

GenSPEED® 10 UTP Indoor/Outdoor Plenum Category 6A Cable

Features

- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Made in U.S.A.

Electrical Characteristics

- Outer jacket ensures electrical performance during long term water submersion
- Dry core construction for cleaner termination
- Supports up to 120 watts of power in bundles of 192 cables or less

Applications

- Intended for installation in below-grade conduit, duct, and other wet environments
- IEEE 802.3: 10G BASE-T, 1000 BASE-T
- 100 BASE-TX, 10 BASE-T, PoE, PoE+
- ANSI/TIA 854: 1000 BASE-TX
- Digital Video
- Broadband and Baseband Analog Video
- CDDI, Token Ring, ATM

Standard Compliances

- NEC/CEC Type CMP (NFPA 262) for plenum
- UL Listed SUN RES (720 hour) Rated to be installed permanently outdoor in direct sunlight
- ANSI/TIA 568.2-D
- RoHS Compliant Directive 2011/65/EU
- UL 444
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ISO/IEC 11801 Ed. 2.0 (Class EA)



CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Fluoropolymer

Color Code

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

Separator

- Cross-web

Core Wrap

- Polyester encapsulated isolation core wrap

Inner Jacket

- Low-smoke, flame-retardant PVC

Outer Jacket

- Fluoropolymer

PHYSICAL DATA

Nominal Cable Diameter (in)	0.300
Nominal Cable Weight (lbs/1000 ft)	46
Minimum Bend Radius (in)	2.5
Maximum Pulling Force (lbs)	40
Temperature Rating (°C)	
Installation:	0 to +60
Operation:	-20 to +90

PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color

 Black	7141007
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Note: Non-stock items may be subject to minimum order quantities.

DATA SHEET 7522d, 10/4/19

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ELECTRICAL PERFORMANCE

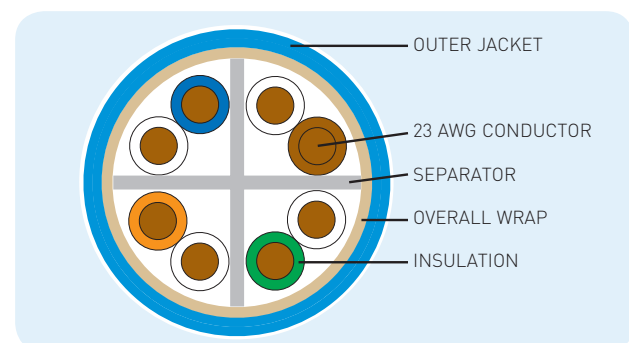
Frequency MHz	PSACR** (min)	ACR** (min)	Insertion Loss (min)	PSNEXT (min)	NEXT (min)	PSACRF (min)	ACRF (min)	Return Loss (min)	TCL (min)	PSANEXT (min)		PSAACRF (min)	
	TIA / GC Guaranteed	TIA / GC Guaranteed	TIA / GC Guaranteed	TIA / GC Guaranteed	TIA / GC Guaranteed	TIA / GC Guaranteed	TIA / GC Guaranteed	TIA / GC Guaranteed	TIA / GC Guaranteed	TIA	GC Guaranteed	TIA 568-C.2	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

TYPICAL GenSPEED® 10 CATEGORY 6A INDOOR/OUTDOOR CROSS-SECTION



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	
Nom. Velocity of Propagation % Speed of Light	70	
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms 100 ± 15	