CAT 5e Armoured U/UTP CMG ElectroData®

CMG | FLAME RATING | FLAME RATING | LOW TEMP | HIGH TEMP | UV RESISTANT | EXPOSED RUN

Category 5e U/UTP 24 AWG 4 PR LISTED CSA C/US CMG

Electrical Characteristics

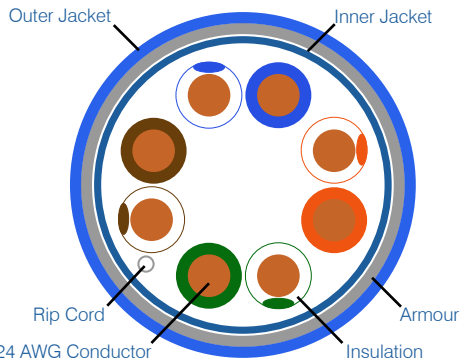
- Max Conductor DCR: 9.38 Ω/100m
- Max DCR Unbalance: 5%
- Max Capacitance Unbalance: 330 pF/100m
- Mutual Capacitance @ 1kHz: 5.6 nF/100m
- Max Delay Skew: 25 ns/100m
- Nominal Velocity of Propagation (VP): 68 %
- Operating Voltage, maximum: 80 V

Mechanical Characteristics

- Nominal Cable OD: 12.8 mm | 0.503 in
- Bulk Cable Weight: 175 kg/km | 17 lb/kft
- Max Recommended Pulling Tension: 18 kg | 40 lbs
- Min Bend Radius During Installation: 2.0 in
- Min Bend Radius/Minor Axis: 0.5 in

Temperature Range

- Installation Temp Range: 0°C to +60°C
- Storage/Operating Temp Range: -20°C to +60°C



ANSI/TIA-568.2-D

FREQUENCY (MHz)	Insertion Loss (dB/100m)	NEXT min (dB)	PSNEXT min (dB)	ACRF min (dB/100m)	PSACRF min (dB/100m)	Impedance min/max (Ω)	Return Loss min (dB)
1	2.0	65.3	62.3	63.8	60.8	105 +/- 10	20.0
4	4.1	56.3	53.3	51.8	48.8	100 +/- 10	23.0
8	5.8	51.8	48.8	45.7	42.7	100 +/- 10	24.5
10	6.5	50.3	47.3	43.8	40.8	100 +/- 10	25.0
16	8.2	47.2	44.2	39.7	36.7	100 +/- 10	25.0
20	9.3	45.8	42.8	37.8	34.8	100 +/- 10	25.0
25	10.4	44.3	41.3	35.8	32.8	100 +/- 10	24.3
31.25	11.7	42.9	39.9	33.9	30.9	100 +/- 10	23.6
62.5	17.0	38.4	35.4	27.9	24.9	100 +/- 10	21.5
100	22.0	35.3	32.3	23.8	20.8	100 +/- 10	20.1
155	28.1	32.4	29.4	20.0	17.0	100 +/- 10	18.8
200	32.4	30.8	27.8	17.8	14.8	100 +/- 10	18.0
240	36.0	29.6	26.6	16.2	13.2	100 +/- 10	17.4
300	41.0	28.1	25.1	14.3	11.3	100 +/- 10	16.8
350	44.9	27.1	24.1	12.9	9.9	100 +/- 10	16.3

This data is for reference only. 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 2.1 (2008) Class D
- Telecommunications Standards: ANSI/TIA-568.2-D Category 5e

Conductor	Solid Bare Copper Conductors
Insulation	Polyolefin, 60°C. Solid/Stripe colour code per ANSI/TIA-568.2-D
Inner Jacket	PVC - Polyvinyl Chloride
Armour	Aluminum Interlock Armour
Outer Jacket	PVC - Polyvinyl Chloride

Applications

- Vertical and Horizontal backbone cable.
- Transmission of digital and analogue for data, video and audio applications.
- IEEE 802.3u 100BASE-T 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.

ISO 9001 | RoHS COMPLIANT | REACH COMPLIANCE

069-R5

Electro cables
Innovation in Connecting Technology