

GenSPEED® 10 UTP Cat 6A Cable

Reliable Performance in the Industry's Smallest Full Channel 6A Cable

GenSPEED® 10
CAT 6A SOLUTIONS

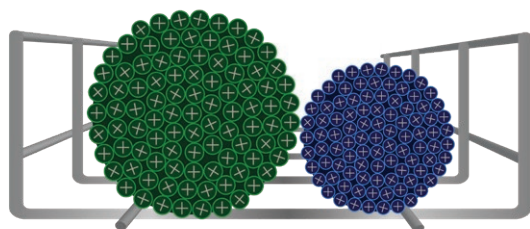
THINK BIG
BY GOING
SMALL

Introducing the New Generation of Small Diameter Category 6A Cables

GenSPEED 10 is the industry's first Category 6A Cable to feature a 0.250" overall diameter with guaranteed performance that meets or exceeds all TIA standards. Its innovative design and reduced size is perfect for migrating to a Cat 6A infrastructure, allowing for improved cable management, installation and handling, preparing your system for 10 Gigabit applications.

- ▶ Innovative design provides guaranteed performance using the industry's smallest Cat 6A cable.
- ▶ Smaller cable diameter allows for greater cable density, reducing cable management costs.
- ▶ Simplified design and improved bend radius make it easier to strip, terminate and route, reducing installation time and expense.
- ▶ 90°C jacket rating provides consistent performance in a wide range of operating environments.
- ▶ UL Listed CMP-LP 0.6A with certified performance for high power PoE applications.
- ▶ Innovative cross-web separator with patented design provides superior internal electrical characteristics by locking the pairs into a systematic orientation within the cable.
- ▶ Streamlined design allows for 36 reels per pallet, improving distribution and warehousing efficiency.
- ▶ TRU-MARK® print legend contains footage markings from 1000' to 0'.

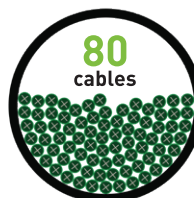
Smaller. Lighter. More Flexible.



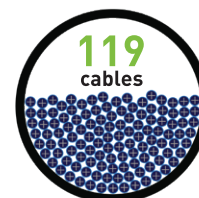
Up to 44% improvement!

First Cat 6A to feature 0.250" OD allowing for easier installation and increased cabling fill capacity: less cable tray and more cable in existing trays, which lowers overall costs.

Cable OD	Conduit Size		
	4" x 6"	4" x 12"	4" x 18"
0.250"	240	484	728
0.275"	198	400	602
0.300"	167	336	506



4 inch conduit with
0.300" OD cable



4 inch conduit with
GenSPEED 10
(0.250" OD)

Reduced diameter translates to simplified cable management: GenSPEED 10 is the only cable to allow up to 119 cables in a 4 in. conduit vs. 80 cables of a traditional product.*

Cable OD	Conduit Size		
	3/4"	1"	4"
0.250"	4	7	119
0.275"	3	5	98
0.300"	2	4	80

*Assuming 40% fill ratio.

GenSPEED[®] 10 UTP Cat 6A Cable

APPLICATIONS

- IEEE 802.3: 10G BASE-T, 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+ and 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 Listed CMP-LP 0.6A
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ISO/IEC 11801 Ed. 2.0 (Class E_A)



CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Fluoropolymer

ANEXT Protection

- Encapsulated Isolation Wrap

Color Code

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

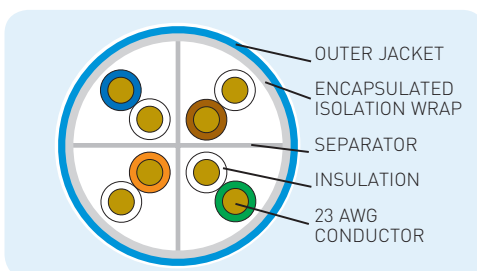
Separator

- Engineered Cross-web

Jacket

- Plenum: Low-smoke, Flame-Retardant PVC

CROSS-SECTION



PHYSICAL DATA

Nominal Cable Diameter (in)	0.250
Nominal Cable Weight (lbs/1000 ft)	32
Minimum Bend Radius (in)	1
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	7141819
White	7141820

*Note: Spool Pac available upon request. Non-stock items may be subject to minimum order quantities. Other colors available.

ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20° C	9.38	7.50
DC Resistance Unbalanced Individual Pair %	4.00	< 1
Delay Skew ns/100 m	45ns/100m	
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)	
	TIA / GC Guaranteed	TIA / GC Guaranteed	TIA / GC Guaranteed	TIA / GC Guaranteed	TIA / GC Guaranteed	TIA / GC Guaranteed	TIA / GC Guaranteed	TIA / GC Guaranteed	TIA / GC Guaranteed	TIA	GC Guaranteed	TIA	GC Guaranteed
1	70.2	72.2	2.1	72.3	74.3	64.8	67.8	20.0	40.0	67.0	69.0	67.0	69.0
4	59.5	61.5	3.8	63.3	65.3	52.8	55.8	23.0	40.0	67.0	69.0	66.2	68.2
10	51.4	53.4	5.9	57.3	59.3	44.8	47.8	25.0	40.0	67.0	69.0	58.2	60.2
16	46.8	48.8	7.5	54.2	56.2	40.7	43.7	25.0	38.0	67.0	69.0	54.1	56.1
20	44.4	46.4	8.4	52.8	54.8	38.8	41.8	25.0	37.0	67.0	69.0	52.2	54.2
31.25	39.4	41.4	10.5	49.9	51.9	34.9	37.9	23.6	35.1	67.0	69.0	48.3	50.3
62.5	30.4	32.4	15.0	45.4	47.4	28.9	31.9	21.5	32.0	65.6	67.6	42.3	44.3
100	23.2	25.2	19.1	42.3	44.3	24.8	27.8	20.1	30.0	62.5	64.5	38.2	40.2
150	16.0	18.0	23.7	39.7	41.7	21.3	24.3	18.9	28.2	59.9	61.9	34.7	36.7
200	10.2	12.2	27.6	37.8	39.8	18.8	21.8	18.0	27.0	58.0	60.0	32.2	34.2
250	5.2	7.2	31.1	36.3	38.3	16.8	19.8	17.3	26.0	56.5	58.5	30.2	32.2
300	0.9	2.9	34.3	35.1	37.1	15.3	18.3	16.8	25.2	55.3	57.3	28.7	30.7
400	—	—	40.1	33.3	35.3	12.8	15.8	15.9	24.0	53.5	55.5	26.2	28.2
500	—	—	45.3	31.8	33.8	10.8	13.8	15.2	23.0	52.0	54.0	24.2	26.2
600*	—	—	50.1*	30.6*	32.6*	9.2*	12.2*	14.7*	22.2*	—	50.8*	—	22.6*
700*	—	—	54.5*	29.6*	31.6*	7.9*	10.9*	14.2*	21.5*	—	49.8*	—	21.3*
750*	—	—	56.7*	29.2*	31.2*	7.3*	10.3*	14.0*	21.2*	—	49.4*	—	20.7*

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. *Values are for reference only.
 **PSACR & ACR not specified in ANSI/TIA 568-C.2



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 Form No. DAT-0180-R0118