

# Category 3 UTP 200 and 400Pairs PE Sheath Cable



**C1897, C1898**

## Applications

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

## Design

Unit	Properties
Conductor	Bare Copper wire, 24AWG solid
Insulation	Polyolefin
Twinning	Pair construction
Stranding	Pairs are stranded in units with binder tape
Core wrapping	Overlapping Polyester tape(s)
Rip Cord	Nylon Yarn
Sheath Material	Low Density Polyethylene (LDPE) Standard colour: Black UV Resistant
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	C1897	C1898
No of pairs	200	400
Nom. Diameter Conductor (mm)	0.49	
Nom. Diameter Insulation (mm)	0.87	
Nom. Radial Thickness Sheath (mm)	1.80	2.0
Nom. Overall Diameter (mm)	28.5	38.0
Operating Temperature range(°C)	-15 to 60	

## Electrical Characteristics at 20°C (1)

Maximum Conductor Resistance (Ω/km)	Maximum Mutual Capacitance (pF/m)	Nominal Velocity Propagation (%)	Maximum Time Delay(ns)	Minimum Insulation Resistance(MΩ*km)	Max. Operating Voltage (Vrms)
96	66	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

Allow 10% fail, consider of the large pair count.

## Pair Colour Code

Pair No.	Pair Colours in 2 – 6 or 10 pairs units or cables	Pair No.	Continuation of Pair Colours in Cable or Unit of 12 or 25 pairs	Pair No.	Continuation of Pair Colours in Cable or Unit of 25 pairs
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		

## Cable construction and blinder tape colour

PN	C1897	C1898
No of pairs	200	400
Cable make up	4*(2*(12+13))	4*(4*25)
Binder colours	White (White/Blue, White/Orange, White/Green, White/Brown) White (White/Blue, White/Orange, White/Green, White/Brown) White (White/Grey, Red/Blue, Red/Orange, Red/Green) White (White/Grey, Red/Blue, Red/Orange, Red/Green)	White (White/Blue, White/Orange, White/Green, White/Brown) White (White/Grey, Red/Blue, Red/Orange, Red/Green) White (Red/Brown, Red/Grey, Black/Blue, Black/Orange) White (Black/Green, Black/Brown, Black/Grey, Yellow/Blue)

## Reference Standards

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