

Category 3 Central Office Cable

250PR, 24AWG, UTP with PE Sheath



C1981

Applications

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

Design

Unit	Properties
Conductor	Solid Bare Copper wire
Insulation	Polyolefin
Twinning	Pair construction
Stranding	2 Sub-units of 12 pairs (pairs 1-12) and 13 pairs (pairs 13-25) respectively, shall be formed from a unit of 50 pairs
Blinder color tape	Colored Polyester tape(s)
Overall wrapping	Overlapping Polyester tape(s)
Rip cord	Nylon Yarn
Sheath Material	Polyethylene Standard Colour: Black
Put up Length	305m

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

Physical Characteristics

Part Number	C1981
No of pairs	250
Conductor Size (AWG)	24
Nom. Diameter Insulation (mm)	0.87
Nom. Radial Thickness Sheath (mm)	1.40
Nom. Overall Diameter (mm)	30.5
Operating Temperature range(°C)	-15/+70
Min. Bend Radius (install) (mm)	305

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

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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	C1981
No of pairs	250
Cable construction of Units	5*((12+13)*2+(12+13)*2)
Blind Tape Color of Units	White, White, White, White, White
Blind Tape Color of Sun-Unite 1	White/Blue, White/Blue White/Orange, White/Orange
Blind Tape Color of Sun-Unite 2	White/Green, White/Green White/Brown, White/Brown
Blind Tape Color of Sun-Unite 3	White/Grey, White/Grey Red/Blue, Red/Blue
Blind Tape Color of Sun-Unite 4	Red/Orange, Red/Orange Red/Green, Red/Green
Blind Tape Color of Sun-Unite 5	Red/Brown, Red/Brown Red/Grey, Red/Grey

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: 12pair units as pairs No's 1 to 12, 13pair units as pair No's 13 to 25,

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Reference Standards

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