

Industrial Ethernet Category 5e – 4 Pair PLTC 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
- ODVA EtherNet/IP™

Compliances:

- UL Verified to ANSI/TIA 568.2-D Category 5e
- NEC/CEC Type: UL Listed CMX OUTDOOR - CMR
- NEC/CEC Type CMR (UL 1666)
- NEC/CEC Type PLTC (UL 13)
- UL AWM Style 2570 (UL: 80°C, 600 V)
- SUN RES per UL 444 and UL 13
- UL OIL RES I and II per UL 13
- RoHS II Compliant (EU DIRECTIVE 2011/65/EU)

Features & Benefits:

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

Print Legend:

**** FEET PRYSMIAN * GCR1408 INDUSTRIAL CAT 5e
 RISER 4PR 22AWG CMX OUTDOOR - CMR C(UL)US
 75C VERIFIED (UL) ANSI/TIA-568.2-E CAT 5e---AWM
 2570 80C 600V---(UL) PLTC SUN RES OIL RES I
 --- FT4 ODVA ETHERNET/IP (TM) VEN 1293 ##-##
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Construction:

Insulation

- HDPE

Shield Coverage

- Unshielded

Color Code

- Pair 1: Blue-White/Blue
- Pair 2: Orange-White/Orange
- Pair 3: Green-White/Green
- Pair 4: Brown-White/Brown

Rip Cord

- Polyester

Jacket

- Oil- and Sunlight- Resistant PVC

Jacket Colors

- Red, Black



Catalog Number	Spec Number	Nominal O.D.		Cable Weight Mft		No. Pairs	Cond. AWG Size	Jacket Thickness	
		Inches	mm	Lbs	kg			Inches	mm
GCR1408	7503	0.295	7.490	38	14	4	22	0.042	1.070

ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (dB/100 m) (min)	ACRF (dB/100 m) (min)	Insertion Loss (dB/100 m) (max)	PSNEXT (dB) (min)	NEXT (dB) (min)	PSACRF (dB/100 m) (min)	ACR (dB/100 m) (min)	Return Loss (dB) (min)
1	60.3	63.8	2.0	62.3	65.3	60.8	63.3	20.0
4	48.2	51.7	4.1	53.3	56.3	48.7	52.2	23.6
10	40.8	43.8	6.5	47.3	50.3	40.8	43.8	26.0
16	36.1	39.7	8.2	44.3	47.3	36.7	39.0	26.0
20	33.5	37.7	9.3	42.8	45.8	34.7	36.5	26.0
25	30.9	35.8	10.4	41.3	44.3	32.8	33.9	25.5
31.25	28.2	33.9	11.7	39.9	42.9	30.9	31.2	25.0
62.5	18.4	27.8	17.0	35.4	38.4	24.8	21.4	23.5
100	10.3	23.8	22.0	32.3	35.3	20.8	13.3	22.5
155	1.4	20.0	28.1	29.4	32.4	17.0	4.4	18.8
200	—	17.8	32.4	27.8	30.8	14.8	—	18.0
250	—	15.8	36.9	26.3	29.3	12.8	—	17.3
330	—	14.3	41.0	25.1	28.1	11.3	—	16.6
350	—	12.9	44.9	24.1	27.1	9.9	—	16.3

Values over 200 Mhz are for informational purposes.

ELECTRICAL CHARACTERISTICS

Maximum DC Resistance	5.6 Ohms/100 m (328 ft) @ 20 °C
DC Resistance Unbalanced Individual Pair	3%
Maximum Mutual Capacitance	17 pF/ft @ 1 KHz
Maximum Delay Skew	45 ns/100 m
Nom. Velocity of Propagation	70% Speed of Light
Characteristic Impedance Frequency (f): 1-200 MHz	Ohms: 100 ± 15

MECHANICAL CHARACTERISTICS

Maximum Pulling Force	40 lbs.
Minimum Bend Radius	1.2"
Installation Temperature Rating	-20°C to +75°C
Operation Temperature Rating	-25°C to +75°C

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