

# Industrial Ethernet Category 5e - 4 Pair Outside Plant Armored Cable



**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

**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

**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.
- Gel-filled construction to prevent moisture migration in underground and wet applications

**Print Legend:**

XXXXXX FEET CAT 5e GENERAL CABLE (F) 4PR24AWG GENSPEED 5000 ARMORED OUTDOOR - DIR BUR UTP CAT.5e AAAAA Pat 5767441 MO/YR

CATALOG NUMBER	SPEC NUMBER	NOMINAL O.D.		CABLE WEIGHT MFT		NO. PAIRS	COND. AWG SIZE	PAIR COLOR CODE	INSULATION MATERIAL	SHIELD COVERAGE	RIPCORD	JACKET MATERIAL	JACKET THICKNESS		JACKET COLORS
		INCHES	mm	LBS	kg								INCHES	mm	
5136101	N/A	0.340	8.636	50	23	4	24	1: Blue/White, Blue 2: Orange/White, Orange 3: Green/White, Green 4: Brown/White, Brown	HDPE	Aluminum Armor	Polyester	UV Abrasion-Resistant Polyethylene	0.032	0.813	Black

Frequency (MHz)	Insertion Loss (dB/100 m) max.	Next (dB) min.	PSNext (dB) min.	ACR* (dB/100 m) min.	PSACR* (dB/100 m) min.	ACRF (dB/100 m) min.	PSACRF (dB/100 m) min.	Return Loss (dB) min.
4	4.1	56.3	53.3	52.2	49.2	51.7	48.8	23.0
10	6.5	50.3	47.3	43.8	40.8	43.8	40.8	25.0
16	8.2	47.2	44.2	39.0	36.0	39.7	36.7	25.0
20	9.3	45.8	42.8	36.5	33.5	37.7	34.8	25.0
25	10.4	44.3	41.3	33.9	30.9	35.8	32.8	24.3
31.25	11.7	42.9	39.9	31.2	28.2	33.9	30.9	23.6
62.5	17.0	38.4	35.4	21.4	18.4	27.8	24.9	21.5
100	22.0	35.3	32.3	13.3	10.3	23.8	20.8	20.1
155	28.1	32.4	29.4	4.4	1.4	20.0	17.0	—
200	32.4	30.8	27.8	—	—	17.8	14.8	—
250	36.9	29.3	26.3	—	—	15.8	12.8	—
300	41.0	28.1	25.1	—	—	14.3	11.3	—
350	44.9	27.1	24.1	—	—	12.9	9.9	—

Values above 100 MHz are for informational purposes.  
\*PSACR & ACR not specified in ANSI/TIA 568-C.2.

**ELECTRICAL CHARACTERISTICS**

Maximum DC Resistance	9.38 Ohms/100 m @ 20° C
Maximum DC Resistance Unbalance, Ind Pair	4%
Maximum Mutual Capacitance	17 pF/ft @ 1 KHz
Maximum Delay Skew	45 ns/100 m
Nominal Velocity of Propagation	69% Speed of Light
Characteristic Impedance (Frequency 1-100 MHz)	Ohms: 100±15

**MECHANICAL CHARACTERISTICS**

Maximum Pulling Force	25 lbs.
Minimum Bend Radius	1.00"
Installation Temperature Rating	-30°C to +60°C
Operation Temperature Rating	-45°C to +80°C

