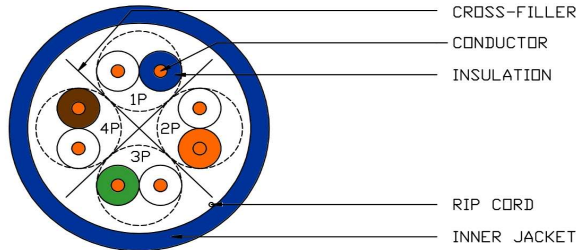




**Cross Section Cat 6 Cable**



**Cable Description**

**Conductor:**  
 Pairs 4  
 Total Conductor 8  
 AWG 23  
 Material Solid Bare Copper

**Insulation:**  
 Material Polyolefin  
 Pair Colours Pair 1:White-Blue & Blue, Diameter: 1.04 ± 0.02 mm  
 Pair 2:White-Orange & Orange, 0.98 ± 0.02 mm  
 Pair 3:White-Green & Green, 1.03 ± 0.02 mm  
 Pair 4:White-Brown & Brown, 0.97 ± 0.02 mm

**Paired:** Left hand lay direction

**Cabling:** Left hand lay direction

**Inner Jacket:**  
 Material Flame Retardent PVC  
 Nominal Thickness 1.20 ± 0.1 mm  
 Overall Diameter 8.3 ± 0.3 mm  
 Colour Blue

**Armour:**  
 Material Aluminum Interlock  
 Overall Diameter 10.67 ± 0.5 mm

**Outer Jacket:**  
 Material PVC  
 Nominal Thickness 1.12 ± 0.05 mm  
 Overall Diameter 12.7 ± 0.5 mm  
 Outer Jacket Colour Customer Specified  
 Packaging Lengths Customer Specified  
 Print on Outer Jacket:

**CSA-C/US CMG LL61365 FT-4 75°C CAT 6  
 4PR 23 AWG SUN RES RoHS COMPLIANT**  
 Operating Temperature Range -20°C to 75°C  
 Cable Weight 140 kgs/km  
 RoHS Compliant Yes  
 Outer Jkt Sunlight Resistant Yes  
 Min. Bend Radius 50 mm  
 Max. Pulling Tension 110 N  
 Voltage Rating 300 V

**Electrical Characteristics**

Standard TIA/EIA-568-C.2 & IEC/ISO 11801

Test Item	Units	Spec
1. Conductor D.C. Resistance	Ω/100m	≤ 9.38
2. Unbalance of Pair D.C Resistance	%	≤ 5
3. Dielectric Strength	kVac for 2s	1.5
4. Insulation Resistance	MΩ·km	≥ 5000
5. Mutual Capacitance	nF/100m	≤ 5.6
6. Unbalance of Capacitance (pr to ground)	pF/100m	≤ 330
7. Characteristic Impedance	Ω	100±15

Values below that are above 250 MHz are for information only

Frequency (MHz)	Min RL (dB/100m)	Propagation Delay Max ns/100m	Max ATTEN (dB/100m)	Min NEXT (dB/100m)
1	20.00	570.00	2.03	74.30
4	23.01	552.00	3.78	65.27
8	24.52	546.73	5.32	60.75
10	25.00	545.38	5.95	59.30
16	25.00	543.00	7.55	56.24
20	25.00	542.05	8.47	54.78
25	24.32	541.20	9.51	53.33
31.25	23.64	540.44	10.67	51.88
62.5	21.54	538.55	15.38	47.36
100	20.11	537.60	19.80	44.30
150	18.87	536.94	24.71	41.66
200	18.00	536.55	28.98	39.78
250	17.32	536.28	32.85	38.33
300	16.77	536.08	36.43	37.14
400	15.89	535.80	42.97	35.27
550	14.92	535.54	51.76	33.19

Frequency (MHz)	Min PSNEXT (dB/100m)	Min PSUM ACR (dB/100m)	Min PSUM ACRF (dB/100m)	Min ACR (dB/100m)
1	78.30	76.28	70.80	78.28
4	69.27	65.49	58.76	67.49
8	64.75	59.43	52.74	61.43
10	63.30	57.35	50.80	59.35
16	60.24	52.68	46.72	54.68
20	58.78	50.31	44.78	52.31
25	57.33	47.83	42.84	49.83
31.25	55.88	45.20	40.90	47.20
62.5	51.36	35.98	34.88	37.98
100	48.30	28.50	30.80	30.50
150	45.66	20.95	27.28	22.95
200	43.78	14.80	24.78	16.80
250	42.33	9.48	22.84	11.48

**Mechanical Characteristics**

Test Object	Inner Jacket
Test Material	PVC
Before Tensile Strength(Mpa)	≥13.5
Aging Elongation(%)	≥150
Aging Condition (×hrs)	100×168
Before Tensile Strength(Mpa)	≥12.5
Aging Elongation(%)	≥125
Cold Bend(-20±×4hrs)	No cracks



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 1-888-ELECTRO Toll Free

**Revision History**

Date: Oct 25, 2018 Rev.2 : CD

Quality Management System Registered to ISO 9001  
 Manufacturing Cables for over 30 years

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