

Data sheet

MC GC1200 pro22 Cat.7A S/FTP 4P LSHF-FR 1640 ft

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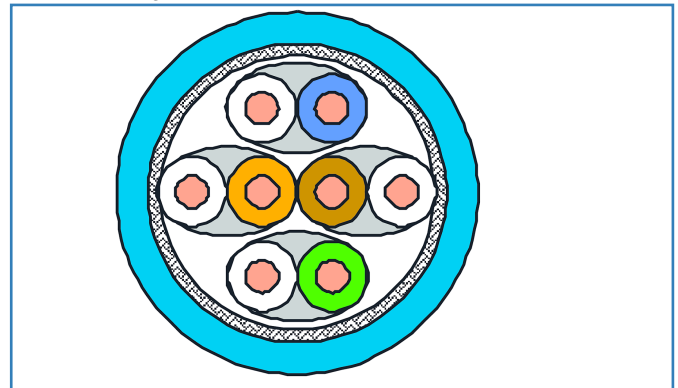
P/N
1308427A34241
EAN 4250184175438

2016-29-02

Illustrations



Principle diagram



Product specification

- 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 7.6 mm
- color of the cable jacket: blue
- coupling attenuation not less than 85 dB
- applicable standards: EN 50173-1:2011-09; ISO/IEC 11801 Ed.2.2:2011-06; EN 50288-9-1 and IEC 61156-5
- cable jacket: LSHF-FR (LSOH-FR)
- flame-retardant to IEC 60332-1/-2; IEC 60332-3-24; IEC 60754-1/-2 and IEC 61034-1/-2

Shipping Units:

sold by meter	on drum
1640 ft (500 m)	on drum
3280 ft (1000 m)	on drum

Technical Data

General Data

Design	Installation cables
Shielding	shielded
Transmission technology	Copper
Cable Type	S/FTP
Number of twisting elements	4
Twisting element	Pair
Color coding fiber/ wire(s)	weiß/orange, orange, weiß/grün, grün, weiß/braun, braun, weiß/blau, blau
Color	blue
Cable length (m)	500.00 m
Cable length (ft)	1640.42 ft
Weight	62.00 kg/km

Transmission characteristics

Category (ISO)	7 _A
Transmission rate up to 10 GBit	IEEE 802.3an
Transmission values (nominal)	see table

Connections/interfaces

Termination data, solid wire (min. - max.)	
Conductor cross section, solid wire	AWG 22/1
Conductor cross section, solid wire	0.324 mm ²
Conductor diameter, solid wire (bare copper)	0.643 mm
Conductor diameter, solid wire (bare copper)	0.025 in.
Core diameter (min. - max.)	
Core diameter (conductor with insulation)	1.5 mm
Core diameter (conductor with insulation)	0.059 in.
Cable sheath diameter (min. - max.)	
Cable sheath diameter	7.8 mm
Cable sheath diameter	0.307 in.
Copper index	30.5 kg/km



Technical Data

Electrical characteristics

Loop resistance	max. 116 Ohm/km
Transfer impedance 1 MHz	max. 5 mOhm/m
Transfer impedance 10 MHz	max. 5 mOhm/m
Transfer impedance 30 MHz	max. 8 mOhm/m
Characteristic impedance 1-100 MHz	100+/-5 Ohm
Coupling attenuation	min. 85 nF/km
Capacitance at 800 Hz	Nom 43 nF/km
Nominal velocity of propagation	ca.76 %
Delay skew	max. 15 ns/100 m
Dielectric strength conductor-conductor (primarily)	1000 V DC
Dielectric strength conductor-conductor (secondary)	1000 V DC
Dielectric strength conductor-shield	1000 V DC
Segregation classification	D

Mechanical characteristics

Tensile force	120 N
Fire load	0.180 kWh/m
Fire load	650 MJ/km
Bending radius without load	min. 35 mm
Bending radius without load	min. 1.37 in.
Bending radius with load	min. 70 mm
Bending radius with load	min. 2.75 in.

Materials and material properties

Material - Conductor	Cu (copper)
Material - Conductor Insulation	Foam-Skin Polyethylen
Material - Cable jacket	LSHF-FR (LSOH-FR)
Material - Pair shield	plastic film
Material - Main shield	Cu (copper) braid
Material - Main shield finish	Sn (tin)
Flame retardancy	yes

Technical Data

Environmental conditions

Temperature (min. - max.)

Temperature - Storage °C -20 - 60 °C

Temperature - Storage °F -4 - 140 °F

Temperature - Operating °C -20 - 60 °C

Temperature - Operating °F -4 - 140 °F

Temperature - Installation °C 0 - 50 °C

Temperature - Installation °F 122 °F

Approvals

RoHS compliant

The product meets the following standards

Generic cabling systems

General requirements ISO/IEC 11801 Ed.2.2: 2011-06 | DIN EN 50173-1: 2011-09

Multi-element metallic cables used in analogue and digital communication and control DIN EN 50288-9-1

Test for vertical flame propagation for a single insulated wire or cable DIN EN 60332-1-2

Measurement of smoke density of cables burning DIN EN 61034

Classifications

ETIM 5.0 EC000830

Packing details

Type of packaging Meter / drum

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Accessories

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



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Transmission values (nominal)

as per Cat. 7_A (bei 20°C)

FREQ MHz	Attenuation (dB/100m)	NEXT dB min.	PS-NEXT (dB)	ACR (dB/100 m)	PS-ACR (dB/100 m)	ELFEXT (dB/100 m)	PS-ELFEXT (dB/100 m)	Return loss (dB)
1.0	1.7	103	100	101	98	109	106	26
4.0	3.4	103	100	100	97	107	104	30
10.0	5.3	103	100	98	95	105	102	33
100.0	16.9	103	100	86	83	93	90	33
250.0	27	103	100	76	73	83	80	28
500.0	40	98	95	58	55	70	67	26
600.0	42	96	93	54	51	65	62	25
862.0	53	92	89	39	36	57	54	24
1000.0	56	90	87	34	31	54	51	23
1200.0	62	85	82	23	20	46	43	21

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