

Industrial Ethernet Category 6 - 4 Pair F/UTP Shielded 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
- Noisy (EMI) 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:

- Foil shield reduces electromagnetic interference (EMI) for optimal performance
- Third-party verified for guaranteed performance
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Industrial-grade oil- and sunlight-resistant jacket

Print Legend:

4 PAIR 23 AWG SCREENED TWISTED PAIR (SCTP) CABLE, FOR HIGH SPEED DATA TRANSMISSION AND IS TESTED TO 500 MHZ. THIS CABLE IS CMX OUTDOOR - CMR RATED AND UL VERIFIED TO CATEGORY 6 ELECTRICALS.

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	
GCR1452	7505	0.385	8.509	46	21	4	23	1: Blue/White, Blue 2: Orange/White, Orange 3: Green/White, Green 4: Brown/White, Brown	HDPE	100% Foil	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	2.1	74.3	72.0	72.2	70.2	67.8	64.8	20.0
4	3.8	65.3	63.3	61.5	59.5	55.8	52.8	23.6
10	5.9	59.3	57.3	53.4	51.4	47.8	44.8	26.0
16	7.5	56.2	54.2	48.8	46.8	43.7	40.7	26.0
20	8.4	54.8	52.8	46.4	44.4	41.8	38.8	26.0
31.25	10.5	51.9	49.9	41.4	39.4	37.9	34.9	25.5
62.5	15.0	47.4	45.4	32.4	30.4	31.9	28.9	23.5
100	19.1	44.3	42.3	25.2	23.2	27.8	24.8	22.5
150	23.7	41.7	39.7	18.0	16.0	24.3	21.3	18.9
200	27.6	39.8	37.8	12.2	10.2	21.8	18.8	18.0
250	31.1	38.3	36.3	7.2	5.2	19.8	19.8	17.3
300	34.3	37.1	35.1	2.9	0.9	18.3	18.3	16.8
400	40.1	35.3	33.3	-	-	15.8	15.8	15.9
500	45.3	33.8	31.8	-	-	13.8	13.8	15.2

Values over 350 Mhz are for informational purposes.

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	35 ns/100 m
Nominal Velocity of Propagation	70% Speed of Light
Characteristic Impedence (Frequency 1-350 MHz)	Ohms: 100±15

MECHANICAL CHARACTERISTICS

Maximum Pulling Force	40 lbs.
Minimum Bend Radius	2.50"
Installation Temperature Rating	-20°C to +75°C
Operation Temperature Rating	-40°C to +75°C

