

Industrial Ethernet Category 6 - 4 Pair Enhanced Unshielded Twisted Pair 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
- Voice, T1
- Harsh Industrial Environments

Compliances:

- UL Verified to ANSI/TIA 568-C.2 Category 6
- 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:

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

Print Legend:

**** GENERAL CABLE * GCR1450 INDUSTRIAL CAT 6 4PR/23AWG RISER C(UL)US CMX OUTDOOR - CMR 75C VERIFIED (UL) ANSI/TIA-568C.2 CAT-6 AWM 21047 75C 600 V---FT4 OIL RES UV RES PAT 5767441 ##-## ##### CAT 6

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	
GCR1450	7504	0.270	6.858	38	17	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)	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	79.3	77.3	77.3	75.3	72.8	69.8	20.0
4	3.8	70.2	68.3	66.5	64.5	60.7	57.7	23.6
10	5.9	64.3	62.3	58.4	56.4	52.8	49.8	26.0
16	7.5	61.3	59.3	53.8	51.7	48.7	45.7	26.0
20	8.4	59.8	57.6	51.4	49.4	46.7	43.7	26.0
31.25	10.6	56.9	54.9	46.3	44.3	42.9	39.9	26.0
62.5	15.3	52.4	50.4	37.1	35.1	36.8	33.8	25.5
100	19.7	49.3	47.3	29.6	27.6	32.8	29.8	22.5
150	24.7	46.7	44.7	22.0	20.0	29.3	26.3	21.6
200	29.0	44.8	42.8	15.8	13.8	26.8	23.8	21.0
250	32.6	43.3	41.3	10.7	8.7	24.8	21.6	20.5
350	39.5	41.2	39.2	1.7	-	21.9	18.9	19.8
500	48.6	38.8	36.6	-	-	18.8	15.8	19.0

Values over 350 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 1-350 MHz)	Ohms: 100±15

MECHANICAL CHARACTERISTICS

Maximum Pulling Force	41 lbs.
Minimum Bend Radius	1.00"
Installation Temperature Rating	-20°C to +75°C
Operation Temperature Rating	-40°C to +75°C

