

UC400 S23 Cat.6 U/FTP 4P PE

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



GENERAL INFO

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

CABLE FEATURES

Prysmian installation cable for outdoor use UC400 S23 Cat.6 U/FTP 4P PE

- Copper data cable of category 6 for structured cabling with a bandwidth of 400 MHz.
- With foil pair shielding without an overall shield, the cable is single-shielded.
- The 4-pair simplex installation cable with 8 copper wires AWG23 is suitable for the connection of sockets, patch fields and modules, also with IDC technology, for installation in buildings, in fire protection ducts or flush-mounted and outdoors for direct burial
- the product exceeds the requirements of EN50173-1; EN50288-5-1, ISO/IEC11801; IEC61156-5 and IEEE802.3af/at/bt.
- The jacket is made of halogen-free polyethylene.
- the product fulfills segregation class C according to EN50174 with a coupling attenuation of 55 dB.
- The cable is future-proof for all applications according to Class C, D, and E and suitable for the operation of PoE and PoE+ over a channel length of up to 100m. It is suitable for the following applications: Telephony, Ethernet, Fast Ethernet and Gigabit Ethernet, 10BaseT, 100BaseT, 1000BaseT, 1GBase-T or up to 1,000Mbit/s.

Latest version of this data sheet is available for download: [ProductFamily239142](#)

CERTIFICATIONS AND DESIGN STANDARDS



APPLICATION PROPERTIES

Operation temperature (min) [°C]	-40	(max) [°C]	60
Installation temperature (min) [°C]	0	(max) [°C]	50
Bending radius (rule)	Installation: 8 x outer diameter; Installed: 4 x outer diameter		

CABLE CONSTRUCTION

Conductor category	Class 1 = solid
Conductor material	Copper
Conductor surface	Bare
AWG size	23
Core insulation material	Foam-skin-PE
Nominal diameter over insulation [mm]	1.4
Screen over stranding element	Foil
Number of stranding elements	4
Identification of stranding elements	Core colors: blue/white; orange/white; green/white; brown/white
Screen material	Aluminium
Screen over stranding	None
Material outer sheath	Polyethylene (PE)
Cable shape	Round
Nominal outer diameter [mm]	8.6

ELECTRICAL PROPERTIES

Test voltage [kV]	1
Category	6
NVP value [%]	79
Propagation delay (max) [ns/100m]	427
Delay skew (max) [ns/100m]	12
Characteristic impedance [Ohm]	100
Nominal mutual capacitance [pF/m]	43
Loop resistance [Ohm]	154
Coupling attenuation [dB]	55
Insulation resistance [MΩ·km]	5,000
Transfer impedance at 10 MHz [mOhm/m]	50
Segregation classification (acc. EN 50174-2)	c

PRODUCT ORDER DATA

Product name	Nominal outer diameter [mm]	Max. tensile strength during installation [kN]	Copper weight [kg/km]	SAP code	Packaging type	Standard packaging quantity	Gross weight
UC400 S23 Cat.6 U/FTP 4P PE	8.6	0.1	24	60045599	Drum	500	32.1
UC400 S23 Cat.6 U/FTP 4P PE	8.6	0.1	24	60011455	Drum	1,000	64

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CAT 6 TRANSMISSION CHARACTERISTICS (AT 20°C)

Frequency (MHz)	Attenuation (dB/100 m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100 m)	PS-ACR (dB/100 m)	ACRF (dB/100m)	PS-ACRF (dB)	Return Loss (dB)
1	1.8	100	97	98	95	105	102	-
4	3.3	100	97	97	94	105	102	27
10	5.1	100	97	95	92	97	94	30
16	6.5	100	97	94	91	93	90	30
20	7.3	100	97	93	90	91	88	30
31.2	9.2	100	97	91	88	87	84	30
62.5	13.3	100	97	87	84	81	78	30
100	17.1	100	97	83	80	77	74	30
125	19.3	95	92	76	73	75	72	26
155.5	21.7	93	90	71	68	73	70	26
175	23.2	93	90	70	67	72	69	25
200	25	92	89	67	64	71	68	25
250	28.3	90	87	62	59	69	66	24
300	31.4	89	86	58	55	67	64	24
400	37	87	84	50	47	65	62	23