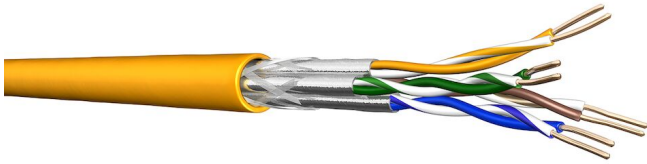


# UC1500 HS22 Cat.7A S/FTP 4P LSHF D<sub>ca</sub>

Data horizontal cable Cat.7A S/FTP



## CABLE FEATURES

Prysmian installation cable for indoor use UC1500 HS22 Cat.7A S/FTP 4P LSHF Dca

- 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 IDC 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; IEC60754-2; IEC61034; EN50399 and Euro fire class Dca s2 d1 a1.
- With a coupling attenuation of 80 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: [ProductFamily349226](#)

## 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



- IEC 61156-5
- ISO/IEC 11801
- EN 50288-9-1
- EN 50173
- IEC 60332-1-2
- IEC 60754-2
- IEC 61034-2
- ISO/IEC TR 11801-9905:2018-02

- Datacom cables
- Generic telecom cabling for customer premises
- Data communications cable shielded up to 1000 MHz
- Information technology - Generic cabling systems
- Single wire fire test
- Weighted Values of pH and Conductivity
- Smoke Density
- 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]	1.5
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

Operation temperature (min) [°C]	-20	(max) [°C]	60
Installation temperature (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 60332-1-2
Halogen free	acc. IEC/EN 60754-1/2
Low smoke	acc. IEC/EN 61034-2
Reaction-to-fire class (acc. EN 13501-6)	Dca
Smoke development class (acc. EN 13501-6)	s2
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	1011472

## 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]	80
Insulation resistance [ $M\Omega \cdot km$ ]	5,000
Transfer impedance at 10 MHz [mOhm/m]	10
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 [mm]	Max. tensile strength during installation [kN]	Copper weight [kg/km]	SAP code	Packaging type	Standard packaging quantity	Gross weight
UC1500 HS22 Cat.7A S/FTP 4P LSHF Dca	7.6	0.15	35	60088553	Drum	1	63.7
UC1500 HS22 Cat.7A S/FTP 4P LSHF Dca	7.6	0.15	35	60088515	Coil	50	3
UC1500 HS22 Cat.7A S/FTP 4P LSHF Dca	7.6	0.15	35	60088512	Coil	100	6
UC1500 HS22 Cat.7A S/FTP 4P LSHF Dca	7.6	0.15	35	60088514	Drum	250	16.7
UC1500 HS22 Cat.7A S/FTP 4P LSHF Dca	7.6	0.15	35	60088513	Drum	500	31.9
UC1500 HS22 Cat.7A S/FTP 4P LSHF Dca	7.6	0.15	35	60088363	Drum	1,000	63.7

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