

P | Cabling

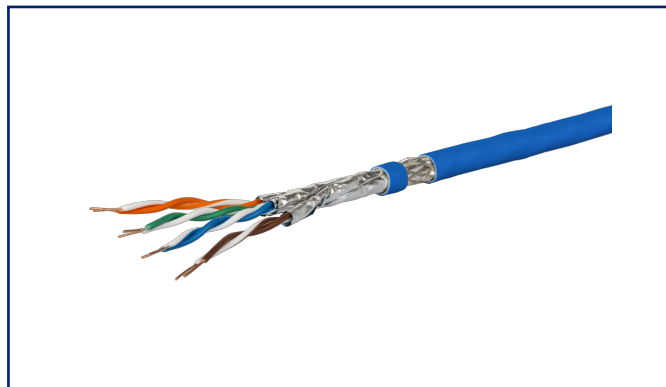
Data sheet

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

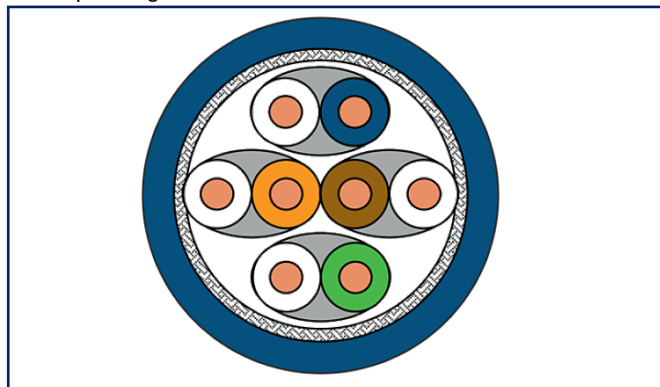
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P/N
1308427B34142
EAN 4251394603995
2023/05/24
Version: W

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 unit: on drum - 1000 m/3280 ft



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Technical Data

General Data

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

Transmission characteristics

Category (ISO)	7A
PoE	IEEE 802.3af
PoE plus	IEEE 802.3at
4PPoE	IEEE 802.3bt
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.



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Connections/interfaces

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

Electrical characteristics

Loop resistance max. 128 Ohm/km

Insulation resistance min. 5000 MOhm

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 0.183 kWh/m

Fire load 660 MJ/km

Bending radius without load min. 30 mm

Bending radius without load min. 1.181 in.

Bending radius with load min. 60 mm

Bending radius with load min. 2.362 in.



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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
Halogen free	yes
RoHS	compliant

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 °C	0 °C - 50 °C
Temperature - Installation °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		yes

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Standards/Regulations

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 and control

DIN EN 50288-9-1

Common test methods for cables under fire conditions

Fire behaviour - class (EN 50399)

fire behaviour: Class D_{ca} s2 d2 a1 acc. 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 cables

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

ETIM 8.0

EC003249

ETIM 9.0

EC003249

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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