

DATASHEET

UC FUTURE C22 Cat.8.2 S/FTP 4P 2GHz,LSHF-FR 500m



General data

The installation cable 99827.x is constructed for transmissions up to **2000 MHz** and exceeds with the electrical transmission properties the requirements of the category 8 and lower. With this cable transmission rates up to **40 GBit** according to IEEE 802.3 are possible. Application: Primary (campus), Secondary (riser), Tertiary (horizontal)

Allgemeine Daten

Halogen free	acc. EN 60754-1/2
Conductor category	Class 1 = solid
UV resistance	no
Stranding element	Pairs
Core identification	Colour
Material outer sheath	FRNC-C
Category	8.2

Mechanische Eigenschaften

Bending radius (dynamic)	8 x OD
Bending radius (static)	4 x OD

Kabelaufbau

Conductor material	Cu, tinned
Diameter conductor	0.64 mm
AWG-size	22/1
Cable Construction	S/FTP

Kabelmantel

Flame retardant	According to IEC/EN 60332-3-24
Euro class	Dca
Low smoke	acc. EN 61034-2

Umgebungsbedingungen

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Permitted cable outer temperature during assembling/handling	0 - 50 °C
Permitted cable outer temperature after assembling without vibration	-20 - 60 °C

Elektrische Eigenschaften

Screen over stranding	braiding
NVP value	73 %
Capacity to earth	nom. 43 nF/km
Test voltage DC, 1 min	1000 V
Core insulation	Foam-Skin-PE
Screen over stranding element	Foil
Transfer impedance at 1MHz	5 mOhm/m
Transfer impedance at 30MHz	10 mOhm/m
Resistance unbalance	1 %
Characteristic impedance	100 ± 5 Ohm
Separation class acc. EN50174-2	D
PoE	acc. to IEEE 802.3af;yes;acc. to IEEE 802.3at
Delay skew	20 ns/100m
Max. Frequency	2000MHz MHz
Transfer impedance at 10MHz	5 mOhm/m
Loop resistance	130 Ohm/km
Coupling attenuation Type	Type 1
Transfer impedance at 100MHz	20 mOhm/m
Insulation resistance (500V)	≥ 5000 MOhm/km
Coupling attenuation	90 dB

Normen, Zulassungen, Zertifizierungen

Low smoke (according to EN 61034-2)	True
Installation standard	EN 50174
Cabling standards	EN 50173-1;ISO/IEC 11801
Harmonised Standard	EN 50575
Halogen free (acc. EN 50267-2-2)	True
Transmission standards	IEEE 802.3 10Mbit bis 40Gbit
Cable	IEC 61156-5;EN 50288-9-1

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Available variants

ArtNr.	Bezeichnung	Colour outer sheath	Length of	Number of cores	RAL colour	Type	Cu-Zahl	Gewicht	Max. Zugkraft ca.	Außendurchmesser	Brandlast
99827.1	UC FUTURE C22 Cat.8.2 S/FTP 4P 2GHz, LSHF-FR	yellow	1.0 m	8	RAL1021	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	RAL1021	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	RAL1021	simplex	47 kg/km	80 kg/km	340 N	8,5 mm	674 MJ/km

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