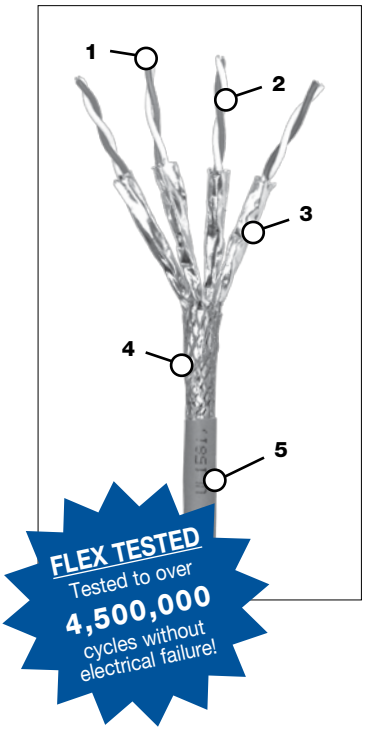
Trex-Onics® Industrial Ethernet CAT7A Cable

- ANSI TIA/EIA 568-B
- ISO/IEC 11801
- IEC 60332-1
- IEC 61156-6
- Operating Temperature Range -40°C to 70°C
- RoHS Compliant 2002/95/EC
- Frequency Range up to 1000 MHz
- Halogen-Free Flame Retardent
- Abrasion Resistant
- 600 V

The Trex-Onics® Industrial Ethernet CAT7A cable's classic design starts with finely stranded conductors that provide high flexibility and a longer flex-life. The Ultra-Shield® configuration and shield construction placed around each pair reduces radiated and conducted electrical noise interference. Our jacket is a halogen-free, flame retardant material that provides protection from environmental abuse and offers resistance to cutting, abrasion, oil and chemicals.



FEATURES & BENEFITS

1. STRANDED BARE COPPER CONDUCTORS — Improve flexibility and offer longer flex life.

2. POLYOLEFIN (PO) INSULATION SYSTEM — Provides excellent dielectric and insulation properties.

3. ULTRA-SHIELD® CONFIGURATION AND ALUMINUM/POLYESTER FOIL SHIELD CONSTRUCTION — Placed around each pair reduces radiated and conducted electrical noise interference.

4. BRAIDED SHIELD

5. HALOGEN-FREE AND FLAME RETARDANT POLYURETHANE JACKET — Provides protection from environmental abuse and offers resistance to UV light, cutting, abrasion, oil and chemicals.

6. COMBINATION OF CELLULAR INSULATION AND SHIELDED PAIRS — Provides superior electrical performance to meet CAT7A and Ethernet/IP requirements.

7. BACKWARD COMPATIBILITY — Fully inter-changeable with CAT5E, CAT6 and CAT6A and cables.

SPECIFICATIONS

- Frequency Range: **1,000 MHz**
- Input Impedance: **100 Ω ± 15 Ω**
- DC Resistance: **44.2 Ω/1000 ft**
- DCR Unbalanced: **2% Max**
- Capacitance Unbalanced: **0.36pF/ft Max**
- Dielectric Strength: **500 V / Minute**
- Dielectric Strength to Shield: **500 V / Minute**
- Delay (Skew): **20 nsec/100 m Max**
- Velocity of Propagation: **78% Nominal**
- Temperature Range: **- 40°C to +70°C**
- Tensile Strength (Short Term): **33.7 Lbs Max**
- Min. Insulation Resistance: **5 G Ω • Km**
- Min. Bend Radius: **1.4 Inches**

COLOR CODE	
PAIR NO.	**COLOR**
1	Blue - White
2	Orange - White
3	Green - White
4	Brown - White

APPLICATIONS

- Data Processing & Information Systems
- High Bandwidth Digital Applications
- High Data Rate Applications

ELECTRICAL SPECIFICATIONS

FREQ (MHz)	**ATTENUATION** (dB/100m)	**PS NEXT LOSS** (dB)	**NEXT LOSS** (dB)	**PS ANEXT** (dB)	**PS ACR-F** (dB)	**RL** (dB)
1	3.0	75.0	78.0	67.0	75.0	20.0
4	5.6	75.0	78.0	67.0	75.0	23.0
10	8.7	75.0	78.0	67.0	75.0	25.0
20	12.3	75.0	78.0	67.0	65.0	25.0
30	15.0	75.0	78.0	67.0	61.5	23.8
100	27.8	75.0	78.0	67.0	51.0	21.1
200	39.7	71.0	74.0	67.0	45.0	18.0
300	49.0	68.2	71.2	67.0	41.5	15.6
600	70.6	63.7	66.7	64.0	35.5	15.6
700	76.7	62.7	65.4	63.0	34.0	15.6
900	87.7	61.1	64.1	61.0	32.0	15.6
1000	92.9	60.4	63.4	60.0	31.0	15.6

ORDERING INFORMATION *(Call for pricing & availability)*

PART NO.	**CONDUCTOR SIZE**	**NOM. INSUL. WALL** (IN)	**OVERALL SHIELD**	**JACKET WALL** (IN)	**NOMINAL O.D.** (IN)	**WT.** (LBS) **PER 1000'**
60067	26 AWG (7 x 0.0063")	0.010	YES	0.039	0.260	27