

GenSPEED® 5000 Category 5e Outside Plant Cable

Features And Benefits

- Protects against environmental elements that can cause electrical performance failures
- TRU-Mark® print legend contains footage markings from 1000' to 0'

Applications

- Aerial, duct and buried installations (the non-armored design is for duct installation only)
- 1000 BASE-T (Gigabit Ethernet)
- 52/155 Mbps ATM
- 100/10 BASE-T (IEEE 802.3)
- Voice/T1

Standard Compliances

- ANSI/TIA/EIA 568 B (Category 5e)
- ISO 11801 (Category 5e)
- ANSI/ICEA S-90-661 (Category 5e)
- MIL-C-24640A Water Penetration Requirements
- NEMA WC63.1 (Category 5e)
- RoHS Compliant Directive 2002/95/EC



CONSTRUCTION

Conductors

- 24 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

Flooding Compound

- Waterproof gel prevents moisture migration

Optional Armor

- Aluminum applied helically (inner jacket is used with this construction)
- Armor diameter 12mm

Jacket

- UV- and abrasion-resistant Polyethylene (PE)

PHYSICAL DATA

	No Armor	Aluminum Armor
Nominal Cable Diameter (in)	0.230	0.340
Nominal Cable Weight (lbs/1000ft)	25	50
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	25	25
Temperature Rating (°C)		
Installation:	-30 to +60	-30 to +60
Operation:	-45 to +80	-45 to +80

PART NUMBERS

Standard packaging: 1000' Reel

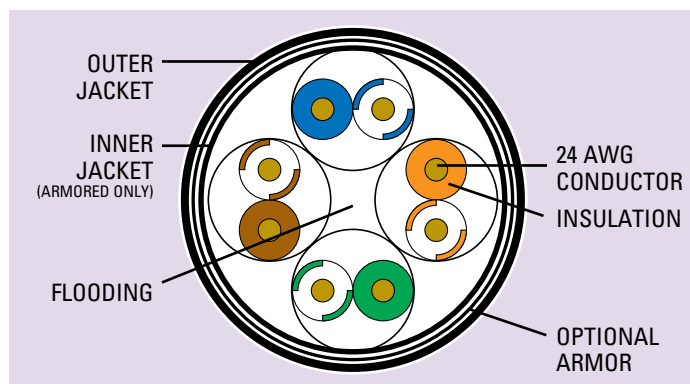
Jacket Color	Reel	Armor
Black	5136100	None
Black	5136101	Aluminum

Data subject to change without notice.

ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)
1	60.3	63.3	2.0	62.3	65.3	60.8	63.8	20.0
4	49.2	52.2	4.1	53.3	56.3	48.8	51.8	23.0
10	40.8	43.8	6.5	47.3	50.3	40.8	43.8	25.0
16	36.0	39.0	8.2	44.2	47.2	36.7	39.7	25.0
20	33.5	36.5	9.3	42.8	45.8	34.8	37.8	25.0
25	30.9	33.9	10.4	41.3	44.3	32.8	35.8	24.3
31.25	28.2	31.2	11.7	39.9	42.9	30.9	33.9	23.6
62.5	18.4	21.4	17.0	35.4	38.4	24.9	27.9	21.5
100	10.3	13.3	22.0	32.3	35.3	20.8	23.8	20.1
155	1.4	4.4	28.1	29.4	32.4	17.0	20.0	—
200	—	—	32.4	27.8	30.8	14.8	17.8	—
250	—	—	36.9	26.3	29.3	12.8	15.8	—
300	—	—	41.0	25.1	28.1	11.3	14.3	—
350	—	—	44.9	24.1	27.1	9.9	12.9	—

Note: Values are expressed in dB per 100m (328 ft.) length. Values above 100 MHz are for information only.

**GenSPEED® 5000 CATEGORY 5e OUTSIDE PLANT
CROSS-SECTION****ELECTRICAL CHARACTERISTICS**

DC Resistance (max) Ohms/100m (328ft) @ 20°C	9.38
Mutual Capacitance (nom) pF/ft @ 1 KHz	17
Delay Skew (max) ns/100m	45
Propagation Delay (max) ns @ 100 MHz	583
Nom. Velocity of Propagation (NVP) % Speed of Light	69
Characteristic Impedance Frequency (f): 1-100 MHz	Ohms 100 ± 15