



ATS-423CMR-6A-*

Category 6A Non-Plenum Cable
(650 MHz)



CHARACTERISTICS	
Installation Temperature:	0 to 60°C (32° to 140°F)
Mutual Capacitance:	5.6 nF/100 m max
DC Resistance/Unbalance:	≤ 5% max
Propagation Delay Skew:	≤ 45 ns/100 m
Capacitance unbalance pair-to-ground	≤ 330pF/100m
Insulation Resistance	≥ 5000MΩ·m
Dielectric Strength	1.5 KV ac for 2 s
Conductor DC resistance	≤ 9.38 Ω/100m
Spark Test	2.5 KV DC

APPLICATIONS
IEEE 802.3an: 10GBASE-T (10 Gigabit Ethernet)
IEEE 802.3ab: 1000BASE-T (Gigabit Ethernet)
IEEE 802.3af: (PoE)
IEEE 802.3at: (PoE)
EU Directive 2011/65/EC (RoHS2)
EU Directive 2006/95/EC (LVD)
CE Compliance Date: 2010.01.01
CDDI/ATM/Token Ring
Data, Audio, Video Applications

CONSTRUCTION
4 Twisted Pair Cable
Pair Insulation: Polyolefin (PO)
23 AWG Solid Bare Copper with Ripcord
Outer Jacket: Non-Plenum Low Smoke Flame Retardant PVC
Cable O.D. 8.3 mm (0.32 in)
*Jacket Colors: Blue (B), White (W)

APPROVALS
UL 444, ISO 9001:2008
UL, cUL, CSA, FT4, NFPA UL 1666 CMR, ETL
RoHS Compliant Directive 2011/65/EC (RoHS2)
CSA 22.2 NO.214
UL Listed CM, CMR
ANSI/TIA-568-C.2 (2009)
ISO/IEC 11801:2011 Edition 2.2
ISO/IEC 11801 Edition 2.2
ICES/CEC Type CMR (UL 1666)
ICE 61156-5 (Edition 2.0)

PAIR IDENTIFICATION	
Pair 1	Blue, Blue/White
Pair 2	Orange, Orange/White
Pair 3	Green, Green/White
Pair 4	Brown, Brown/White

PACKAGING	
1000 Foot Wooden Reel:	Wt. 42.74 Lbs. (19.39 kg)

TRANSMISSION PERFORMANCE TABLE										
Frequency	IL	NEXT	PSNEXT	ACR	PSACR	ACRF	PSACRF	RL	PSANEXT	PSAACRF
MHz	Max	Min	Min	Min	Min	Min	Min	Min	Min	Min
1	2.0	74.3	72.3	72.2	70.2	67.8	64.8	20.0	67.0	67.0
4	3.8	65.2	63.2	61.4	59.4	55.7	52.7	23.0	67.0	66.1
8	5.3	60.7	58.7	55.4	53.4	49.7	46.7	24.5	67.0	60.1
10	5.9	59.3	57.3	53.3	51.3	47.8	44.8	25.0	67.0	58.2
16	7.4	56.2	54.2	48.7	46.7	43.7	40.7	25.0	67.0	54.1
20	8.3	54.7	52.7	46.4	44.4	41.7	38.7	25.0	67.0	52.1
25	9.4	53.3	51.3	43.9	41.9	39.8	36.8	24.2	67.0	50.2
31.25	10.5	51.8	49.8	41.3	39.3	37.9	34.9	23.6	67.0	48.3
62.5	14.9	47.3	45.3	32.3	30.3	31.8	28.8	21.5	65.5	42.2
100	19.1	44.3	42.3	25.1	23.1	27.8	24.8	20.1	62.5	38.2
150	23.6	41.6	39.6	17.9	15.9	24.2	21.2	18.8	59.8	34.6
200	27.5	39.7	37.7	12.2	10.2	21.7	18.7	18.0	57.9	32.1
250	31.0	38.3	36.3	7.2	5.2	19.8	16.8	17.3	56.5	30.2
300	34.2	37.1	35.1	2.8	0.8	18.2	15.2	16.7	55.3	28.6
350	37.2	36.1	34.1	NA	NA	16.9	13.9	16.3	54.3	27.3
400	40.0	35.2	33.2	NA	NA	15.7	12.7	15.8	53.4	26.1
450	42.7	34.5	32.0	NA	NA	14.7	11.7	15.5	52.7	25.1
500	45.2	33.8	31.8	NA	NA	13.8	10.8	15.2	25.0	24.2
550	47.7	33.1	31.1	NA	NA	12.9	9.9	14.9	51.3	23.3
600	50.0	32.6	30.6	NA	NA	12.2	9.2	14.6	50.8	22.6
650	52.3	32.1	30.1	NA	NA	11.5	8.5	14.4	50.3	21.9

Values are expressed in dB/100M @ 20°C

Frequencies beyond the TIA requirements are for information only

ACR & PSACR not specified in ANSI-TIA-568-C.2

Data subject to change without notice.