

Industrial Ethernet Category 5e - 4 Pair SF/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
- 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)
- SUN RES per UL 444
- UL OIL RES I and II
- 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
- Industrial-grade oil- and sunlight-resistant jacket
- Additional braid shield for added low frequency EMI protection

Print Legend:

**** GENERAL CABLE * GCR1407 INDUSTRIAL SF/UTP CAT 5E 4PR/24AWG RISER C(UL)US CMX OUTDOOR - CMR 75C SUN RES VERIFIED (UL) ANSI/TIA-568C.2 CAT-5E AWM 21047 75C 600 V--- FT4 OIL RES II ODVA ETHERNET/IP (TM) VEN 1293 PAT 5767441 ##-## ##### CAT 5E*AAAAA:

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	
GCR1407	7502	0.305	7.239	47	21	4	24	1: Blue/White, Blue 2: Orange/White, Orange 3: Green/White, Green 4: Brown/White, Brown	HDPE	100%/80% SF/UTP	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	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	16.8								
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	40 lbs.
Minimum Bend Radius	1.00"
Installation Temperature Rating	-20°C to +75°C
Operation Temperature Rating	-40°C to +75°C

