

PRENET STRUCTURED CABLING SOLUTIONS

Unshielded Twisted Pair Cable(UTP),
Multiple Pair, Category 3, Indoor



Description:

Opterna unshielded twisted pair (UTP) category 3 cable is designed for use in backbone cabling systems as per TIA/EIA 568-B and ISO /IEC 11801 standards. The cable consists of multiple pairs of AWG solid annealed copper insulated conductors, assembled into twisted pairs, with a ripcord, under an overall jacket.

Specifications:

Meets and exceeds EIA/TIA 568-B-2 and ISO/IEC 11801 for category 3 requirements.
Fire protection – Fire retardant, compliant to IEC 60332-1

Application:

Opterna multi-pair category 3 UTP backbone cables are intended for data and voice applications including
Ethernet 10BASE-T
Voice

Materials:

Conductive material: Solid annealed electrolytic copper
Conductor insulation: HDPE
The cable jacket: PVC/LSZH

Technical Characteristics:

Conductor diameter: 24 AWG
Insulated conductor diameter: 0.90 mm nominal
Outer cable diameter: 2 Pair - 3.5 mm / 10 Pair - 7.3 mm / 25 Pair - 11.00 mm /
50 Pair - 15.00 mm/ 100 Pair - 20.40 mm
Jacket thickness : 2 Pair - 0.5 mm / 10 Pair - 0.8 mm / 25 Pair - 1.20 mm /
50 Pair - 1.40 mm / 100 Pair - 1.60 mm

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Electrical characteristics:

Frequency, MHz	RL	Attenuation, dB	NEXT, dB
1.0	12	2.60	41.30
4.0	12	5.60	32.30
8.0	12	8.50	27.80
10.0	12	9.70	26.30
16.0	9.96	13.10	23.20

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 1~16MHz	100 ±15 Ω

Color Code:

Pair 1	White/Blue	Blue/White	Pair 13	Black/Green	Green/Black
Pair 2	White/Orange	Orange/White	Pair 14	Black/Brown	Brown/Black
Pair 3	White/Green	Green/White	Pair 15	Black/Gray	Gray/Black
Pair 4	White/Brown	Brown/White	Pair 16	Yellow/Blue	Blue/Yellow
Pair 5	White/Gray	Gray/White	Pair 17	Yellow/Orange	Orange/Yellow
Pair 6	Red/Blue	Blue/Red	Pair 18	Yellow/Green	Green/Yellow
Pair 7	Red/Orange	Orange/Red	Pair 19	Yellow/Brown	Brown/Yellow
Pair 8	Red/Green	Green/Red	Pair 20	Yellow/Gray	Gray/Yellow
Pair 9	Red/Brown	Brown/Red	Pair 21	Violet/Blue	Blue/Violet
Pair 10	Red/Gray	Gray/Red	Pair 22	Violet/Orange	Orange/Violet
Pair 11	Black/Blue	Blue/Black	Pair 23	Violet/Green	Green/Violet
Pair 12	Black/Orange	Orange/Black	Pair 24	Violet/Brown	Brown/Violet
			Pair 25	Violet/Gray	Gray/Violet

Ordering:

SCS-UTP-XXX-C3-PVC	Unshielded Twisted Pair Cable UTP, 02/04/05/06/10/25/50/100 pairs, solid, indoor, category 3, 500 meters drum
SCS-UTP-XXX-C3-LSZH	Unshielded Twisted Pair Cable UTP, 02/04/05/06/10/25/50/100 pairs, solid, indoor, category 3, 500 meters drum

XXX – quantity of pairs: 02, 04, 05, 06, 10, 25, 50, 100 pairs

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