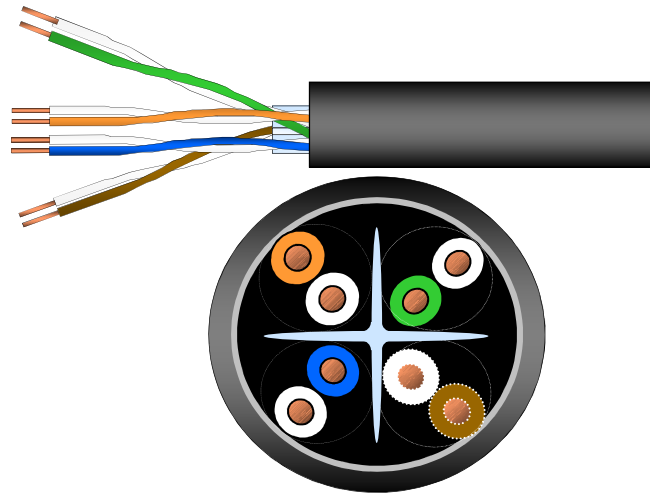


## Category 6 U/UTP External

100 $\Omega$  Data Cable IEC 61156-5 CAT-6

100 $\Omega$  Data Cable EN50288-6: 250MHz



### Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)  
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T  
IEEE 802.5 16 MB; ISDN; FDDI; ATM

### Standards

EIA/TIA 568-c  
ISO/IEC 11801 2<sup>nd</sup> ed; IEC 61156-5  
EN 50173; EN 50288-6-1

### PE Waterproof Jacket

PE: (LSHF) IEC 60754-2; IEC 61034 No flame retardance.

### Construction

Conductor	bare copper wire $\varnothing$ (AWG23)
Insulation	Solid Polyethylene, $\varnothing$ 1.04 mm nom
Twisting	2 cores to the pair
Cable lay up	1x4 pairs to the core
Pair screen	N/A
Overall screen	N/A
tape	N/A
Sheath	PE (LSZH ) UV stabilised

## Category 6 U/UTP External

### Mechanical Properties

Bending radius	without load	≥ 40 mm
	with load	≥ 80 mm
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

### Electrical Properties

at 20°C ± 5°C

DC loop resistance		≤ 165 Ω/km
Resistance unbalance		≤ 2%
Insulation resistance	(500 V)	≥ 2000 MΩxkm
Capacitance	at 800 Hz	Nom. 43 nF/km
Capacitance unbalance	(pair to ground)	≤ 1500 pF/km
Return Loss	(100 MHz)	20.1dB
	(250 MHz)	8.47dB
Nominal velocity of propagation		approx. 66%
Propagation delay		≤ 427 ns/100 m
Delay skew		≤ 12 ns/100 m
Test voltage	(DC, 1 min) Core/Core and Core/Screen	1000 V

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1.0	2.1	75.0	72.0	67.0	65.0	20.0
4.0	3.8	66.0	63.0	55.0	53.0	23.0
10.0	6.0	60.0	57.0	47.0	45.0	25.0
16.0	7.6	57.0	54.0	43.0	41.0	25.0
20.0	8.5	56.0	53.0	41.0	39.0	25.0
31.2	10.7	53.0	50.0	37.0	35.0	24.0
62.5	15.5	48.0	45.0	31.0	29.0	22.0
100.0	19.9	45.0	42.0	27.0	25.0	20.0
125.0	22.5	44.0	41.0	25.0	23.0	19.0
155.5	25.3	43.0	40.0	23.0	21.0	19.0
175.0	27.1	42.0	39.0	22.0	20.0	18.0
200.0	29.2	41.0	38.0	21.0	19.0	18.0
250.0	33.0	39.0	36.0	19.0	17.0	17.0

## Category 6 U/UTP External

### Product order data

Product code	Designation	Product name	Outer diameter	Fire load		Weight	Copper content	Max tensile force during installation
			Mm	MJ/km	kWh/m	kg/km	kg/km	N
60011281	J-2YY 4x2x0.56	UC400 23 Cat.6 U/UTP 4P PE	6.1	425	0.121	39	18.5	100N

[PRODUCT CODE TABLE]

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