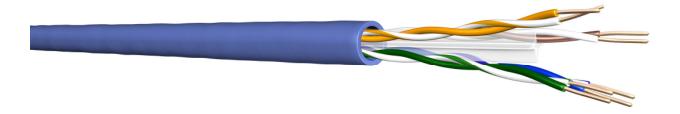




UC400 Cat.6 U/UTP HD

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

PVC: IEC 60332-1; Class Eca

LSHF(FRNC): IEC 60332-1; 60754-2; IEC 61034; Class Eca

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	PVC or LSHF (FRNC, LSOH), 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

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	Atten	enuation 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

Technical data

Product Reference	Produktname	Outer diameter	Euro Class	Fire load		Weight	Copper index	Tensile force		
Code		mm		MJ/km	kWh/m	kg/km		N		
60010360	UC400 Cat.6 U/UTP HD 4P LSHF (Bu) 305BR	5.3	Eca	316	0.087	36	18,1	100		
60011705	UC400 Cat.6 U/UTP HD 4P PVC (Gy) 305BR	5.3	Eca	316	0.087	36	18,1	100		
60025990	UC400 Cat.6 U/UTP HD 4P LSHF (Bu) 500m	5.3	Eca	316	0.087	36	18,1	100		
60026614	UC400 Cat.6 U/UTP HD 4P PVC (Bu) 500m	5.3	Eca	316	0.087	36	18,1	100		