

P | Cabling

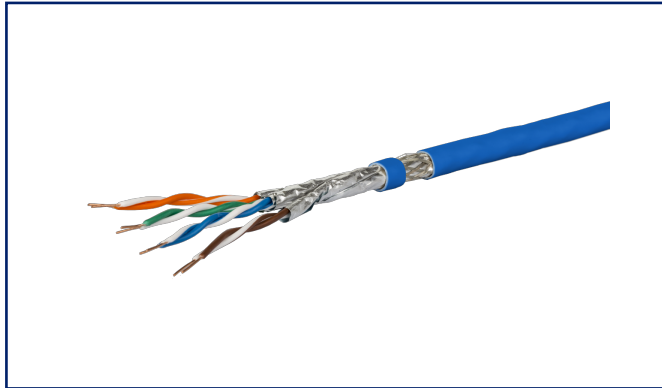
Data sheet

**MC GC1300 pro22 Cat.7_A S/FTP 4P LSHF-FR 1640 ft,
class D_{ca} s2 d2 a1**

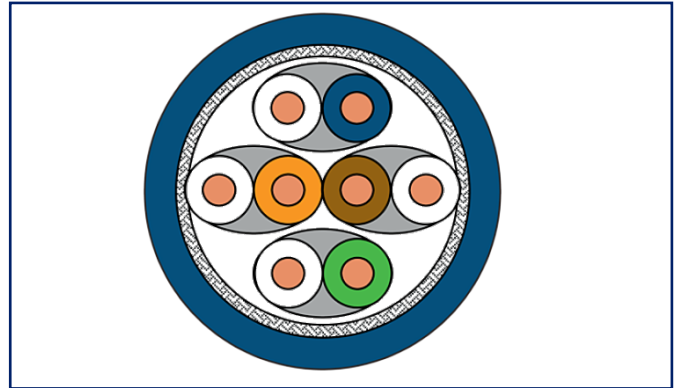
Page 1/7

P/N
1308427B34141
EAN 4251394603988
2023/05/24
Version: V

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



P | Cabling

Data sheet

Page 2/7

**MC GC1300 pro22 Cat.7_A S/FTP 4P LSHF-FR 1640 ft,
class D_{ca} s2 d2 a1**

P/N
1308427B34141
EAN 4251394603988
2023/05/24
Version: V

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)	500 m
Cable length (ft)	1640 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.

P | Cabling

Data sheet

Page 3/7

**MC GC1300 pro22 Cat.7_A S/FTP 4P LSHF-FR 1640 ft,
class D_{ca} s2 d2 a1**

P/N
1308427B34141
EAN 4251394603988
2023/05/24
Version: V

Technical Data

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.

P | Cabling

Data sheet

Page 4/7

**MC GC1300 pro22 Cat.7_A S/FTP 4P LSHF-FR 1640 ft,
class D_{ca} s2 d2 a1**

P/N

1308427B34141

EAN 4251394603988

2023/05/24

Version: V

Technical Data

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

P | Cabling

Data sheet

Page 5/7

**MC GC1300 pro22 Cat.7_A S/FTP 4P LSHF-FR 1640 ft,
class D_{ca} s2 d2 a1**

P/N
1308427B34141
EAN 4251394603988
2023/05/24
Version: V

Technical Data

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	500 meter / drum
-------------------	------------------

P | Cabling

Data sheet

Page 6/7

**MC GC1300 pro22 Cat.7_A S/FTP 4P LSHF-FR 1640 ft,
class D_{ca} s2 d2 a1**

P/N

1308427B34141

EAN 4251394603988

2023/05/24

Version: V

Accessories

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



P | Cabling

Data sheet

**MC GC1300 pro22 Cat.7_A S/FTP 4P LSHF-FR 1640 ft,
class D_{ca} s2 d2 a1**

Page 7/7

P/N

1308427B34141

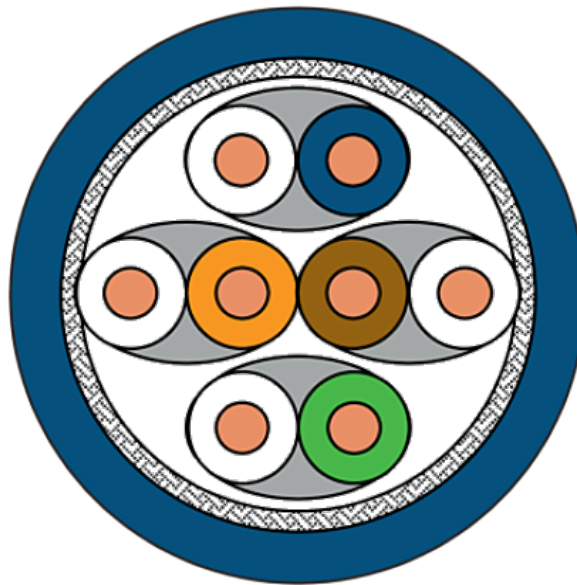
EAN 4251394603988

2023/05/24

Version: V

Illustrations

Principle diagram



© 2023 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques!

