

GenSPEED® Category 6A Outside Plant Cable

Standards-Compliant

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

- IEEE 802.3: 10G BASE-T, 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
- Duct and conduit installations

Standard Compliances

- ANSI/TIA 568-C.2
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ICEA S-102-700
- ANSI/NEMA WC 66
- ISO/IEC 11801 Ed. 2.0 (Class E)
- Telcordia (Bellcore) Specification GR-421-CORE Water Penetration Requirement



CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- High Density Polyethylene

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

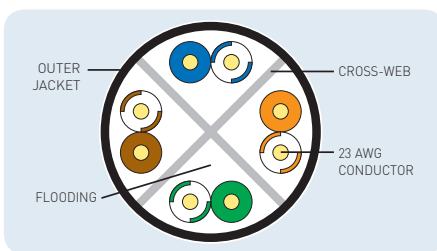
Jacket

- UV- and Abrasion-Resistant Polyethylene

PHYSICAL DATA

Nominal Cable Diameter (in)	0.365
Nominal Cable Weight (lbs/1000 ft)	47.3
Minimum Bend Radius (in)	1.5
Maximum Pulling Force (lbs)	40
Temperature Rating (°C)	
Installation:	-30 to +60
Operation:	-45 to +80

CROSS-SECTION



ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100 m (328 ft) @ 20°C	9.38
DC Resistance Unbalance (max) Individual Pair %	4.00
Delay Skew (max) ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	70
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms 100 ± 15

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (min)	NEXT (min)	Return Loss (min)	PSANEXT (min)	PSAACRF (min)
	TIA 568-C.2	TIA 568-C.2	TIA 568-C.2	TIA 568-C.2	TIA 568-C.2
1	2.1	74.3	20.0	67.0	67.0
4	3.8	65.3	23.0	67.0	66.2
10	5.9	59.3	25.0	67.0	58.2
16	7.5	56.2	25.0	67.0	54.1
20	8.4	54.8	25.0	67.0	52.2
31.25	10.5	51.9	23.6	67.0	48.3
62.5	15.0	47.4	21.5	65.6	42.3
100	19.1	44.3	20.1	62.5	38.2
150	23.7	41.7	18.9	59.9	34.7
200	27.6	39.8	18.0	58.0	32.2
250	31.1	38.3	17.3	56.5	30.2
300	34.3	37.1	16.8	55.3	28.7
400	40.1	35.3	15.9	53.5	26.2
500	45.3	33.8	15.2	52.0	24.2

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C.
*PSACR & ACR not specified in ANSI/TIA 568-C.2

PART NUMBER

Standard packaging: 1000' Reel

Jacket Color	Reel
Black	8136100