



### Physical Construction:

Conductor	Solid Bare Copper
AWG	24
Conductor Dia. (mm)	0.511
Insulation	PE
Average Thickness (mm)	0.21
Min. Point Thickness (mm)	0.17
Insulation Dia. (± 0.02 mm)	0.91
Twisting Lay Length (mm)	30 underneath
Cabling Lay Length (±20 mm)	140
Jacket	PVC
Average Thickness (mm)	0.5
Min. Point Thickness (mm)	0.43
Outer Dia. (±0.2 mm)	5.0
Rip Cord	Per Request
Weight (kg/km)	32
Packing	1,000ft/Pully Box

### Color:

#### Insulation Colors

- Blue, White/Blue
- Orange, White/Orange
- Green, White/Green
- Brown, White/Brown

#### Jacket Colors

Per Request [Normally White]

### Performance

#### Electrical Characteristics:

Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB)
0.772	19.4	1.8	67.0	65
1	20.0	2.0	65.3	63
4	23.0	4.1	26.3	52
8	24.5	5.8	51.8	46
10	25.0	6.5	50.3	44
16	25.0	8.2	47.3	39
20	25.0	9.3	45.8	37
25	24.3	10.4	44.3	34
31.25	23.6	11.7	42.9	31
62.5	21.5	17.0	38.4	21
100	20.1	22.0	35.3	13

Frequency (MHz)	PSNEXT (dB)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)
0.772	64.0	66.0	63.0	575.0
1	62.3	63.8	60.8	570.0
4	53.3	51.7	48.7	552.0
8	48.8	45.7	42.7	546.7
10	47.3	43.8	40.8	545.4
16	44.3	39.7	36.7	543.0
20	42.8	37.7	34.7	542.0
25	41.3	35.8	32.8	541.2
31.25	39.9	33.9	30.9	540.4
62.5	35.4	27.8	24.8	538.6
100	32.3	23.8	20.8	537.6

1.0 – 100.0 MHz Impedance (ohms)	100 ± 15
1.0 – 100.0 MHz Delay Skew (ns/100m)	≤ 45
Pair-to-Ground Capacitance Unbalance (pF/100m)	≤ 330
Max. Conductor DC Resistance @ 20°C (ohms/km)	93.8
Resistance Unbalance (%)	≤ 5

#### Mechanical Characteristics:

Test Object	Jacket
Test Material	PVC
Before Tensile Strength (Mpa)	≥ 13.8
Aging Elongation (%)	≥ 100
Aging Condition (°C x hrs)	100 x 240
After Tensile Strenght (Mpa)	≥ 85% of unaged
Aging Elongation (%)	≥ 50% of unaged
Cold Bend (-20 ± 2°C x 4 hrs)	No Crack