

# Outdoor Category 3 UTP 24AWG Central Office Cable SWA Armoured with PVC Sheath

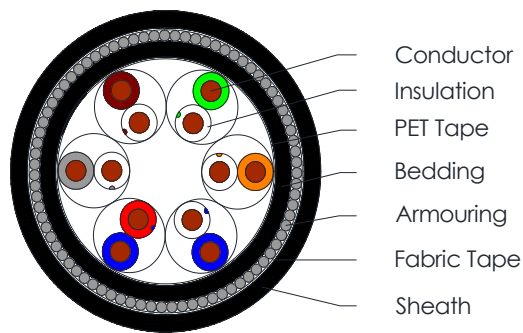


C1951, C1952, C1953, C1954, C1955, C1956, C1957, C1958, C1959, C1960

## Applications

SWA Armoured unshielded Multi-Pair cables suitable as outdoor 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)
Bedding	Flame-Retardant Polyvinyl Chloride (PVC) Standard Colour: Black
Armour	Galvanized Steel wire
Wrapping	Fabric tape
Sheath	UV Resistance Flame-Retardant Polyvinyl Chloride (PVC) 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.

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## Physical Characteristics

Part Number	C1951	C1952	C1953	C1954	C1955	C1956	C1957	C1958	C1959	C1960
No of pairs	6	12	18	20	25	50	75	100	150	200
Conductor Size (AWG)	24									
Nom. Diameter Insulation (mm)	0.90									
Nom. Radial Bedding Thickness(mm)	0.5	0.7	0.8	1.0	1.0	1.0	1.2	1.2	1.5	1.5
Nom. Bedding Diameter (mm)	6.0	7.1	9.7	10.4	12.2	16.4	19.0	20.9	27.9	30.5
Steel wire Diameter (mm)	0.90									
Nom. Radial Sheath Thickness(mm)	1.2	1.2	1.2	1.2	1.5	1.5	1.8	1.8	2.5	2.5
Nom. Overall Diameter (mm)	10.5	11.6	14.2	14.9	17.3	21.5	24.7	27.1	35.3	37.5
Operating Temperature range(°C)	-15/+70									

## 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	C1951	C1952	C1953	C1954	C1955	C1956	C1957	C1958	C1959	C1960
No of pairs	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

Part Number	C1951	C1952	C1953	C1954	C1955	C1956	C1957	C1958	C1959	C1960
No of pairs	6	12	18	20	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

### Reference Standards

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