

# Category 5e Fire Resistant Data Cable PH30

## 24AWG, UTP with HFFR/LSZH Sheath

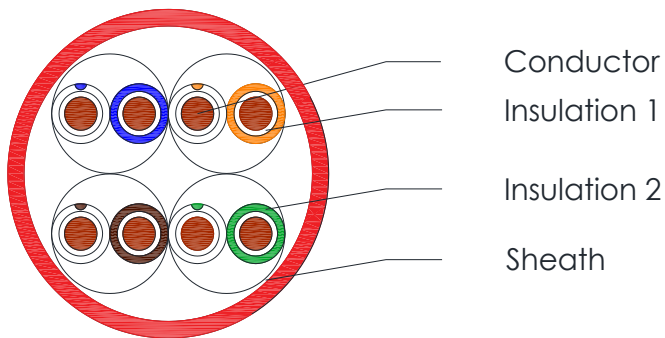


C15044

### Applications

Fire Resistant Twisted pair cable suitable for signal transfers in applications which requires circuit integrity.

### Cross Section Drawing



### Design

Unit	Properties
Conductor	Solid Plain Copper Wire
Insulation	Solid Silicone Rubber + Polyethylene Pair 1: WHITE/Blue + BLUE Pair 2: WHITE/Orange + ORANGE Pair 3: WHITE/Green + GREEN Pair 4: WHITE/Brown + BROWN
Pair	Two wires twisted together
Sheath Material	UV&Oil resistant Halogen Free, Flame Retardant (HFFR/LSZH) Standard Color: Red
Standard Put Up Length	305 metres

\*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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### C15044

#### Physical Characteristics

Part Number	C15044
No. of Pairs	4
Conductor Size (AMG)	24
Nom. Insulation Diameter (mm)	1.25
Nom. Radial Thickness Sheath (mm)	0.5
Nom. Overall Diameter (mm)	6.2
Operating Temperature (°C)	-20°C to +60°C

#### Electrical Characteristics at 20°C

Conductor Resistance (Ohm/100m)	Mutual Capacitance (pF/m)	Input Impedance (Ohm)	Velocity of Propagation (%)	Maximum Delay Skew (ns/100m)	Max. Operating Voltage (Volts RMS)
10	48	100 ± 15	65	45	300

Frequency (MHz)	Return Loss (dB/100m)	Maximum Attenuation (dB/100m)	Minimum NEXT (dB)	Maximum Time Delay (ns/100m)	Minimum PSNEXT (dB)	Minimum ELFEXT (dB)	Minimum PSELFEXT (dB)
1	20.0	2.0	65.3	570.00	62.3	63.8	60.8
4	23.0	4.1	56.3	552.00	53.3	51.7	48.7
8	24.5	5.8	51.8	546.73	48.8	45.7	42.7
10	25.0	6.5	50.3	545.38	47.3	43.8	40.8
16	25.0	8.2	47.2	543.00	44.4	39.7	36.7
20	25.0	9.3	45.8	542.05	42.8	37.7	34.7
25	24.3	10.4	44.3	541.20	41.3	35.8	32.8
31.25	23.6	11.7	42.9	540.44	39.9	33.9	30.9
62.5	21.5	17.0	38.4	538.55	35.4	27.8	24.8
100	20.1	22.0	35.3	537.60	32.3	23.8	20.8

#### Reference Standards

ISO 11801, ANSI/TIA/EIA-568-C2	IEC 61034, IEC 60754-1 & 2
EN 50290-2	IEC 60331-21 FE30 EN50200 PH30
IEC 60332-1	RoHS directives