



ATS-423CMP-6E-*

Category 6 Plenum Cable
(600 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):	73.0%

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: Fluorinated Ethylene Propylene (FEP)
23 AWG Solid Bare Copper with Ripcord
Outer Jacket: Plenum Low Smoke Flame Retardant PVC
Cable O.D. 6.0 mm (0.177 in)

*Jacket Colors: Blue (B), White (W)

APPROVALS
UL 444, ISO 9001:2008
UL, cUL, CSA, FT4, NFPA UL 262 CMP, ETL
RoHS Compliant Directive 2011/65/EC (RoHS2)
NEC/CEC: CMP
UL Listed CM, CMP
ANSI/TIA-568-C.2 (2009)
ISO/IEC 11801:2011 Ed.2.2 (Class E)
ANSI/TIA-862-A (Building Automation)
ICES/CEC Type CMP (UL 262)
ICEA S-102-700 (Category 6)
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 Easy-Pull Fast Pack Box:	Wt. 28 Lbs. (12.7006 kg)

TRANSMISSION PERFORMANCE TABLE

Frequency	IL ATRACS	IL	NEXT ATRACS	NEXT	ACR ATRACS	PSNEXT ATRACS	PSNEXT	PSACR ATRACS	ACRF ATRACS	ACRF	PSACRF ATRACS	PSACRF	RL ATRACS	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	80.3	74.3	78.3	78.3	72.3	76.3	73.8	67.8	70.8	64.8	20.0	20.0
4	3.8	3.8	71.3	65.3	67.5	69.3	63.3	65.5	61.8	55.8	58.8	52.8	23.0	23.0
8	5.3	5.3	66.8	60.8	61.5	64.8	58.8	59.5	55.7	49.7	52.7	46.7	24.5	24.5
10	6.0	6.0	65.3	59.3	59.3	63.3	57.3	57.3	53.8	47.8	50.8	44.8	25.0	25.0
16	7.6	7.6	66.2	56.2	54.6	60.2	54.2	52.6	49.7	43.7	46.7	40.7	25.0	25.0
20	8.5	8.5	60.8	54.8	52.3	58.8	51.8	50.3	47.8	41.8	44.8	38.8	25.0	25.0
31.25	10.7	10.7	57.9	51.9	47.2	55.9	49.9	45.2	43.9	37.9	40.9	37.9	23.6	23.6
62.5	15.4	15.4	53.4	47.4	38.0	51.4	45.4	36.0	37.9	31.9	34.9	28.9	21.5	21.5
100	19.8	19.8	50.3	44.3	30.5	48.3	42.3	28.5	33.8	27.8	30.8	24.8	20.1	20.1
150	24.7	24.7	47.7	41.1	23.0	45.7	39.4	21.0	3.3	24.0	27.3	21.0	18.8	18.8
200	29.0	29.0	45.8	39.8	16.8	43.8	37.8	14.8	27.8	21.8	24.8	18.8	18.0	18.0
250	32.8	32.8	44.3	38.3	11.5	42.3	36.3	9.5	25.8	19.8	22.8	16.8	17.3	17.3
300	36.4	*	43.1	*	6.7	41.1	*	4.7	24.3	*	21.3	*	16.8	*
350	39.8	*	42.1	*	2.3	40.1	*	0.3	22.9	*	19.9	*	16.3	*
400	43.0	*	41.3	*	NA	39.3	*	NA	21.8	*	18.8	*	15.9	*
450	46.0	*	40.5	*	NA	38.5	*	NA	20.7	*	17.7	*	15.5	*
500	48.9	*	39.8	*	NA	37.8	*	NA	19.8	*	16.8	*	15.2	*
550	51.8	*	39.2	*	NA	37.2	*	NA	19.0	*	16.0	*	14.9	*
600	54.5	*	38.6	*	NA	36.6	*	NA	18.2	*	15.2	*	14.7	*

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.