

GenSPEED® 6 Category 6 Outside Plant Cable

Features And Benefits

- Innovative cross-web design allowing for maximum pair separation, increasing key electrical performance parameters
- Gel-filled construction to prevent moisture migration in underground and wet applications
- Wide temperature range for extreme weather environments
- TRU-Mark® print legend contains footage markings from 1000' to 0'

Applications

- Data transmission rates up to 2.4 Gb/s
- 1000 BASE-T (Gigabit Ethernet)
- 100/10 BASE-T (IEEE 802.3)
- 52/155 Mbps ATM
- Duct and conduit installations
- Not to be used aerially or direct buried

Standard Compliances

- ANSI/TIA/EIA 568 B.2-1
- TIA 568 C Draft
- ISO 11801 (Category 6)
- ICEA S-102-700 (Category 6)
- MIL-C-24640A Water Penetration Requirement
- RoHS Compliant Directive 2002/95/EC



CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Polyolefin

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

Flooding Compound

- Waterproof gel prevents moisture migration

Jacket


- UV- and Abrasion-Resistant Polyethylene (PE)

PHYSICAL DATA

Nominal Cable Diameter (in)	0.230
Nominal Cable Weight (lbs/1000ft)	25
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	32
Temperature Rating (°C)	
Installation:	-30 to +60
Operation:	-45 to +80

PART NUMBER

Standard packaging: 1000' Reel

Jacket Color	Reel
 Black	7136100

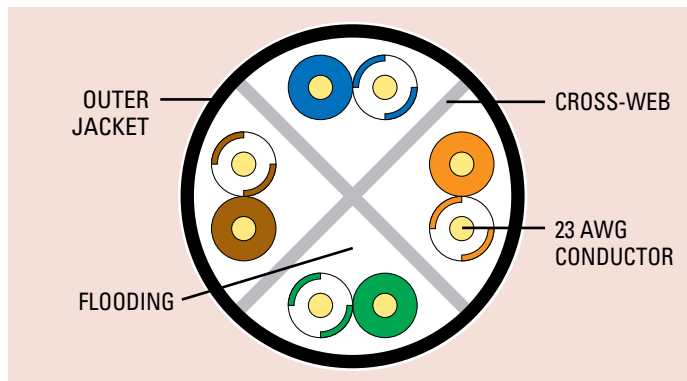
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ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)
0.772	72.2	74.2	1.8	74.0	76.0	67.0	70.0	—
1	70.3	72.3	2.0	72.3	74.3	64.8	67.8	20.0
4	59.5	61.5	3.8	63.3	65.3	52.8	55.8	23.0
10	51.3	53.3	6.0	57.3	59.3	44.8	47.8	25.0
16	47.0	49.0	7.6	54.3	56.3	40.7	43.7	25.0
20	44.3	46.3	8.5	52.8	54.8	38.8	41.8	25.0
31.25	39.2	41.2	10.7	49.9	51.9	36.8	37.9	23.6
62.5	30.0	32.0	15.4	45.4	47.4	28.9	31.9	21.5
100	22.5	24.5	19.8	42.3	44.3	24.8	27.8	20.1
200	9.0	11.0	29.0	37.8	39.8	18.8	21.8	18.0
250	3.5	5.5	32.8	36.3	38.3	16.8	19.8	17.3

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

GenSPEED® 6 CATEGORY 6 OUTSIDE PLANT CROSS-SECTION



ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	9.38
DC Resistance Unbalance (max) Individual Pair %	3.0
Delay Skew (max) ns/100m	45
Nom. Velocity of Propagation % Speed of Light	69
Characteristic Impedance Frequency (f): 1-250 MHz	Ohms 100 ± 15
Input Impedance Frequency (f): 1-100 MHz 100-250 MHz	Ohms 100 ± 15 100 ± 22