

UC1500 SS22 C7A S/FTP 4P LSHF-FR DCA

Data horizontal cable Cat.7A S/FTP



Dca
CPR

GENERAL INFO

Primary (Campus), Secondary (Riser), Tertiary (Horizontal); IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; IEEE802.5; ISDN, TPDDI, ATM, CATV, IP Cameras, Broadband Video, SOHO-Cabling; Power over Ethernet (PoE) / Type 1-4

CERTIFICATIONS AND DESIGN STANDARDS



RoHS

ISO/IEC 11801

IEC 61156-5

EN 50173-1

EN 50288-9-1

IEEE 802.3 af/at/bt

Generic cabling system

Datcom cables

Generic cabling systems

Datcom cables shielded up to 1000 MHz

Power over Ethernet (PoE) / Type 1-4 according to IEEE 802.3 af/at/bt

CABLE CONSTRUCTION

Conductor material
Conductor surface
Core insulation material
Screen over stranding element
Screen construction
Screen material
Screen over stranding
Material outer sheath
Cable shape

Copper
Bare
Foam-skin-PE
Foil
Braiding
Copper, tinned
Braiding
Halogenfree polymer
Round

APPLICATION PROPERTIES

Max. conductor temperature [°C]	60
Min. outer temperature, fixed installation [°C]	-20
Max. outer temperature, fixed installation [°C]	60
Min. outer temperature during installation [°C]	0
Max. outer temperature during installation [°C]	50
Bending radius (rule)	Installation: 8 x outer diameter; Installed: 4 x outer diameter

FIRE PROPERTIES

Flame retardant	In accordance with EN/IEC 60332-3-24
Halogen free (acc. IEC 60754-2)	Yes
Low smoke (acc. IEC 61034-2)	Yes
Reaction-to-fire class (acc. EN 13501-6)	Dca
Smoke development class (acc. EN 13501-6)	s1
Euro class flaming droplets/particles (acc. EN 13501-6)	d1
Euro class acidity (acc. EN 13501-6)	a1

ELECTRICAL PROPERTIES

Nominal voltage U [V]	48
Test voltage [kV]	1
Category	7A (IEC)
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]	5
Segregation classification (acc. EN 50174-2)	d

PRODUCT ORDER DATA

Product name	Colour outer sheath	SAP	EL no.	Packaging type	Standard packaging quantity	User unit
UC1500 SS22 C7A S/FTP 4P LSHF-FR DCA	Yellow	60045752	60045752	Drum	1,000	MTR
UC1500 SS22 C7A S/FTP 4P LSHF-FR DCA	Yellow	60045751	60045751	Drum (non-standard length)		MTR
UC1500 SS22 C7A S/FTP 4P LSHF-FR DCA	Yellow	60048194	1080083	Drum	500	MTR

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CONSTRUCTION DETAILS

Product name	Conductor category	Diameter conductor [mm]	AWG size	Number of stranding elements	SAP
UC1500 SS22 C7A S/FTP 4P LSHF-FR DCA	Class 1 = solid	0.62	22	4	60045752
UC1500 SS22 C7A S/FTP 4P LSHF-FR DCA	Class 1 = solid	0.62	22	4	60045751
UC1500 SS22 C7A S/FTP 4P LSHF-FR DCA	Class 1 = solid	0.62	22	4	60048194

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
UC1500 SS22 C7A S/FTP 4P LSHF-FR DCA	7.5	645	0.15	64.1	1000419	60045752
UC1500 SS22 C7A S/FTP 4P LSHF-FR DCA	7.5	645	0.15	64.1	1000419	60045751
UC1500 SS22 C7A S/FTP 4P LSHF-FR DCA	7.5	645	0.15	64.1	1000419	60048194

ELECTRICAL PROPERTIES(PER ITEM)

Product name	Nominal operation capacitance [nF/km]	Characteristic impedance [Ohm]	Loop resistance [Ohm]	Coupling attenuation [dB]	SAP
UC1500 SS22 C7A S/FTP 4P LSHF-FR DCA	43	100	128	85	60045752
UC1500 SS22 C7A S/FTP 4P LSHF-FR DCA	43	100	128	85	60045751
UC1500 SS22 C7A S/FTP 4P LSHF-FR DCA	43	100	128	85	60048194

CAT 7A 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	1.7	100	97	98	95	100	97	23
4	3.2	100	97	97	94	97	94	25
10	5.1	100	97	95	92	95	92	25
16	6.4	100	97	94	91	90	87	30
20	7.1	100	97	93	90	90	87	30
31.2	8.9	100	97	91	88	90	87	29
62.5	12.7	100	97	87	84	85	82	27
100	16	100	97	84	81	80	77	25
155	20	95	92	75	72	78	75	24
200	22.8	93	90	70	67	75	72	23
250	25.5	91	88	66	63	69	66	22
300	28	90	87	62	59	65	62	22
600	40	86	83	46	43	45	42	20
1200	57.2	81	78	24	21	35	32	19
1400	62	80	77	18 ⁴	15	30	27	19