

SUPERCAT 23 C6 F-U/UTP 4P + ALPE

F-U/UTP Cat.6 Installation Cable for Outdoor use



GENERAL INFO

F-U/UTP Cat.6 Installation Cable for Outdoor use. Extra rugged due to a dual outer sheath construction. Filled with waterproof compound to prevent moisture migration. To prevent water penetration and to ensure electrical properties even in continuous wet conditions.

CERTIFICATIONS AND DESIGN STANDARDS



RoHS

IEC 61156-5

EN 50173-1

ISO/IEC 11801

EN 50288-6-1

Datacom cables

Generic cabling systems

Generic cabling system

Datacom cables unshielded up to 250 MHz

CABLE CONSTRUCTION

Conductor material

Copper

Conductor surface

Bare

Core insulation material

Polyethylene (PE)

Longitudinal water blocking cable

Yes

Material outer sheath

Polyethylene (PE)

Cable shape

Helical

APPLICATION PROPERTIES

Min. outer temperature, fixed installation [°C]	-55
Max. outer temperature, fixed installation [°C]	60
UV resistant	Yes
Outdoor installation	Yes
Min. outer temperature during installation [°C]	-20
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

ELECTRICAL PROPERTIES

Nominal voltage U [V]	48
Test voltage [kV]	1
Category	6
NVP value [%]	67
Resistance unbalance (max) [%]	2
Nominal mutual capacitance [pF/m]	48
Capacitance unbalance (max) [pF/m]	1,500
Propagation delay (max) [ns/100m]	535
Delay skew (max) [ns/100m]	20

TRANSMISSION CHARACTERISTICS (NOMINAL)

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	2.1	75	72	73	70	82	79	22
4	3.8	66	63	62	59	70	67	25
10	6	60	57	54	51	62	59	27
16	7.6	57	54	49	46	58	55	27
20	8.5	56	53	48	45	56	53	27
31.2	10.7	53	50	42	39	52	49	26
62.5	15.5	48	45	32	29	46	43	24
100	19.9	45	42	25	22	42	39	22
125	22.5	44	41	22	19	40	37	21
155.5	25.3	42	39	17	14	38	35	21
175	27.1	42	39	15	12	37	34	20
200	29.1	41	38	12	9	36	33	20
250	33	39	36	6	3	34	31	19
300	36.6	38	35	1	-2	32	29	19
400	43.2	36	33	-7	-10	30	27	18

PRODUCT ORDER DATA

Product name	Colour outer sheath	SAP	EL no.	Packaging type	Standard packaging quantity	User unit
SUPERCAT 23 C6 F-U/UTP 4P + ALPE		60016065	60016065	Drum (non-standard length)		MTR
SUPERCAT 23 C6 F-U/UTP 4P + ALPE		60016068	1082639	Drum	500	MTR

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CONSTRUCTION DETAILS

Product name	Conductor category	Diameter conductor [mm]	AWG size	Number of stranding elements	SAP
SUPERCAT 23 C6 F-U/UTP 4P + ALPE		0.59	23		60016065
SUPERCAT 23 C6 F-U/UTP 4P + ALPE		0.59	23		60016068

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
SUPERCAT 23 C6 F-U/UTP 4P + ALPE	10.5		0.15	104	1009345	60016065
SUPERCAT 23 C6 F-U/UTP 4P + ALPE	10.5		0.15	104	1009345	60016068

ELECTRICAL PROPERTIES(PER ITEM)

Product name	Nominal operation capacitance [nF/km]	Characteristic impedance [Ohm]	Loop resistance [Ohm]	Coupling attenuation [dB]	SAP
SUPERCAT 23 C6 F-U/UTP 4P + ALPE		100	154		60016065
SUPERCAT 23 C6 F-U/UTP 4P + ALPE		100	154		60016068