

P | Cabling

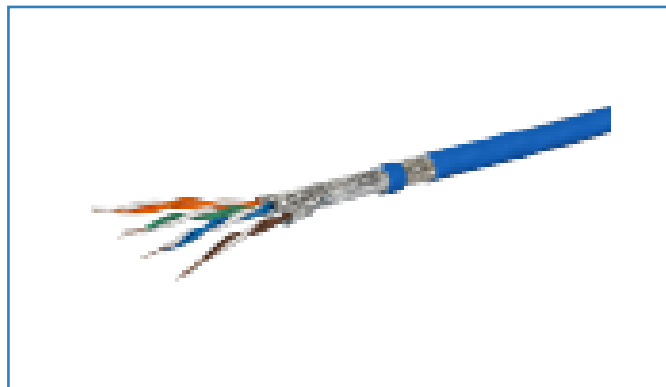
Data sheet

**MC GC1300 pro22 Cat.7_A S/FTP 4P LSHF-FR 3280 ft,
class D_{ca} s2 d2 a1**

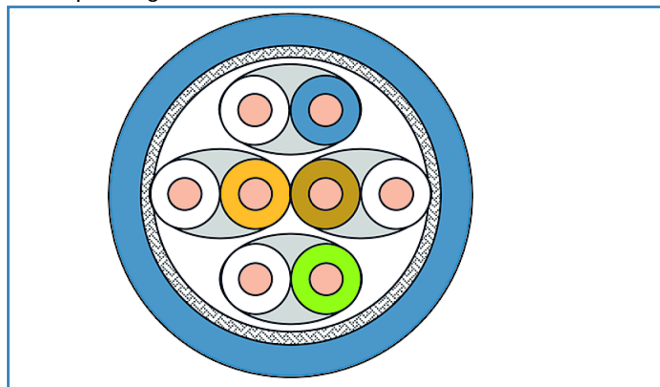
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P/N
1308427B34142
EAN 4251394603995
2020/06/09
Version: S

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 7.5 - 8.1 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 and IEC 61034
- fire behaviour: Class D_{ca} s2 d2 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



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Technical Data

General Data

Fields of application	Structured building cabling, Primary Secondary, Tertiary installation cable
Design	shielded
Shielding	Copper
Transmission technology	S/FTP
Cable Type	4
Number of twisting elements	Pair
Twisting element	white/orange, orange, white/green, green, white/brown, brown, white/blue, blue
Color coding fiber/ wire(s)	blue
Color	1000 m
Cable length (m)	3280 ft
Cable length (ft)	66.5 kg/km
Weight	+/- 0.76 %
Cable weight - tolerance	

Transmission characteristics

Category (ISO)	7A
PoE	IEEE 802.3af
PoE plus	IEEE 802.3at
Transmission rate up to 25 GBit (Fast Ethernet)	IEEE 802.3bq

Connections/interfaces

Termination data, solid wire (min. - max.)	
Conductor cross section, solid wire	AWG 22/1
Conductor diameter, solid wire (bare copper)	0.62 mm
Conductor diameter, solid wire (bare copper)	0.024 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	7.5 mm - 8.1 mm
Cable sheath diameter	0.295 in. - 0.319 in.
Copper index	35 kg/km



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Electrical characteristics	
Insulation resistance	min. 5000 MOhm
Loop resistance	max. 128 Ohm/km
Transfer impedance 1 MHz	5 mOhm/m
Transfer impedance 10 MHz	5 mOhm/m
Transfer impedance 30 MHz	9 mOhm/m
Characteristic impedance 1-100 MHz	100+/-5
Resistance unbalance	max. 2 %
Coupling attenuation	min. 85 dB
Capacitance at 800 Hz	43 nF/km
Capacitance unbalance pair to ground	max. 1500 pF/km
Nominal velocity of propagation	ca. 79 %
Signal propagation delay	450 ns/100 m
Delay skew	15 ns/100 m
Dielectric strength conductor-conductor (primarily)	1000 V DC
Dielectric strength conductor-shield	1000 V DC
Segregation classification	D
Mechanical data	
Tensile force	140 N
Fire load	660 MJ/km
Bending radius without load	min. 30 mm
Bending radius with load	min. 60 mm
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 - Pair shield finish	Al (Aluminium)
Material - Main shield	Cu (copper) braid
Material - Main shield finish	Sn (tin)
Flame retardancy	yes
RoHS	compliant

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Environmental conditions

Temperature (min. - max.)	
Temperature - Storage °C	-20 °C - 60 °C
Temperature - Storage °F	-4 °F - 140 °F
Temperature - Operating °C	-20 °C - 60 °C
Temperature - Operating °F	-4 °F - 140 °F
Temperature - Installation Å°C	50 °C
Temperature - Installation Å°F	32 °F - 122 °F

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	



The product meets the following standards

Generic cabling systems	
General requirements	ISO/IEC 11801-1 DIN EN 50173-1 ANSI/TIA-568.2-D
Multi-element metallic cables used in analogue and digital communication an	DIN EN 50288-9-1
Common test methods for cables under fire conditions	
Fire behaviour - class	fire behaviour: Class D _{ca} s2 d2 a1 acc. to EN 50399 (classification acc. to EN 13501-6)
Test for vertical flame propagation for a single insulated wire or cable	IEC 60332-1
Test for vertical flame spread of vertically-mounted bunched wires or cable	IEC 60332-3-24
Measurement of smoke density of cables burning	IEC 61034
Determination of acidity (by measuring the pH value) and conductivity	IEC 60754-2

Classifications

ETIM 7.0	EC003249
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Packing details

Type of packaging	1000 meter / drum
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Accessories

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



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