

Data sheet

UC900 SS23 Cat.7 S/FTP 2x4P LSHF-FR 500 m, class C_{ca}

P/N

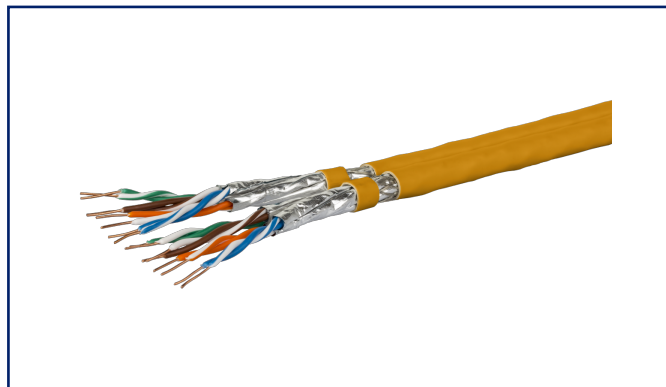
130842D7SFCFD

EAN 4065624024210

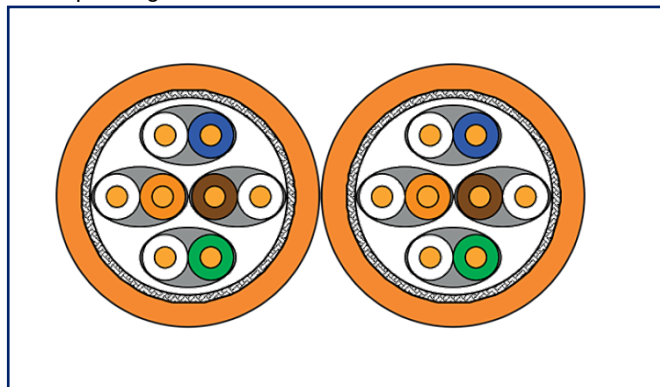
2025/08/15

Version: A

Illustrations



Principle diagram



See enlarged drawings at the end of document

Product specification

- Duplex installation cable
- shielded installation cable Cat.7 AWG 23
- 2x4 pairs (PiMF)
- color of the cable jacket: orange
- coupling attenuation: 85 dB
- applicable standards: EN 50173-1, ISO/IEC 11801, IEC 61156-5, EN50288-4-1
- cable jacket: LSHF-FR
- flame-retardant to: IEC 60332-1, IEC 60332-1-2, IEC60332-3-24, IEC 61034, 61034-2
- fire behaviour: Class C_{ca} s1a d1 a1
- no stock available



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Technical Data

General Data

Fields of application	Primary (Campus) Secondary (Riser) Tertiary (Horizontal)
Applications	IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T IEEE 802.5: ISDN, TPDDI, ATM, CATV, IP Cameras, Broadband Video, SOHO-Cabling Power over Ethernet (PoE) / Type 1-4
Kabelaufbau	
Cable Type	S/FTP
duplex	yes
Conductor material	Copper
Conductor class	Cl.1 = solid
Conductor surface	blank
Conductor diameter (mm)	0.57 mm
Conductor diameter (inch)	0.022 in.
AWG size	23
Core number	8
Number of twisting elements	2 x 4
Twisting element	Pair
Shield over twisting element	braid
Twisted stranding	Bundle
Shield over twisted stranding	Foil
Jacket color	orange
Außendurchmesser	
Cable sheath diameter	7.5 mm - 15.2 mm
Cable sheath diameter	0.295 in. - 0.598 in.

Mechanical data

Tensile force	300 N
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Brandeigenschaften

Flame retardant according to IEC 60332-1	yes
Flame retardant according to IEC 60332-1-2	yes
Flame retardant according to IEC 60332-3-24	yes
Low smoke according to EN IEC 61034	yes
Low smoke according to EN IEC 61034-2	yes
Halogen-free according to EN IEC 60754-1	yes
Halogen-free according to EN IEC 60754-2	yes
Fire behavior according to EN 13501-6: Class	C _{ca}
Fire behavior according to EN 13501-6: Smoke development	s1a
Fire behavior according to EN 13501-6: Drip-off behavior	d1
Fire behavior according to EN 13501-6: Acid development	a1
Fire load	0.327 kWh/m
Fire load	1180 MJ/km

Electrical characteristics

Category	7
NVP value	79 %
Isolation class according to EN 50174	d
Loop resistance	154 Ohm/km
Coupling attenuation	85 dB
Signal propagation delay	427 ns/100 m
Delay skew	12 ns/100 m
Insulation resistance	5000 MOhm
Test voltage (DC, 1 min) Core/core	1000 V DC

Anwendungseigenschaften / Umgebungsbedingungen

Permitted type of installation in the ground	Installation pipe for underground installation
Functional integrity according to IEC 60331-23	no
Oil-resistant according to EN IEC 60811-404	no
Min. permissible bending radius, flexible use/free movement (mm)	60 mm
Min. permissible bending radius, stationary use/fixed installation (mm)	30 mm



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Anwendungseigenschaften / Umgebungsbedingungen

Min. permissible bending radius, flexible use/free movement (inch)	2.362 in.
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Min. permissible bending radius, stationary use/fixed installation (inch)	1.181 in.
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Zulässige Kabelaußentemperatur bei Montage/Handling

Zulässige Kabelaußentemperatur bei Montage/Handling	-20 °C - 60 °C
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Permissible external cable temperature during installation/handling	-4 °F - 140 °F
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Zulässige Kabelaußentemperatur nach Montage ohne Erschütterung

Permissible external cable temperature after installation without vibration	0 °C - 50 °C
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Permissible external cable temperature after installation without vibration	32 °F - 122 °F
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Materials and material properties

Material - core insulation	Foam-Skin Polyethylen
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Material - protective jacket	Halogen-free, flame-retardant sheath material; LSHF-FR
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Material - Pair shield	plastic film
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Material - Main shield	Cu (copper) braid
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Material - Main shield finish	Copper, tinned
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Geltende Normen

General requirements	ISO/IEC 11801 DIN EN 50173-1
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PoE	IEEE 802.3af
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PoE plus	IEEE 802.3at
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UPoE	yes
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4PPoE	IEEE 802.3bt
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Multi-core metallic data & control cables for analog & digital transmission	DIN EN 50288-4-1 IEC 61156-5
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Classifications

ETIM 8.0	EC003249
ETIM 9.0	EC003249
ETIM 10.0	EC003249

Packing details

Type of packaging	500 meter / drum
GTIN13	4065624024210

Technical offer data

Weight	130 kg/km
Copper index	76 kg/km

Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).



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