

P | Cabling

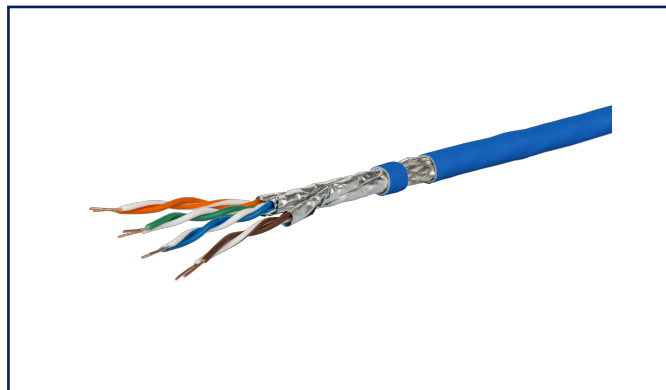
Data sheet

**MC GC1300 pro22 Cat.7_A S/FTP 4P LSHF-FR 328 ft,
class D_{ca} s2 d2 a1**

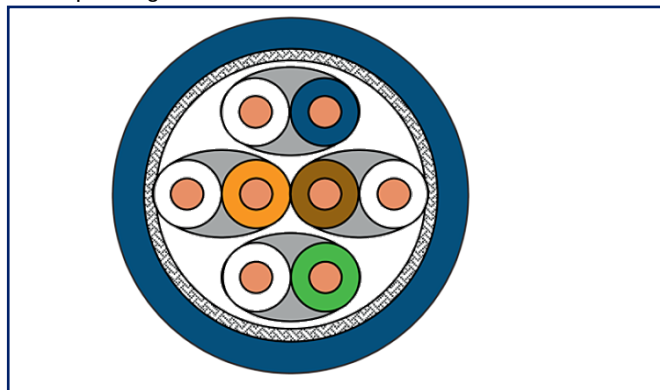
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P/N
1308427B34145
EAN 4251394622118
2021/06/18
Version: B

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

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) 100 m

Cable length (ft) 328 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.

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
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 °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

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 and control DIN EN 50288-9-1

Common test methods for cables under fire conditions

Fire behaviour - class (EN 50399)  fire behaviour: Class Dca 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 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

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Packing details

Type of packaging	100 meter / Cable ring
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Accessories

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

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