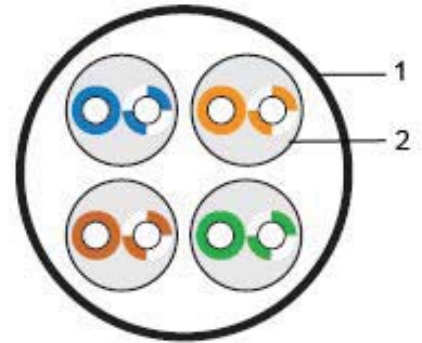
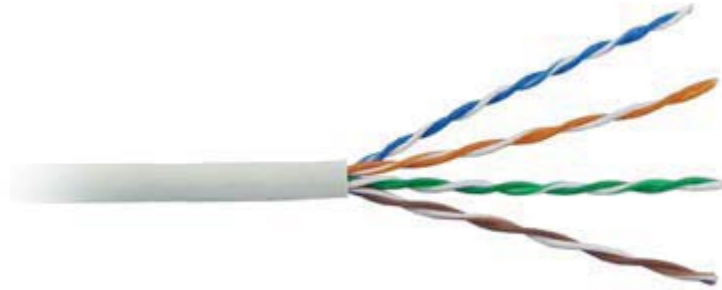


PRENET STRUCTURED CABLING SOLUTIONS

Twisted Pair Cable(UTP),
4 Pairs, Category 5e, Indoor



1 - Jacket
2 - Solid twisted pair

Description:

4 pair unshielded cable (U/UTP) characterized up to 100 MHz, Category 5e solid cable. Capable of handling full broadband and baseband video signals for indoor installation.

Specifications:

UL 444, ANSI/TIA/EIA-568B.2 and ISO/IEC 11801 2nd edition: 2002 which covers the requirements for unshielded twisted pair (UTP) cables of 100Ω, category 5e.
Fire protection – Fire retardant, compliant to IEC 60332-1.

Application:

Horizontal Distribution & Backbone Cabling
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

Materials:

Conductive material: Wire made of soft annealed electrolytic copper
Conductor insulation: HDPE
Cable jacket: PVC /LSZH

Technical characteristics:

Conductor diameter: 24 AWG
Insulated conductor diameter: $(0.9 \pm 0.02 \text{ mm})$
Outer cable diameter: $5.1 \pm 0.2 \text{ mm}$
Jacket thickness: 0.4 mm
Minimum bend radius: 4 outer cable diameters

PRENET STRUCTURED CABLING SOLUTIONS



Opterna[®]
your connection

Twisted Pair Cable(UTP), 4 Pairs, Category 5e, Indoor

Conductor elongation: 14% minimum
Rip cord has a breaking strength of 22 lbs (98 N)

Installation temperature: -5°C – +50°C (+23°F – +122°F)
Operating temperature: -20°C – +75°C (-4°F – +167°F)

Electrical characteristics

Frequency, MHz	RL	Attenuation, dB	NEXT, dB	PSNEXT, dB	ELFEXT, dB	PSELFEXT, dB
1.0	20.0	2.0	65.3	62.3	63.8	60.8
4.0	23.0	4.0	56.3	53.3	51.7	48.7
8.0	24.5	5.8	51.8	48.8	45.7	42.7
10.0	25.0	6.5	50.3	47.3	43.8	40.8
16.0	25.0	8.2	47.3	44.3	39.7	36.7
20.0	25.0	9.3	45.8	42.8	37.7	34.7
25.0	24.3	10.4	44.3	41.3	35.8	32.8
31.25	23.6	11.7	42.9	39.9	33.9	30.9
62.5	21.5	17.0	38.4	35.4	27.8	24.8
100.0	20.1	22.0	35.3	32.3	23.8	20.8

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 1~100MHz 100 ±15 Ω

Propagation Delay Max. 538 ns/100m @ 100 MHz

Dielectric Strength DC KV/sec. 2.5 / 2

Propagation Delay Skew Max 45 ns/100m

Insulation resistance MΩ-305m Min. 100

Ordering

SCS-UTP4-C5e-PVC-X Twisted Pair cable UTP, category 5e, 4 pairs, solid PVC, 305m box

SCS-UTP4-C5e-LSZH-X Twisted Pair cable UTP, category 5e, 4 pairs, solid LSZH, 305m box

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