



# ATS-423CMR-6-NS-\*

Category 6 CMR Non-Plenum Cable No Spline (400 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
Impedance 1.0 to 100 MHz:	100 Ohms ± 15%
Nominal Velocity of Propagation (NVP):	68.3%

APPLICATIONS
IEEE 802.3ab: 1000 BASE-T (Gigabit Ethernet)
IEEE 802.3u: 100 BASE-T (Fast Ethernet)
IEEE 802.3i: 10 BASE-T (Ethernet)
ANSI/TIA-854: 1000 BASE-TX
155 Mb/s, 1.2 Gb/s ATM
ANSI X3.263: 100 Mb/s
IEEE 802.3at DTE Power (PoE), IEEE 802.3at (PoE)
Broadband and Baseband Analog Video
Digital Video

CONSTRUCTION
4 Twisted Pair Cable
Pair Insulation: Polyolefin (PO)
24 AWG Solid Bare Copper with Ripcord
Outer Jacket: Non-Plenum Low Smoke Flame Retardant PVC
Cable O.D. 5.4 mm (0.21 in)
*Jacket Colors: Blue (B), White (W), Yellow (Y), Gray (G)

APPROVALS
UL 444, ISO 9001:2008
UL cUL, CSA, FT4, NFPA UL 1666 CMR, ETL
RoHS Compliant Directive 2011/65/EC (RoHS2)
NEC/CEC:CMR
UL Listed CM, CMR
ANSI/TIA-568-C.2
IEC 61156-5 (Edition 2.0)
ISO/IEC 11801:2011 Ed.2.2 (Class E)
ANSI/TIA-862-A (Building Automation)
ICES/CEC Type CMR (UL 1666)
ICEA S-102-700 (Category 6)

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 Easy-Pull Fast Pack Box:	Wt. 24Lbs. (10.886kg)
Reel-in-a-Box (ATS-423CMR-6NS-RIB-*):	Wt. 25 Lbs. (11.340kg)

TRANSMISSION PERFORMANCE TABLE														
Frequency	IL ATRAS	IL	NEXT ATRAS	NEXT	ACR ATRAS	PSNEXT ATRAS	PSNEXT	PSACR ATRAS	ACRF ATRAS	ACRF	PSACRF ATRAS	PSACRF	RL ATRAS	RL
MHz	Max	TIA Max	Min	TIA Min	Min	Min	TIA Min	Min	Min	TIA Min	Min	TIA Min	Min	TIA Min
1	2.0	2.0	74.3	74.3	72.3	72.3	72.3	70.3	67.8	67.8	64.8	64.8	20.0	20.0
4	3.8	3.8	65.3	65.3	61.5	63.3	63.3	59.5	55.8	55.8	52.8	52.8	23.0	23.0
8	5.3	5.3	60.8	60.8	55.4	58.8	58.8	53.4	49.7	49.7	46.7	46.7	24.5	24.5
10	6.0	6.0	59.3	59.3	53.4	57.3	57.3	51.4	47.8	47.8	44.8	44.8	25.0	25.0
16	7.6	7.6	56.2	56.2	48.7	54.3	54.3	46.7	43.7	43.7	40.7	40.7	25.0	25.0
20	8.5	8.5	54.8	54.8	46.3	52.8	52.8	44.3	41.8	41.8	38.8	38.8	25.0	25.0
25	9.5	9.5	53.3	53.3	43.8	51.3	51.3	41.8	39.8	39.8	36.8	36.8	24.3	24.3
31.25	10.7	10.7	51.9	51.9	41.2	49.9	49.9	39.2	37.9	37.9	34.9	34.9	23.6	23.6
62.5	15.4	15.4	47.4	47.4	32.0	45.4	45.4	30.0	31.9	31.9	28.9	28.9	21.5	21.5
100	19.8	19.8	44.3	44.3	24.5	42.3	42.3	22.5	27.8	27.8	24.8	24.8	20.1	20.1
150	24.7	24.7	41.7	41.7	17.0	39.7	39.7	15.0	24.3	24.3	21.3	21.3	18.9	18.9
200	29.0	29.0	39.8	39.8	10.8	37.8	37.8	8.8	21.8	21.8	18.8	18.8	18.0	18.0
250	32.8	32.0	38.3	38.3	5.5	36.3	36.3	3.5	19.8	19.8	16.8	16.8	17.3	17.3
300	36.4	*	37.1	*	*	35.1	*	*	18.3	*	15.3	*	16.8	*
350	39.8	*	36.1	*	*	34.1	*	*	16.9	*	13.9	*	16.3	*
400	43.0	*	35.3	*	*	33.3	*	*	15.8	*	12.8	*	15.9	*

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.

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