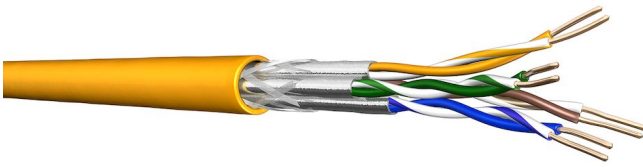


UC1200 HS23 Cat.7A S/FTP 4P LSHF D_{ca}

Data horizontal cable Cat.7A S/FTP 4F



Dca
CPR

CABLE FEATURES

Draka installation cable for indoor use UC1200 HS23 Cat.7A S/FTP 4P LSHF Dca

- Copper data cable of Cat.7A for structured cabling with a bandwidth of 1200 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 AWG23 is suitable for the connection of sockets, patch fields and modules, also with LSA technology, for installation in buildings, in ducts and flush mounting
- the product exceeds the requirements of EN50173-1; EN50288-9-1, ISO/IEC11801; IEC61156-5 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 s2d1a1.
- 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 or up to 10,000Mbit/s.

Latest version of this data sheet is available for download: [ProductFamily254084](#)

GENERAL INFO

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)

IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; IEEE 802.5

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

IEEE 802.3 af/at/bt

EN 50288-9-1

EN 50173

IEC 60332-1-2

IEC 60754-2

IEC 61034-2

Datacom cables

Generic telecom cabling for customer premises

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

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

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	Copper, tinned
Screen over stranding	Braiding
Material outer sheath	Halogenfree polymer
Cable shape	Round
Nominal outer diameter [mm]	7.5

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]	582
DOP number	1011473

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]	135
Coupling attenuation [dB]	80
Insulation resistance [MΩ·km]	5,000
Transfer impedance at 10 MHz [mOhm/m]	10
Segregation classification (acc. EN 50174-2)	d

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
UC1200 HS23 C7A S/FTP 4P LSHF	7.5	0.11	28	60088364	Drum	1,000	
UC1200 HS23 C7A S/FTP 4P LSHF	7.5	0.11	28	60088518	Drum	500	
UC1200 HS23 C7A S/FTP 4P LSHF	7.5	0.11	28	60088595	Drum (non-standard length)	1	

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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	1.8	100	97	98	95	105	102	22
4	3.4	100	97	97	94	93	90	23
10	5.4	100	97	95	92	85	82	23
16	6.8	100	97	93	90	81	78	28
20	7.6	100	97	92	89	79	76	28
31.2	9.6	100	97	90	87	75	72	27
62.5	13.6	100	97	86	83	69	66	25
100	17.3	100	97	83	80	65	62	23
125	19.3	95	92	76	73	63	60	22
155.5	21.6	94	91	72	69	61	58	22
175	23	93	90	70	67	60	57	21
200	24.6	92	89	67	64	59	56	21
250	27.6	90	87	62	59	57	54	20
300	30.4	89	86	59	56	56	53	20
450	37.6	87	84	49	46	52	49	19
600	43.7	85	82	41	38	50	47	18
750	49.2	83	80	34	31	48	45	19
900	54.2	82	79	28	25	46	43	19
1000	57.3	81	78	24	21	45	42	18
1200	63.2	80	77	17	14	44	41	17