

# GEN SPEED<sup>®</sup> 10 MTP<sup>™</sup>

## GenSPEED<sup>®</sup> 10 MTP<sup>™</sup>

Finally, an Unshielded-Twisted Pair (UTP) 10 Gig Cable that performs like a Shielded or Foiled-Twisted Pair (STP/FTP) cable. General Cable's revolutionary Mosaic Twisted Pair<sup>™</sup> design saves time and money over a shielded installation and provides industry-leading protection from external cable sources, also known as alien crosstalk (PSANEXT and PSAACRF).

## Flex-Separator<sup>™</sup>

Our Flex-Separator<sup>™</sup> optimizes internal pair geometry to yield superior electrical performance while maintaining cable flexibility. This unique cross-web stabilizes each pair and creates an overall smaller, **round** cable profile.

## Mosaic Crossblock<sup>™</sup>

The Mosaic Crossblock<sup>™</sup> is made up of individual metallic blocks separated by an insulating layer. Since there is no metal-to-metal contact, there is no path for current to flow longitudinally, and thus, no need for grounding.



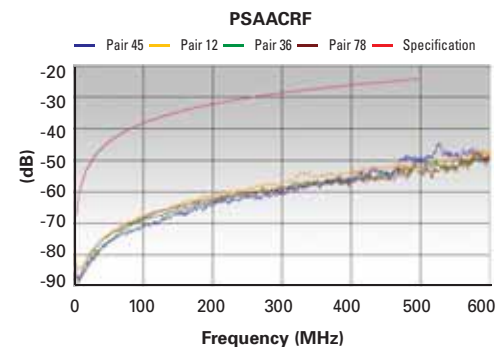
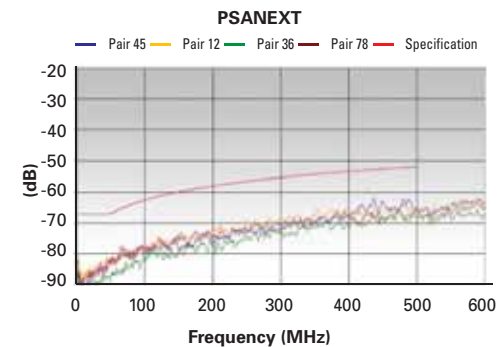
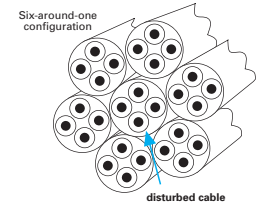
## Eliminating Alien Crosstalk Block by Block

*MTP = An unshielded 6A cable that performs like a shielded cable*



One of the biggest challenges in 10 Gigabit operations is to mitigate noise between individual cables used for high speed data communication. You could incur the costs and time to upgrade to a shielded solution, OR you can install General Cable's industry-leading solution, GenSPEED<sup>®</sup> 10 MTP<sup>™</sup> Category 6A cable. GenSPEED<sup>®</sup> 10 MTP<sup>™</sup> utilizes revolutionary Mosaic Crossblock<sup>™</sup> technology to shield the cable from noise coming from external cable sources, referred to as alien crosstalk (PSANEXT and PSAACRF) – without the need for grounding. This patented technology was carefully designed with metallic blocks separated by an insulating layer. Since there is no metal-to-metal contact, there is no path for current to flow longitudinally, and thus, no need for grounding. Therefore, you get all the benefits of an STP/FTP cable without the cost or risk to your system.

4 Pair Cables: Bundles of 7 Test Results



# GenSPEED® 10 MTP™ Category 6A Cable

## 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
- Draft IEEE 802.3at for PoE Plus
- ANSI X3.263 100Mb/s

## CONSTRUCTION

- Conductor** • 23 AWG solid bare annealed copper
- Insulation** • Non-Plenum: Polyolefin  
• Plenum: Fluoropolymer
- Pairing** • 4 Pair
- Color Code** • Blue/White  
• Orange/White  
• Green/White  
• Brown/White
- Separator** • Cross-Web
- Jacket** • Non-Plenum: Flame-Retardant PVC  
• Plenum: Low-Smoke, Flame-Retardant PVC

## PART NUMBERS

Standard packaging: 1000' reel

Jacket Color	REEL	
	CMR (Non-Plenum)	CMP (Plenum)
■ Blue	7133849	7131849
□ White	7133850	7131850

See catalog for complete color availability.

## ELECTRICAL CHARACTERISTICS

<b>DC Resistance (max)</b> Ohms/100m (328ft) @ 20°C	9.38 ohms/100m
<b>DC Resistance Unbalanced (max)</b> Individual Pair %	4%
<b>Delay Skew (max)</b> Ns/100m	35 ns/100m
<b>Nom. Velocity of Propagation</b> % Speed of Light	70%
<b>Characteristic Impedance</b> Frequency (f): 1-500MHz	100 ohms ± 15 ohms

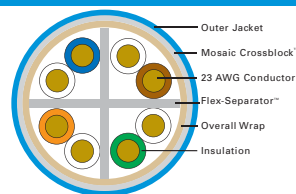
## PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
<b>Nominal Cable Diameter (in)</b>	.295	.290
<b>Nominal Cable Weight (lbs/1000 ft)</b>	35	44
<b>Minimum Bend Radius (in)</b>	1.25	1.25
<b>Maximum Pulling Force (lbs)</b>	40	40
<b>Temperature Rating (°C)</b>		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

## COMPLIANCES

- ANSI/TIA 568 B.2-10
- RoHS

## TYPICAL GEN SPEED® 10 MTP™ CATEGORY 6A CROSS-SECTION



## ELECTRICAL PERFORMANCE

	TIA 568 B.2-10	TIA 568 B.2-10	TIA 568 B.2-10	TIA 568 B.2-10	TIA 568 B.2-10	TIA 568 B.2-10	TIA 568 B.2-10	TIA 568 B.2-10	TIA 568 B.2-10	TIA 568 B.2-10		General Cable Typical	TIA 568 B.2-10		General Cable Typical
1	70.2	72.2	2.1	72.3	74.3	64.8	67.8	20.0	40.0	67.0		79.0	67.0		79.0
4	59.5	61.5	3.8	63.3	65.3	52.8	55.8	23.0	40.0	67.0		79.0	66.2		78.2
10	51.4	53.4	5.9	57.3	59.3	44.8	47.8	25.0	40.0	67.0		79.0	58.2		70.2
16	46.8	48.8	7.5	54.2	56.2	40.7	43.7	25.0	38.0	67.0		79.0	54.1		66.1
20	44.4	46.4	8.4	52.8	54.8	38.8	41.8	25.0	37.0	67.0		79.0	52.2		64.2
31.25	39.4	41.4	10.5	49.9	51.9	34.9	37.9	23.6	35.1	67.0		79.0	48.3		60.3
62.50	30.4	32.4	15.0	45.4	47.4	28.9	31.9	21.5	32.0	65.6		77.6	42.3		54.3
100	23.2	25.2	19.1	42.3	44.3	24.8	27.8	20.1	30.0	62.5		74.5	38.2		50.2
150	16.0	18.0	23.7	39.7	41.7	21.3	24.3	18.9	28.2	59.9		71.9	34.7		46.7
200	10.2	12.2	27.6	37.8	39.8	18.8	21.8	18.0	27.0	58.0		70.0	32.2		44.2
250	5.3	7.3	31.1	36.3	38.3	16.8	19.8	17.3	26.0	56.5		68.5	30.2		42.2
300	0.9	2.9	34.3	35.1	37.1	15.3	18.3	16.8	25.2	55.3		67.3	28.7		40.7
400	—	—	40.1	33.3	35.3	12.8	15.8	15.9	24.0	53.5		65.5	26.2		38.2
500	—	—	45.3	31.8	33.8	10.8	13.8	15.2	23.0	52.0		64.0	24.2		36.2



4 Tessenner Drive  
Highland Heights, Kentucky 41076-9753  
Telephone: (800) 424-5666  
(859) 572-8000

Email: [info@generalcable.com](mailto:info@generalcable.com)  
[www.generalcable.com](http://www.generalcable.com)

590 Barmac Drive  
North York, Ontario M9L 2X8  
Telephone: (800) 561-0649  
Fax: (800) 565-2529

GENERAL CABLE, FLEX-SEPARATOR, GEN SPEED, MOSAIC CROSSBLOCK and 10 MTP are trademarks of General Cable Technologies Corporation.

©2009, General Cable Technologies Corporation.  
Highland Heights, KY 41076

All rights reserved. Printed in USA.

Form No. DAT-0116-0109

35343

featuring

