

P | Cabling

Data sheet

MC GC400 SL23 Cat.6 U/UTP LSHF 1640 ft, class E_{ca}

Page 1/6

P/N

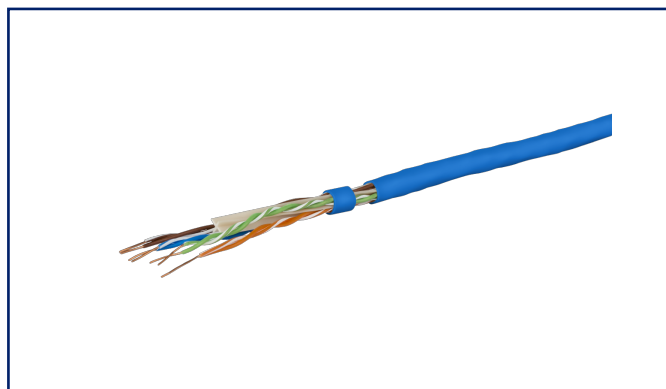
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EAN 4250184175223

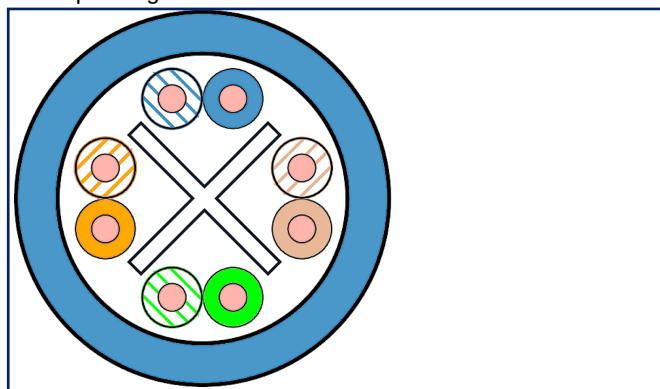
2021/04/23

Version: AR

Illustrations



Principle diagram



See enlarged drawings at the end of document

Product specification

- 1 GBit installation cable, simplex
- unshielded installation cable Cat.6 class E, AWG 23 U/UTP
- 4 pairs with separator (spline)
- outer diameter 5.3 mm
- color of the cable jacket: blue
- coupling attenuation greater than or equal to 40 dB
- applicable standards: EN 50173-1:2011-09, ISO/IEC 11801 Ed.2.2:2011-06, EN 50288-6-1, IEC 61156-5, EIA/TIA 568B-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)

Shipping Units:
1000 ft (305 m)
1640 ft (500 m)
3280 ft (1000 m)

in a box
on drum
on drum



P | Cabling

Data sheet

Page 2/6

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Technical Data

General Data	
Design	installation cable
Shielding	unshielded
Transmission technology	Copper
Cable Type	U/UTP
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)	1640.42 ft
Weight	36 kg/km
Transmission characteristics	
Category (ISO)	6
Class (ISO/IEC)	E
Transmission rate up to 1 GBit (Fast Ethernet)	IEEE 802.3ab
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)	0.54 mm - 0.54 mm
Conductor diameter, solid wire (bare copper)	0.021 in. - 0.021 in.
Core diameter (min. - max.)	
Core diameter (conductor with insulation)	0.95 mm
Core diameter (conductor with insulation)	0.037 in.
Cable sheath diameter (min. - max.)	
Cable sheath diameter mm	5.3
Cable sheath diameter inch	0.209
Copper index	18.1 kg/km



P | Cabling

Data sheet

Page 3/6

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Electrical characteristics

Loop resistance	max. 176 Ohm/km
Characteristic impedance 1-100 MHz	100+/-5
Resistance unbalance	max. 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 %
Signal propagation delay	max. 535 ns/100 m
Delay skew	max. 20 ns/100 m
Dielectric strength conductor-conductor (primarily)	1000 V DC
Dielectric strength conductor-conductor (secondary)	1000 V DC
Dielectric strength conductor-shield	1000 V DC

Mechanical data

Tensile force	100 N
Fire load	0.087 kWh/m
Fire load	316 MJ/km
Bending radius without load	min. 21.2 mm
Bending radius without load	min. 0.83 in.
Bending radius with load	min. 42.4 mm
Bending radius with load	min. 1.67 in.

Materials and material properties

Material - Conductor	Cu (copper)
Material - Conductor Insulation	Foam-Skin Polyethylen
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



P | Cabling

Data sheet

Page 4/6

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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

Multi-element metallic cables used in analogue and digital communication an

DIN EN 50288-6-1

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.



P | Cabling

Data sheet

Page 5/6

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Accessories

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

P | Cabling

Data sheet

MC GC400 SL23 Cat.6 U/UTP LSHF 1640 ft, class E_{ca}

Page 6/6

P/N

1308406032141

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2021/04/23

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Principle diagram

