

7182354AR4J.06 - Category 6e U/UTP 23 AWG 4 PR LISTED CSA C/US CMG

Electrical Characteristics

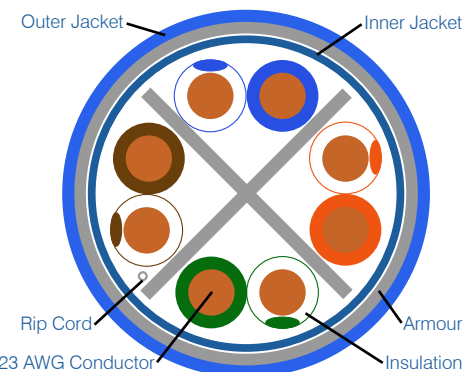
- Max Conductor DCR: 9.38 Ω/100m
- Max DCR Unbalance: 5%
- Max Capacitance Unbalance: 330 pF/100m
- Mutual Capacitance @ 1kHz: 5.6 nF/100m
- Max Delay Skew: 45 ns/100m
- Nominal Velocity of Propagation (VP): 68 %
- Operating Voltage, maximum: 300 V
- Impedance Min/Max 100 +/- 10 Ω

Mechanical Characteristics

- Nominal Cable OD: 12.7 mm | 0.500 in
- Bulk Cable Weight: 133 kg/km | 89 lb/Mft
- Max Recommended Pulling Tension: 11 kg | 24 lbs
- Min Bend Radius During Installation: 7.0 in
- Min Bend Radius/Minor Axis: 5.7 in

Temperature Range

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



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	80.30	78.30	78.28	76.28	73.80	70.80	20.00	570.00
4	3.78	71.27	69.27	67.49	65.49	61.76	58.76	23.01	552.00
8	5.32	66.75	64.75	61.43	59.43	55.74	52.74	24.52	546.73
10	5.95	65.30	63.30	59.35	57.35	53.80	50.80	25.00	545.38
16	7.55	62.24	60.24	54.68	52.68	49.72	46.72	25.00	545.00
20	8.47	60.78	58.78	52.31	50.31	47.78	44.78	25.00	542.05
25	9.51	59.33	57.33	49.83	47.83	45.84	42.84	24.32	541.20
31.25	10.67	57.88	55.88	47.20	45.20	43.90	40.90	23.64	540.44
62.5	15.38	53.36	51.36	37.98	35.98	37.88	34.88	21.54	538.55
100	19.80	50.30	48.30	30.50	28.50	33.80	30.80	20.11	537.60
150	24.71	47.66	45.66	22.95	20.95	30.28	27.28	18.87	536.94
200	28.98	45.78	43.78	16.80	14.80	27.78	24.78	18.00	536.55
250	32.85	44.33	42.33	11.48	9.48	25.84	22.84	17.32	536.28
300	36.43	43.14	41.14	6.72	4.72	24.26	21.26	16.77	536.08
350	39.79	42.14	40.14	2.35	0.35	22.92	19.92	16.30	535.92
400	42.97	41.27	39.27	N.A.	N.A.	21.76	18.76	15.89	535.80
450	46.01	40.50	38.50	N.A.	N.A.	20.74	17.74	15.53	535.70
500	48.94	39.82	37.82	N.A.	N.A.	19.82	16.82	15.21	535.61
550	51.76	39.19	37.19	N.A.	N.A.	18.99	15.99	14.92	535.54
600	54.49	38.63	36.63	N.A.	N.A.	18.24	15.24	14.66	535.47

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/CE Code 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 6e

- Conductor** Solid Bare Copper Conductors
- Insulation** Polyolefin, 60°C. Solid/Stripe colour code per ANSI/TIA-568-C.2 (2009)
- 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.
- 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.

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