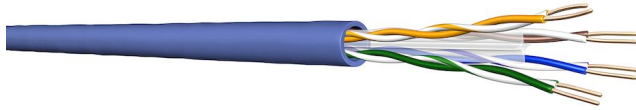


UC400 23 Cat.6 U/UTP 4P D64 LSHF-FR C_{ca}

Data horizontal cable Cat.6 U/UTP



CABLE FEATURES

Draka installation cable for indoor use UC400 23 Cat.6 U/UTP 4P D64 LSHF-FR Cca

- 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 AWG23 is suitable for the connection of sockets, patch fields and modules, also with IDC technology, for installation in buildings, in ducts and flush mounting
- 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; IEC60332-3-24; IEC60754-2; IEC61034, EN50399 especially for use in public buildings with high personal risk, in the Euro fire class Cca s1a d1 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: [ProductFamily238664](#)

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

IEEE 802.3 af/at/bt

EN 50399 Class Cca-s1a-d1-a1

Generic telecom cabling for customer premises

Datacom cables

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

Common test methods for cables under fire conditions

CABLE CONSTRUCTION

Conductor category	Class 1 = solid
Conductor material	Copper
Conductor surface	Bare
AWG size	23
Core insulation material	Polyethylene (PE)
Nominal diameter over insulation [mm]	1.4
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]	5.9

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 60332-3-24
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]	504
DOP number	1009350

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]	154
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 23 Cat.6 U/UTP D64 LSHF Cca	5.9	0.1	20.5	60077082	Carton box	305	43.7
UC400 23 Cat.6 U/UTP D64 LSHF Cca	5.9	0.1	20.5	60077083	Drum	500	47.7

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