

Data sheet

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MC GC1300 plus22 Cat.7_A S/FTP 4P LSHF 500 m, class D_{ca}

P/N

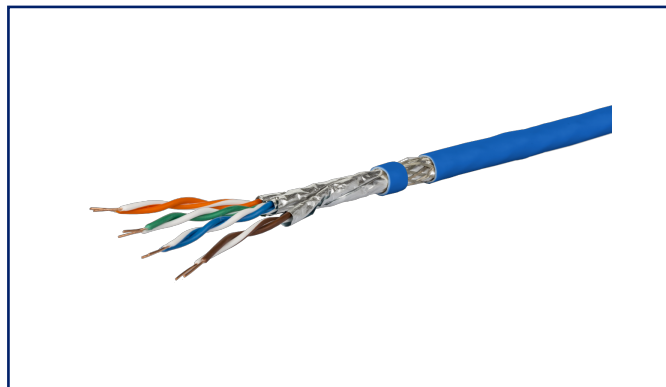
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EAN 4251394675916

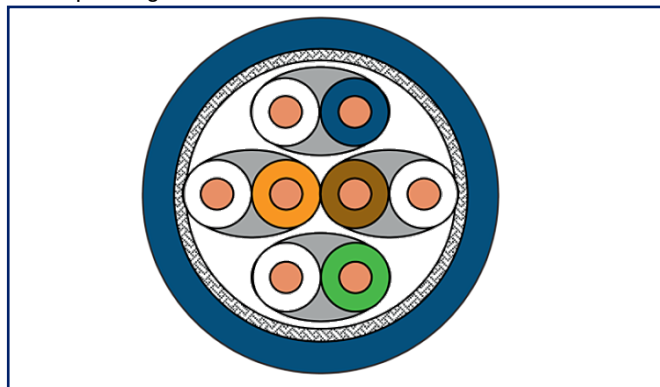
2025/08/15

Version: C

Illustrations



Principle diagram



See enlarged drawings at the end of document

Product specification

- 25 GBit / 10 GBit installation cable, simplex
- shielded installation cable Cat.7_A AWG 22/1
- 4 pairs (PiMF)
- color of the cable jacket: blue
- coupling attenuation greater than or equal to 80 dB
- applicable standards: EN 50173-1, ISO/IEC 11801, IEC 61156-5, IEC61156-7, EN50288-9-1
- cable jacket: LSHF
- flame-retardant to: IEC 60332-1, IEC 60754-2, IEC 61034
- fire behaviour: Class D_{ca} s2 d2 a1



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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; 25GBase-T up to 30 m according to ISO/IEC TR 11801-9905 (2018-02) 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
Conductor material	Copper
Conductor surface	blank
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
Außendurchmesser	
Cable sheath diameter	7.6 mm
Cable sheath diameter	0.299 in.
Mechanical data	
Tensile force	150 N
Brandeigenschaften	
Flame retardant according to IEC 60332-1	yes
Low smoke according to EN IEC 61034	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	s2
Fire behavior according to EN 13501-6: Drip-off behavior	d2
Fire behavior according to EN 13501-6: Acid development	a1
Fire load	0.179 kWh/m



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Brandeigenschaften

Fire load	645 MJ/km
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Electrical characteristics

Category	7 _A
NVP value	79 %
Isolation class according to EN 50174	d
Loop resistance	max. 128 Ohm/km
Resistance unbalance	max. 2 %
Transfer impedance 1 MHz	max. 12 mOhm/m
Transfer impedance 10 MHz	max. 10 mOhm/m
Transfer impedance 30 MHz	max. 30 mOhm/m
Mean characteristic impedance 100 MHz	100+/-5 Ohm
Coupling attenuation	min. 80 dB
Capacitance at 800 Hz	43 nF/km
Capacitance unbalance pair to ground	max. 1500 pF/km
Signal propagation delay	450 ns/100 m
Delay skew	15 ns/100 m
Insulation resistance	= 5000 MOhm
Test voltage (DC, 1 min) Core/core	1000 V DC
Test voltage (DC, 1 min) Core/shield	1000 V DC

Anwendungseigenschaften / Umgebungsbedingungen

Min. permissible bending radius, flexible use with forced guidance (mm)	60 mm
Min. permissible bending radius, flexible use/free movement (mm)	60 mm
Min. permissible bending radius, stationary use/fixed installation (mm)	30 mm
Min. permissible bending radius, flexible use with forced guidance (inch)	2.362 in.
Min. permissible bending radius, flexible use/free movement (inch)	2.362 in.
Min. permissible bending radius, stationary use/fixed installation (inch)	1.181 in.



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Anwendungseigenschaften / Umgebungsbedingungen

Zulässige Kabelaußentemperatur bei Montage/Handling

Zulässige Kabelaußentemperatur bei Montage/Handling	0 °C - 50 °C
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Permissible external cable temperature during installation/handling	32 °F - 122 °F
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Zulässige Kabelaußentemperatur nach Montage ohne Erschütterung

Permissible external cable temperature after installation without vibration	-20 °C - 60 °C
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Permissible external cable temperature after installation without vibration	-4 °F - 140 °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
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Material - Pair shield	plastic film
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Material - Pair shield finish	Al (Aluminium)
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Material - Main shield	Cu (copper) braid
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Material - Main shield finish	Sn
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Geltende Normen

Multi-core metallic data & control cables for analog & digital transmission	DIN EN 50288-9-1 IEC 61156-5 IEC 61156-7 EN 50173-1 ISO/IEC 11801
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Classifications

ETIM 8.0	EC003249
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ETIM 9.0	EC003249
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ETIM 10.0	EC003249
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Packing details

Type of packaging	500 meter / drum
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Technical Data**Technical offer data**

Weight	59 kg/km
Copper index	33 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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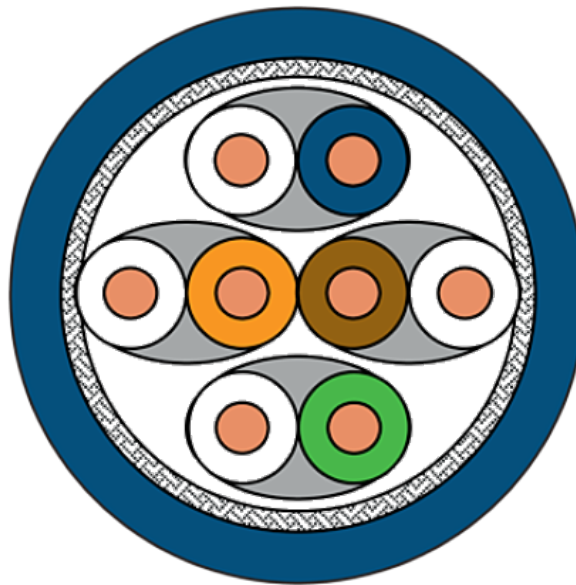
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Principle diagram



Elektrische Daten

Elektrische Daten (nominal)

gem. Cat.7_A (bei 20°C)

F (MHz)	Dämpfung (dB/100m)	NEXT (dB)	ACR (dB/100m)	Return loss (dB)	PS-NEXT (dB)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS- ELFEXT (dB/100m)
1	1,7	100	98	23	97	95	100	97
4	3,3	100	97	26	97	94	97	94
10	5,1	100	95	28	97	92	95	92
16	6,5	100	94	28	92	91	90	87
20	7,3	100	93	28	90	90	90	87
31,25	9,1	100	91	27	90	88	90	87
62,50	12,8	100	87	25	90	84	85	82
100	16,3	100	83	23	87	80	80	77
155	20,3	95	75	21	87	72	78	75
200	23,0	95	72	21	87	69	75	72
250	25,8	90	64	20	87	61	69	66
300	28,3	89	61	20	85	58	65	62
600	40,2	85	45	20	82	42	45	42
1000	52,1	83	31	20	80	28	40	37
1200	57,1	83	26	18	80	23	35	32
1400	61,3	81	21	16	78	18	30	27
1500	64,1	80	16	16	77	13	28	25

