CAT 6
Armoured F/UTP CMG

ElectroData®

CMG | FT4 FLAME RATING | CMG FLAME RATING | -20°C LOW TEMP | +60°C HIGH TEMP | UV RESISTANT | EXPOSED RUN

7192354FTPAJX4.06 - 4X Category 6 F/UTP 23 AWG 4 PR LISTED CSA C/US CMG

Electrical Characteristics

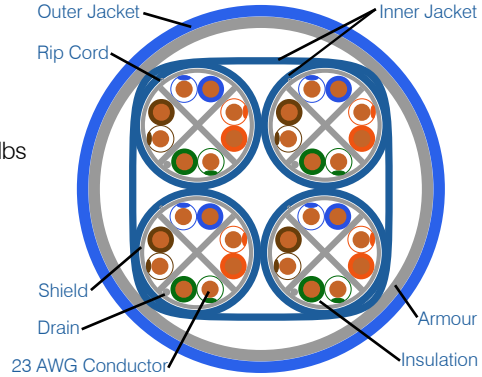
- Max Conductor DCR: 9.38 Ω/100m
- Max DCR Unbalance: 5%
- Max Capacitance Unbalance: 330 pF/100m
- Mutual Capacitance @ 1kHz: 5.6 nF/100m
- Max Delay Skew: 45 ns/100m
- Nominal Velocity of Propagation (VP): 68 %
- Operating Voltage, maximum: 300 V
- Impedance Min/Max 100 +/- 10 Ω

Mechanical Characteristics

- Nominal Cable OD: 26.6 mm | 1.047 in
- Bulk Cable Weight: 395 kg/km | 265 lb/kft
- Max Recommended Pulling Tension: 47 kg | 104 lbs
- Min Bend Radius During Installation: 14.7 in
- Min Bend Radius/Minor Axis: 11.9 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 (MHz)	Insertion Loss (dB/100m)	NEXT min (dB)	PS.NEXT min (dB)	ACR min (dB)	PS.ACR min (dB/100m)	ACRF min (dB/100m)	PS.ACRF min (dB/100m)	Return Loss min (dB/100m)	Propagation Delay 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

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

CUSTOM ORDER OPTIONS

CMR FLAME RATING | CMP FLAME RATING | FT4 ST1 FLAME RATING | LIMITED SMOKE | HALOGEN FREE | SIA STEEL ARMOUR

ISO 9001 | RoHS COMPLIANT | REACH COMPLIANCE

Electro cables
Innovation in Connecting Technology