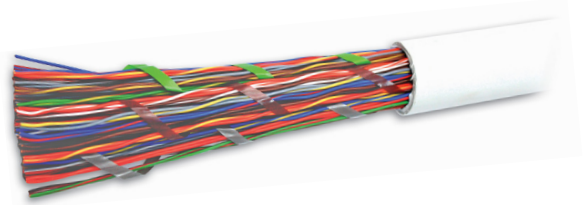


CAT3, U/UTP Indoor Cable



Features & Benefits

- Up to 100 pairs per cable
- 24 AWG solid conductors
- HDPE insulation on all copper conductors
- Compliant to ANSI/TIA-568.2-D, ISO/IEC 11801-1:2017 and CENELEC - EN 50173-1:2018
- Reliable performance
- Color-coded multi-pairs
- Super-standard performance margin



Overview

PPC's Unshielded Twisted Pair (UTP) multi-pair category 3 cable is designed for use in backbone cabling systems as per ANSI/TIA-568.2-D, ISO/IEC 11801-1:2017 and CENELEC - EN 50173-1 standards. The cable is available in 2, 4, 5, 6, 10, 25, 50, 100 pairs of 24 AWG solid copper insulated conductors, assembled into twisted pairs, with a ripcord and an overall jacket.

The UTP cable's conductors are made of solid bare copper high-density polyethylene (HDPE) insulation. Two insulated conductors are twisted together to form a pair and multiple pairs are bundled together with a color binder to form the cable sub-unit. For higher count multi pair cable, the sub-unit will be identified with a color code. The multi-pairs are wrapped with an overall polyester tape for extra protection. The cable is available in either PVC or a LSZH jacket.

Applications

- Backbone Cabling
- 10 BASE-T (IEEE 802.3)
- Analog Voice, ISDN, ADSL
- HVAC, Alarm systems and other signalling

Standards

- UL 444
- ANSI/TIA-568.2-D
- ISO/IEC 11801-1:2017, Class C
- CENELEC - EN 50173-1:2018, Class C
- IEC 60332-1-2, IEC 60754-1/-2 & IEC 61034-2

Technical Data

Mechanical Data

Specification	Values							
Material	Conductor material - Solid bare copper Conductor insulation - HDPE Cable jacket - PVC / LSZH							
Conductor diameter	24 AWG							
Insulated conductor diameter	0.9 ± 0.02 mm							
Outer cable diameter in mm	2 Pair	4 Pair	5 Pair	6 Pair	10 Pair	25 Pair	50 Pair	100 Pair
	3.5	5.0	5.4	5.8	7.3	11.00	15.00	20.40
Jacket thickness in mm	2 Pair	4 Pair	5 Pair	6 Pair	10 Pair	25 Pair	50 Pair	100 Pair
	0.50	0.50	0.55	0.55	0.80	1.20	1.40	1.60

CAT3, U/UTP Indoor Cable



Technical Data

Fire Rating

Specification	Values
PVC jacket	IEC60332-1-2
LSZH jacket	IEC 60332-1-2, IEC 60754-1/-2 & IEC 61034-2

Electrical Data

Frequency (≥MHz)	RL (≥dB)	ATT 20°C (≥dB)	NEXT (≥dB)
1	12	2.60	41.30
4	12	5.60	32.30
8	12	8.50	27.80
10	12	9.70	26.30
16	9.96	13.10	23.20

Electrical characteristics	Value
DC resistance max	9.38 Ohm/100m
DC resistance unbalance	Max 5%
Mutual capacitance	Max 5.6 nF/100m
Capacitance unbalance pair	Max 330pF/100m
Impedance 1-16 MHz	100 ± 15Ω

Environmental Data

Temperature range	Value
Operation	-20 °C to 75 °C (-4 °F to 167 °F)

Pair Identification

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

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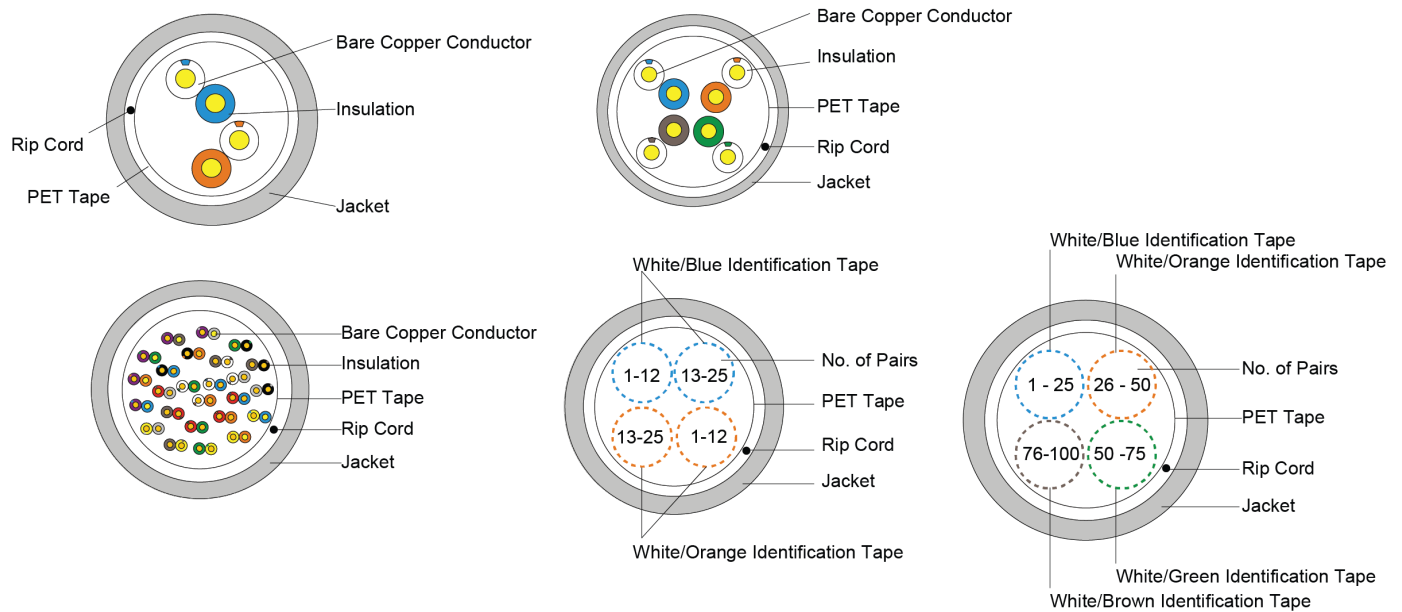


Technical Data

Pair Identification

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

Technical Drawing



Ordering Information

Part Number	Description
SCSUTPxxxC3PVC	Unshielded Twisted Pair Cable (U/UTP), Category 3, solid PVC, 500m drum
SCSUTPxxxC3LSZH	Unshielded Twisted Pair Cable (U/UTP), Category 3, solid LSZH, 500m drum

xxx – Number of Pairs: 002, 004, 005, 006, 010, 025, 050, 100 pairs