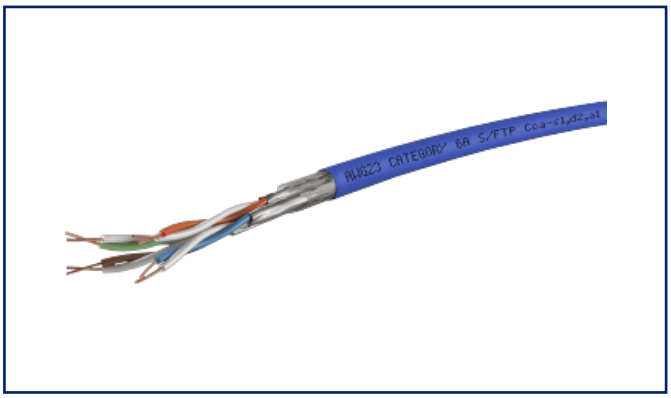
Data sheet

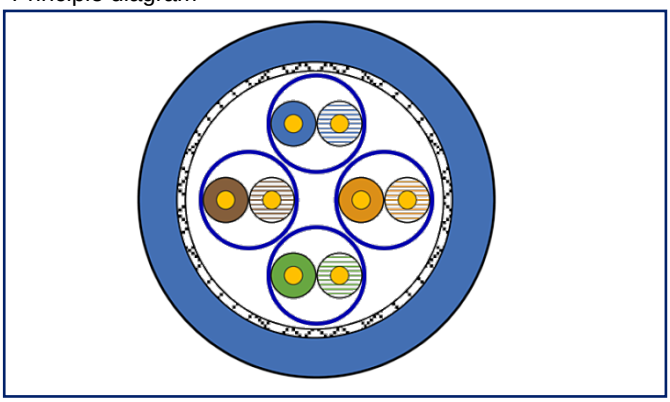
MC 550 AWG 23 Cat.6A S/FTP 4P LSHF-FR 1000 m, class C_{ca} s1 d1 a1

P/N 130842A6ASFCT1
EAN 4251394670102
2023/10/20
Version: D

Illustrations



Principle diagram



See enlarged drawings at the end of document

Product specification

- 10 GBase-T installation cable, simplex
- shielded installation cable Cat.6_A Class E_A, AWG 23
- 4 pairs
- outer diameter: 7.4 mm
- color of the cable jacket: blue
- coupling attenuation greater than or equal to 85 dB
- applicable standards: EN 50173, ISO/IEC 11801
- cable jacket: LSHF (LSOH)
- flame-retardant to: IEC 60332-1/EN 60332-1 and IEC 60332-3-24/EN 60332-3-24
- fire behaviour: C_{ca} s1,d1,a1

Data sheet

MC 550 AWG 23 Cat.6A S/FTP 4P LSHF-FR 1000 m, class C_{ca} s1 d1 a1

P/N 130842A6ASFCT1
EAN 4251394670102
2023/10/20
Version: D

Technical Data

General Data	
Design	installation cable
Transmission technology	Copper
Cable Type	S/FTP
Number of twisting elements	4
Twisting element	Pair
Color	blue
Cable length (m)	1000 m
Cable length (ft)	3280.84 ft
Weight	51 kg/km

Connections/interfaces	
Termination data, solid wire (min. - max.)	
Conductor cross section, solid wire	AWG 23
Core diameter (min. - max.)	
Core diameter	1.4 mm
Core diameter	0.055 in.
Cable sheath diameter (min. - max.)	
Cable sheath diameter	7.4 mm
Cable sheath diameter	0.291 in.

Electrical characteristics	
Loop resistance	max. 146.4 Ohm/km
Insulation resistance	min. 5000 MOhm.km
Transfer impedance 1 MHz	max. 8 mOhm/m
Transfer impedance 10 MHz	max. 8 mOhm/m
Transfer impedance 30 MHz	max. 10 mOhm/m
Transfer impedance 100 MHz	max. 20 mOhm/m
Resistance unbalance	max. 2 %
Coupling attenuation	min. 85 dB
Capacitance unbalance pair to ground	max. 1600 pF/km
Nominal velocity of propagation	ca. 78 %
Dielectric strength conductor-conductor (secondary)	1000 V DC
Dielectric strength conductor-shield	1000 V DC

METZ CONNECT
We realize ideas

Data sheet

MC 550 AWG 23 Cat.6A S/FTP 4P LSHF-FR 1000 m, class C_{ca} s1 d1 a1

P/N 130842A6ASFCT1
EAN 4251394670102
2023/10/20
Version: D

Technical Data

Electrical characteristics	
Segregation classification	D
Mechanical data	
Tensile force	95 N
Fire load	449 MJ/km
Maximum operating bending radius	30 mm
Maximum installation load	60 mm
Materials and material properties	
Material - Conductor	Cu (copper)
Material - Conductor Insulation	Cell PE
Material - Cable jacket	LSHF (LSOH)
Material - Pair shield	Aluminium/Polyester
Material - Main shield	Cu (copper) braid
Flame retardancy	according to IEC 60332-1/ EN 60332-1 and IEC 60332-3-24/ EN 60332-3-24
Halogen free	yes, according to EN 60754-1/2 and IEC 60754-1/2
RoHS	compliant
Environmental conditions	
Temperature (min. - max.)	
Temperature - Storage °C	0 °C - 50 °C
Temperature - Storage °F	32 °F - 122 °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 | DIN EN 50173-1
Common test methods for cables under fire conditions	
Fire behaviour - class (EN 50399)	Class C_{ca} s1 d1 a1
Test for vertical flame propagation for a single insulated wire or cable	yes, according to EN 60332-1 and IEC 60332-1

METZ CONNECT
We realize ideas

Data sheet

MC 550 AWG 23 Cat.6A S/FTP 4P LSHF-FR 1000 m, class C_{ca} s1 d1 a1

P/N 130842A6ASFCT1
EAN 4251394670102
2023/10/20
Version: D

Technical Data

Standards/Regulations	
Measurement of smoke density of cables burning	yes, according to EN 61034-2 and IEC 61034-2
Classifications	
ETIM 7.0	EC003249
ETIM 8.0	EC003249
ETIM 9.0	EC003249
Packing details	
Type of packaging	1000 meter / drum

METZ CONNECT
We realize ideas

Data sheet

MC 550 AWG 23 Cat.6A S/FTP 4P LSHF-FR 1000 m, class C_{ca} s1 d1 a1

P/N 130842A6ASFCT1
EAN 4251394670102
2023/10/20
Version: D

Illustrations

Principle diagram