

# Category 3 Central Office Cable

## UTP, HFFR Sheath

### 2pr to 200pr

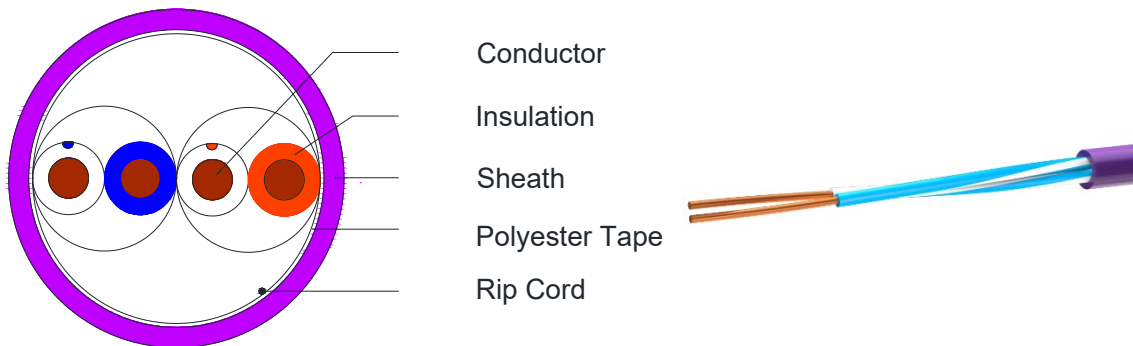


C1460, C1461, C1462, C1463, C1464, C1466, C1467, C1468

### Applications

Unshielded 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	Solid Bare Copper wire, 24AWG
Insulation	Polyolefin
Twinning	Pair construction
Stranding	Pairs are stranded in units of 10 or 25 pairs
Core wrapping	Overlapping Polyester tape(s)
Rip cord	Nylon Yarn
Sheath Material	Halogen Free Flame-Retardant (HFFR) Standard Colour: Purple
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	C1460	C1461	C1462	C1463	C1464	C1465	C1466	C1467	C1468
No of pairs	2	6	12	25	50	75	100	150	200
Nom. Diameter Conductor (mm)	0.5								
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)	4.0	6.0	7.2	11.8	16.0	18.6	20.5	26.9	29.5
Operating Temperature range(°C)	-15/+70								
Max. Pulling Tension (N)	30	90	180	375	750	1120	1500	2250	3000
Min. Bend Radius (install) (mm)	40	60	72	118	160	186	205	269	295
Nominal Cable Weight (kg/km)	17.5	43.5	95	170	340	432	550	800	1040

**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	C1460	C1461	C1462	C1463	C1464	C1465	C1466	C1467	C1468
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

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**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		

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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

**Number of units in the 1st layer**

**Reference Standards**

ISO 11801: Category 3	IEC 60332-3-24
TIA/EIA 568-C2: Category 3	IEC 60754-1&-2, IEC 61034
EN 50290-2	RoHS directives