

# 10 MTP™ Category 6A Cable

Industry-Trusted Thin-Profile 10 Gig Cable

Future-proof your networks with the trusted technology behind the GenSPEED<sup>®</sup> 10 MTP™ Category 6A Cable, which now features a reduced diameter and enhanced performance. First to industry with a discontinuous-tape design, the latest generation of the industry's premiere 10 Gig cable boasts a reduced diameter while offering increased flexibility and improved protection against alien crosstalk.

- Thin-Profile Design with Reduced Cable Weight for Increased Fill Capacity
- Superior Protection Against Alien Crosstalk
- Rugged 23 AWG Conductors to Support up to 140 W\* to PoE Devices
- Improved Cable Temperature Rating (90°C Plenum, 75°C Riser) for Greater Protection Against Increased Operating Temperatures and for High-Wattage Applications
- First to Industry with UL Listing CMP-LP (0.7A)\*

### Reduced Overall Diameter

Installers facing limited space will appreciate the small overall diameter, allowing for increased fill capacity for cabling pathways and easier installation.

### Highest Protection Against Alien Crosstalk in a UTP Cable

10 MTP unshielded twisted pair (UTP) design provides industry-leading protection from external cable noise sources, also known as alien crosstalk. Guaranteed +8 dB over TIA 568-C.2 Standard for both PSANEXT & PSAACRF.

### Mosaic Crossblock™

Mosaic Crossblock is a thin metallic tape of segmented sections 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.

### Proven MTP™ Technology

With over five years of successful installations, Mosaic Crossblock and the MTP design have proven reliable in the field.

### Round Cable Profile for Easy Tray Cable Layout

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.



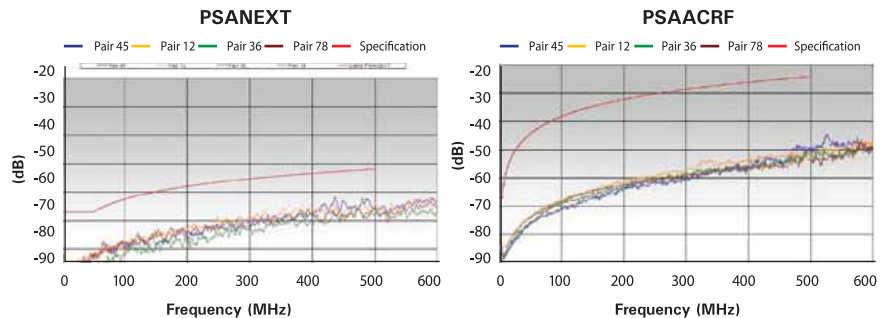
**LP Listed**

SUPPORTS UP TO  
140 WATTS\*

Featuring  
**mosaic**  
CROSSBLOCK™

FEATURING

**EFFICIENCY MAX**  
technology to support PoE applications



\*UL Listing CMP-LP (0.7A) applies to plenum version. 0.7A is the ampacity rating of the cable, which equates to 140 watts using 50 volts over four pairs.

## 10 MTP™ Thin-Profile Cat 6A Cable

### APPLICATIONS

- IEEE 802.3: 10G BASE-T, 1000 BASE-T, 100 BASE-TX, 10 BASE-T, HD BASE-T, PoE, 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) for Plenum
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ANSI/NEMA WC 66
- ISO/IEC 11801 Ed. 2.0 (Class EA)



### CONSTRUCTION

#### Conductors

- 23 AWG solid bare annealed copper

#### Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

#### Color Code

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

#### Separator

- Cross-web

#### Jacket

- Low-smoke, flame-retardant PVC

### PHYSICAL DATA

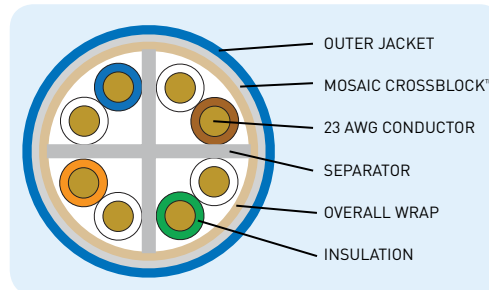
	CMR	CMP
Nominal Cable Diameter (in)	0.285	0.275
Nominal Cable Weight (lbs/1000 ft)	37.5	39.5
Minimum Bend Radius (in)	1.25	
Maximum Pulling Force (lbs)	40	
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +90

### PART NUMBERS

Standard Packaging: 1000' Spool

Jacket Color	CMR (Riser)	CMP (Plenum)
Blue	7134849	7132849
White	7134850	7132850
Yellow	7134852	7132852
Gray	7134851	7132851
Red	7134854	7132854
Orange	7134856	7132856
Green	7134854	7132853
Black	7134858	7132858
Pink	7134857	7132857
Purple	7134855	7132855

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



### ELECTRICAL CHARACTERISTICS

	Max.	Nom.
<b>DC Resistance</b> Ohms/100 m (328 ft) @ 20° C	9.38	7.00
<b>DC Resistance Unbalanced</b> Individual Pair %	4.00	< 1
<b>Delay Skew</b> ns/100 m	45	29.5
<b>Nom. Velocity of Propagation</b> % Speed of Light	70	
<b>Characteristic Impedance</b> Frequency (f): 1-500 MHz	Ohms 100 ± 15	

### 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 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	74.2	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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