

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'
- Prevents moisture migration

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 C.2
- 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

Optional Armor

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

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	5136100	None
Black	5136101	Aluminum

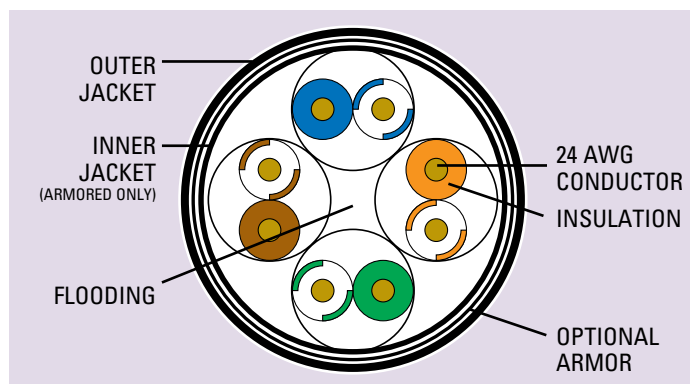
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ELECTRICAL PERFORMANCE

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. Values above 100 MHz are for information only.

GenSPEED® 5000 CATEGORY 5e OUTSIDE PLANT CROSS-SECTION



ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100 m (328 ft) @ 20°C	9.38
Mutual Capacitance (nom) pF/ft @ 1 KHz	17
Delay Skew (max) ns/100 m	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