

Industrial Ethernet Category 5e – 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
- 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)
- SUN RES per UL 444
- UL OIL RES I and II
- RoHS II Compliant (EU DIRECTIVE 2011/65/EU)
- MSHA Signaling Cable P-07-KA140025-MSHA

Features & 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

Construction:

Insulation

- HDPE

Shield Coverage

- 100% F/UTP

Color Code

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

Rip Cord

- Non-Applicable

Jacket

- Oil- and Sunlight- Resistant PVC

Jacket Colors

- Red, Black

Print Legend:

**** FEET PRYSMIAN * GCRI419 INDUSTRIAL F/UTP
CAT 5e RISER 4PR 24AWG CMX OUTDOOR CMR
C(UL)US 75C SUN RES VERIFIED (UL) ANSI/TIA-
568.2-E CAT 5e ---FT4 OIL RES II 07-KA140022-
MSHA ODVA ETHERNET/IP (TM) VEN 1293 ##-##
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Catalog Number	Spec Number	Nominal O.D.		Cable Weight Mft		No. Pairs	Cond. AWG Size	Jacket Thickness	
		Inches	mm	Lbs	kg			Inches	mm
GCRI419	7508	0.270	6.858	34	15	4	24	0.032	0.813

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 100 MHz are for informational purposes.

ELECTRICAL CHARACTERISTICS

Maximum DC Resistance	8.9 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	25 lbs.
Minimum Bend Radius	1.0"
Installation Temperature Rating	-20°C to +75°C
Operation Temperature Rating	-40°C to +75°C