GenSPEED® BRAND

10 MTP™ Category 6A Cable
The Industry's Top-Performing, Thin-Profile 10 Gig Cable

Future-proof your networks with the trusted technology behind the Gen*SPEED*® 10 MTP™ Category 6A Cable which now features a reduced diameter and enhanced performance. The latest generation of the industry's premiere 10 Gig cable boasts a 0.275" diameter while offering increased flexibility and improved protection against alien crosstalk, making it the best-performing, thin-profile Category 6A UTP cable available.

- Reduced Overall Diameter (0.275")
- Highest Protection Against Alien Crosstalk in a UTP Cable
- Guaranteed Electrical Performance
- Proven Reliable MTP Technology
- Increased Flexibility
- Reduced Cable Weight for Increased Fill Capacity
- Round Cable Profile for Easy Tray Cable Layout
- Rugged 23 AWG Conductors to Support up to 100 W* to PoE Devices
- Cable Temperature Rated to 90°C for Higher Protection Against Increased Operating Temperatures and for High-Wattage Applications
  100 W value calculated assuming 50 V circuit per TIA TSB-184:2009 test method.

Featuring mosaic CROSSBLOCK™

NEW Smaller 0.275" Diameter

FEATURING EFFICIENC™ MAX
technology to support PoE applications

Reduced Overall Diameter
Installers facing limited space will appreciate the 0.275" 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.

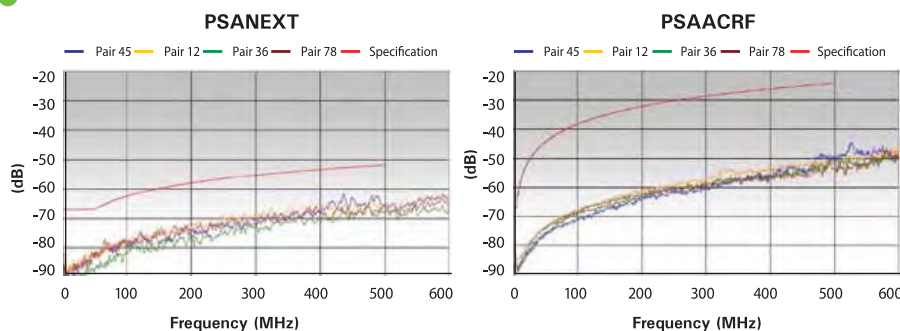### Round Cable Profile for Easy Tray Cable Layout
The Internal Separator optimizes internal pair geometry to yield superior electrical performance and maintain flexibility. This unique cross-web stabilizes each pair to create a smaller, round cable profile.

PSANEXT

— Pair 45 — Pair 12 — Pair 36 — Pair 78 — Specification

Frequency (MHz)

PSAACRF

— Pair 45 — Pair 12 — Pair 36 — Pair 78 — Specification

Frequency (MHz)

Please contact your General Cable sales represntative for product availability.

General Cable

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
- 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)

UL LISTED | UL VERIFIED | (ETL) | TIA TIA 568-C.2

RoHS Compliant Directive 2011/65/EU | Made in U.S.A.

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
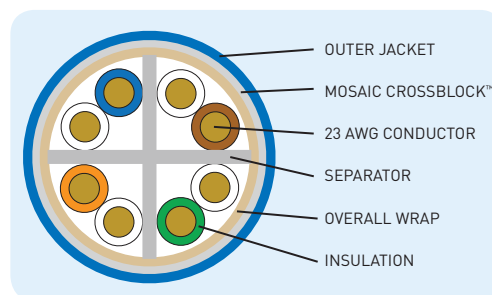- Cross-web

Jacket
- Low-smoke, flame-retardant PVC

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

- OUTER JACKET
- MOSAIC CROSSBLOCK™
- 23 AWG CONDUCTOR
- SEPARATOR
- OVERALL WRAP
- INSULATION

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: Operation:	0 to +60 −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) General Cable Guaranteed	ACR (min) General Cable Guaranteed	Insertion Loss (min) TIA 568-C.2	PSNEXT (min) TIA 568-C.2	NEXT (min) TIA 568-C.2	PSACRF (min) TIA 568-C.2	ACRF (min) TIA 568-C.2	Return Loss (min) TIA 568-C.2	TCL (min) TIA 568-C.2	PSANEXT (min) TIA 568-C.2	PSANEXT (min) General Cable Guaranteed	PSANEXT (min) General Cable Typical	PSAACRF (min) TIA 568-C.2	PSAACRF (min) General Cable Guaranteed	PSAACRF (min) 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

General Cable