

UC500 OUTDOOR CAT.6A U/FTP PE

Data horizontal cable Cat.6A U/FTP for outdoor installations



GENERAL INFO

Primary (Campus), Secondary (Riser), Tertiary (Horizontal); IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; IEEE 802.5 ISDN, TPDDI, ATM, CATV, IP Cameras, Broadband Video, SOHO-Cabling; Power over Ethernet (PoE) / Type 1-4

CERTIFICATIONS AND DESIGN STANDARDS



CE RoHS

IEC 61156-5

EN 50173-1

EN 50288-10-1

ISO/IEC 11801

Datacom cables

Generic cabling systems

Datacom cables shielded up to 500 MHz

Information technology, Generic cabling for customer premises

CABLE CONSTRUCTION

Conductor material

Conductor surface

Core insulation material

Drain wire

Screen over stranding element

Screen construction

Screen material

Material outer sheath

Cable shape

Copper

Bare

Foam-skin-PE

Yes

Foil

Metallised foil

Aluminium

Polyethylene (PE)

Round

APPLICATION PROPERTIES

Min. outer temperature, fixed installation [°C]	-40
Max. outer temperature, fixed installation [°C]	60
UV resistant	Yes
Outdoor installation	Yes
Min. outer temperature during installation [°C]	-15
Max. outer temperature during installation [°C]	50
Underground installation	Yes
Bending radius (rule)	Installation: 8 x outer diameter; Installed: 4 x outer diameter

FIRE PROPERTIES

Reaction-to-fire class (acc. EN 13501-6)	Fca
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ELECTRICAL PROPERTIES

Nominal voltage U [V]	48
Test voltage [kV]	1
NVP value [%]	79
Resistance unbalance (max) [%]	2
Nominal mutual capacitance [pF/m]	43
Capacitance unbalance (max) [pF/m]	1,500
Propagation delay (max) [ns/100m]	427
Delay skew (max) [ns/100m]	12
Transfer impedance at 10 MHz [mOhm/m]	50
Segregation classification (acc. EN 50174-2)	c

PRODUCT ORDER DATA

Product name	Colour outer sheath	SAP	EL no.	Packaging type	Standard packaging quantity	User unit
UC500 OUTDOOR CAT.6A U/FTP PE	Black	60076833	1080088	Drum	500	MTR
UC500 OUTDOOR CAT.6A U/FTP PE	Black	60076834	60076834	Drum	1,000	MTR

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CONSTRUCTION DETAILS

Product name	Conductor category	Diameter conductor [mm]	AWG size	Number of stranding elements	SAP
UC500 OUTDOOR CAT.6A U/FTP PE	Class 1 = solid	0.56	23	4	60076833
UC500 OUTDOOR CAT.6A U/FTP PE	Class 1 = solid	0.56	23	4	60076834

CONSTRUCTION DETAILS(02)

Product name	Nominal outer diameter [mm]	Fire load [MJ/km]	Max. tensile strength during installation [kN]	Cable weight [kg/km]	DOP number	SAP
UC500 OUTDOOR CAT.6A U/FTP PE	7		0.1	41		60076833
UC500 OUTDOOR CAT.6A U/FTP PE	7		0.1	41		60076834

ELECTRICAL PROPERTIES(PER ITEM)

Product name	Nominal operation capacitance [nF/km]	Characteristic impedance [Ohm]	Loop resistance [Ohm]	Coupling attenuation [dB]	SAP
UC500 OUTDOOR CAT.6A U/FTP PE	43	100	154	55	60076833
UC500 OUTDOOR CAT.6A U/FTP PE	43	100	154	55	60076834