

GenSPEED® 10 MTP™

Featuring Mosaic™ Variable Laser Cut Tape



GenSPEED 10
CAT 6A SOLUTIONS

THINK BIG
BY GOING
SMALL

Superior Alien Crosstalk Protection and EMI Immunity in the Industry's Smallest 6A Cable

General Cable's industry-leading 10 Gig solution, GenSPEED® 10 MTP Category 6A Cable, provides industry-leading alien crosstalk protection and EMI Immunity in the smallest Cat 6A Cables. 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.

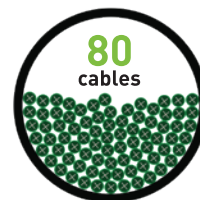
- ▶ Smaller cable diameter allows for greater cable density, reducing cable management costs.
- ▶ Simplified design and improved bend radius make it easier to strip, terminate and route, reducing installation time and expense.
- ▶ Utilizes innovative Mosaic™ Variable Laser Cut Tape to provide superior 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.

Superior Performance.

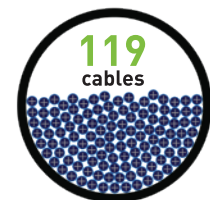
Smaller. Lighter. More Flexible.

	Cable OD	Crosstalk Protection	EMI Immunity
GS10 MTP	0.25"	✓✓✓	✓✓✓
GS10	0.25"	✓✓	✓
GS10 F/UTP	0.298"	✓✓✓	✓✓✓

✓ TIA Standard ✓✓ Enhanced ✓✓✓ Superior



4 inch conduit with
0.300" OD cable



4 inch conduit with
GenSPEED 10
(0.250" OD)

Reduced diameter translates to simplified cable management: GenSPEED 10 is the only cable to allow up to 119 cables in a 4 in. conduit vs. 80 cables of a traditional product.*

GenSPEED® 10
CAT 6A SOLUTIONS

 **General Cable**

GenSPEED[®] 10 MTP Cat 6A Cable

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-C.2
- NEC/CEC Type CMP (NFPA 262)
- UL Listed CMP-LP 0.7A*
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ISO/IEC 11801 Ed. 2.0 (Class E_A)

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



CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Fluoropolymer

ANEXT Protection

- Mosaic™ Variable Laser Cut Tape

Color Code

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

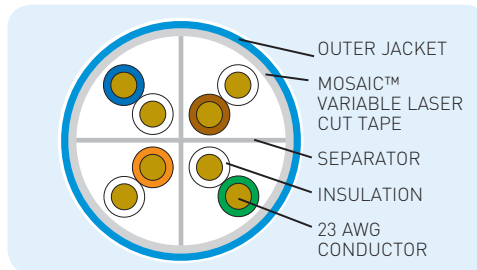
Separator

- Engineered Cross-web

Jacket

- Plenum: Low-smoke, Flame-Retardant PVC

CROSS-SECTION



PHYSICAL DATA

Nominal Cable Diameter (in)	0.25
Nominal Cable Weight (lbs/1000 ft)	32
Minimum Bend Radius (in)	1
Maximum Pulling Force (lbs)	40
Temperature Rating (°C)	
Installation:	0 to +60
Operation:	-20 to +105

PART NUMBERS

Standard Packaging: 1000' Spool*

Jacket Color	CMP (Plenum)	
	Spool	Spool-Pac
Blue	7141849	7141879
White	7141850	7141880

*Note: Spool Pac available upon request. Non-stock items may be subject to minimum order quantities. Other colors available.

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 ns/100 m	45	
Nom. Velocity of Propagation % Speed of Light	70	
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms 100 ± 15	

ELECTRICAL PERFORMANCE

Frequency MHz	PSACR*	ACR*	Insertion Loss (min)	PSNEXT	NEXT	PSACRF	ACRF	Return Loss (min)	TCL (min)	PSANEXT			PSAACRF		
	(min)	(min)		(min)	(min)	(min)	(min)			(min)	(min)	(min)	(min)	(min)	(min)
	General Cable Guaranteed	General Cable Guaranteed	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	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-C.2



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