

Category 3 UTP 24AWG Central Office Cable PVC CMR Sheath

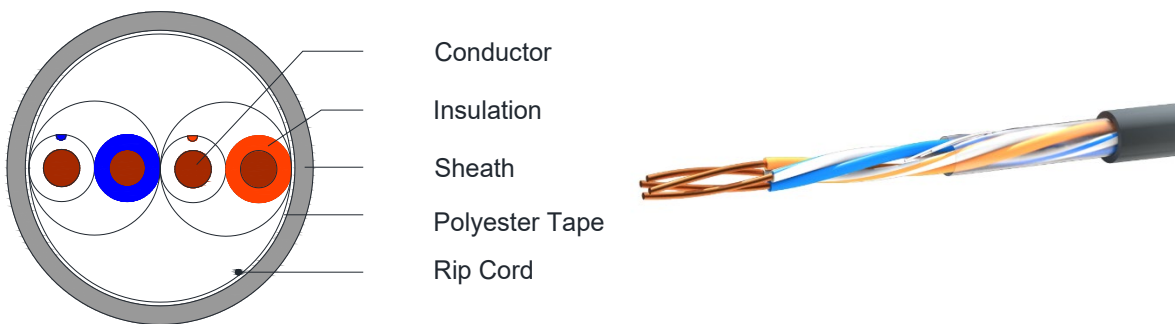


CI415, CI424, CI416, CI417, C4245, C4246, CI418, CI419, CI420, CI421, CI422, CI423

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
Twinning	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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C1415, C1424, C1416, C1417, C4245, C4246, C1418, C1419, C1420, C1421, C1422, C1423

Physical Characteristics

Part Number	C1415	C1424	C1416	C1417	C4245	C4246	C1418	C1419	C1420	C1421	C1422	C1423
No of pairs	2	3	6	12	18	20	25	50	75	100	150	200
Conductor Size (AWG)	24											
Nom. Diameter Insulation (mm)	0.9											
Nom. Radial Thickness Sheath (mm)	0.5	0.5	0.5	0.75	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.0
Nom. Overall Diameter (mm)	4.0	4.5	6.0	7.2	9.7	10.0	11.8	16.0	18.6	20.5	26.9	29.5
Operating Temperature range(°C)	-15/+70											
Max. Pulling Tension (N)	30	80	90	180	240	300	375	750	1120	1500	2250	3000
Min. Bend Radius (install) (mm)	40	45	60	72	97	100	118	160	186	205	269	295
Nominal Cable Weight (kg/km)	17.5	23	43.5	95	113	123	170	340	432	550	800	1040

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)
96	66	330	65	45	10000	300

Electrical Characteristics at 20°C (2)

Frequency	Maximum Attenuation	Maximum NEXT	Minimum Return Loss	Impedance
1	2.6	41.3	12.0	100 ± 15
4	5.6	32.3	12.0	100 ± 15
8	8.5	27.8	12.0	100 ± 15
10	9.7	26.3	12.0	100 ± 15
16	13.1	23.3	10.0	100 ± 15

Cable Make-Up

Part Number	C1031	C1413	C1266	C1267	C1425	C1426	C1032	C1033	C1414	C1034	C1268	C1269
No of pairs	2	3	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	6	12	18	20	25	50	75	100	150	200
Binder colours centre							Blue	Blue Orange Green Brown	Blue Orange Green Brown	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
CMR UL1666
RoHS directives