

P | Cabling

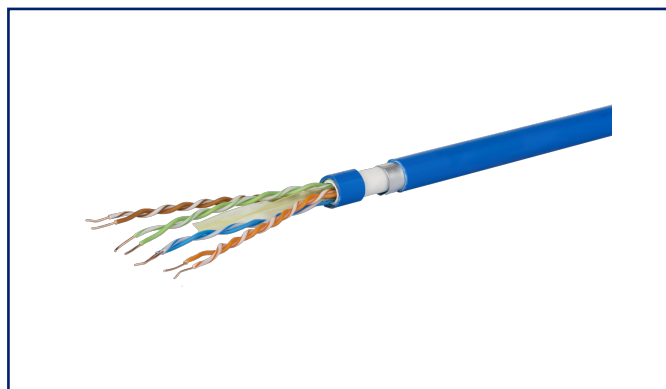
Data sheet

**MC GC500 Z2F23 Cat.6_A U/UTP 4P LSHF 1640 ft,
class E_{ca}**

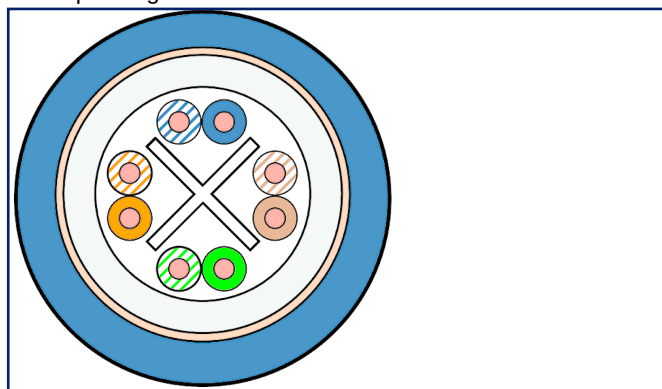
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P/N
1308406A32141
EAN 4250184126461
2021/04/23
Version: AO

Illustrations



Principle diagram



See enlarged drawings at the end of document

Product specification

- 10 GBit installation cable, simplex
- unshielded installation cable Cat.6_A Class E_A, AWG 23 U/UTP
- 4 pairs with separator (spline)
- foils wrapped diagonally with gaps as separating layers in the cable jacket
- outer cable diameter: 8.2 mm
- color of the cable jacket: blue
- coupling attenuation not less than 40 dB
- applicable standards: EN 50173-1:2011-09; ISO/IEC 11801 Ed.2.2:2011-06; EN 50288-11-1, IEC 61156-5, EIA/TIA 568-C.2
- 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 units:
sold by meter
1640 ft (500 m)

on drum
on drum

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Technical Data

General Data

Fields of application	Structured building cabling, Data center
Design	installation cable
Shielding	unshielded
Transmission technology	Copper
Cable Type	U/UTP
Number of twisting elements	4
Twisting element	Pair
Color	blue
Cable length (m)	500 m
Cable length (ft)	1640.42 ft
Weight	75 kg/km

Transmission characteristics

Category (ISO)	6 _A
Class (ISO/IEC)	E _A
Category (TIA)	6A
Transmission rate up to 10 GBit	IEEE 802.3an

Connections/interfaces

Termination data, solid wire (min. - max.)	
Conductor cross section, solid wire	AWG 23/1
Conductor diameter, solid wire (bare copper)	0.57 mm
Conductor diameter, solid wire (bare copper)	0.022 in.
Core diameter (min. - max.)	
Core diameter (conductor with insulation)	1.06 mm
Core diameter (conductor with insulation)	0.042 in.
Cable sheath diameter (min. - max.)	
Cable sheath diameter mm	8.20
Cable sheath diameter inch	0.315
Copper index	21 kg/km



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Electrical characteristics

Insulation resistance	min. 5000 MOhm
Loop resistance	max. 165 Ohm/km
Characteristic impedance 1-100 MHz	100 ± 5
Resistance unbalance	2 %
Coupling attenuation	min. 40 dB
Capacitance at 800 Hz	48
Capacitance unbalance pair to ground	max. 1500 pF/km
Nominal velocity of propagation	67 %
Delay skew	max. 45 ns/100 m
Dielectric strength conductor-conductor (primarily)	1000 V DC

Mechanical data

Tensile force	100 N
Fire load	0.299 kWh/m
Fire load	1075 MJ/km
Bending radius without load	32.8 mm
Bending radius without load	1.291 in.
Bending radius with load	65.6 mm
Bending radius with load	2.583 in.

Materials and material properties

Material - Conductor	Cu (copper)
Material - Conductor Insulation	Polyethylene
Material - Cable jacket	LSHF (LSOH)
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	50 °C
Temperature - Installation °F	32 °F - 122 °F



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Certifications

GHMT Type Approval 2 Connector Permanent Link, 85 m, Class EA (valid to: 11/2017)

The product meets the following standards

Generic cabling systems

General requirements

ISO/IEC 11801 Ed.2.2:2011-06 | DIN EN 50173-1:2011-09
ANSI/TIA-568-C.2

Common test methods for cables under fire conditions

Fire behaviour - class

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

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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Principle diagram

