

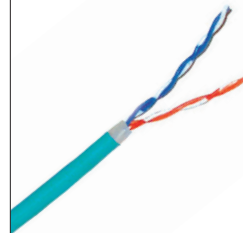
TPC Wire & Cable Corp. Industrial Ethernet Cables

Chem-Gard® 200°C CAT6 Industrial Ethernet Cable



This rugged Industrial Ethernet CAT6 cable is built for performance in the harshest of environments. Chem-Gard's unique physical properties offer resistance to UV light, cutting, abrasion, oil, chemicals and extreme temperatures. TPC Wire & Cable's Chem-Gard™ CAT6 cable provides superior performance to meet or exceed CAT6 and Ethernet/IP requirements.

Trex-Onics® Industrial Ethernet CAT5E / 2-Pair Cable



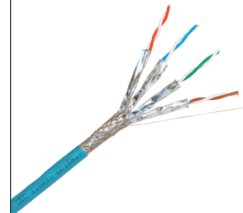
This UL approved Industrial Ethernet CAT5E / 2-pair cable is suitable for use in Ethernet systems where a more robust cable is required and is designed specifically for industrial applications where flexing and repetitive motion exists. M12 D-Coded Micro connectors are available as a field installable or let TPC wire and mold an assembly for you.

Trex-Onics® Industrial Ethernet Patch/Work Area CAT6A Cable



This Industrial Ethernet CAT6A cable is built for performance. The halogen-free and flame retardant jacket provides protection from environmental abuse and offers resistance to UV light, cutting, abrasion, oil and chemicals. Our combination of cellular insulation and shielded pairs provides superior performance to meet or exceed CAT6A and Ethernet/IP requirements.

Trex-Onics® Industrial Ethernet Patch/Work Area CAT7A Cable



The Ultra-Shield construction is a double-shield design using a heavy-duty tinned copper braid shield, an aluminum/polyester foil shield and a drain wire to create 100% shielding protection from electro-magnetic and radio frequency interference. The finely stranded braid shield also provides superior mechanical strength to the cable.



| PRODUCT | Trex-Onics® Industrial Ethernet CAT5E / 2-Pair Cable | Chem-Gard® 200°C CAT6 Industrial Ethernet Cable | Trex-Onics® Industrial Ethernet Patch/Work Area CAT6A Cable | Trex-Onics® Industrial Ethernet Patch/Work Area CAT7A Cable |
|-----------------------|--|---|---|--|
| RATINGS | <ul style="list-style-type: none"> UL Recognized TIA/EIA 568-C-2* AWM 20233 RoHS Compliant 300 V 80°C | <ul style="list-style-type: none"> TIA/EIA 568-B-2 CAT6 300 V Operating Temperature Range -60°C to 200°C Finely Stranded Silver-Plated Copper Color Coded to 586 B | <ul style="list-style-type: none"> IEC 60332-1 IEC 61156 ISO/IEC 11801 RoHS Compliant 300 V Halogen-Free Frequency Range up to 500 MHz | <ul style="list-style-type: none"> 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 |
| VOLTAGE | 300 | 300 | 300 | 600 |
| JACKET | Polyurethane | Tefzel | Polyurethane | Polyurethane |
| INSULATION | Polypropalene | FEP | Polyolefin | Polyolefin |
| ENVIRONMENTS** | A C F | A C E F I T | A C F | A C F |
| APPLICATIONS | <ul style="list-style-type: none"> PLC and DCS Automation Networks Device and Field Level Networking Industrial Ethernet Networks | <ul style="list-style-type: none"> Data Processing & Info Systems High Bandwidth Digital Applications High Data Rate Applications | <ul style="list-style-type: none"> Data Processing & Information Systems High Bandwidth Digital Applications High Data Rate Applications | <ul style="list-style-type: none"> Data Processing & Info Systems High Bandwidth Digital Applications High Data Rate Applications |

*Telecommunications Industry Association / Electronic Industries Alliance

Environments: **A = Abrasion | **C** = Chemicals | **E** = Extreme Temperatures | **F** = Flexing | **I** = Impact | **T** = Tension

| CHARACTERISTIC | CAT 6 | CAT 5E-2 PR | CAT 6A | CAT 7A |
|------------------------------|--------------------------|-----------------|------------------------------|---------------------------------------|
| Frequency Bandwidth | 250 MHz | 100 MHz | 500 MHz | 1,000 MHz |
| Digital Bandwidth | 10,000 MB/s | 100 MB/s | 10,000 MB/s | 20,000 MB/s |
| Attenuation (Min. @ 250 MHz) | 36 db | 40 db | 35 db | 33 db |
| Characteristic Impedance | 100 Ohms | 100 Ohms | 100 Ohms | 100 Ohms |
| Compatibility | CAT 6 CAT 5E CAT 5 | CAT 5E CAT 5 | CAT 6A/CAT 6 CAT 5E/CAT 5 | CAT 7/CAT 6A CAT 6/CAT 5E CAT 5 |
| Standards Committee | TIA/EIA | TIA/EIA | ISO/IEC | ISO/IEC |

Frequency Bandwidth — Measured in MegaHertz (MHz), is a measure of how big the opening is to get data through. A larger value equates to a faster data rate.

Digital Bandwidth — Measured in Megabits (MB/s), is a measure of the speed that the data moves. A larger value indicates a faster data rate.

Attenuation — Measured in decibels (db), is a measure of the relative differences in signal strength. A smaller value indicates less signal loss.

Characteristic Impedance — Measured in Ohms, is the input impedance (AC resistance) of the circuit. When impedances are matched, it provides the best data transfer.

Standards — TIA/EIA is the American standards organization for data communications. ISO/IEC is the international standards organization for data communications.

