

# GenSPEED® 5000 Category 5e Outside Plant Cable

## Standards-Compliant

### Features and Benefits

- Protects against environmental elements that can cause electrical performance failures
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Prevents moisture migration
- Made in U.S.A.

### Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Broadband and Baseband Analog Video
- Armored: aerial, duct and buried installations
- Non-armored design is recommended for duct installation

### Standard Compliances

- ANSI/TIA 568-C.2
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-90-661
- ISO/IEC 11801 Ed. 2.0 (Class D)
- Telcordia (Bellcore) Specification GR-421-CORE Water Penetration Requirements



### 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

#### Optional Armor

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

#### Flooding Compound

- Waterproof gel

#### Jacket

- UV- and Abrasion-Resistant Polyethylene

### PHYSICAL DATA

	No Armor	Aluminum Armor
Nominal Cable Diameter (in)	0.230	0.340
Nominal Cable Weight (lbs/1000 ft)	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	<b>5136100</b>	None
Black	<b>5136101</b>	Aluminum

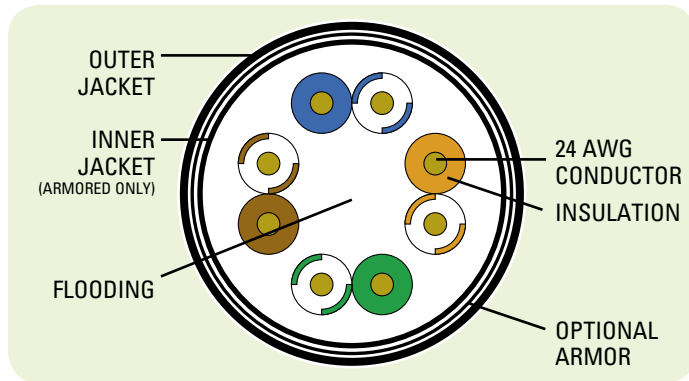
Data subject to change without notice.

**ELECTRICAL PERFORMANCE**

Frequency MHz	PSACR* (min)	ACR* (min)	Insertion Loss (max)	PSNEXT (min)	NEXT (min)	PSACRF (min)	ACRF (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 100 m (328 ft.) length @ 20°C. Values above 100 MHz are for information only.  
\*PSACR & ACR not specified in ANSI/TIA 568-C.2

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



**ELECTRICAL CHARACTERISTICS**

<b>DC Resistance (max)</b> Ohms/100 m (328 ft) @ 20°C	9.38
<b>DC Resistance Unbalance (max)</b> Individual Pair %	4.00
<b>Delay Skew (max)</b> ns/100 m	45
<b>Nom. Velocity of Propagation</b> % Speed of Light	69
<b>Characteristic Impedance</b> Frequency (f): 1-100 MHz	Ohms 100 ± 15