

UC1500 SS22 CAT.7A S/FTP 4P LSHF-FR C_{Ca}

Data horizontal cable Cat.7A S/FTP



CABLE FEATURES

Draka installation cable for indoor use UC1500 SS22 Cat.7A S/FTP LSHF-FR C_{Ca}

- Copper data cable of Cat.7A for structured cabling with a bandwidth of 1500 MHz.
- The cable is double-shielded with foil pair shielding and high-quality braided cover.
- The 4-pair simplex installation cable with 8 copper wires AWG22 is suitable for the connection of sockets, patch fields and modules, also with LSA technology, for installation in buildings, in ducts and flush-mounted
- the product exceeds the requirements of EN50173-1; EN50288-9-1, ISO/IEC11801; IEC61156-5; IEC61156-7 and IEEE802.3af/at/bt.
- The jacket is made of halogen-free, flame-retardant material according to IEC60332-1; IEC60332-3-24; IEC60754-2; IEC61034, EN50399 especially for use in public buildings with high personal risk, in the Euro fire class C_{Ca} s1a d1 a1.
- With a coupling attenuation of 85 dB, the shielding fulfills segregation class D according to EN50174.
- The cable is future-proof for all applications according to Class C, D, E, EA, F and FA and suitable for operating PoE and PoE+ over a channel length of up to 100m. It is suitable for the following applications: Telephony, Ethernet, Fast Ethernet, Gigabit Ethernet and 10Gigabit Ethernet, 10BaseT, 100BaseT, 1000BaseT, 1GBase-T, 10GBaseT and 25GBaseT up to 30m.

Latest version of this data sheet is available for download: [ProductFamily238680_en.pdf](#)

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



IEC 61156-5

EN 50288-9-1

ISO/IEC 11801

EN 50173

IEEE 802.3 af/at/bt

EN 50399

ISO/IEC TR 11801-9905:2018-02

Datacom cables

Datacom cables up to 1000 Mhz

Generic telecom cabling for customer premises

Information technology - Generic cabling systems

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

Common test methods for cables under fire conditions

Generic cabling systems for customer premises - Part 9905: Guidelines for the use of installed cabling to support 25GBASE-T application

CABLE CONSTRUCTION

Conductor category	Class 1 = solid
Conductor material	Copper
Conductor surface	Bare
AWG size	22
Core insulation material	Foam-skin-PE
Nominal diameter over insulation [mm]	0.9
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	Copper, tinned
Screen over stranding	Braiding
Material outer sheath	Halogenfree polymer
Cable shape	Round
Nominal outer diameter [mm]	7.6

APPLICATION PROPERTIES

Permitted cable outer temperature after assembling without vibration (min) [°C]	-20	(max) [°C]	60
Permitted cable outer temperature during assembling/handling (min) [°C]	0	(max) [°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/EN 60754-1/2
Low smoke	acc. IEC/EN 61034-2
Reaction-to-fire class (acc. EN 13501-6)	Cca
Smoke development class (acc. EN 13501-6)	s1a
Euro class flaming droplets/particles (acc. EN 13501-6)	d1
Euro class acidity (acc. EN 13501-6)	a1
Fire load [MJ/km]	645
DOP number	1011211

ELECTRICAL PROPERTIES

Test voltage [kV]	1
Category	7A (IEC)
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]	128
Coupling attenuation [dB]	85
Insulation resistance [MΩ·km]	5,000
Transfer impedance at 10 MHz [mOhm/m]	5
Segregation classification (acc. EN 50174-2)	d

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
1000	52.1	82	79	30	27	40	37	20
1200	57.2	81	78	24	21	35	32	19
1400	62	80	77	18	15	30	27	19
1500	64.3	80	77	16	13	28	25	18

PRODUCT ORDER DATA

Product name	Nominal outer diameter	Max. tensile strength during installation	Copper weight	SAP code	Packaging type	Standard packaging quantity	Gross weight
UC1500 SS22 Cat.7A S/FTP LSHF-FR Cca	7.6	0.1	40.4	60065571	Drum	1,000	77.6
UC1500 SS22 Cat.7A S/FTP LSHF-FR Cca	7.6	0.1	40.4	60065547	Drum (non-standard length)	1	77.6

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