

# PRENET STRUCTURED CABLING SOLUTIONS



## Category 6 UTP 4 Pair Outdoor Cable

Unshielded (UTP) 4 pair category 6 outdoor cables characterized up to 250 MHz, with high-quality electric and mechanical properties to meet high-end performance and weather resistant jacket suitable for installation in outdoor duct environment.

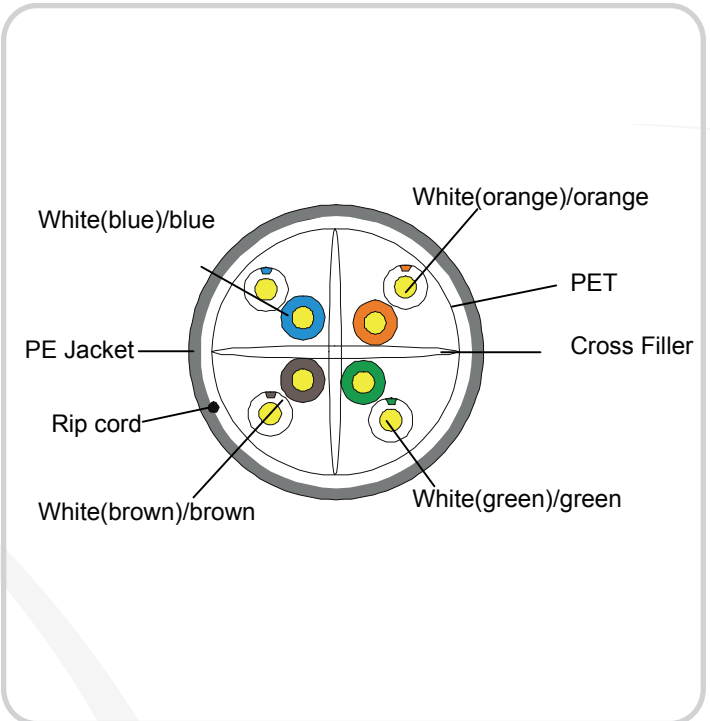
### Standards

ANSI/TIA/EIA-568B.2-1 and ISO/IEC 11801 2nd edition:2002 which covers the requirements for UTP cables of 100 Ohms, category 6 cable.

### Applications

- ❖ Backbone Cabling for campus outdoor application
- ❖ 4/16 Mbps Token Ring (IEEE 802.5)
- ❖ 10/100/1000 BASE-T (IEEE 802.3)
- ❖ 155 Mbps ATM
- ❖ 100 Mbps TP-PMD
- ❖ ISDN
- ❖ ADSL

### Specifications



Materials:	
Conductive Material:	Solid Bare Copper
Conductive Insulation:	HDPE
Inner Screening Material:	PET
Cable Jacket:	PE

Technical Characteristics:	
Conductor Diameter:	23 AWG
Insulated Conductor Diameter:	0.97 ± 0.03 mm
Outer Cable Diameter:	6.6± 0.5 mm
Jacket Thickness:	0.60 mm ± 0.05 mm
Pulling Strength:	110N
Minimum Bend Radius:	4 times outer diameter
Operating Temperature:	-20°C to + 75° C

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### Electrical Characteristics

Frequency (MHZ)	RL ≥dB	ATT (20° C) ≤dB	NEXT ≥dB	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20	2.03	74.3	72.3	67.8	64.8
4	23	3.78	65.3	63.3	55.8	52.8
8	24.5	5.32	60.8	58.8	49.7	46.7
10	25	5.95	59.3	57.3	47.8	44.8
16	25	7.55	56.2	54.2	43.7	40.7
20	25	8.47	54.8	52.8	41.8	38.8
25	24.3	9.51	53.3	41.3	39.8	36.8
31.25	23.6	10.67	51.9	49.9	37.9	34.9
62.5	21.5	15.38	47.7	45.4	31.9	28.9
100	20.1	19.80	44.3	42.3	27.8	24.8
200	18	28.98	39.8	37.8	21.8	18.8
250	17.3	32.85	38.3	36.3	19.8	16.8

DC Resistance Max:	9.38 Ohm/100 m
DC Resistance Unbalance:	Max 5%
Mutual Capacitance:	Max 5.6 nF/100m
Capacitance Unbalance Pair:	Max 330pF/100m
Impedance:	1~250MHz 100 ±15 Ω
Propagation Delay:	Max. 536 ns/100m @ 250 MHz
Dielectric Strength:	DC KV/sec. 2.5 / 2
Propagation Delay Skew:	Max 45 ns/100m
Insulation Resistance - 305m:	Min. 100

### Ordering Information

SCS-UTP4-C6-PE-BK	Unshielded Twisted Pair Cable (UTP), Category 6 4 Pairs, solid Outdoor, 305m roll
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