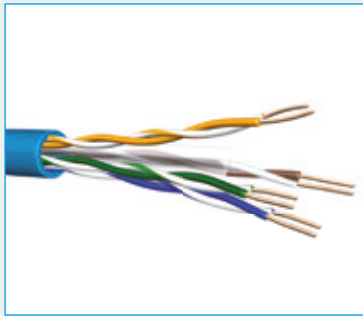


2.1. Cable

**Application**

Primary (Campus)

Secondary (Riser)

Tertiary (Horizontal)

IEEE 802.3: 10Base-T; 100Base-T;

1000Base-T; IEEE 802.5 16 MB;

ISDN; TPDDI; ATM

Standards

EIA/TIA-568-B.2-1 6/2002.

ISO/IEC 11801 2nd ed.; IEC 61156-5

EN 50173-1, EN 50288-6-1

Flame resistance

PVC IEC 60332-1

LSHF IEC 60332-1; IEC 60754-2;
IEC 61034

UC400 23 Cat.6 U/UTP

U/UTP Installation Cable

**Construction**

Conductor	bare copper wire Ø 0.57 mm (AWG23)
Insulation	Polyethylene, Ø 1.0 mm
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
Minimum bending radius Installed	4 x D
Temperature range during operation	-20°C up to + 60°C
Temperature range during installation	0°C up to + 50°C

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
Characteristic impedance (1-100 MHz)	(100±15) Ω
Characteristic impedance (100 - 250 MHz)	(100±22) Ω
Nominal velocity of propagation	approx. 67 %
Propagation delay	≤ 535 ns/100m
Delay skew	≤ 20 ns/100m
Test voltage (DC, 1 min) Core/Core	1000 V
Coupling attenuation	≥ 40 dB

Nominal transmission characteristics 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
1	1.9	78	75	76.1	73.1	82	80	20
10	6.0	63	60	57.0	54.0	62	60	25
100	19.1	48	45	28.9	25.9	42	40	20.1
200	27.0	44	41	16.5	13.5	36	34	18.0
300	36.1	41	38	4.8	1.8	32	30	
400	41.7	39	36	-2.7	-5.7	30	28	

Technical data

Product code	Product name	Outer diameter	Fire load		Weight	Copper content	Max. tensile force during installation
			MJ/km	kWh/m			
		Mm	MJ/km	kWh/m	kg/km	kg/km	N
60011055	UC400 23 Cat.6 4P	6.2	358	0.099	39	20,5	100
60011059	UC400 23 Cat.6 4P LSHF	6.2	329	0.091	40	20,5	100