

# 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 568.2-D 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)
- SUN RES per UL 444
- UL OIL RES I and II
- RoHS II Compliant (EU DIRECTIVE 2011/65/EU)

### Features & 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

### Construction:

#### Insulation

- HDPE

#### Color Code

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

#### Shield Coverage

- 100% Foil

#### Rip Cord

- Non-Applicable

#### Jacket

- Oil- and Sunlight- Resistant PVC

#### Jacket Colors

- Red, Black, Teal

### Print Legend:

\*\*\*\* FEET PRYSMIAN \* GCR 1452 INDUSTRIAL F/UTP CAT 6 RISER 4PR 23AWG CMX OUTDOOR - CMR C(UL)US 75C VERIFIED (UL) ANSI/TIA-568.2-E CAT 6 AWM 21047 75C 600V --- FT4 OIL RES II UV RES ###-### #####



Catalog Number	Spec Number	Nominal O.D.		Cable Weight Mft		No. Pairs	Cond. AWG Size	Jacket Thickness	
		Inches	mm	Lbs	kg			Inches	mm
GCR1452	7505	0.305	7.747	46	21	4	23	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	70.2	67.8	2.1	72.0	74.3	64.8	72.2	20.0
4	59.5	55.8	3.8	63.3	65.3	52.8	61.5	23.6
10	51.4	47.8	5.9	57.3	59.3	44.8	53.4	26.0
16	46.8	43.7	7.5	54.2	56.2	40.7	48.8	26.0
20	44.4	41.8	8.4	52.8	54.8	38.8	46.4	26.0
31.25	39.4	37.9	10.5	49.9	51.9	34.9	41.4	25.5
62.5	30.4	31.9	15.0	45.4	47.4	28.9	32.4	23.5
100	23.2	27.8	19.1	42.3	44.3	24.8	25.2	22.5
150	16.0	24.3	23.7	39.7	41.7	21.3	18.0	18.9
200	10.2	21.8	27.6	37.8	39.8	18.8	12.2	18.0
250	5.2	19.8	31.1	36.3	38.3	19.8	7.2	17.3
300	0.9	18.3	34.3	35.1	37.1	18.3	2.9	16.8
400	—	15.8	40.1	33.3	35.3	15.8	—	18.9
500	—	13.8	45.3	31.8	33.8	13.8	—	15.2

Values over 350 Mhz are for informational purposes.

### ELECTRICAL CHARACTERISTICS

Maximum DC Resistance	9.38 Ohms/100 m (328 ft) @ 20 °C
DC Resistance Unbalanced Individual Pair	4%
Maximum Mutual Capacitance	17 pF/ft @ 1 KHz
Maximum Delay Skew	35 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	2.50"
Installation Temperature Rating	-20°C to +75°C
Operation Temperature Rating	-40°C to +75°C