

# GenSPEED® 10 MTP™ Category 6A Cable

## Features And Benefits

- 10 MTP™ unshielded-twisted pair (UTP) design performs like a shielded or foiled-twisted pair (STP/FTP) cable, providing industry-leading protection from external cable noise sources, also known as alien crosstalk (PSANEXT and PSAACRF)
- Mosaic Crossblock™ is a thin tape 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
- The Flex-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 markings from 1000' to 0'

## 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

## Standard Compliances

- ANSI/TIA 568 B.2-10
- TIA 568 C Draft
- RoHS Compliant Directive 2002/95/EC
- UL 444



Data subject to change without notice.



## CONSTRUCTION

### Conductors

- 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

### Jacket

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

## PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.305	0.305
Nominal Cable Weight (lbs/1000ft)	35	44
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	Spool	
	CMR (Non-Plenum)	CMP (Plenum)
Blue	7133849	7131849
White	7133850	7131850
Yellow	7133852	7131852
Gray	7133851	7131851
Red	7133854	7131854
Orange	7133856	7131856
Green	7133853	7131853
Black	7133858	7131858
Pink	7133857	7131857
Purple	7133855	7131855

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

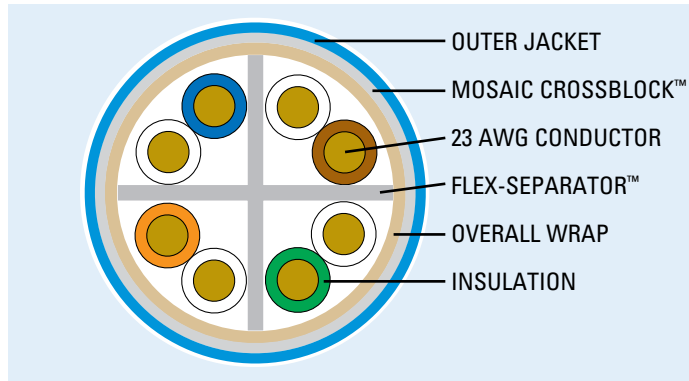
# An Unshielded 6A Cable That Performs Like a Shielded Cable

## ELECTRICAL PERFORMANCE

Frequency MHz	PSACR	ACR	Attenuation	PSNEXT	NEXT	PSELFEXT	ELFEXT	Return Loss	TCL	PSANEXT		PSAACRF				
	(min)	(min)	(min)	(min)	(min)	(min)	(min)			(min)	(min)	(min)	(min)	(min)	(min)	(min)
	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	TIA 568 B.2-10	General Cable Guaranteed	General Cable Typical	TIA 568 B.2-10	General Cable Guaranteed	General Cable Typical
1	70.2	72.2	2.1	72.3	74.3	64.6	67.8	20.0	40.0	67.0	73.0	79.0	67.0	73.0	79.0	
4	59.5	61.5	3.8	63.3	65.3	52.8	55.8	23.0	40.0	67.0	73.0	79.0	66.2	72.2	78.2	
10	51.4	53.4	5.9	57.3	59.3	44.8	47.8	25.0	40.0	67.0	73.0	79.0	58.2	64.2	70.2	
16	46.8	48.8	7.5	54.2	56.2	40.7	43.7	25.0	38.0	67.0	73.0	79.0	54.1	60.1	66.1	
20	44.4	46.4	8.4	52.8	54.8	38.8	41.8	25.0	37.0	67.0	73.0	79.0	52.2	58.2	64.2	
31.25	39.4	41.4	10.5	49.9	51.9	34.9	37.9	23.6	35.1	67.0	73.0	79.0	48.3	54.3	60.3	
62.5	30.4	32.4	15.0	45.4	47.4	28.9	31.9	21.5	32.0	65.6	71.6	77.6	42.3	48.3	54.3	
100	23.2	25.2	19.1	42.3	44.3	24.8	27.8	20.1	30.0	62.5	68.5	74.5	38.2	44.2	50.2	
150	16.0	18.0	23.7	39.7	41.7	21.3	24.3	18.9	28.2	59.9	65.9	71.9	34.7	40.7	46.7	
200	10.2	12.2	27.6	37.8	39.8	18.8	21.8	18.0	27.0	58.0	64.0	70.0	32.2	38.2	44.2	
250	5.2	7.2	31.1	36.3	38.3	16.8	19.8	17.3	26.0	56.5	62.5	68.5	30.2	36.2	42.2	
300	0.9	2.9	34.3	35.1	37.1	15.3	18.3	16.8	25.2	55.3	61.3	67.3	28.7	34.7	40.7	
400	—	—	40.1	33.3	35.3	12.8	15.8	15.9	24.0	53.5	59.5	65.5	26.2	32.2	38.2	
500	—	—	45.3	31.8	33.8	10.8	13.8	15.2	23.0	52.0	58.0	64.0	24.2	30.2	36.2	

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

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

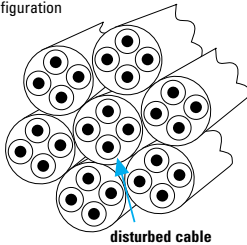


## ELECTRICAL CHARACTERISTICS

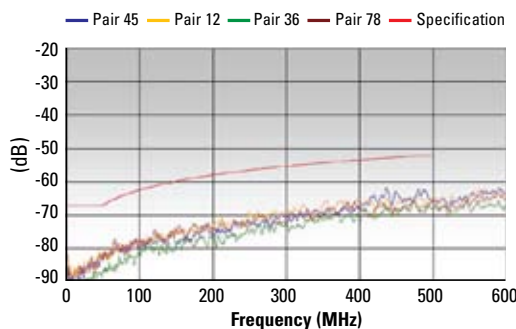
<b>DC Resistance (max)</b> Ohms/100m (328ft) @ 20°C	9.38 ohms/100m
<b>DC Resistance Unbalanced (max)</b> Individual Pair %	4%
<b>Delay Skew (max)</b> ns/100m	35 ns/100m
<b>Nom. Velocity of Propagation</b> % Speed of Light	70%
<b>Characteristic Impedance</b> Frequency (f): 1-500 MHz	100 ohms ± 15 ohms

## 4 PAIR CABLES: Bundles of 7 Test Results

Six-around-one  
configuration



### PSANEXT



### PSAACRF

