Data sheet

MC GC1300 pro22 Cat.7_A S/FTP 4P LSHF-FR 100 m, class D_{ca} s1 d1 a1

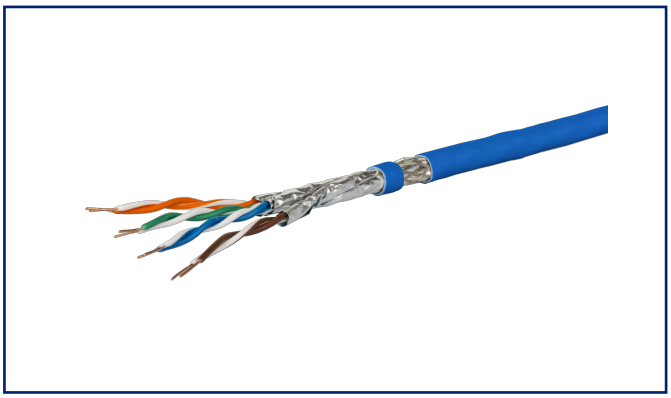
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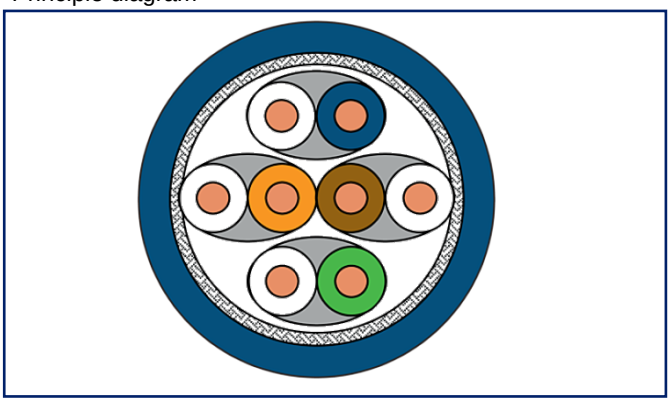
2026/10/21

Version: J

Illustrations



Principle diagram



See enlarged drawings at the end of document

Product specification

- 25 GBit / 10 GBit installation cable, simplex
- installation cable Cat.7_A AWG 22 S/FTP with wires shielded in pairs
- 4 pairs (PiMF)
- pair shield: plastic foil with aluminum coating
- overall shield: tinned copper braid
- outer diameter 7.60 - 8.10 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, IEC 61156-5 and IEC 61156-7
- cable jacket: LSHF-FR (LSOH-FR)
- flame-retardant to IEC 60332-1, IEC 60332-3-24, IEC 60754-2, IEC 61034 and EN 50399
- fire behaviour: Class D_{ca} s1 d1 a1 acc. to EN 50399 (classification acc. to EN 13501-6)
- Delivery unit: on drum - 100 m

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P/N 1308427B34145
EAN 4251394622118
2026/10/21
Version: J

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	4
Twisting element	Pairs
Shield over twisting element	Foil
Twisted stranding	Bundle
Shield over twisted stranding	braid
Jacket color	blue
Außendurchmesser	
Cable sheath diameter	7.6 mm - 8.10 mm
Cable sheath diameter	0.299 in. - 0.318 in.
Mechanical data	
Tensile force	150 N

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P/N 1308427B34145
EAN 4251394622118
2026/10/21
Version: J

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	0.179 kWh/m
Fire load	645 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	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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P/N 1308427B34145
EAN 4251394622118
2026/10/21
Version: J

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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

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P/N 1308427B34145
EAN 4251394622118
2026/10/21
Version: J

Technical Data

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	100 meter / Cable ring
GTIN13	4251394622118

Technical offer data

Weight	68.2 kg
Copper index	35 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.

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P/N 1308427B34145
EAN 4251394622118
2026/10/21
Version: J

Accessories

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

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P/N 1308427B34145
EAN 4251394622118
2026/10/21
Version: J

Accessories from

P/N	Designation
130E507032-E	$C6_A$ RJ45 field plug ultra short

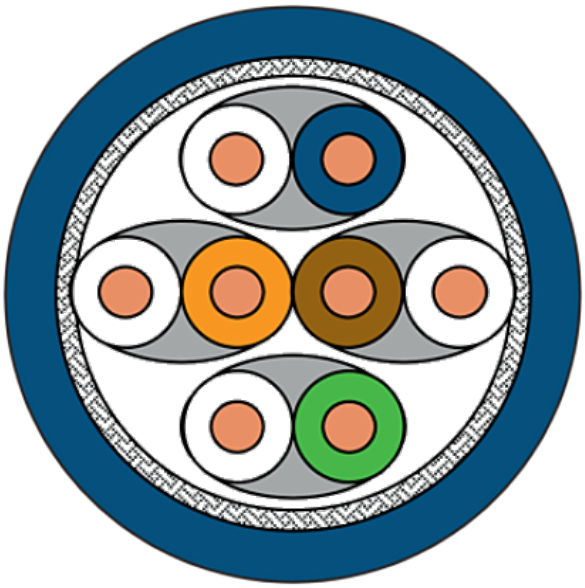
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P/N 1308427B34145
EAN 4251394622118
2026/10/21
Version: J

Illustrations

Principle diagram



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

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