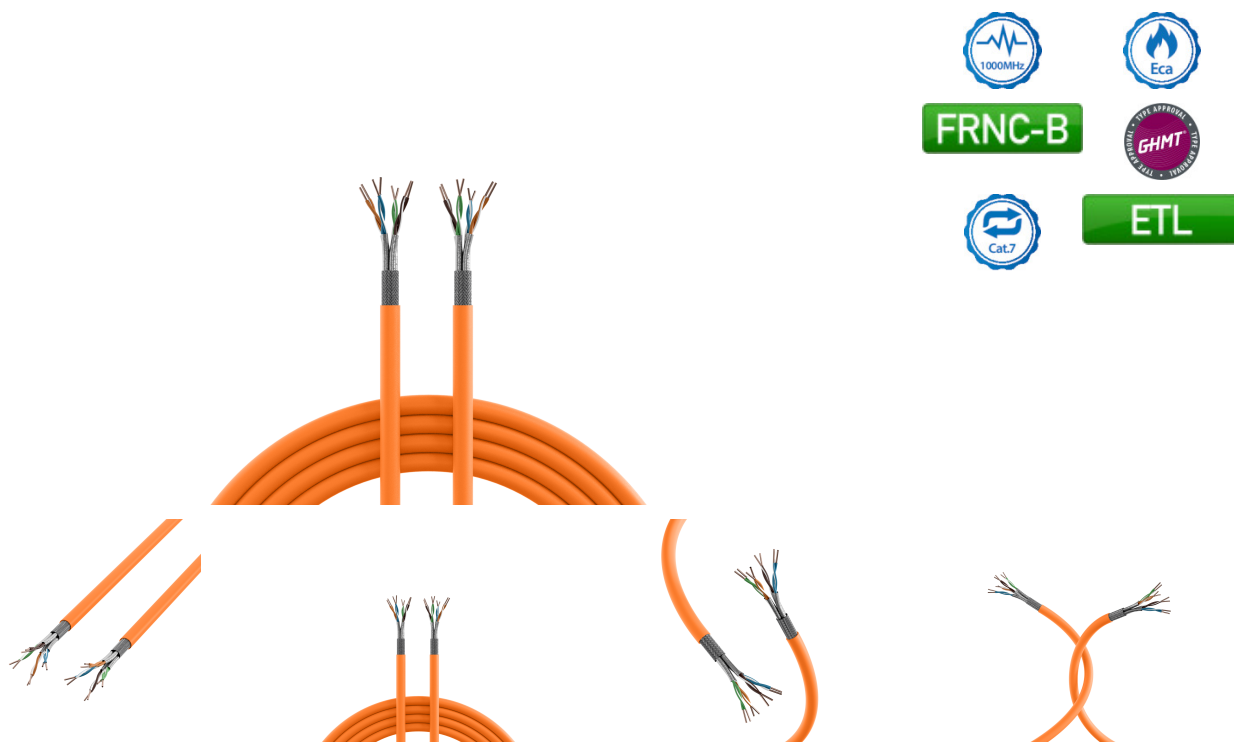


# DATASHEET

## INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Eca orange, 60m



### General data

The INFRALAN Cat.7 S/FTP 1000 MHz installation cable with CPR Eca is designed for high-performance network cabling. The S/FTP structure with FRNC-B sheath in orange supports stable data connections up to 1000 MHz and is 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.
- FRNC-B jacket in orange with RAL 2003 and Euroclass Eca – Complements the installation with a halogen-free version according to EN 60754-1/2 and complies with RoHS 2011/65/UE.

The cable is designed as a simplex and uses 23/1 conductors with 8 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 installation in structured network environments.

### Technical details

- Brand: INFRALAN
- Category: 7

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## INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Eca orange, 60m

- 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: 8
- Type: simplex
- 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: Eca
- Halogen-free: according to EN 60754-1/2
- Shield over stranding: braid

| Technical properties      |                                |
|---------------------------|--------------------------------|
| AWG-size                  | 23/1                           |
| Armour                    | none                           |
| Bending radius (dynamic)  | 40 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, bare                   |
| Core identification       | Colour                         |
| Core insulation           | Foam-Skin-PE                   |
| Coupling attenuation      | ≥ 80 dB                        |
| Coupling attenuation Type | Type 2                         |
| Diameter conductor        | 0.56 mm                        |
| Directive/Regulation      | RoHS 2011/65/UE                |
| Euro class                | Eca                            |
| Flame retardant           | acc. to EN 60332-1             |
| Halogen free              | acc. to EN 60754-1/2           |

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|                                 |                              |
|---------------------------------|------------------------------|
| Harmonised Standard             | EN 50575                     |
| Installation standard           | EN 50174                     |
| Insulation resistance (500V)    | ≥ 2000 MOhm/km               |
| Loop resistance                 | 154 Ohm/km                   |
| Low smoke                       | acc. to EN 61034             |
| Material outer sheath           | FRNC-B                       |
| Max. Frequency                  | MHz MHz                      |
| NVP value                       | 79 %                         |
| Nominal cross section conductor | 0.26 mm²                     |
| 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                    | Nein                         |

### Available variants

| ArtNr.        | Bezeichnung                                               | Colour outer sheath | Length of | Number of cores | RAL colour | Type    | Copper weight | Weight     | Max. tractive force | Outer diameter approx. | Fire load |
|---------------|-----------------------------------------------------------|---------------------|-----------|-----------------|------------|---------|---------------|------------|---------------------|------------------------|-----------|
| 99980.1-CPR   | INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Eca orange       | orange              | 1.0 m     | 8               | RAL 2003   | simplex | 26 kg/km      | 54.5 kg/km | 110 N               | 7.3 mm                 | 590 MJ/km |
| 99980.100-CPR | INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Eca orange, 100m | orange              | 100.0 m   | 8               | RAL 2003   | simplex | 26 kg/km      | 54.5 kg/km | 110 N               | 7.3 mm                 | 590 MJ/km |

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# DATASHEET

## INFRALAN® Cat.7 1000 AWG23, S/FTP 4P CPR Eca orange, 60m

|                 |                                                                       |        |            |     |             |         |             |                |       |                  |               |
|-----------------|-----------------------------------------------------------------------|--------|------------|-----|-------------|---------|-------------|----------------|-------|------------------|---------------|
| 99980.250-CPR   | INFRALAN®<br>Cat.7 1000<br>AWG23, S/FTP<br>4P CPR Eca<br>orange, 250m | orange | 250.0<br>m | 8   | RAL<br>2003 | simplex | 26<br>kg/km | 54.5<br>kg/km  | 110 N | 7.3 mm           | 590<br>MJ/km  |
| 99980.500-CPR   | INFRALAN®<br>Cat.7 1000<br>AWG23, S/FTP<br>4P CPR Eca<br>orange, 500m | orange | 500.0<br>m | 8   | RAL<br>2003 | simplex | 26<br>kg/km | 54.5<br>kg/km  | 110 N | 7.3 mm           | 590<br>MJ/km  |
| 99980.60-CPR    | INFRALAN®<br>Cat.7 1000<br>AWG23, S/FTP<br>4P CPR Eca<br>orange, 60m  | orange | 60.0 m     | 8   | RAL<br>2003 | simplex | 26<br>kg/km | 54.5<br>kg/km  | 110 N | 7.3 mm           | 590<br>MJ/km  |
| 99980DX.100-CPR | INFRALAN®<br>Cat.7 1000<br>AWG23, S/FTP<br>8P CPR Eca<br>orange, 100m | orange | 100.0<br>m | 2x8 | RAL<br>2003 | duplex  | 52<br>kg/km | 109.2<br>kg/km | 220 N | 7.2 x 15.0<br>mm | 1190<br>MJ/km |
| 99980DX.25-CPR  | INFRALAN®<br>Cat.7 1000<br>AWG23, S/FTP<br>8P CPR Eca<br>orange, 25m  | orange | 25.0 m     | 2x8 | RAL<br>2003 | duplex  | 52<br>kg/km | 109.2<br>kg/km | 220 N | 7.2 x 15.0<br>mm | 1190<br>MJ/km |
| 99980DX.500-CPR | INFRALAN®<br>Cat.7 1000<br>AWG23, S/FTP<br>8P CPR Eca<br>orange, 500m | orange | 500.0<br>m | 2x8 | RAL<br>2003 | duplex  | 52<br>kg/km | 109.2<br>kg/km | 220 N | 7.2 x 15.0<br>mm | 1190<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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