

GenSPEED® 10 MTP™ Small Diameter Category 6A Cable

The Industry's Smallest Full Channel 6A Cable

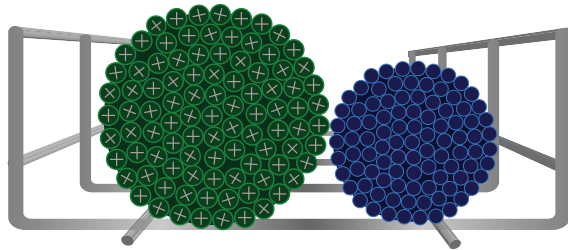
GenSPEED®

Record-Breaking Cat 6A Cables with Superior Alien Crosstalk Protection and EMI Immunity

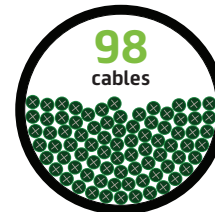


GenSPEED 10MTP is the world's first Category 6A Cable to feature a record-breaking 0.230" overall diameter with guaranteed performance that meets or exceeds all TIA standards, providing industry-leading alien crosstalk protection and EMI Immunity. Without needing to be grounded, GenSPEED 10 MTP's Mosaic Variable Laser Cut Tape shields the cable from noise coming from external cable sources (PSANEXT and PSAACRF). Its improved design, reduced diameter, lighter weight and increased flexibility translates to simplified cable handling and optimized cable management: less conduit, less cable tray and more cable in existing conduit and trays which lowers overall project costs.

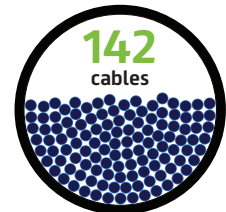
- Innovative design provides guaranteed performance using the world's smallest fully compliant Cat 6A cable.
- Smaller cable diameter allows for greater cable density, reducing cable management costs.
- Simplified design and improved bend radius make it easier to strip, terminate and route, reducing installation time and expense.
- Utilizes innovative Mosaic™ Variable Laser Cut Tape to provide superior protection against alien crosstalk. Random laser cut pattern delivers maximum protection against EMI noise interference.
- UL Listed CMP-LP 0.7A with certified performance for high power PoE applications up to 140 W. UL verified with certified performance for 100W power over HDBaseT.



First Cat 6A to feature 0.230" OD allowing for easier installation and increased cabling fill capacity: less cable tray and more cable in existing trays, which lowers overall costs.



4 inch conduit with 0.275" OD cable



4 inch conduit with GenSPEED 10 0.230" OD cable

Reduced diameter translates to simplified cable management: GenSPEED 10 is the only cable to allow up to 142 cables in a 4 in. conduit vs. 98 cables.

Cable OD	TRAY SIZE		
	4" x 6"	4" x 12"	4" x 18"
0.230	288	577	865
0.250	240	484	728
0.275	198	400	602
0.300	167	336	506

Cable OD	CONDUIT SIZE		
	3/4"	1"	4"
0.230	5	8	142
0.250	4	7	119
0.275	3	5	98
0.300	2	4	80

APPLICATIONS

- IEEE 802.3: 10G BASE-T, 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+ and PoE++
- ANSI/TIA 854: 1000 BASE-TX
- Digital Video
- Broadband and Baseband Analog Video
- CDDI, Token Ring, ATM

STANDARD COMPLIANCES

- ANSI/TIA 568.2-D
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL Listed CMP-LP 0.7A*
- UL 444
- UL 4299
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ISO/IEC 11801 Ed. 2.0 (Class E_x)

*0.7A is the ampacity rating of the cable, which equals to 140 watts using 50 volts over four pairs.



FEATURING

MOSAIC
VARIABLE LASER CUT TAPE



CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Plenum: Fluoropolymer

Color Code

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

ANEXT Protection:

- Mosaic™ Variable Laser Cut Tape

Jacket

- Plenum: Low-Smoke, Flame-Retardant PVC

PART NUMBERS

Jacket Color	CMP (Plenum)	
	Spool	
Blue	7151849	
White	7151850	
Gray	7151851	
Yellow	7151852	
Green	7151853	
Red	7151854	
Purple	7151855	
Orange	7151856	
Pink	7151857	
Black	7151858	

Non-stock items may be subject to minimum order quantities.

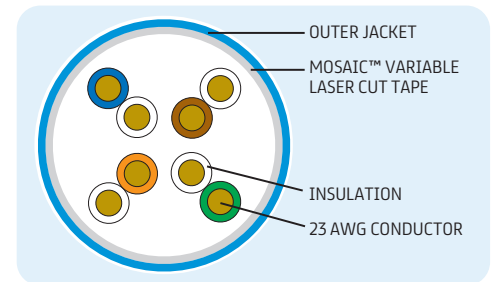
PHYSICAL DATA

	CMP
Nominal Cable Diameter (in)	0.230
Nominal Cable Weight (lbs/1000 ft)	30
Minimum Bend Radius (in)	1
Maximum Pulling Force (lbs)	40
Temperature Rating (°C)	
Installation:	0 to +60
Operation:	-20 to +105

ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20°C	9.38	7.00
DC Resistance Unbalanced Individual Pair %	4.00	<1
Delay Skew (Max) ns/100 m	45	
Nom. Velocity of Propagation % Speed of Light	70	
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms 100 ± 15	

CROSS-SECTION



ELECTRICAL PERFORMANCE

Frequency MHz	PSACR* (min)	ACR* (min)	Insertion Loss (min)	PSNEXT (min)	NEXT (min)	PSACRF (min)	ACRF (min)	Return Loss (min)	TCL (min)	PSANEXT (min)		PSAACRF (min)			
	General Cable Guaranteed	General Cable Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	General Cable Guaranteed	General Cable Typical	TIA Guaranteed	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	75.0	79.0	67.0	75.0	79.0
4	59.5	61.5	3.8	63.3	65.3	52.8	55.8	23.0	40.0	67.0	75.0	79.0	66.2	74.4	78.2
10	51.4	53.4	5.9	57.3	59.3	44.8	47.8	25.0	40.0	67.0	75.0	79.0	58.2	66.2	70.2
16	46.8	48.8	7.5	54.2	56.2	40.7	43.7	25.0	38.0	67.0	75.0	79.0	54.1	62.1	66.1
20	44.4	46.4	8.4	52.8	54.8	38.8	41.8	25.0	37.0	67.0	75.0	79.0	52.2	60.2	64.2
31.25	39.4	41.4	10.5	49.9	51.9	34.9	37.9	23.6	35.1	67.0	75.0	79.0	48.3	56.3	60.3
62.5	30.4	32.4	15.0	45.4	47.4	28.9	31.9	21.5	32.0	65.6	73.6	77.6	42.3	50.3	54.3
100	23.2	25.2	19.1	42.3	44.3	24.8	27.8	20.1	30.0	62.5	70.5	74.5	38.2	46.2	50.2
150	16.0	18.0	23.7	39.7	41.7	21.3	24.3	18.9	28.2	59.9	67.9	71.9	34.7	42.7	46.7
200	10.2	12.2	27.6	37.8	39.8	18.8	21.8	18.0	27.0	58.0	66.0	70.0	32.2	40.2	44.2
250	5.2	7.2	31.1	36.3	38.3	16.8	19.8	17.3	26.0	56.5	64.5	68.5	30.2	38.2	42.2
300	0.9	2.9	34.3	35.1	37.1	15.3	18.3	16.8	25.2	55.3	63.3	67.3	28.7	36.7	40.7
400	—	—	40.1	33.3	35.3	12.8	15.8	15.9	24.0	53.5	61.5	65.5	26.2	34.2	38.2
500	—	—	45.3	31.8	33.8	10.8	13.8	15.2	23.0	52.0	60.0	64.0	24.2	32.2	36.2

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C.

*PSACR & ACR not specified in ANSI/TIA 568.2-D