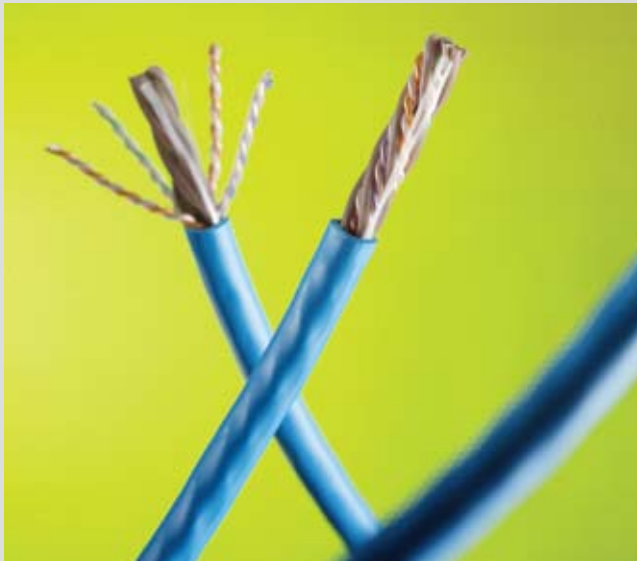


GenSPEED® 10,000

Standard-Compliant 6a



GenSPEED® 10,000 Category 6a cable is a cost-effective, standard-compliant UTP 10 Gig option designed to meet ANSI/TIA 568 C.2. Perfect for component upgrades, this cable is fully backward-compatible to legacy infrastructures, and it prepares your system for future 10 Gigabit applications. GenSPEED 10,000 solves the One Gigabit limitation of Category 5e and Category 6 and is an ideal solution for bandwidth-intensive applications.

FEATURES & BENEFITS

- Aerated jacket encompasses the inner core to reduce the capacitance effect of the outer sheath and permits improved electrical performance and smaller overall size
- Innovative T-Top cross-web provides superior internal electrical characteristics by locking the pairs into a systematic orientation within the cable
- Superior flame and smoke characteristics achieved through innovative design and careful selection of materials with certified suppliers
- TRU-Mark® print legend contains footage markings from 1000' to 0'

CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

Pairing

- 4 Pair

Color Code

- Blue/White
- Orange/White
- Green/White
- Brown/White

Separator

- T-Top cross-web

Jacket

- Non-Plenum: Flame-retardant PVC
- Plenum: Low-smoke, flame-retardant PVC

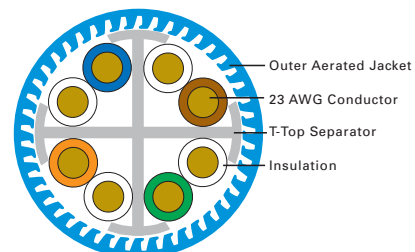
APPLICATIONS

- IEEE 802.3 10G Base-T, 100 Base-T
- 100 Base-TX, 10 Base-T, 1000 Base-TX
- 155 Mb/s ATM
- ANSI X3.263 100Mb/s
- IEEE 802.3af for PoE
- IEEE 802.3at for PoE Plus

COMPLIANCES

- ANSI/TIA 568 C.2
- RoHS

Typical GenSPEED® 10,000 Category 6a Cross-Section



GenSPEED® 10,000 Category 6a Cable

ELECTRICAL CHARACTERISTICS

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

PART NUMBERS

Standard packaging: 1000' Reel

Jacket Color	Reel	
	CMR (Riser)	CMP (Plenum)
Blue	7133819	7131819
White	7133820	7131820
Gray	7133821	7131821
Yellow	7133822	7131822
Green	7133823	7131823
Red	7133824	7131824
Purple	7133825	7131825
Orange	7133826	7131826
Pink	7133827	7131827
Black	7133828	7131828

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	.335	.325
Nominal Cable Weight (lbs/1000 ft)	42	45
Minimum Bend Radius (in)	1.5	1.5
Maximum Pulling Force (lbs)	40	40
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

ELECTRICAL PERFORMANCE

Frequency MHz	PSACR Min.	ACR Min.	Attenuation Max.	PSNEXT Min.	NEXT Min.	PSACRF Min.	ACRF Min.	Return Loss Min.	TCL Min.	PSANEXT Min.	PSAACRF Min.
1	70.2	72.2	2.1	72.3	74.3	64.8	67.8	20.0	40.0	67.0	67.0
4	59.5	61.5	3.8	63.3	65.3	52.8	55.8	23.0	40.0	67.0	66.2
8	53.5	55.5	5.3	58.8	60.8	46.7	49.7	24.5	40.0	67.0	60.1
10	51.4	53.4	5.9	57.3	59.3	44.8	47.8	25.0	40.0	67.0	58.2
16	46.7	48.7	7.5	54.2	56.2	40.7	43.7	25.0	38.0	67.0	54.1
20	44.4	46.4	8.4	52.8	54.8	38.8	41.8	25.0	37.0	67.0	52.2
25	41.9	43.9	9.4	51.3	53.3	36.8	39.8	24.3	36.0	67.0	50.2
31.25	39.4	41.4	10.5	49.9	51.9	34.9	37.9	23.6	35.1	67.0	48.3
62.50	30.4	32.4	15.0	45.4	47.4	28.9	31.9	21.5	32.0	65.6	42.3
100	23.2	25.2	19.1	42.3	44.3	24.8	27.8	20.1	30.0	62.5	38.2
200	10.2	12.2	27.6	37.8	39.8	18.8	21.8	18.0	27.0	58.0	32.2
250	5.2	7.2	31.1	36.3	38.3	16.8	19.8	17.3	26.0	56.5	30.2
300	0.8	2.8	34.3	35.1	37.1	15.3	18.3	16.8	25.2	55.3	28.7
400	—	—	40.1	33.3	35.3	12.8	15.8	15.9	24.0	53.5	26.2
500	—	—	45.3	31.8	33.8	10.8	13.8	15.2	23.0	52.0	24.2



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Form No. DAT-0119-R0310
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