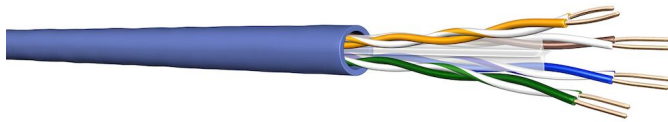


UC400 C6 U/UTP HD LSHF DCA

Data horizontal cable Cat.6 U/UTP



Dca
CPR

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



RoHS

ISO/IEC 11801
IEC 61156-5
EN 50173-1
EN 50288-6-1

Generic cabling system
Datacom cables
Generic cabling systems
Datacom cables unshielded up to 250 MHz

CABLE CONSTRUCTION

Conductor material	Copper
Conductor surface	Bare
Core insulation material	Polyethylene (PE)
Material outer sheath	Halogenfree polymer
Cable shape	Round

APPLICATION PROPERTIES

Max. conductor temperature [°C]	60
Min. outer temperature, fixed installation [°C]	-20
Max. outer temperature, fixed installation [°C]	60
Min. outer temperature during installation [°C]	0
Max. outer temperature during installation [°C]	50
Underground installation	Yes
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 60754-2)	Yes
Low smoke (acc. IEC 61034-2)	Yes
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

ELECTRICAL PROPERTIES

Nominal voltage U [V]	48
Test voltage [kV]	1
Category	6
NVP value [%]	67
Resistance unbalance (max) [%]	2
Nominal mutual capacitance [pF/m]	48
Capacitance unbalance (max) [pF/m]	1,500
Propagation delay (max) [ns/100m]	535
Delay skew (max) [ns/100m]	20
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	Colour outer sheath	SAP	EL no.	Packaging type	Standard packaging quantity	User unit
UC400 C6 U/UTP HD LSHF DCA BU DCA	Blue	60052641	60052641	Drum (non-standard length)		MTR
UC400 C6 U/UTP HD LSHF DCA BU DCA	Blue	60052665	1080070	Carton box	305	MTR
UC400 C6 U/UTP HD LSHF DCA BU DCA	Blue	60052646	1080071	Drum	500	MTR

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CONSTRUCTION DETAILS

Product name	Conductor category	Diameter conductor [mm]	AWG size	Number of stranding elements	SAP
UC400 C6 U/UTP HD LSHF DCA BU DCA	Class 1 = solid	0.54	24	4	60052641
UC400 C6 U/UTP HD LSHF DCA BU DCA	Class 1 = solid	0.54	24	4	60052665
UC400 C6 U/UTP HD LSHF DCA BU DCA	Class 1 = solid	0.54	24	4	60052646

CONSTRUCTION DETAILS(02)

Product name	Nominal outer diameter [mm]	Fire load [MJ/km]	Max. tensile strength during installation [kN]	Cable weight [kg/km]	DOP number	SAP
UC400 C6 U/UTP HD LSHF DCA BU DCA	5.3	316	0.1	36	1001454	60052641
UC400 C6 U/UTP HD LSHF DCA BU DCA	5.3	316	0.1	36	1001454	60052665
UC400 C6 U/UTP HD LSHF DCA BU DCA	5.3	316	0.1	36	1001454	60052646

ELECTRICAL PROPERTIES(PER ITEM)

Product name	Nominal operation capacitance [nF/km]	Characteristic impedance [Ohm]	Loop resistance [Ohm]	Coupling attenuation [dB]	SAP
UC400 C6 U/UTP HD LSHF DCA BU DCA		100	190	40	60052641
UC400 C6 U/UTP HD LSHF DCA BU DCA		100	190	40	60052665
UC400 C6 U/UTP HD LSHF DCA BU DCA		100	190	40	60052646