

# Category 5e Data Cable

## 24AWG, UTP with PVC or HFFR/LSZH Sheath

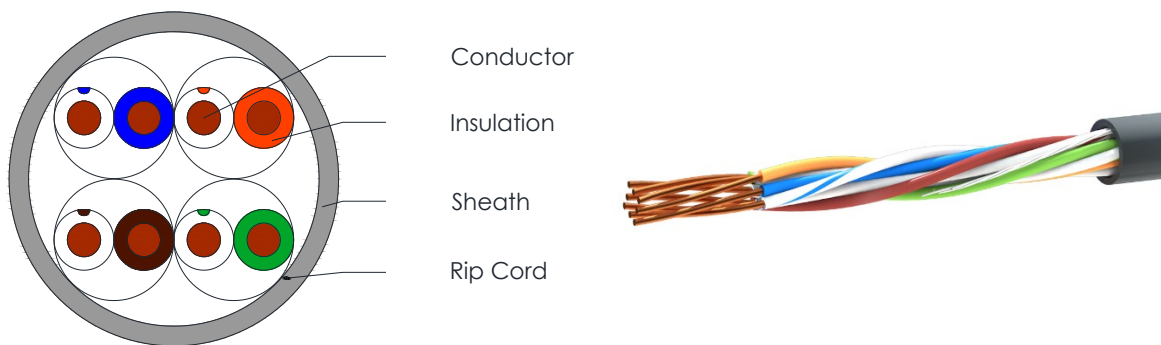


C4163, C5124

### Applications

Twisted pair cable suitable for Local Area Networks and Video Applications

### Cross Section Drawing



### Design

Unit	Properties
Conductor	Solid Plain Copper Wire
Insulation	Solid 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
Rip Cord	Nylon Yarn
Sheath Material	Polyvinyl Chloride (PVC) Standard Color: Grey or Halogen Free, Flame Retardant (HFFR/LSZH) Standard Color: Purple
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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### C4163, C5124

#### Physical Characteristics

Part Number	C4163	C5124
Sheath Material	PVC	HFFR/LSZH
Screen type	UTP	
No. of Pairs	4	
Conductor Size (mm)	0.45	
Nom. Radial Thickness Sheath (mm)	0.5	
Nom. Overall Diameter (mm)	4.5	
Operating Temperature (°C)	-20°C to +60°C	
Min. Bend Radius (install) (mm)	45	
Nominal Cable Weight (kg/km)	24	
Maximum Pulling Tension (Newton)	140	

#### Electrical Characteristics at 20°C

Input Impedance (Ohm)	Max. Conductor Resistance (Ohm/km)	Max. Resistance Unbalance (%)	Mutual Capacitance (pF/m)	Velocity of Propagation (%)	Max. Delay Skew (ns/100m)	Max. Operating Voltage (Volts RMS)
100 ± 15	130	5	48	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

EN 50290-2	IEC 61034 (HFFR/LSZH only)
ISO 11801	IEC 60754-1 & 2 (HFFR/LSZH only)
ANSI/TIA/EIA-568-C2	IEC 60332-1
RoHS directives	