

Category 3 Jelly filled Armoured PE Sheath Outdoor Cable

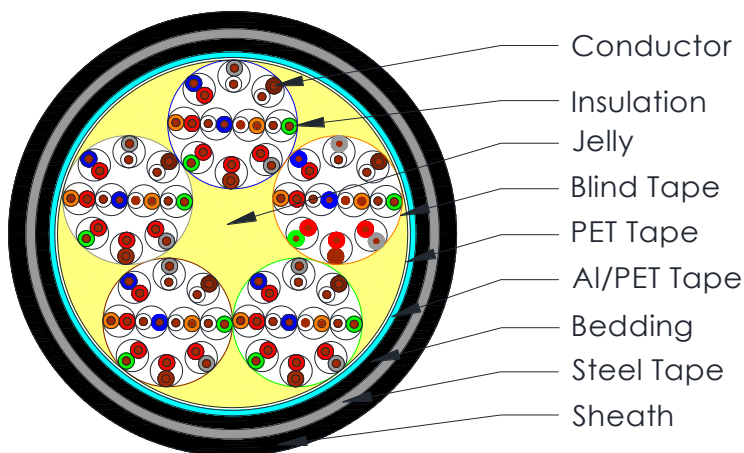


C1961, C1962, C1963, C1964, C1965, C1966

Applications

Outdoor used 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	Bare Copper wire, 24AWG solid
Insulation	Polyolefin
Twinning	Pair construction
Stranding	Pairs are stranded in units of 10, 20 or 25 pairs
Filling compound	Petroleum Jelly
Core wrapping	Overlapping Polyester tape(s)
Screen	Aluminum Tape
Bedding	Low Density Polyethylene (LDPE) Standard colour: Black
Armour	Steel Tape
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.

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Physical Characteristics

Part Number	C1961	C1962	C1963	C1964	C1965	C1966
No of pairs	50	100	200	300	400	500
Nom. Diameter Conductor (mm)	0.5					
Nom. Diameter Insulation (mm)	1.0					
Nom bedding thickness (mm)	1.0					
Nom steel tape thickness (mm)	0.15					
Nom. Radial Thickness Sheath (mm)	1.4	1.5	1.5	1.6	1.7	1.8
Nom. Overall Diameter (mm)	24.5	30.5	40.0	49.0	53.5	59.0
Operating Temperature range(°C)	-15 to 60					

Electrical Characteristics at 20°C (1)

Maximum Conductor Resistance (Ω/km)	Maximum Mutual Capacitance (pF/m)	Nominal 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

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	11	BLACK + BLUE	21	PURPLE + BLUE
2	WHITE + ORANGE	12	BLACK + ORANGE	22	PURPLE + ORANGE
3	WHITE + GREEN	13	BLACK + GREEN	23	PURPLE + GREEN
4	WHITE + BROWN	14	BLACK + BROWN	24	PURPLE + BROWN
5	WHITE + GREY	15	BLACK + GREY	25	PURPLE + GREY
6	RED + BLUE	16	YELLOW + BLUE		
7	RED + ORANGE	17	YELLOW + ORANGE		
8	RED + GREEN	18	YELLOW + GREEN		
9	RED + BROWN	19	YELLOW + BROWN		
10	RED + GREY	20	YELLOW + GREY		

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Cable construction and blinder tape colour

PN	C1961	C1962	C1963	C1964	C1965	C1966
No of pairs	50	100	200	300	400	500
Cable make up	-	-	1*50+6*25	6*50	1*100+6*50	5*100
Sub unit	-	-	50 = (12+13)*2	-	100=5*20	-
Binder colours centre	-	-	1*(White/Blue, White/Blue, White/Orange, White/Orange)	-	1*(White/Blue, White/Orange, White/Green, White/Brown, White/Grey)	-
Sub unit	5*10	5*20	6*25	6*50 50 = (12+13)*2	6*50 50 = (12+13)*2	5*100 100=5*20
Binder colours first layer	Blue Orange Green Brown Grey	Blue Orange Green Brown Grey	White/Green White/Brown White/Grey Red/Blue Red/Orange Red/Green	(White/Blue, White/Blue, White/Orange, White/Orange) + (White/Green, White/Green, White/Brown, White/Brown)+ (White/Grey, White/Grey, Red/Blue, Red/Blue)+(Red/Orange, Red/Orange, Red/Green, Red/Green)+(Red/Brown, Red/Brown, Red/Grey, Red/Grey)+(Black/Blue, Black/Blue, Black/Orange, Black/Orange, Black/Green, Black/Green)+(Black/Brown, Black/Brown, Black/Grey, Black/Grey)+(Yellow/Blue, Yellow/Blue, Yellow/Orange, Yellow/Orange)	(Red/Blue, Red/Blue, Red/Orange, Red/Orange)+(Red/Green, Red/Green, Red/Brown, Red/Brown)+ (Red/Grey, Red/Grey, Black/Blue, Black/Blue)+(Black/Orange, Black/Orange, Black/Green, Black/Green)+(Black/Brown, Black/Brown, Black/Grey, Black/Grey)+(Yellow/Blue, Yellow/Blue, Yellow/Orange, Yellow/Orange)	(White/Blue, White/Orange, White/Green, White/Brown, White/Grey)+ (Red/Blue, Red/Orange, Red/Green, Red/Brown, Red/Grey)+ (Black/Blue, Black/Orange, Black/Green, Black/Brown, Black/Grey)+ (Yellow/Blue, Yellow/Green, Yellow/Brown, Yellow/Grey)+ (Purple/Blue, Purple/Orange, Purple/Green, Purple/Brown, Purple/Grey)

Reference Standards

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