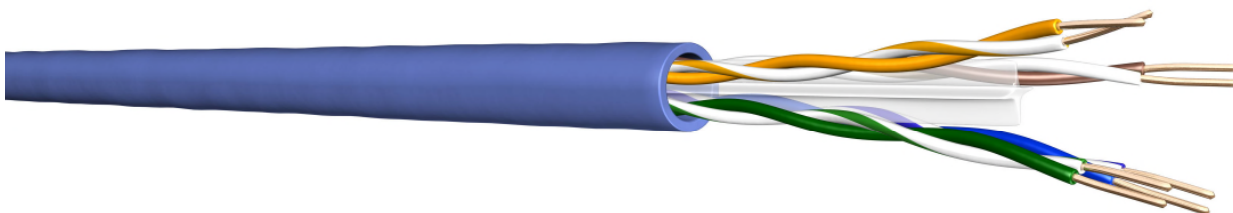


UC400 Cat.6 U/UTP HD D_{ca}

U/UTP Installation cable



Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+

Standards

EIA/TIA-568-C.2
ISO/IEC 11801 2nd ed; IEC 61156-5;
EN 50173-1, EN 50288-6-1
IEEE 802.3at

Flame resistance

EN 50399: Class D_{ca}s2d2a1; Class E_{ca}
LSHF-FR(FRNC): IEC 60332-1; 60754-2; IEC 61034;

Construction

Conductor	Bare copper wire: Nom. 0,54
Insulation	Polyethylene, Ø 0.95 mm nom
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core non-metallic cross separator (spline)
Sheath	LSHF-FR blue RAL 5012

Mechanical properties

Minimum bending radius	Installation	8 x D
	Installed	4 x D
Temperature range	during operation	-20°C up to + 60°C
	during installation	0°C up to + 50°C

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

Electrical properties

at 20°C

DC loop resistance	≤ 176 Ω /km
Resistance unbalance	≤ 2%
Insulation resistance (500 V)	≥ 5000 MΩ *km
Capacitance at 800 Hz	Nom. 48 nF/km
Capacitance unbalance (pair to ground)	≤ 1500 pF/km
Mean impedance 100 MHz	100 ± 5 Ω
Nominal velocity of propagation	Approx. 67 %
Propagation delay	Nominal 535 ns/100m
Delay skew	Nominal 20 ns/100m
Test voltage (DC, 1 min)	1000 V
Core/Core	

Electrical data (nominal)

acc. to Cat.6 (at 20°C)

f	Attenuation		NEXT		PS-NEXT		ACR		PS-ACR		ELFEXT		PS-ELFEXT		Return loss	
(MHz)	(dB/100m)		(dB)		(dB)		(dB/100m)		(dB/100m)		(dB/100m)		(dB/100m)		(dB)	
	max.	Nom.	min	nom.	min.	Nom.	Min.	Nom.	Min.	Nom.	min.	Nom.	min.	Nom.	min.	Nom.
1	2.1	1.9	74	78	72	75	72.0	76.1	70.0	73.1	68	82	65	80	20	22
4	3.8	3.8	65	69	63	66	61.2	65.2	59.2	62.2	56	70	53	68	23	25
10	6.0	6.0	59	63	57	60	53.0	57.0	51.0	54.0	48	62	45	60	25	27
16	7.6	7.6	56	60	54	57	48.4	52.3	46.4	49.3	44	58	41	56	25	27
20	8.5	8.5	55	59	53	56	46.5	50.0	44.5	47.0	42	56	39	54	25	27
31.2	10.7	10.7	52	56	50	53	41.3	45.0	39.3	42.0	38	52	35	50	23.6	26
62.5	15.5	15.1	47	51	45	48	31.5	36.0	29.5	33.0	32	46	29	44	21.5	24
100	19.9	19.1	44	48	42	45	24.1	28.9	22.1	25.9	28	42	25	40	20.1	23
125	22.5	21.3	43	47	41	44	20.5	25.2	18.5	22.2	26	40	23	38	19.5	22
155.5	25.4	23.8	42	45	40	42	16.6	21.3	14.6	18.3	24	38	21	36	18.8	21
175	27.1	25.3	41	44	39	41	13.9	19.1	11.9	16.1	23	37	20	35	18.4	21
200	29.2	27.0	40	44	38	41	10.8	16.5	8.8	13.5	22	36	19	34	18.0	20
250	33.0	32.0	38	42	36	39	5.0	10.0	2.0	7.0	20	34	17	32	17.3	19
300		36.1		41		38		4.8		1.8		32		30		19
400		41.7		39		36		-2.7		-5.7		30		28		18

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

Technical data

Product Reference Code	Productname	Outer dia-meter mm	Euro Class	Fire load		Weight kg/km	Copper index	Tensile force N
				MJ/km	kWh/m			
60052641	UC400 C6 U/UTP HD LSHF-FR Dca BU	5.4	D _{ca} s2d2a1	325	0,089	37	18.1	100
60052665	UC400 C6 U/UTP HD LSHF-FR Dca BU 305BR	5.4	D _{ca} s2d2a1	325	0,089	37	18.1	100
60052646	UC400 C6 U/UTP HD LSHF-FR Dca BU 500DW	5.4	D _{ca} s2d2a1	325	0,089	37	18.1	100