

# Industrial Ethernet Category 5e - 4 Pair Unshielded Twisted Pair Cable



**Applications:**

- IEEE 802.3: 100 BASE-TX, 10 BASE-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Broadband and Baseband Analog Video
- Voice, T1
- Harsh Industrial Environments
- ODVA EtherNet/IP™

**Compliances:**

- UL Verified to ANSI/TIA 568-C.2 Category 5e
- NEC/CEC Type: UL Listed CMX OUTDOOR - CMR
- NEC/CEC Type CMR (UL 1666)
- UL AWM Style 2570 (UL: 80°C, 600 V)
- SUN RES per UL 444
- RoHS II Compliant (EU DIRECTIVE 2011/65/EU)
- UL OIL RES I and II per UL 13

**Features and Benefits:**

- Third-party verified for guaranteed performance
- TRU-Mark® print legend
- Industrial-grade oil- and sunlight-resistant jacket

**Print Legend:**

\*\*\*\* FEET GENERAL CABLE \* GCR1404 INDUSTRIAL CATEGORY 5E 4PR/23AWG RISER CABLE C(UL)US CMX OUTDOOR - CMR 75C VERIFIED (UL) ANSI/TIA-568C.2 CAT-5E --- AWM 2570 80C 600V --- SUN RES OIL RES I and II FT4 ETHERNET/IP (TM) VEN 1293 \*\*\* \*\*AAAAA CAT 5E

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	
GCR1404	7500	0.255	6.477	24	11	4	23	1: Blue/White, Blue 2: Orange/White, Orange 3: Green/White, Green 4: Brown/White, Brown	HDPE	Unshielded	Polyester	Oil- and Sunlight-Resistant PVC	0.032	0.813	Red, 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.
1	2.0	65.3	62.3	63.3	60.3	63.8	60.8	20.0
4	4.1	56.3	53.3	52.2	49.2	51.7	48.7	23.6
10	6.5	50.3	47.3	43.8	40.8	43.8	40.8	26.0
16	8.2	47.3	44.3	39.0	36.1	39.7	36.7	26.0
20	9.3	45.8	42.8	36.5	33.5	37.7	34.7	26.0
25	10.4	44.3	41.3	33.9	30.9	35.8	32.8	25.5
31.25	11.7	42.9	39.9	31.2	28.2	33.9	30.9	25.0
62.5	17.0	38.4	35.4	21.4	18.4	27.8	24.8	23.5
100	22.0	35.3	32.3	13.3	10.3	23.8	20.8	22.5
155	28.1	32.4	29.4	4.4	1.4	20.0	17.0	18.8
200	32.4	30.8	27.8	—	—	17.8	14.8	18.0
250	36.9	29.3	26.3	—	—	15.8	12.8	17.3
300	41.0	28.1	25.1	—	—	14.3	11.3	16.6
350	44.9	27.1	24.1	—	—	12.9	9.9	16.3

Values over 200 Mhz are for informational purposes.

**ELECTRICAL CHARACTERISTICS**

Maximum DC Resistance	8.9 Ohms/100 m @ 20° C
Maximum DC Resistance Unbalance, Ind Pair	3%
Maximum Mutual Capacitance	17 pF/ft @ 1 KHz
Maximum Delay Skew	45 ns/100 m
Nominal Velocity of Propagation	70% Speed of Light
Characteristic Impedance (Frequency 1-200 MHz)	Ohms: 100±15

**MECHANICAL CHARACTERISTICS**

Maximum Pulling Force	25 lbs.
Minimum Bend Radius	1.00"
Installation Temperature Rating	-20° C to +75° C
Operation Temperature Rating	-40° C to +75° C

