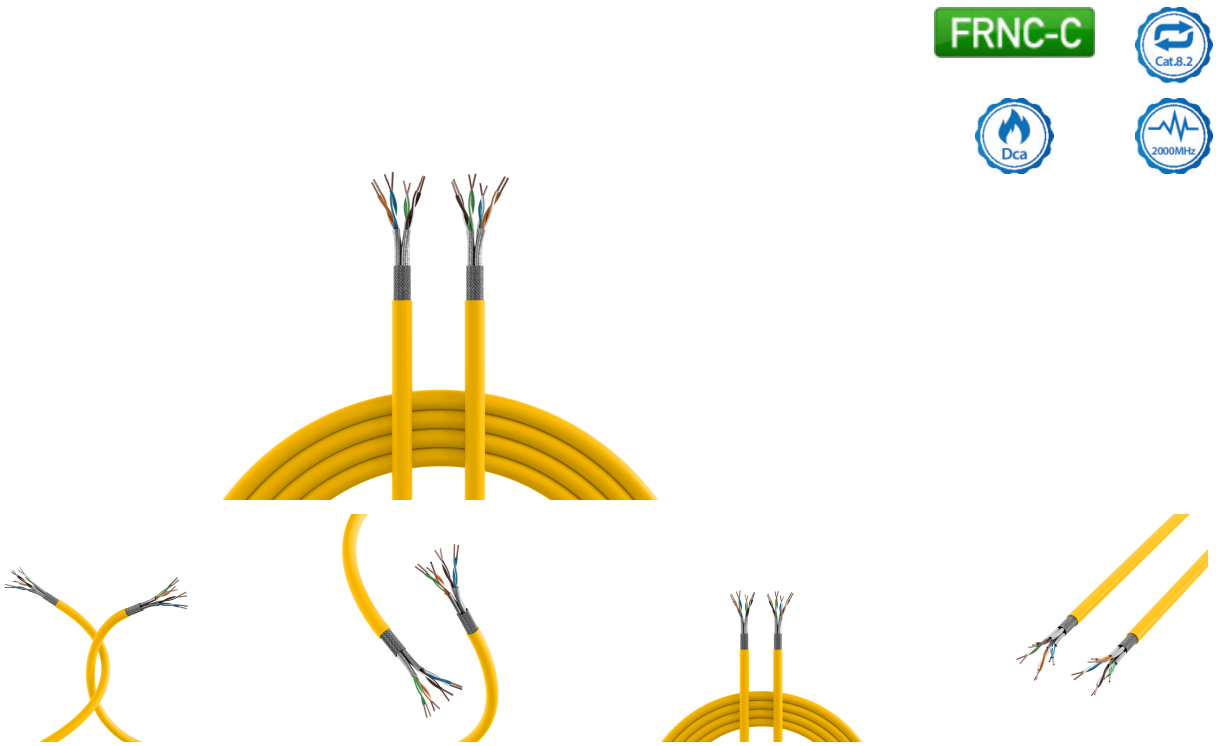
# DATASHEET

## UC FUTURE C22 Cat.8.2 S/FTP 4P 2GHz, LSHF-FR 100m




### General data

The Cat.8.2 S/FTP 2000 MHz AWG22 installation cable from EFB-Elektronik is designed for high-performance network cabling. The S/FTP design with FRNC-C jacket in yellow supports stable data connections up to 2000 MHz and is therefore suitable for modern installations with high bandwidth.

• 2000 MHz Cat.8.2 bandwidth – Supports transmission standards from IEEE 802.3 10Mbit to 40Gbit and creates scope for high-performance networks.
• S/FTP construction with braid shielding – Reduces interference and supports stable signal quality in demanding installation environments.
• FRNC-C jacket in yellow according to RAL 1021 – Is halogen-free according to EN 60754-1/2, complies with RoHS 2011/65/UE and complements the installation with a contemporary choice of materials.

The cable is designed as a simplex and uses 22/1 conductors with 8 wires. The dynamic bending radius of 40 mm facilitates installation. The braided shielding supports decoupling from external influences. 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: EFB-Elektronik
• Category: Cat.8.2
• Transmission standards: IEEE 802.3 10Mbit to 40Gbit

**This datasheet was created automatically on 01-11-2026 . Technical changes reserved.**

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- Max. frequency: 2000 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: 8
- Type: simplex
- Sheath material: FRNC-C
- Sheath colour: Yellow
- RAL colour: RAL 1021
- Armour: without
- Bend radius (dynamic): 40 mm
- Directive/Regulation: RoHS 2011/65/UE
- Euroclass: Dca
- 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 | Draka UC FUTURE C22 Cat.8.2 |
| Cabling standards | ISO/IEC 11801 |
| Category | 8.2 |
| 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 | 0.64 mm |
| Directive/Regulation | RoHS 2011/65/UE |
| Euro class | Dca |
| 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 |

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| | |
|---|---|
| Loop resistance | 130 Ohm/km |
| Low smoke | acc. to EN 61034-2 |
| Material outer sheath | FRNC-C |
| Max. Freuqency | 2000 MHz |
| NVP value | 73 % |
| 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 | 1 % |
| 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 40Gbit |
| UV resistant | Nein |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 99827.1 | UC FUTURE C22 Cat.8.2 S/FTP 4P 2GHz, LSHF-FR | yellow | 1.0 m | 8 | RAL 1021 | simplex | 47 kg/km | 80 kg/km | 340 N | 8.5 mm | 674 MJ/km |
| 99827.100 | UC FUTURE C22 Cat.8.2 S/FTP 4P 2GHz, LSHF-FR 100m | yellow | 100.0 m | 8 | RAL 1021 | simplex | 47 kg/km | 80 kg/km | 340 N | 8.5 mm | 674 MJ/km |
| 99827.500 | UC FUTURE C22 Cat.8.2 S/FTP 4P 2GHz,LSHF-FR 500m | yellow | 500.0 m | 8 | RAL 1021 | simplex | 47 kg/km | 80 kg/km | 340 N | 8.5 mm | 674 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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