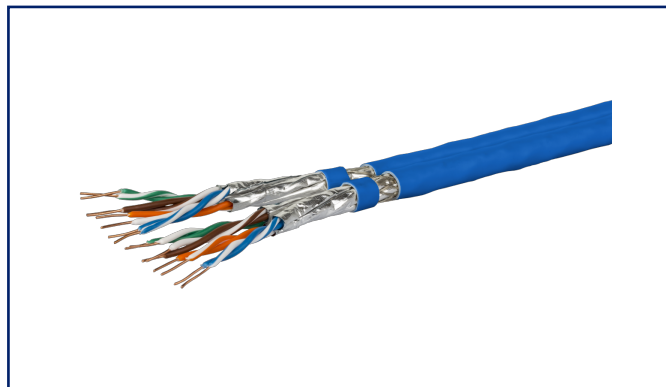


Data sheet

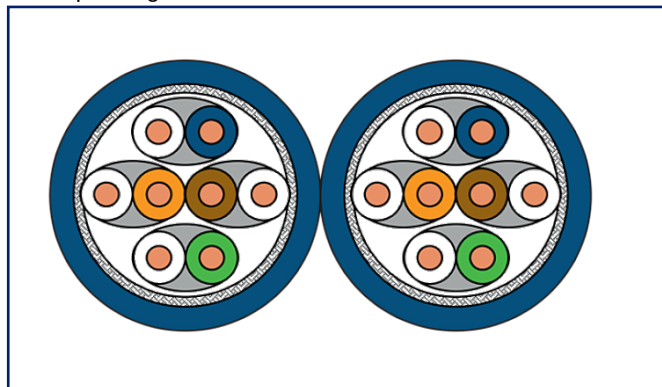
**MC GC1300 pro22 Cat.7_A S/FTP 2x4P LSHF-FR 500 m,
class D_{ca} s1 d1 a1**

P/N
1308427B34143
EAN **4251394604008**
2025/07/09
Version: AE

Illustrations



Principle diagram



See enlarged drawings at the end of document

Product specification

- 25 GBit / 10 GBit installation cable, duplex
- installation cable Cat.7_A AWG 22 S/FTP with wires shielded in pairs
- 2x4 pairs (PIMF)
- pair shield: plastic foil with aluminum coating
- overall shield: tinned copper braid
- outer diameter 15.80 - 16.40 mm
- color of the cable jacket: blue
- coupling attenuation greater than or equal to 85 dB
- electrical data tested up to 1500 MHz
- GHMT Cat.7_A PVP certified
- applicable standards: EN 50173-1; ISO/IEC 11801; EN 50288-9-1 and IEC 61156-5
- cable jacket: LSHF-FR (LSOH-FR)
- flame-retardant to IEC 60332-1; IEC 60332-3-24; IEC 60754-2; IEC 61034 and IEC 61156-7
- fire behaviour: Class D_{ca} s1 d1 a1 acc. to EN 50399 (classification acc. to EN 13501-6)
- Delivery units: on drum - sold by meter, 500 m/1640 ft and 1000 m/3280 ft, as cable ring - 100 m/ 328 ft



Data sheet

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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)	0.64 mm
Conductor diameter (inch)	0.025 in.
AWG size	22
Core number	8
Number of twisting elements	2 x 4
Twisting element	Pair
Shield over twisting element	Foil
Twisted stranding	Bundle
Shield over twisted stranding	braid
Jacket color	blue
Außendurchmesser	
Cable sheath diameter	15.8 mm - 16.40 mm
Cable sheath diameter	0.662 in. - 0.645 in.

Mechanical data

Tensile force	300 N
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Technical Data

Brandeigenschaften

Flame retardant according to IEC 60332-1-2	yes
Flame retardant according to IEC 60332-3-24	yes
Low smoke according to EN IEC 61034-2	yes
Halogen-free according to EN IEC 60754-2	yes
Fire behavior according to EN 13501-6: Class	Dca
Fire behavior according to EN 13501-6: Smoke development	s1
Fire behavior according to EN 13501-6: Drip-off behavior	d1
Fire behavior according to EN 13501-6: Acid development	a1
Fire load	0.358 kWh/m
Fire load	1290 MJ/km

Electrical characteristics

Category	7 _A
NVP value	79 %
Isolation class according to EN 50174	d
Loop resistance	128 Ohm
Transfer impedance 10 MHz	5 mOhm/m
Coupling attenuation	min. 85 dB
Signal propagation delay	427 ns/100 m
Delay skew	12 ns/100 m
Insulation resistance	5000 MOhm.km
Test voltage (DC, 1 min) Core/core	1000 V DC
Test voltage (DC, 1 min) Core/shield	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 with forced guidance (mm)	60.4 mm
Min. permissible bending radius, flexible use/free movement (mm)	60.4 mm
Min. permissible bending radius, stationary use/fixed installation (mm)	30.4 mm



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**MC GC1300 pro22 Cat.7_A S/FTP 2x4P LSHF-FR 500 m,
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Technical Data

Anwendungseigenschaften / Umgebungsbedingungen

Min. permissible bending radius, flexible use with forced guidance (inch)	2.378 in.
Min. permissible bending radius, flexible use/free movement (inch)	2.378 in.
Min. permissible bending radius, stationary use/fixed installation (inch)	1.197 in.
Zulässige Kabelaußentemperatur bei Montage/Handling	
Zulässige Kabelaußentemperatur bei Montage/Handling	0 °C - 50 °C
Permissible external cable temperature during installation/handling	32 °F - 122 °F
Zulässige Kabelaußentemperatur nach Montage ohne Erschütterung	
Permissible external cable temperature after installation without vibration	-20 °C - 60 °C
Permissible external cable temperature after installation without vibration	-4 °F - 140 °F
UV-resistance	no

Materials and material properties

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

Geltende Normen

General requirements	ISO/IEC 11801 DIN EN 50173-1
PoE	IEEE 802.3af
PoE plus	IEEE 802.3at
UPoE	yes
4PPoE	IEEE 802.3bt
Multi-core metallic data & control cables for analog & digital transmission	DIN EN 50288-9-1 IEC 61156-5 IEC 61156-7



Data sheet

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Certifications

GHMT Type Approval		2 Connector Permanent Link, Class EA 2 Connector Channel Link, 30 m Class 1 up to 1,25 GHz
GHMT PVP		yes

Classifications

ETIM 8.0	EC003249
ETIM 9.0	EC003249
ETIM 10.0	EC003249

Packing details

Type of packaging	500 meter / drum
GTIN13	4251394604008

Technical offer data

Weight	123 kg/km
Copper index	70 kg

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.).



Data sheet

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Accessories

P/N	Designation
140302-01-E	Jokari dismantle tool



Data sheet

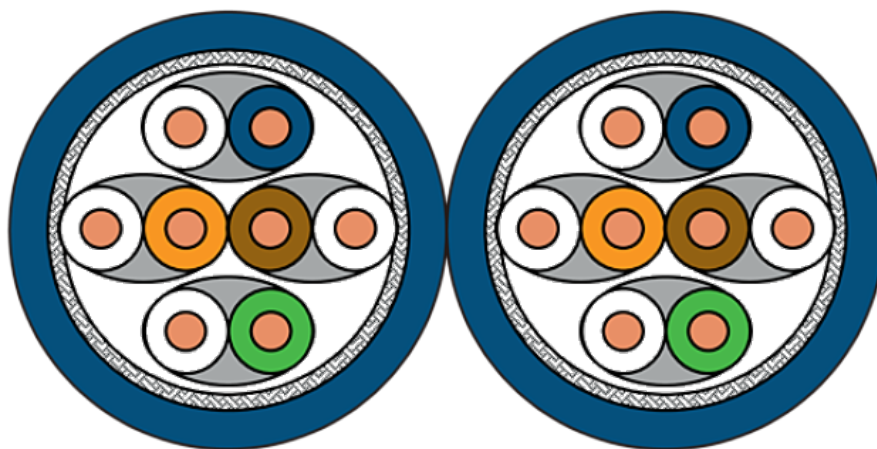
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Elektrische Daten

Cat.7_A Übertragungseigenschaften bei 20°C (Nominal)

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ACRF (dB/100m)	PS-ACRF (dB/100m)	Return loss (dB)
1	1,7	100	97	98	95	100	97	23
4	3,2	100	97	97	94	97	94	25
10	5,1	100	97	95	92	95	92	25
16	6,4	100	97	94	91	90	87	30
20	7,1	100	97	93	90	90	87	30
31,2	8,9	100	97	91	88	90	87	29
62,5	12,7	100	97	87	84	85	82	27
100	16	100	97	84	81	80	77	25
155	20	95	92	75	72	78	75	24
200	22,8	93	90	70	67	75	72	23
250	25,5	91	88	66	63	69	66	22
300	28	90	87	62	59	65	62	22
600	40	86	83	46	43	45	42	20
1000	52,1	82	79	30	27	40	37	20
1200	57,2	81	78	24	21	35	32	19
1400	62	80	77	18	15	30	27	19
1500	64,3	80	77	16	13	28	25	18

