

Category 3 UTP 22AWG Central Office PVC Sheath Cable

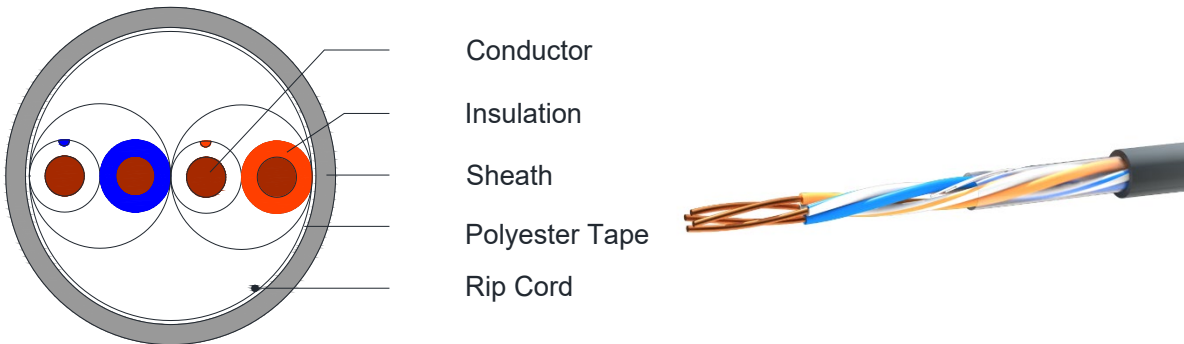


C1582, C1583, C1581, C1584, C1585, C1586, C1587, C1588, C1589, C1590, C1591 C1592, C1593

Applications

Unshielded Multi-Pair cables suitable as internal telephone cable, Category 3 Riser and LAN cable, 10 Base-T and 10 Base-T4.

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Bare Copper wire
Insulation	Polyolefin
Twining	Pair construction
Stranding	Pairs are stranded in units of 10 or 25 pairs
Core wrapping	Overlapping Polyester tape(s)
Rip cord	Nylon Yarn
Sheath Material	Flame-Retardant Polyvinyl Chloride (PVC) Standard Colour: Grey
Put up Length	305m

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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Physical Characteristics

Part Number	C1582	C1583	C1581	C1584	C1585	C1586	C1587	C1588	C1589	C1590	C1591	C1592	C1593
No of pairs	2	3	4	6	12	18	20	25	50	75	100	150	200
Conductor size (AWG)	22												
Nom. Diameter Insulation (mm)	1.10												
Nom. Radial Thickness Sheath (mm)	0.5	0.5	0.5	0.5	0.80	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.2
Nom. Overall Diameter (mm)	5.2	5.5	5.9	6.9	9.8	11.9	12.2	14.2	20.9	25.8	28.7	35.2	38.5
Operating Temperature range (°C)	-15/+70												
Max. Pulling Tension (N)	37	100	105	112	220	300	370	460	930	1380	1860	2790	3720
Min. Bend Radius (install) (mm)	52	55	59	69	98	119	122	142	209	258	287	352	385
Nominal Cable Weight (kg/km)	24.5	32	39	56	115	172	188	230	430	633	816	1186	1560

Electrical Characteristics at 20°C (1)

Maximum Conductor Resistance (Ω/km)	Maximum Mutual Capacitance (pF/m)	Nominal Capacitance Unbalance (pF/100m)	Nominal Velocity Propagation (%)	Maximum Time Delay (ns)	Minimum Insulation Resistance (MΩ*km)	Max. Operating Voltage (Vrms)
57.4	66	330	65	45	10000	300

Electrical Characteristics at 20°C (2)

Frequency	Maximum Attenuation	Maximum NEXT	Minimum Return Loss	Impedance
1	2.1	41.3	12.0	100 ± 15
4	4.5	32.3	12.0	100 ± 15
8	6.8	27.8	12.0	100 ± 15
10	7.8	26.3	12.0	100 ± 15
16	10.6	23.3	10.0	100 ± 15

Cable Make-Up

Part Number	C1582	C1583	C1581	C1584	C1585	C1586	C1587	C1588	C1589	C1590	C1591	C1592	C1593
No of pairs	2	3	4	6	12	18	20	25	50	75	100	150	200
Number of pairs per unit								25	2*13 + 2*12	25	25	25	25
Number of units in the centre								1	4	3	4	1	1
Number of units in the 1e layer												5	7

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Pair Colour Code

Pair No.	Colours	Pair No.	Colours	Pair No.	Colours
1	WHITE / Blue + BLUE	11	BLACK / Blue + BLUE	21	PURPLE / Blue + BLUE
2	WHITE / Orange + ORANGE	12	BLACK / Orange + ORANGE	22	PURPLE / Orange + ORANGE
3	WHITE / Green + GREEN	13	BLACK / Green + GREEN	23	PURPLE / Green + GREEN
4	WHITE / Brown + BROWN	14	BLACK / Brown + BROWN	24	PURPLE / Brown + BROWN
5	WHITE / Grey + GREY	15	BLACK / Grey + GREY	25	PURPLE / Grey + GREY
6	RED / Blue + BLUE	16	YELLOW / Blue + BLUE		
7	RED / Orange + ORANGE	17	YELLOW / Orange + ORANGE		
8	RED / Green + GREEN	18	YELLOW / Green + GREEN		
9	RED / Brown + BROWN	19	YELLOW / Brown + BROWN		
10	RED / Grey + GREY	20	YELLOW / Grey + GREY		

Pair Color for 50 pair cable: 13pair units as pair No's 1 to 13, 12pair units as pairs No's 14 to 25

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No of pairs	2	3	4	6	12	18	20	25	50	75	100	150	200
Binder colours centre								Blue	Blue Orange Green Brown	Blue Orange Green	Blue Orange Green Brown	Blue	Blue
Binder colours first layer												Orange Green Brown Grey White	Orange Green Brown Grey White Red yellow

Reference Standards

ISO 11801: Category 3
TIA/EIA 568-C2: Category 3
EN 50290-2
IEC 60332-1
RoHS directives