

Industrial Ethernet Category 6 - 4 Pair Outside Plant Cable



Applications

- IEEE 802.3: 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
- Not to be used aerially or direct buried

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
- ISO/IEC 11801 Ed. 2.0 (Class E)
- Telcordia (Bellcore) Specification GR-421-CORE Water Penetration Requirement

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'
- Made in U.S.A.

Print Legend:

XXXXXX FEET CAT 6 GENERAL CABLE (F) 4PR23AWG GENSPEED
6000 OUTDOOR - DIR BUR UTP CAT.6 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	
7136100	N/A	0.250	6.350	32	14.5	4	23	1: Blue/White, Blue 2: Orange/White, Orange 3: Green/White, Green 4: Brown/White, Brown	HDPE	Unshielded	Polyester	UV and Abrasion Resistant Zero-Halogen Polyethylene	0.032	0.813	Black

Frequency (MHz)	Insertion Loss (dB/100 m)	Next (dB)	PSNext (dB)	ACR* (dB/100 m)	PSACR* (dB/100 m)	ACRF (dB/100 m)	PSACRF (dB/100 m)	Return Loss (dB)
	max.	min.	min.	min.	min.	min.	min.	min.
1	2.0	74.3	72.3	72.3	70.3	67.8	64.8	20.0
4	3.8	65.3	63.3	61.5	59.3	55.8	52.8	23.0
10	6.0	59.3	57.3	53.3	51.3	47.8	44.8	25.0
16	7.6	56.2	54.2	48.7	46.7	43.7	40.7	25.0
20	8.5	54.8	52.8	46.3	44.3	41.8	38.8	25.0
31.25	10.7	51.9	49.9	41.2	39.2	37.9	34.9	23.6
62.5	15.4	47.4	45.4	32.0	29.9	31.9	28.9	21.5
100	19.8	44.3	42.3	24.5	22.5	27.8	24.8	20.1
200	29.0	39.8	37.8	10.8	8.8	24.3	18.8	18.0
250	32.8	38.3	36.3	5.5	3.5	21.8	16.8	17.3

*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 1-250 MHz)	Ohms: 100±15

MECHANICAL CHARACTERISTICS

Nominal Cable Diameter	0.250"
Nominal Cable Weight	32 lbs.
Maximum Pulling Force	32 lbs.
Minimum Bend Radius	1.00"
Installation Temperature Rating	-30°C to +60°C
Operation Temperature Rating	-45°C to +80°C