

10 MTP™ Category 6A Cable

Industry-Trusted Thin-Profile 10 Gig Cable

Future-proof your networks with the trusted technology behind the GenSPEED® 10 MTP™ Category 6A Cable, which 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 improved protection against alien crosstalk and support for high-wattage Power over Ethernet (PoE) applications.

- Thin-Profile Design with Reduced Cable Weight for Increased Fill Capacity
- Superior Protection Against Alien Crosstalk
- Utilizes EfficienC™ Max Technology to Support up to 140 W* to PoE Devices
- Cable Temperature Rated to 90°C for Higher Protection Against Increased Operating Temperatures and for High-Wattage Applications
- Rugged 23 AWG Conductors
- First to Industry with UL Listing CMP-LP (0.7A)*
- Can Contribute to Two LEED® points with Environmental and Health Product Declarations (EPDs and HPDs)

Reduced Overall Diameter

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

Superior 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.

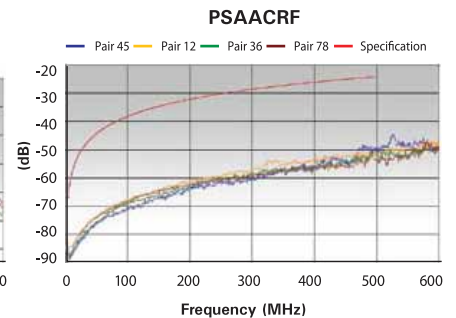
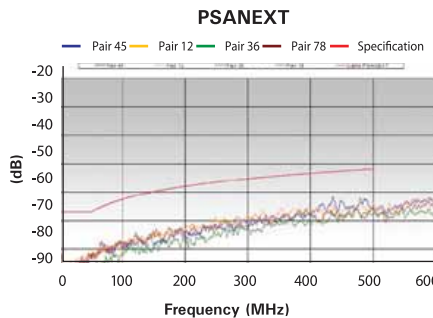
Proven MTP™ Technology

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.

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



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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
- 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

- Fluoropolymer

Color Code

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

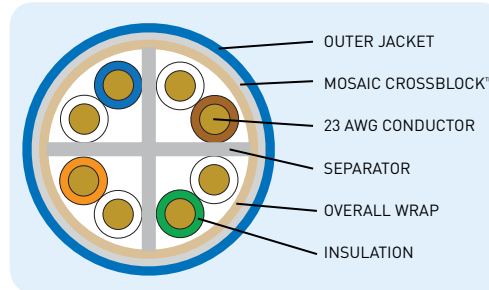
Separator

- Cross-web

Jacket

- Low-smoke, flame-retardant PVC

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



PHYSICAL DATA

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

PART NUMBERS

Standard Packaging: 1000' Spool

Jacket Color	Part Number
Blue	7132849
White	7132850
Yellow	7132852
Gray	7132851
Red	7132854
Orange	7132856
Green	7132853
Black	7132858
Pink	7132857
Purple	7132855

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	29.5
Nom. Velocity of Propagation % Speed of Light	70	
Characteristic Impedance 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



4 Tesseneer Drive, Highland Heights, Kentucky 41076-9753

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Telephone: 859.572.8000
800.424.5666 [U.S.]
800.561.0649 [Canada]

Email: info@generalcable.com
www.generalcable.com
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