

GenSPEED® 10,000 Category 6A U/FTP (STP) Cable

An Individually Shielded 10 Gig Option for Peace of Mind



PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color	CMR (Non-Plenum)	CMP (Plenum)	Jacket Color	CMR (Non-Plenum)	CMP (Plenum)
Blue	7133786	7131786	Orange	7133791	7131791
White	7133787	7131787	Green	7133792	7131792
Yellow	7133788	7131788	Black	7133795	7131795
Gray	7133789	7131789	Purple	7133830	7131830
Red	7133790	7131790			

Non-stock items may be subject to minimum order quantities.

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.305	0.295
Nominal Cable Weight (lbs/1000 ft)	43	47
Minimum Bend Radius (in)	2.44	2.36
Maximum Pulling Force (lbs)	32	32
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +105

ELECTRICAL PERFORMANCE

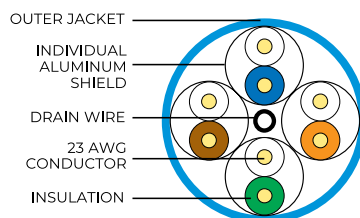
Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)	PSANEXT (min)	PSAACRF (min)
1	2.1	74.3	20.0	77.0	77.0
4	3.8	74.3	23.0	77.0	76.2
10	5.9	74.3	25.0	77.0	68.2
16	7.5	74.2	25.0	77.0	64.1
20	8.4	72.8	25.0	77.0	62.2
31.25	10.5	69.9	23.6	77.0	58.3
62.5	15.0	65.4	21.5	75.6	52.3
100	19.1	62.3	20.1	72.5	48.2
200	27.6	57.8	18.0	68.0	42.2
250	31.1	56.3	17.3	66.5	40.2
300	34.3	55.1	16.8	65.3	38.7
350	37.2	54.1	16.3	64.3	37.3
400	40.1	53.3	15.9	63.5	36.2
500	45.3	51.8	15.2	62.0	34.2
600	50.1	50.6	14.7	60.8	32.6

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20 °C.

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 (max) ns/100 m	45	20
Nom. Velocity of Propagation % Speed of Light	CMP: 78 CMR: 75	
Characteristic Impedance Frequency (f): 1-600 MHz	Ohms 100 ± 15	

CROSS-SECTION



CONSTRUCTION:

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Non-Plenum: Foamed HDPE
- Plenum: Foamed Fluoropolymer

Color Code

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

Shield

- Each pair is individually shielded with an aluminum foil

Drain Wire

- 24 AWG stranded (7/32) solid tinned copper

Jacket

- Non-Plenum: Flame-Retardant PVC
- Plenum: Low-Smoke, Flame-Retardant PVC

Features and Benefits

- Individually pair shielded design allows for maximum pair separation, increasing key electrical performance parameters and providing EMI protection
- Typical positive PSACR beyond 500 MHz for increased available bandwidth
- Improved cable temperature rating (105°C Plenum, 75°C Riser) for greater protection against increased operating temperatures
- TRU-Mark® print legend contains footage markings from 1000' to 0'

Applications

- IEEE 802.3: 10G BASE-T, 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, and PoE+, PoE++
- ANSI/TIA 854: 1000 BASE-TX
- Digital Video
- Broadband and Baseband Analog Video
- CDDI, Token Ring, ATM

Standard Compliances

- ANSI/TIA 568.2-E
- NEC/CEC Type CMR (UL1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL Listed CMP-LP (0.7A) for Plenum*
- 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)

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