

GenSPEED® 6 Category 6 F/UTP (ScTP) Cable

Standards-Compliant



Features and Benefits

- Foil shield reduces electromagnetic interference (EMI) for optimal performance
- Performance guaranteed to 250 MHz
- Improved cable temperature rating (105°C Plenum, 75°C Riser) for greater protection against increased operating temperatures and for high-wattage applications
- UL Listed CMP-LP 0.7A with certified performance for high power PoE applications
- TRU-Mark® print legend contains footage markings from 1000' to 0'

Applications

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

Standard Compliances

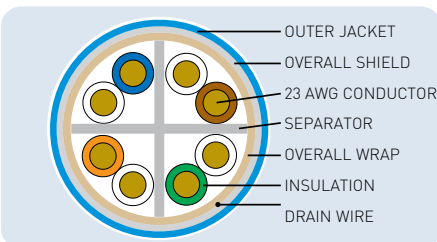
- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL Listed CMR-LP (0.5A) for Non-Plenum*
- UL Listed CMP-LP (0.7A) for Plenum**
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ICEA S-102-700
- ISO/IEC 11801 Ed. 2.0 (Class E)

*0.5A is the ampacity rating of the cable, which equates to 100 watts using 50 volts over four pairs.
 **0.7A is the ampacity rating of the cable, which equates to 140 watts using 50 volts over four pairs.

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100 m (328 ft) @ 20°C	9.38
DC Resistance Unbalance (max) Individual Pair %	4.00
Nom. Velocity of Propagation % Speed of Light	70
Characteristic Impedance Frequency (f): 1-250 MHz	Ohms 100 ± 15

CROSS-SECTION



CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: 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

Core Wrap

- Non-Plenum: Mylar
- Plenum: Mylar

Drain Wire

- 24 AWG solid tinned copper

Shield

- Polyester-backed aluminum foil (aluminum side in)

Jacket

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

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.265	0.260
Nominal Cable Weight (lbs/1000 ft)	34	39
Minimum Bend Radius (in)	2.50	2.50
Maximum Pulling Force (lbs)	40	40
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +105

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	PSNEXT (min)	Return Loss (min)
1	2.0	72.3	20.0
4	3.8	63.3	23.0
10	6.0	57.3	25.0
16	7.6	54.2	25.0
20	8.5	52.8	25.0
31.25	10.7	49.9	23.6
62.5	15.4	45.4	21.5
100	19.8	42.3	20.1
150	24.7	39.7	18.9
200	29.0	37.8	18.0
250	32.8	36.3	17.3
350	39.8	34.1	16.3
400	43.0	33.3	15.9
500	48.9	31.8	15.2

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Results beyond 250 MHz are for reference only.

PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color	Spool	
	CMR (Non-Plenum)	CMP (Plenum)
Blue	6133785	6131785
White	6133787	6131787
Yellow	6133788	6131788
Gray	6133789	6131789
Red	6133790	6131790
Orange	6133791	6131791
Green	6133792	6131792
Black	6133793	6131793
Pink	6133795	6131795
Purple	6133794	6131794

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

Data subject to change without notice.