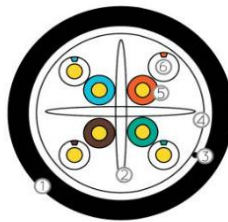
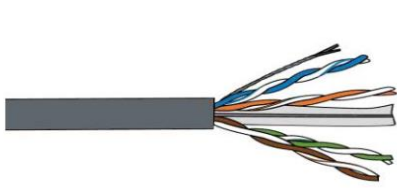




We provide our customers with exceptional **PRODUCTS** in accordance with the highest international standards and also provide **SERVICES** that meets our customers' needs or exceed their expectations.

Powered by: **PROLINK**



- ① Outer Jacket;
- ② Cross Separator;
- ③ Rip-cord;
- ④ PET tape;
- ⑤ Insulation;
- ⑥ Conductor.

Description Cable

Category 6 U/UTP Cable, 23AWG, low smoke zero halogen, white jacket, 4 pair count, 305 m length Reel in box

Reference Cable

PROLINK Positioning CAT.6 U/UTP

Construction

Conductor	Solid copper wire AWG23 (Ø 0.58mm)
Insulation	Polyethylene ≤ Ø 1.1 mm.
Twisting	2 cores to the pair.
Cable lay up	4 pairs to the core, non-metallic cross separator (spline). Migration and water protection.
Sheath	White , LSZH or PVC

Application

- Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
- IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
- IEEE 802.5 16 MB; ISDN; TPDDI; ATM
- IEEE 802.3af-2002: POE; IEEE 802.3at: POE+
- Outdoor installations. Filled with compound to prevent water penetration.
- To ensure electrical properties even in continuous wet conditions.

Standards

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

Water penetration rating

IEC 60794-1-2F5 , method B

Fire rating

-(PE outer sheath) IEC 60754-2; Smoke classification: No

Technical Data

<u>Cable designation:</u>	Industry U/UTP Cat.6 500MHz 4PxAWG23
<u>Packaging :</u>	Drum 305
<u>Outer diameter:</u>	Nominal 7.2 mm
<u>Weight:</u>	20 kg / km
<u>Thermal load :</u>	1884 MJ / km
<u>Segregation class :</u>	b

Mechanical Properties

Tensile force	100 N
Bending radius	≥ 33 mm during operation (without load) ≥ 65 mm during installation (with load)
Temperature range	During operation -55°C...+ 60°C During installation -15°C...+ 50°C

**Electrical Properties
(at 20°C ± 5°C)**

DC loop residence	≤ 17.6 Ω / 100 m
Resistance unbalance	≤ 2 %
Test voltage	DC, 1 min, core/core 1000 V
Insulation resistance	500 V ≥ 5000 MΩ * km
Capacitance	48 pF / m nom.
Capacitance unbalance	≤ 1500 pF / km
Mean characteristic impedance	100 ± 5 Ω
Nominal velocity of propagation	Approx. 67 %
Propagation delay	At 1 MHz ≤ 535 ns / 100 m
Delay skew	≤ 20 ns / 100 m
Coupling attenuation	≥ 40 dB
Balance TCL	At 1 MHz ≤ 55 Db - At 10 MHz ≤ 40 dB At 100 MHz ≤ 35 dB

Typical transmission characteristics (at 20°C)

F (MHZ)	Attenuation (Db/100 m)		NEXT (dB)		PS-NEXT (dB)		(ACR-F 1 (dB/100 m)		(PS-ACR -F 1 (dB/100 m)		Return loss (dB)	
	Max	Typ	max	Typ	Max	Typ	Max	Typ	max	Typ	Max	Typ
4	3.8	3.8	66	71	66	63	58	59	55	56	23	26
10	6	5.6	60	65	57	60	50	50	47	48	25	28
20	8.5	8.5	56	60	53	56	44	45	41	42	25	28
62.5	15.5	15.1	48	56	45	48	34	35	31	32	21.5	25
100	19.9	19.1	45	50	42	45	30	31	27	28	20.1	23
250	33	32	39	44	36	39	22	23	19	20	17.3	20
450	-	44.8	-	40	-	35	-	15	-	17	-	20