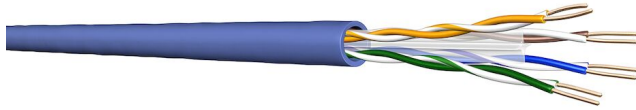


UC400 Cat.6 U/UTP HD 4P LSHF D_{ca}

Data horizontal cable Cat.6 U/UTP



Dca
CPR

CABLE FEATURES

Draka installation cable for indoor use UC400 Cat.6 U/UTP HD LSHF Dca

- Copper data cable of category 6 for structured cabling with a bandwidth of 400 MHz.
- the cable is unshielded.
- The 4-pair simplex installation cable with 8 copper wires AWG24 is suitable for connecting sockets, patch fields and modules, also with IDC technology, for laying in buildings, in ducts and flush-mounted
- the product exceeds the requirements of EN50173-1; EN50288-6-1, 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 s2 d2 a1.
- the product fulfills segregation class B according to EN50174 with a coupling attenuation of 40 dB.
- The cable is future-proof for all applications according to Class C, D, and E and suitable for the operation of PoE and PoE+ over a channel length of up to 100m. It is suitable for the following applications: Telephony, Ethernet, Fast Ethernet and Gigabit Ethernet, 10BaseT, 100BaseT, 1000BaseT, 1GBase-T or up to 1,000Mbit/s.

Latest version of this data sheet is available for download: [ProductFamily239229](#)

GENERAL INFO

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

IEEE 802.3: 10Base-T, 100Base-T, 1000Base-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



ISO/IEC 11801

IEC 61156-5

EN 50173

EN 50288-6-1

IEEE 802.3 af/at/bt

Generic telecom cabling for customer premises

Datcom cables

Information technology - Generic cabling systems

Data communications cable unshielded up to 250MHz

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

CABLE CONSTRUCTION

Conductor category	Class 1 = solid
Conductor material	Copper
Conductor surface	Bare
AWG size	24
Core insulation material	Polyethylene (PE)
Nominal diameter over insulation [mm]	1
Screen over stranding element	None
Number of stranding elements	4
Identification of stranding elements	Core colors: blue/white; orange/white; green/white; brown/white
Screen material	Not applicable
Screen over stranding	None
Material outer sheath	Halogenfree polymer
Cable shape	Round
Nominal outer diameter [mm]	5.3

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)	d2
Euro class acidity (acc. EN 13501-6)	a1
Fire load [MJ/km]	316
DOP number	1001454

ELECTRICAL PROPERTIES

Test voltage [kV]	1
Category	6
NVP value [%]	67
Propagation delay (max) [ns/100m]	535
Delay skew (max) [ns/100m]	20
Characteristic impedance [Ohm]	100
Nominal mutual capacitance [pF/m]	48
Loop resistance [Ohm]	190
Coupling attenuation [dB]	40
Insulation resistance [MΩ·km]	5,000
Transfer impedance at 10 MHz [mOhm/m]	
Segregation classification (acc. EN 50174-2)	b

CAT 6 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	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	Nominal outer diameter [mm]	Max. tensile strength during installation [kN]	Copper weight [kg/km]	SAP code	Packaging type	Standard packaging quantity	Gross weight
UC400 Cat.6 U/UTP HD LSHF BU Dca	5.3	0.1	18.1	60052665	Carton box	305	11.08
UC400 Cat.6 U/UTP HD LSHF BU Dca	5.3	0.1	18.1	60052646	Drum	500	20.16
UC400 Cat.6 U/UTP HD LSHF BU Dca	5.3	0.1	18.1	60066880	Drum	500	398
UC400 Cat.6 U/UTP HD LSHF BU Dca	5.3	0.1	18.1	60060387	Drum	1,000	38.3