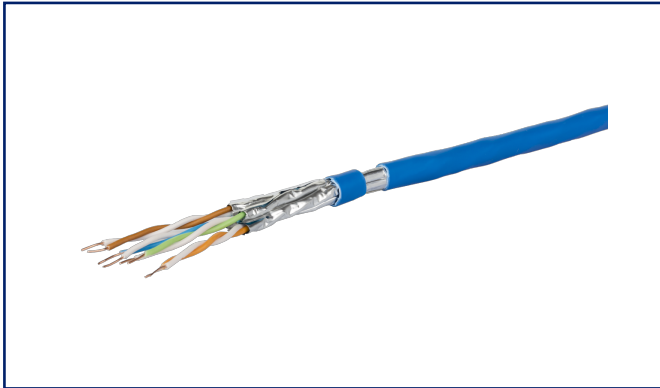
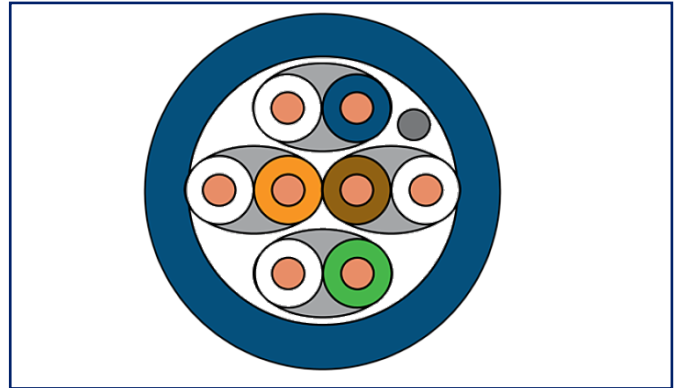


Data sheet**MC GC600 F1 23 Cat.6_A U/FTP 4P LSHF 1640 ft,
class E_{ca}**

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EAN 4250184175391
2023/04/26
Version: AY**Illustrations**

Principle diagram



See enlarged drawings at the end of document

Product specification

- 10 GBit installation cable, simplex
- installation cable Cat.6_A, AWG 23 U/FTP with wires shielded in pairs
- 4 pairs (PIMF)
- pair shield: plastic foil with aluminum coating
- outer diameter 7.0 mm
- color of the cable jacket: blue
- coupling attenuation greater than or equal to 55 dB
- applicable standards: EN 50173-1, ISO/IEC 11801, EN 50288-5-1, IEC 61156-5 and ANSI/TIA-568.2-D
- cable jacket: LSHF (LSOH)
- flame-retardant to IEC 60332-1, IEC 60754-2 and IEC 61034
- fire behaviour: Class E_{ca} (classification acc. to EN 13501-6)
- delivery unit: on drum - 500 m/1640 ft



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Technical Data

General Data

Design	installation cable
Shielding	shielded
Transmission technology	Copper
Cable Type	U/FTP
Number of twisting elements	4
Twisting element	Pair
Color coding fiber/ wire(s)	white, orange, white, green, white, brown, white, blue
Color	blue
Cable length (m)	500 m
Cable length (ft)	1640.42 ft
Weight	46 kg/km

Transmission characteristics

Category (ISO)	6 _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 23/1
Conductor diameter, solid wire (bare copper)	0.56 mm - 0.56 mm
Conductor diameter, solid wire (bare copper)	0.022 in. - 0.022 in.
Core diameter (min. - max.)	
Core diameter (conductor with insulation)	1.4 mm
Core diameter (conductor with insulation)	0.055 in.
Cable sheath diameter (min. - max.)	
Cable sheath diameter	7
Cable sheath diameter	0.276
Copper index	21 kg/km

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Technical Data

Electrical characteristics

Loop resistance	max. 145 Ohm/km
Transfer impedance 1 MHz	max. 50 mOhm/m
Transfer impedance 10 MHz	max. 100 mOhm/m
Transfer impedance 30 MHz	max. 500 mOhm/m
Characteristic impedance 1-100 MHz	100+/-5
Resistance unbalance	max. 2 %
Coupling attenuation	min. 55 dB
Capacitance at 800 Hz	45
Capacitance unbalance pair to ground	max. 800 pF/km
Nominal velocity of propagation	ca. 75 %
Signal propagation delay	max. 500 ns/100 m
Delay skew	max. 20 ns/100 m

Mechanical data

Tensile force	100 N
Fire load	0.203 kWh/m
Fire load	732 MJ/km
Bending radius without load	min. 28 mm
Bending radius without load	min. 1.1 in.
Bending radius with load	min. 56 mm
Bending radius with load	min. 2.2 in.

Materials and material properties

Material - Conductor	Cu (copper)
Material - Conductor Insulation	Foam-Skin Polyethylen
Material - Cable jacket	LSHF (LSOH)
Material - Pair shield	plastic film
Material - Pair shield finish	Al (Aluminium)
Halogen free	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

Standards/Regulations

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 50288-5-1:2014-03

Common test methods for cables under fire conditions

Fire behaviour - class (EN 50399)



fire behaviour: Class E_{ca} (classification acc. to EN 13501-6)

Test for vertical flame propagation for a single insulated wire or cable

IEC 60332-1

Measurement of smoke density of cables burning

IEC 61034

Determination of acidity (by measuring the pH value) and conductivity

IEC 60754-2

Classifications

ETIM 5.0	EC000830
ETIM 6.0	EC000830
ETIM 7.0	EC003249
ETIM 8.0	EC003249
ETIM 9.0	EC003249

Packing details

Type of packaging	1 meter / drum
Packaging dimension	850 mm x 700 mm x 850 mm
Packaging dimension	33.465 in. x 27.559 in. x 33.465 in.

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Accessories

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



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Accessories from

P/N	Designation
1308436A32132M	BTR GC600 F1 23 Cat.6 _A U/FTP 4P LSHF

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Illustrations

Principle diagram

