

PRENET STRUCTURED CABLING SOLUTIONS



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

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.

Specification

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

Applications

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 / PE

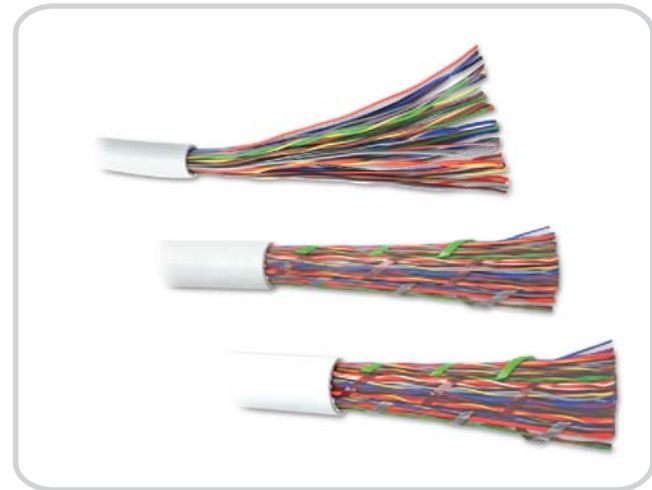
Technical Characteristics

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

Pair Identification - Color Code Table

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

Tape Lapping Identification

1 Unit	Blue	5 Units	Grey	9 Units	Yellow
2 Units	Orange	6 Units	White	10 Units	Violet
3 Units	Green	7 Units	Red		
4 Units	Brown	8 Units	Black		

Ordering Information

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