

# Category 3 UTP Outdoor Cable 24AWG, Outdoor PE

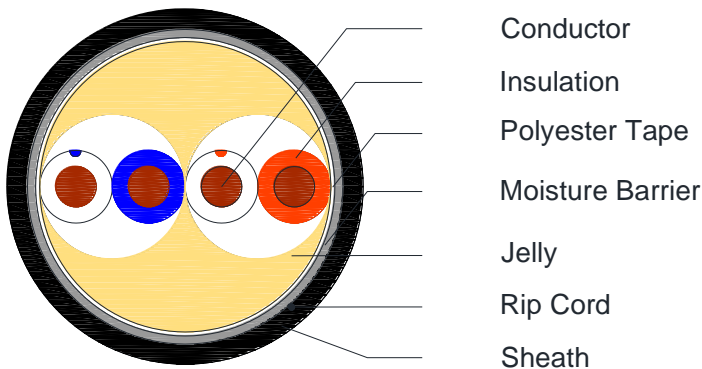


C1539, C1541, C1542, C1543, C1544, C1546, C1547, C1548

## Applications

Category 3 Riser and LAN cable for outdoor applications, 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
Filler in Cable Core	Petroleum Jelly
Wrapping	Polyester tape
Moisture barrier	Moisture barrier tape
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.

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## Physical Characteristics

Part Number	C1539	C1541	C1542	C1543	C1544	C1545	C1546	C1547	C1548
No of pairs	2	6	12	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	0.75	0.8	0.8	1.0	1.0	1.0	1.0
Nom. Overall Diameter (mm)	4.7	6.7	7.3	12.6	16.8	19.4	21.4	28.1	30.7
Operating Temperature range(°C)	-15/+70								
Max. Pulling Tension (N)	30	90	180	375	750	1100	1500	2250	3000
Min. Bend Radius (install) (mm)	71	100	110	189	252	291	321	422	460

## 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

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### Cable Make-Up

Part Number	C1539	C1541	C1542	C1543	C1544	C1545	C1546	C1547	C1548
No of pairs	2	6	12	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

### 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		

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

### Binder Colour Code

Part Number	C1539	C1541	C1542	C1543	C1544	C1545	C1546	C1547	C1548
No of pairs	2	6	12	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

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## Reference Standards

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