

Features and Benefits

- A shielded or foiled-twisted pair (F/UTP) 10 Gig cable, requiring grounding and providing industry-leading protection from external cable noise sources, also known as alien crosstalk (PSANEXT and PSAACRF)
- The internal separator optimizes internal pair geometry to yield superior electrical performance and maintain flexibility. This unique cross-web stabilizes each pair to create a smaller, round cable profile
- Tru-Mark® print legend contains footage marking from 1000' to 0'
- Made in U.S.A.

Applications

- IEEE 802.3 10G BASE-T, 100 BASE-T
- 100 BASE-TX, 10 BASE-T, 1000 BASE-TX
- 155 Mb/s ATM
- IEEE 802.3af for PoE
- IEEE 802.3at for PoE Plus
- ANSI X3.263: 100Mb/s

Standard Compliances

- ANSI/TIA/EIA 568 C.2
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



CT104/SDM Multimedia Cat 6A Cable for use with Crestron® Systems

features extended bandwidth and precision tolerances to meet or exceed the latest TIA and ISO standards. Designed to deliver reliability in leading-edge networking, data and video applications, every reel is UL verified and UL safety listed to ensure consistent performance. CT104/SDM Multimedia Cable is available in plenum and riser constructions.



CONSTRUCTION

Conductors

- 4 Twisted Pairs of 23 AWG Solid Bare Annealed Copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

Color Code

- Pair 1: Blue-White
- Pair 2: Orange-White
- Pair 3: Green-White
- Pair 4: Brown-White

Separator

- Cross-Web

Core Tape

- CMR: Polypropylene
- CMP: Woven Fiberglass

Shield

- Polyester-Backed Aluminum Foil (Aluminum Side In)

Drain Wire

- 24 AWG Stranded (7/32) Solid Tinned Copper

Jacket




- Non-Plenum: Flame-Retardant PVC
- Plenum: Low-Smoke, Flame-Retardant PVC

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.310	0.295
Nominal Cable Weight (lbs/1000ft)	42	46
Minimum Bend Radius (in)	1.25	1.25
Maximum Pulling Force (lbs)	40	40
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

PART NUMBERS

Standard Packaging: 1000' Spool

Jacket Color	CMR (Non-Plenum)	CMP (Plenum)
 Blue	CT104/SDM-07	CT104/SDMP-07
 White	CT104/SDM-02	CT104/SDMP-02
 Black	CT104/SDM-01	CT104/SDMP-01

Non-stock items may be subject to minimum order quantities

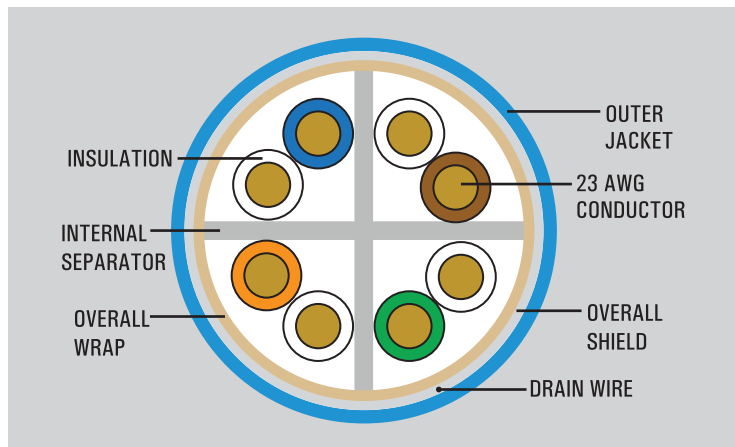
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ELECTRICAL PERFORMANCE

Frequency MHz	PSACR*	ACR*	Attenuation (min)	PSNEXT	NEXT	PSELFEXT	ELFEXT	Return Loss (min)	TCL (min)	PSANEXT			PSAACRF			
	(min)	(min)		(min)	(min)	(min)	(min)			(min)	(min)	(min)	(min)	(min)	(min)	(min)
	TIA 568 C.2	TIA 568 C.2	TIA 568 C.2	TIA 568 C.2	TIA 568 C.2	TIA 568 C.2	TIA 568 C.2	TIA 568 C.2	TIA 568 C.2	TIA 568 C.2	TIA 568 C.2	General Cable Guaranteed	General Cable Typical	TIA 568 C.2	General Cable Guaranteed	General Cable Typical
1	70.2	72.2	2.1	72.3	74.3	64.8	67.8	20.0	40.0	67.0	73.0	85.0	67.0	73.0	85.0	
4	59.5	61.5	3.8	63.3	65.3	52.8	55.8	23.0	40.0	67.0	73.0	85.0	66.2	72.2	84.2	
10	51.4	53.4	5.9	57.3	59.3	44.8	47.8	25.0	40.0	67.0	73.0	85.0	58.2	64.2	76.2	
16	46.8	48.8	7.5	54.2	56.2	40.7	43.7	25.0	38.0	67.0	73.0	85.0	54.1	60.1	72.1	
20	44.4	46.4	8.4	52.8	54.8	38.8	41.8	25.0	37.0	67.0	73.0	85.0	52.2	58.2	70.2	
31.25	39.4	41.4	10.5	49.9	51.9	34.9	37.9	23.6	35.1	67.0	73.0	85.0	48.3	54.3	66.3	
62.5	30.4	32.4	15.0	45.4	47.4	28.9	31.9	21.5	32.0	65.6	71.6	83.6	42.3	48.3	60.3	
100	23.2	25.2	19.1	42.3	44.3	24.8	27.8	20.1	30.0	62.5	68.5	80.5	38.2	44.2	56.2	
150	16.0	18.0	23.7	39.7	41.7	21.3	24.3	18.9	28.2	59.9	65.9	77.9	34.7	40.7	52.7	
200	10.2	12.2	27.6	37.8	39.8	18.8	21.8	18.0	27.0	58.0	64.0	76.0	32.2	38.2	50.2	
250	5.2	7.2	31.1	36.3	38.3	16.8	19.8	17.3	26.0	56.5	62.5	74.5	30.2	36.2	48.2	
300	0.9	2.9	34.3	35.1	37.1	15.3	18.3	16.8	25.2	56.3	61.3	73.3	28.7	34.7	46.7	
400	—	—	40.1	33.3	35.3	12.8	15.8	15.9	24.0	53.5	59.5	71.5	26.2	32.2	44.2	
500	—	—	45.3	31.8	33.8	10.8	13.8	15.2	23.0	52.0	58.0	70.0	24.2	30.2	42.2	

Note: Values are expressed in dB per 100 m (328 ft.) length. Results beyond 100 MHz for reference only.
*PSACR & ACR not specified in ANSI/TIA 568-C.2

MULTIMEDIA SHIELDED CAT 6A CABLE CROSS-SECTION



ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20° C	8.9
DC Resistance Unbalanced (max) Individual Pair %	4
Delay Skew (max) ns/100m	35
Nom. Velocity of Propagation (NVP) % Speed of Light	70
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms 100 ± 15