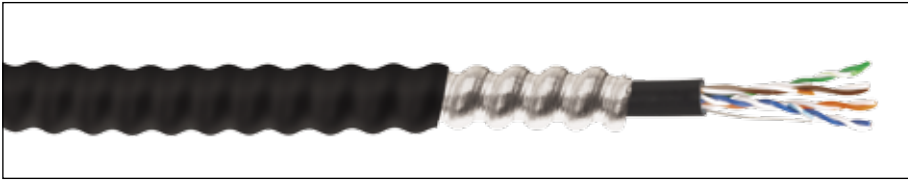


# Industrial Ethernet Category 5e Interlocking Armored Cable



**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 21047 (UL: 75°C, 600 V)
- UV RES per UL 444
- RoHS II Compliant (EU DIRECTIVE 2011/65/EU)

**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.

**Print Legend:**

\*\*\* GENERAL CABLE F GCR1410 INDUSTRIAL ARMORED CAT 5E 4PR/24AWG RISER C(UL) US CMX OUTDOOR - CMR 75C UV RES VERIFIED (UL) ANSI/TIA-568C.2 CAT 5E AWM 21074 75C 600 V---FT4 OIL RES ODVA ETHERNET/IP™ VEN 1293 PAT 5767441 ##### 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	
GCR1410	7508	0.270	6.858	34	15	4	24	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)	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.	
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	48.8	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	34.7	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	24.8	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	3%
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**

Nominal Cable Diameter	0.340"
Nominal Cable Weight	50 lbs.
Maximum Pulling Force	25 lbs.
Minimum Bend Radius	1.00"
Installation Temperature Rating	-30°C to +60°C
Operation Temperature Rating	-40°C to +80°C

