

7192354FTP AJ.06 - Category 6 F/UTP 23 AWG 4 PR LISTED CSA C/US CMG

**Electrical Characteristics**

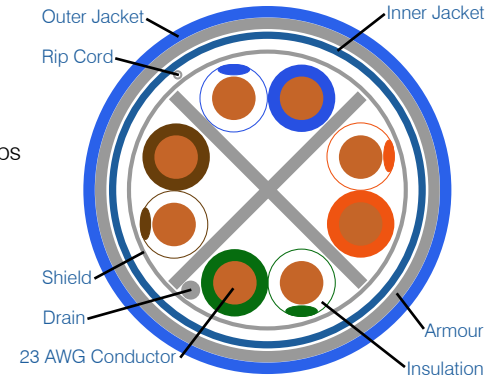
- Max Conductor DCR: 9.38 Ω/100m
- Max DCR Unbalance: 5%
- Max Capacitance Unbalance: 330 pF/100m
- Mutual Capacitance @ 1kHz: 5.6 nF/100m
- Max Delay Skew: 45 ns/100m
- Nominal Velocity of Propagation (VP): 68 %
- Operating Voltage, maximum: 300 V
- Impedance Min/Max 100 +/- 10 Ω

**Mechanical Characteristics**

- Nominal Cable OD: 13.7 mm | 0.540 in
- Bulk Cable Weight: 133 kg/km | 89 lb/kft
- Max Recommended Pulling Tension: 11 kg | 24 lbs
- Min Bend Radius During Installation: 7,6 in
- Min Bend Radius/Minor Axis: 6.1 in

**Temperature Range**

- Installation Temp Range: -10°C to +60°C
- Operating Temp Range: -20°C to +60°C



ANSI/TIA-568-C.2	FREQUENCY	Insertion Loss	NEXT	PS.NEXT	ACR	PS.ACR	ACRF	PS.ACRF	Return Loss	Propagation Delay
	(MHz)	(dB/100m)	min (dB)	min (dB)	min (dB)	min (dB/100m)	min (dB/100m)	min (dB/100m)	min (dB/100m)	Max (ns/100m)
	1	2.03	74.30	72.30	72.28	70.28	67.80	64.80	20.00	570.00
	4	3.78	65.27	63.27	61.49	59.49	55.76	52.76	23.01	552.00
	8	5.32	60.75	58.75	55.43	53.43	49.74	46.74	24.52	546.73
	10	5.95	59.30	57.30	53.35	51.35	47.80	44.80	25.00	545.38
	16	7.55	56.24	53.24	48.68	46.68	43.72	40.72	25.00	543.00
	20	8.47	54.78	52.78	46.31	44.31	41.78	38.78	25.00	542.05
	25	9.51	53.33	51.33	43.83	41.83	39.84	36.84	24.32	541.20
	31.25	10.67	51.88	49.88	41.20	39.20	37.90	34.90	23.64	540.44
	62.5	15.38	47.36	45.36	31.98	29.98	31.88	29.88	21.54	538.55
	100	19.80	44.30	42.30	24.50	22.50	27.80	24.80	20.11	537.60
	150	24.71	41.66	39.66	16.95	14.95	24.28	21.28	18.87	536.94
	200	28.98	39.78	47.78	10.80	8.80	21.78	18.78	18.00	536.55
	250	32.85	38.33	36.33	5.48	3.48	19.84	16.84	17.32	536.28
	300	36.43	37.14	35.14	0.72	N.A.	18.26	15.26	16.77	536.08
	350	39.79	36.14	34.14	N.A.	N.A.	16.92	13.92	16.30	535.92
	400	42.97	35.27	33.27	N.A.	N.A.	15.76	12.76	15.89	535.80

This data is Transmission Performance for reference only at 20°C. Limitations to desired performance may occur depending on installation conditions and connecting hardware.

**Specifications and Compliances**

- NEC/CEC Type CMG FT4 (UL 1685)
- UL 444 / CSA C22.2 No. 214, Communication Cables
- ISO/IEC Compliance: 11801 ed 2.2 Class E
- Telecommunications Standards: ANSI/TIA-568-C.2 (2009) Category 6

<b>Conductor</b>	Solid Bare Copper Conductors
<b>Insulation</b>	Polyolefin, 60°C. Solid/Stripe colour code per ANSI/TIA-568-C.2 (2009)
<b>Shielding</b>	Aluminum Mylar Shield with STC 26 AWG Drain Wire
<b>Inner Jacket</b>	PVC - Polyvinyl Chloride
<b>Armour</b>	Aluminum Interlock Armour
<b>Outer Jacket</b>	PVC - Polyvinyl Chloride

**Applications**

- Vertical and Horizontal building backbone cable.
- Transmission of digital and analogue for data, video and audio applications.
- Aluminum Mylar Shield for EMI noise protection
- IEEE 802.3ab 1000BASE-T, 1000BASE-TX and legacy speeds.
- CDDI / ATM / Token Ring.
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+).
- For use in communication circuits when exposed, concealed, or used in raceways.

