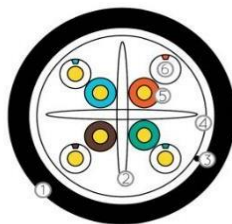
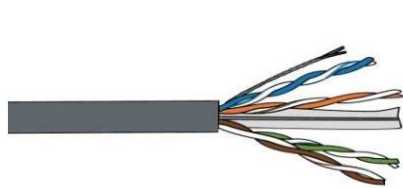




We provide our customers with exceptional PRODUCTS in accordance with the highest international standards and also provide SERVICES that meet our customers' needs or exceeds their expectations.

Powered by: **PROLINK**



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



Description	Category 6 U/UTP Cable, 23AWG, PVC, orange jacket, 4 pair count, 305 m length Reel in a box	
Cable Reference	PROLINK Positioning CAT.6 U/UTP	
Cable construction	Conductor	Solid copper wire AWG23 (Ø 0.58mm).
	Insulation	Polyethylene ≤ Ø 1.1 mm.
	Cable lay up	4 pairs to the core, non-metallic cross separator (spline).
	Cable core lying	Waterproof compound to prevent moisture migration and water protection.
	Sheath	Orange, 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 classic cation: No	
Technical Data	<u>Cable designation</u>	Industry U/UTP Cat.6 500MHz 4PxAWG23
	<u>Packaging</u>	Drum 305 m
	<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)
Electrical Properties (at 20°C ± 5°C)	Temperature range	During operation -55°C...+ 60°C During installation -15°C...+ 50°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	63	66	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