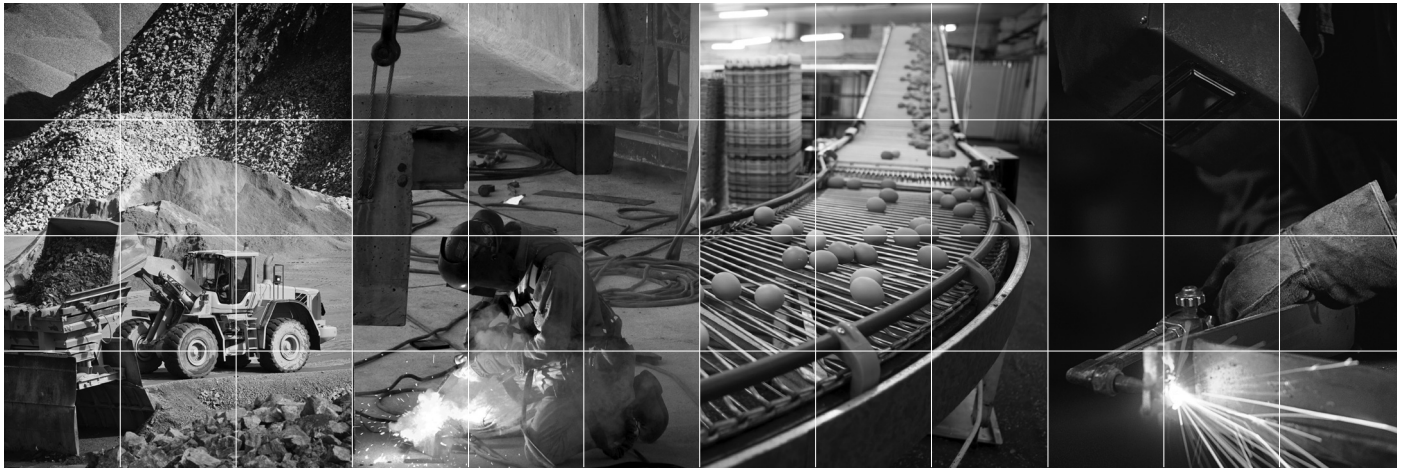


# SUPER-TREX®

FAMILY OF ELECTRICAL CORD & CABLE



## SUPER-TREX® CHEMICAL RESISTANCE (CHART 1)

The chart below shows typical fluid resistance properties of the Super-Trex® jacket and live-flex inner conductor insulation material used in the Super-Trex® Type SOOW Ultra-Gard and Type SOOW Triple-Gard Portable Cord.

| CHEMICAL                    | SUPER-TREX® JACKET RATING | Live-Flex INSULATION RATING |
|-----------------------------|---------------------------|-----------------------------|
| Acetylene                   | A                         | B                           |
| Aluminum Chloride Solutions | A                         | A                           |
| Aluminum Sulfate Solutions  | A                         | A (250° F)                  |
| Ammonium Chloride Solutions | A                         | A                           |
| Ammonium Sulfate Solutions  | A                         | A (200° F)                  |
| Amyl Alcohol                | A                         | A (200° F)                  |
| Aniline                     | A                         | B                           |
| ASTM Oil #1                 | A                         | A                           |
| ASTM Oil #3                 | A                         | B (158° F)                  |
| ASTM Reference Fuel A       | A                         | A                           |
| Asphalt                     | B                         | B                           |
| Barium Hydroxide Solutions  | A                         | A (200° F)                  |
| Borax Solutions             | B                         | A (200° F)                  |
| Boric Acid Solutions        | A                         | A (200° F)                  |
| Butane                      | A                         | A                           |
| Calcium Bisulfite Solutions | A                         | A (200° F)                  |
| Calcium Chloride Solutions  | A                         | A                           |
| Calcium Hydroxide Solutions | A                         | A (200° F)                  |
| Carbon Dioxide              | A                         | A (200° F)                  |
| Castor Oil                  | A                         | A (158° F)                  |
| Citric Acid Solutions       | B                         | A                           |
| Cottonseed Oil              | A                         | A                           |
| Ethyl Alcohol               | A                         | A (200° F)                  |
| Ethylene Glycol             | A                         | A (200° F)                  |
| Ferric Chloride Solutions   | A                         | A (200° F)                  |
| Floursilicic Acid           | B                         | A (250° F)                  |
| Formic Acid                 | B                         | A                           |
| FREON-12                    | A                         | A (200° F)                  |
| FREON-22                    | A                         | A (200° F)                  |
| Gasoline                    | A                         | B                           |
| Glue                        | A                         | A (200° F)                  |
| Glycerin                    | A                         | A (200° F)                  |

| CHEMICAL                      | SUPER-TREX® JACKET RATING | Live-Flex INSULATION RATING |
|-------------------------------|---------------------------|-----------------------------|
| n-Hexane                      | A                         | A                           |
| Hydrocyanic Acid              | B                         | A                           |
| Hydrogen                      | A                         | A                           |
| Hydrogen Peroxide, 90%        | A                         | A                           |
| Isopropyl Ether               | A                         | B                           |
| Kerosene                      | A                         | B                           |
| Linseed Oil                   | A                         | A                           |
| Lubricating Oils              | A                         | B (158° F)                  |
| Magnesium Chloride Solutions  | A                         | A (220° F)                  |
| Magnesium Hydroxide Solutions | A                         | A (200° F)                  |
| Mercuric Chloride Solutions   | A                         | A                           |
| Mercury                       | A                         | A                           |
| Methyl Alcohol                | A                         | A                           |
| Methylethyl Keytone           | C                         | D                           |
| Mineral Oil                   | A                         | A                           |
| Oleic Acid                    | A                         | B                           |
| Palmitic Acid                 | A                         | B                           |
| Phosphoric Acid, 20%          | A                         | A (200° F)                  |
| Phosphoric Acid, 60%          | A                         | A (200° F)                  |
| Phosphoric Acid, 70%          | A                         | A (200° F)                  |
| Phosphoric Acid, 85%          | A                         | A (200° F)                  |
| Picric Acid, 70%              | A                         | A                           |
| Soap Solutions                | A                         | A (200° F)                  |
| Sodium Chloride Solutions     | A                         | A                           |
| Soybean Oil                   | A                         | A                           |
| Stannic Chloride              | A                         | B                           |
| Stearic Acid                  | A                         | B (158° F)                  |
| Sulfuric Acid, up to 5%       | A                         | A                           |
| Sulfuric Acid, up to 5-10%    | A                         | A                           |
| Toluene                       | D                         | D                           |
| Triethanol Amine              | A                         | A (158° F)                  |
| Tung Oil                      | A                         | A                           |

**CODING -**    **A** = Excellent    **B** = Good    **C** = Fair    **D** = Poor

# Super-Trex® Brand Cables

## SUPER-TREX® CHEMICAL AND SOLVENT RESISTANCE (CHART 2)

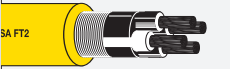


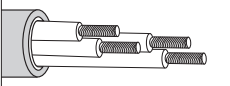
Super-Trex® Cord and Cable is jacketed with TSE, a specially compounded thermoset elastomer which has excellent resistance to most chemicals and solvents.

Measurements of cable diameter are made before and after immersion. Resistance is rated as follows, depending upon the % of change in cable diameter:

Resistance to solvents and chemicals is tested by immersing cable specimens in a solution for 28 days at room temperature.

**(E) Excellent – less than 10%**    **(G) Good – 10% to 30%**  
**(F) Fair – 30% to 50%**            **(P) Poor – More than 50%**

|                                |                                    |   |                                |
|--------------------------------|------------------------------------|---|--------------------------------|
| Acetic Acid (60%) ..... G      | Chromic Acid..... G                | Linseed Oil..... E                              | Silicone Oil ..... E           |
| Ammonium Hydroxide (60%) ... E | Corn Oil ..... E                   | Lubricating Oil (3-in-1) ..... E                | Sodium Bicarbonate..... E      |
| ASTM Fuel A ..... E            | Distilled Water ..... E            | Methyl Butyl Ketone ..... P                     | Sodium Chloride..... E         |
| ASTM Fuel B ..... G            | Floor Polish..... E                | Milk ..... E                                    | Sodium Cyanide (60%)..... G    |
| ASTM No. 1 Oil ..... E         | Formaldehyde (40%) ..... E         | N-Butyl Alcohol..... E                          | Sodium Hydroxide (60%) ..... G |
| ASTM No. 2 Oil ..... E         | Gasoline..... G                    | Perchloroethylene ..... F                       | Sodium Nitrate..... E          |
| ASTM No. 3 Oil ..... E         | Glycerine..... E                   | Phosphate Ester Hydraulic (Skydrol 500B)..... P | Steel Mill Rolling Oil..... E  |
| Beef Blood..... E              | Hydrocarbon Hydraulic Fluid .... E | Phosphoric Acid (85%)..... E                    | Sulphuric Acid (10%) ..... E   |
| Beer ..... E                   | Hydrochloric Acid (60%)..... E     | Potassium Citrate ..... E                       | Toluene..... P                 |
| Boric Acid ..... E             | Hydrogen Sulfide ..... E           | Potassium Hydroxide (20%) .... E                | Turpentine..... G              |
| Calcium Chloride ..... E       | JP-4 (Jet Fuel)..... G             | Rochelle Salts ..... E                          |                                |
| Chlorinated Salt Brine..... E  | Kerosene ..... E                   |   |                                |

| PORTABLE CORDS  |   |   |   |        |
|---|---|---|---|--------|
| PRODUCT NAME  |   | RATINGS   | PAGE  |        |
|  | <b>Super-Trex® Ultra-Gard Portable Cord</b><br>(Type TC-ER Rated) | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• CSA</li> <li>• Type SOOW</li> <li>• 600 V</li> <li>• Type TC-ER</li> <li>• RoHS Compliant</li> </ul>  | <ul style="list-style-type: none"> <li>• Suitable for Class I, II, III, Division 1 &amp; 2*</li> <li>• Max Conductor Temp 90°C</li> <li>• MSHA Approved</li> <li>• FT-4 Flame Rating</li> <li>• Extra Hard Usage</li> <li>• UV Resistant</li> </ul> | 29     |
|  | <b>Super-Trex® Triple-Gard Yellow Portable Cord</b>               | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• Type SOOW</li> <li>• Suitable for Class I, II, III Division 1 &amp; 2*</li> <li>• CSA</li> <li>• Triple Layered Construction</li> <li>• Max Conductor Temp 105°C</li> </ul> | <ul style="list-style-type: none"> <li>• FT-1 Flame Rating</li> <li>• 600 V</li> <li>• UV Resistant</li> <li>• RoHS Compliant</li> <li>• Extra Hard Usage</li> </ul>  | 30     |
|  | <b>Super-Trex® Triple-Gard Black Portable Cord</b>                | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• Type SOOW</li> <li>• Suitable for Class I, II, III, Division 1 &amp; 2*</li> <li>• CSA</li> <li>• RoHS Compliant</li> <li>• Max Conductor Temp 105°C</li> </ul>             | <ul style="list-style-type: none"> <li>• FT-1 Flame Rating</li> <li>• 600 V</li> <li>• MSHA Approved</li> <li>• UV Resistant</li> <li>• Weather Resistant</li> <li>• Extra Hard Usage</li> </ul>  | 31     |
|  | <b>Super-Trex® Extreme Temperature Cable</b>                      | <ul style="list-style-type: none"> <li>• UL Recognized</li> <li>• cUL</li> <li>• RoHS Compliant</li> <li>• Max Conductor Temp 105°C</li> </ul>  | <ul style="list-style-type: none"> <li>• FT-1 Flame Rating</li> <li>• 1,000 V</li> <li>• UV Resistant</li> <li>• Cold Temp Rating -70°C</li> </ul>  | 32,123 |

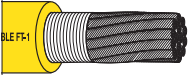
\*When installed in accordance with NEC guidelines sections, 501.140, 502.140, 503.140.


| POWER CABLES  |   |  |  |        |
|---|---|--|--|--------|
| PRODUCT NAME  |   | RATINGS  | PAGE   |        |
|    | <b>Super-Trex® Type W Black Portable Power &amp; Automation Cable</b>         | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• cUL Listed</li> <li>• ICEA S-75-381</li> <li>• All Weather Usage</li> <li>• IEEE 1202 Flame Rating</li> <li>• Max Conductor Temp 90°C</li> <li>• Cold Temp Rating -40°C</li> </ul> | <ul style="list-style-type: none"> <li>• Type W – 2,000 V</li> <li>• FT-5 Flame Rating</li> <li>• Suitable for Class I, II, III, Division 1 &amp; 2*</li> <li>• UV Resistant</li> <li>• MSHA Approved</li> <li>• Extra Hard Usage</li> </ul> | 33     |
|    | <b>Super-Trex® Type W Yellow Portable Power &amp; Automation Cable</b>        | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• cUL Listed (8 AWG to 2 AWG)</li> <li>• Type W – 2,000 V</li> <li>• UV Resistant</li> <li>• Max Conductor Temp 90°C</li> </ul>  | <ul style="list-style-type: none"> <li>• Extra Hard Usage</li> <li>• Suitable for Class I, II, III, Division 1 &amp; 2*</li> <li>• ICEA S-75-381</li> <li>• MSHA Approved</li> </ul>   | 34     |
|    | <b>Super-Trex® 4 Conductor Aramid Reinforced Portable Power Reeling Cable</b> | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• Type W</li> <li>• FT-5 Flame Rating</li> <li>• MSHA Approved</li> <li>• Max Conductor Temp 90°C</li> </ul>   | <ul style="list-style-type: none"> <li>• 2,000 V</li> <li>• CSA</li> <li>• Suitable for Class I, II, III, Division 1 &amp; 2*</li> <li>• Extra Hard Usage</li> </ul>   | 35, 55 |
|    | <b>Super-Trex® 4/0 Type TC Power Cable</b>                                    | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• Suitable for Class I, II, Division 2*</li> <li>• CSA</li> <li>• Max Conductor Temp 90°C</li> </ul>   | <ul style="list-style-type: none"> <li>• Type TC – 600 V</li> <li>• FT-4 Flame Rating</li> <li>• UV Resistant</li> <li>• RoHS Compliant</li> </ul>   | 36     |
|   | <b>Super-Trex® Type W – RHH/RHW-2 Single Conductor Power Cable</b>            | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• RoHS Compliant</li> <li>• Type RHH/RHW-2 – 600 V</li> <li>• Max Conductor Temp 90°C</li> <li>• -40°C Cold Bend Test</li> </ul>   | <ul style="list-style-type: none"> <li>• Type W – 2,000 V</li> <li>• Extra Hard Usage</li> <li>• Suitable for Class I, II, III, Division 1 &amp; 2*</li> <li>• UV Resistant</li> </ul>   | 38     |
|  | <b>Super-Trex® Single Conductor Power Cable</b>                               | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• Type RHH/RHW-2</li> <li>• IEEE 1202 Flame Rating</li> <li>• Max Conductor Temp 90°C</li> <li>• Sunlight Resistant</li> <li>• RoHS Compliant</li> </ul>                             | <ul style="list-style-type: none"> <li>• VW-1 Flame Rating</li> <li>• 2,000 V</li> <li>• FT-4 Flame Rating</li> <li>• For CT Use</li> <li>• Meets Smoke Release Test – UL 1685</li> <li>• - 40°C Cold Bend Test</li> </ul>                   | 39     |
|  | <b>Super-Trex® Type MV-105 Cable</b>  | <ul style="list-style-type: none"> <li>• Type MV-105, per UL Std. 1072</li> <li>• Sunlight Resistant</li> <li>• 5kV to 15kV Voltage Range, 133% Insulation Level</li> <li>• -40°C Cold Bend Test</li> </ul>                                      | <ul style="list-style-type: none"> <li>• Oil Resistant I/II</li> <li>• Max Conductor Temp 105°C</li> <li>• FT-4/IEEE 1202 Flame Rating</li> <li>• Direct Burial**</li> <li>• For CT Use, cond. sized 1/0 AWG &amp; larger</li> </ul>         | 41     |
|  | <b>Super-Trex® Type SH Single Conductor Power Cable</b>                       | <ul style="list-style-type: none"> <li>• ASTM B-33</li> <li>• RoHS Compliant</li> <li>• FT-4 Flame Rating</li> </ul>   | <ul style="list-style-type: none"> <li>• IEEE - 383 Flame Rating</li> <li>• ICEA S-75-381/NEMA WC-58</li> <li>• Max Conductor Temp 90°C</li> </ul>   | 42     |
|  | <b>Super-Trex® Unshielded Jumper Cable</b>                                    | <ul style="list-style-type: none"> <li>• Max Conductor Temp 90°C</li> </ul>  | <ul style="list-style-type: none"> <li>• 15,000 Volts</li> </ul>   | 44     |


\*When installed in accordance with NEC guidelines sections, 501.140, 502.140, 503.140.

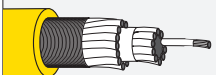
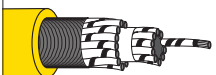

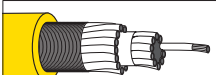
\*\*When installed in accordance to 2014 NEC Article 300.50

# Super-Trex® Brand Cables

| WELDING CABLES   |   |   |
|--|---|---|
| PRODUCT NAME   | RATINGS   | PAGE  |
|  <p><b>Super-Trex® 600 Volt Welding Cable</b></p> | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• CSA</li> <li>• UV Resistant</li> <li>• FT-1 Flame Rating</li> <li>• RoHS Compliant</li> </ul> | <ul style="list-style-type: none"> <li>• 600 V</li> <li>• Max Conductor Temp 90°C</li> <li>• Type SC</li> <li>• MSHA Approved (2, 1/0, 2/0, 3/0, 4/0 Only)</li> </ul> |

| VFD / SERVO MOTOR CABLES   |  |  |
|--|--|--|
| PRODUCT NAME   | RATINGS  | PAGE   |
|  <p><b>Super-Trex® VFD Shielded Power Cable</b></p> | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• cUL</li> <li>• FT-4 Flame Rating</li> <li>• 600 V</li> </ul> | <ul style="list-style-type: none"> <li>• Type TC-ER</li> <li>• Corona Resistant to 2,000 V</li> <li>• Max Conductor Temp 90°C</li> </ul> |

| REELING CABLES  |  |   |
|---|--|---|
| PRODUCT NAME  | RATINGS  | PAGE  |
|  <p><b>Super-Trex® Multi-Conductor P&amp;R Cable</b></p> | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• RoHS Compliant</li> <li>• Type TC – 600 V</li> <li>• CSA</li> <li>• UV Resistant</li> <li>• MSHA Approved (16 AWG Only)</li> </ul> | <ul style="list-style-type: none"> <li>• Type WTTC – 1,000 V</li> <li>• FT-1 Flame Rating</li> <li>• Max Conductor Temp 90°C Dry</li> <li>• Max Conductor Temp 75°C Wet</li> <li>• Suitable for Class I, II, Division 2*</li> </ul> |

| CONTROL/INSTRUMENTATION CABLES  |  |  |
|---|--|--|
| PRODUCT NAME  | RATINGS  | PAGE   |
|  <p><b>Super-Trex® Reduced Diameter Control Cable (12 AWG)</b></p> | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• CSA</li> <li>• 600 V</li> <li>• Max Conductor Temp 90°C</li> </ul>                     | <ul style="list-style-type: none"> <li>• FT-1 Flame Rating</li> <li>• Type TC</li> <li>• RoHS Compliant</li> <li>• Suitable for Class I, II, Div. 2*</li> </ul>            |
|  <p><b>Super-Trex® Reduced Diameter Control Cable (16 AWG)</b></p> | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• CE</li> <li>• Max Conductor Temp 90°C</li> <li>• Type WTTC – 1,000 V</li> </ul>        | <ul style="list-style-type: none"> <li>• FT-4 Flame Rating</li> <li>• RoHS Compliant</li> <li>• Type TC-ER – 600 V</li> <li>• Suitable for Class I, II, Div. 2*</li> </ul> |
|  <p><b>Super-Trex® Reduced Diameter Control Cable (18 AWG)</b></p> | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• CE</li> <li>• Max Conductor Temp 90°C</li> <li>• Type WTTC – 1,000 V</li> </ul>        | <ul style="list-style-type: none"> <li>• FT-4 Flame Rating</li> <li>• RoHS Compliant</li> <li>• Type TC-ER – 600 V</li> <li>• Suitable for Class I, II, Div. 2*</li> </ul> |
|  <p><b>Super-Trex® Reduced Diameter Control Cable (20 AWG)</b></p> | <ul style="list-style-type: none"> <li>• UL Recognized in the U.S. &amp; Canada</li> <li>• CSA</li> <li>• 600 V</li> <li>• RoHS Compliant</li> </ul> | <ul style="list-style-type: none"> <li>• FT-1 Flame Rating</li> <li>• CE</li> <li>• Max Conductor Temp. 90°C</li> </ul>  |

\*When installed in accordance with NEC guidelines sections, 501.140, 502.140, 503.140.

# TREX-ONICS®

FAMILY OF ELECTRONIC & ELECTRICAL CABLE

## TREX-ONICS® JACKET CHEMICAL RESISTANCE

### ACIDS

|                         |           |
|-------------------------|-----------|
| Acetic, 5% .....        | Good      |
| Formic, 20% .....       | Variable  |
| Hydrochloric, 10% ..... | Fair      |
| Olcic.....              | Fair-Good |
| Sulfuric, 20% .....     | Fair      |

### ALCOHOLS

|                        |           |
|------------------------|-----------|
| Ethanol.....           | Variable  |
| Isopropanol.....       | Fair-Poor |
| Isopropanol, 50% ..... | Fair-Poor |
| Methanol.....          | Variable  |

### ALKALI

|                            |      |
|----------------------------|------|
| Sodium Hydroxide, 20%..... | Fair |
|----------------------------|------|

### ORGANICS

|                    |               |
|--------------------|---------------|
| Acetone .....      | Poor          |
| ASTM Fuel A.....   | Good          |
| ASTM Fuel B.....   | Fair          |
| ASTM Fuel C.....   | Fair-Variable |
| ASTM Fuel #1 ..... | Good          |
| ASTM Fuel #2 ..... | Good          |
| ASTM Fuel #3.....  | Good-Fair     |

### ORGANICS (continued)

|                                 |           |
|---------------------------------|-----------|
| Benzene.....                    | Variable  |
| Brake Fluid Type A.....         | Variable  |
| Brake Fluid (H.D.).....         | Fair-Good |
| Butane .....                    | Good      |
| Carbon Tetrachloride.....       | Variable  |
| Cyclohexanone.....              | NR        |
| Dimethyl Formamid.....          | NR        |
| Dimethyl Sulfoxide .....        | NR        |
| I, 4-Dioxane .....              | NR        |
| Diocetyl Phthalate.....         | Fair      |
| Ethyl Ether.....                | Fair-Good |
| Ethylene Glycol .....           | Good      |
| Ethylene Glycol 50% Water ..... | Good      |
| Gasoline, 100 Octane.....       | Fair      |
| Hexane.....                     | Fair-Good |
| Kerosene .....                  | Good      |
| Methylene Chloride.....         | Variable  |
| Methyl Ethyl Keytone .....      | Variable  |
| N-Methyl-2-Pyrrolidene .....    | NR        |
| Oil, Texas Crude .....          | Fair-Good |
| Oil, Detergent 20W .....        | Good      |
| Oil, Non-Detergent 20W .....    | Good      |
| Oil, Skydrol Type B .....       | NR        |

### ORGANICS (continued)

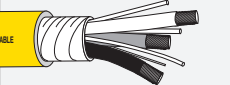
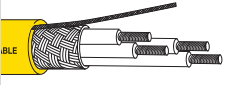
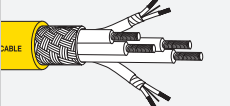
|                                |               |
|--------------------------------|---------------|
| Oil, Skydrol Type 500A.....    | Fair-Variable |
| Oil, Skydrol Type 500B.....    | Fair-Variable |
| Oil, Transmission Type A ..... | Good          |
| Perchloroethylene.....         | Variable      |
| Pyridine.....                  | NR            |
| Tertrahydrofuran .....         | NR            |
| Toluene .....                  | Variable      |
| Trichloroethylene.....         | Variable      |
| Turpentine.....                | Good          |

### MISCELLANEOUS


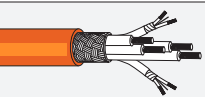



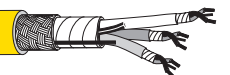
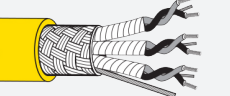


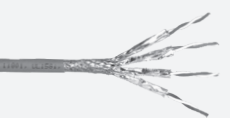

|  |           |
|--|-----------|
| Chlorox (5%) .....                       | Good      |
| Calcium Chloride Saturated Solution..... | Good      |
| FREON-113 .....                          | Variable  |
| FREON-11B.....                           | Variable  |
| FREON-112 .....                          | Good      |
| Hydrogen Disulfide (5%) .....            | Excellent |
| Sodium Chloride Saturated Solution ..... | Good      |
| Synthetic Perspiration.....              | Good      |
| Tide (1%) .....                          | Good      |
| Water .....                              | Good      |







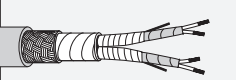
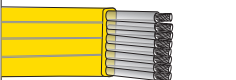


### CODING

- EXCELLENT** — Little or no change in constant exposure — application is recommended.
- GOOD** — Only slight loss in properties on constant exposure — application is recommended.
- FAIR** — Some swelling could occur in constant exposure but recommended for infrequent contact.
- VARIABLE** — In constant exposure not recommended. Infrequent contact recommended.
- NR** — Not recommended, product could deteriorate in moderate exposure.

| POWER CABLES   |   |  |      |
|--|---|--|------|
| PRODUCT NAME   | RATINGS   |  | PAGE |
|  <p><b>Trex-Onics® Reduced Diameter Power Cable</b></p>   | <ul style="list-style-type: none"> <li>• UL Recognized in the U.S. &amp; Canada</li> <li>• CSA</li> <li>• FT-1 Flame Rating</li> <li>• Continuous Flex Applications</li> </ul>  | <ul style="list-style-type: none"> <li>• RoHS Compliant</li> <li>• 600 V</li> <li>• Cold Temp Rating -20°C</li> <li>• Max Conductor Temp 90°C</li> </ul>   | 37   |
| VFD / SERVO MOTOR CABLES   |   |  |      |
| PRODUCT NAME   | RATINGS   |  | PAGE |
|  <p><b>Trex-Onics® Low Capacitance VFD Shielded Power Cable</b></p>                               | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• CE</li> <li>• Oil Resistant</li> <li>• Sunlight Resistant</li> <li>• CSA – 1,000 V</li> <li>• RoHS Compliant</li> </ul>   | <ul style="list-style-type: none"> <li>• CSA</li> <li>• Type TC-ER – 600 V</li> <li>• FT-4 Flame Rating</li> <li>• Max Conductor Temp 90°C</li> <li>• Corona Resistant to 2,000 V</li> <li>• Suitable for Class I, II, Div. 2</li> </ul> | 48   |
|  <p><b>Trex-Onics® Low Capacitance VFD Shielded Power Cable with Brake &amp; Signal Pairs</b></p> | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• CE</li> <li>• CSA – 1,000 V</li> <li>• Oil Resistant</li> <li>• Sunlight Resistant</li> <li>• Suitable for Class I, II, Div. 2</li> <li>• Cold Temp Rating -40°C</li> </ul> | <ul style="list-style-type: none"> <li>• CSA</li> <li>• Type TC-ER – 600 V</li> <li>• Max Conductor Temp 90°C</li> <li>• Corona Resistant to 2,000 V</li> <li>• RoHS Compliant</li> <li>• FT-4 Flame Rating</li> </ul>                   | 49   |

# Trex-Onics® Brand Cables

| VFD / SERVO MOTOR CABLES  |   |  |   |    |
|---|---|--|---|----|
| PRODUCT NAME  |   | RATINGS  | PAGE  |    |
|    | <b>Trex-Onics® Hybrid Cable &amp; Hummel's Hybrid M23</b>                 | <ul style="list-style-type: none"> <li>• 600 V</li> <li>• Max Conductor Temp 70°C</li> <li>• Cold Temp Rating -40°C</li> <li>• ANSI TIA/EIA 568-B</li> <li>• IEC 60332-1</li> </ul>                          | <ul style="list-style-type: none"> <li>• Frequency Range up to 1000 MHz</li> <li>• IEC 61156-6</li> <li>• RoHS Compliant 2002/95/EC</li> <li>• ISO/IEC 11801</li> </ul>   | 50 |
|    | <b>Trex-Onics® Servo Motor Cable</b>                                      | <ul style="list-style-type: none"> <li>• UL Recognized in U.S. &amp; Canada</li> <li>• FT-1 Flame Rating</li> <li>• 600 V</li> </ul>   | <ul style="list-style-type: none"> <li>• AWM</li> <li>• Max Conductor Temp 80°C</li> <li>• Cold Temp Rating -40°C</li> </ul>  | 51 |
| REELING CABLES  |   |  |   |    |
| PRODUCT NAME  |   | RATINGS  | PAGE  |    |
|    | <b>Trex-Onics® Reduced Diameter Extra Heavy-Duty Reeling Cable</b>        | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• FT-1 Flame Rating</li> <li>• VW-1 Flame Rating</li> <li>• AWM</li> <li>• Suitable for Class I, II, Division 2</li> </ul>                       | <ul style="list-style-type: none"> <li>• cUL</li> <li>• Type TC-ER</li> <li>• 600 V</li> <li>• Max Conductor Temp 90°C</li> <li>• Cold Temp Rating -40°C</li> </ul>   | 52 |
| CONTROL/INSTRUMENTATION   |   |  |   |    |
| PRODUCT NAME  |   | RATINGS  | PAGE  |    |
|    | <b>Trex-Onics® Overall Shielded Continuous Flex Multi-Conductor Cable</b> | <ul style="list-style-type: none"> <li>• UL Recognized in US &amp; Canada</li> <li>• CSA</li> <li>• 600 V</li> <li>• MSHA Approved (24 AWG-16 AWG)</li> <li>• Continuous Flex Applications</li> </ul>        | <ul style="list-style-type: none"> <li>• RoHS Compliant</li> <li>• FT-1 Flame Rating</li> <li>• VW-1 Flame Rating</li> <li>• Max Conductor Temp 105°C</li> <li>• Cold Temp Rating -40°C</li> </ul>                      | 61 |
|  | <b>Trex-Onics® Multi-Pair Control Cable</b>                               | <ul style="list-style-type: none"> <li>• UL Recognized in US &amp; Canada</li> <li>• CSA</li> <li>• 600 V</li> <li>• FT-1 Flame Rating</li> </ul>  | <ul style="list-style-type: none"> <li>• RoHS Compliant</li> <li>• VW-1 Flame Rating</li> <li>• Max Conductor Temp 105°C</li> </ul>   | 63 |
|  | <b>Trex-Onics® Individually Shielded Multi-Pair Control Cable</b>         | <ul style="list-style-type: none"> <li>• UL Recognized in US &amp; Canada</li> <li>• CSA</li> <li>• 600 V</li> <li>• FT-1 Flame Rating</li> </ul>  | <ul style="list-style-type: none"> <li>• RoHS Compliant</li> <li>• VW-1 Flame Rating</li> <li>• Max Conductor Temp 105°C</li> <li>• Cold Temp Rating -40°C</li> <li>• MSHA Approved (2+ pairs 24 AWG-18 AWG)</li> </ul> | 65 |
|  | <b>Trex-Onics® Individually Shielded Resolver Cable</b>                   | <ul style="list-style-type: none"> <li>• UL Recognized in US &amp; Canada</li> <li>• CSA</li> <li>• RoHS Compliant</li> <li>• 300 V</li> </ul>   | <ul style="list-style-type: none"> <li>• FT-1 Flame Rating</li> <li>• Max Conductor Temp 105°C</li> <li>• Cold Temperature Rating -40°C</li> <li>• VW-1 Flame Rating</li> </ul>   | 67 |
|  | <b>Trex-Onics® High-Flex Encoder Cable</b>                                | <ul style="list-style-type: none"> <li>• 300 V</li> <li>• Max Conductor Temp 90°C</li> <li>• Cold Temp Rating -40°C</li> <li>• AWM</li> </ul>  | <ul style="list-style-type: none"> <li>• VW-1 Flame Rating</li> <li>• UL Recognized in the U.S. &amp; Canada</li> <li>• RoHS Compliant</li> </ul>   | 68 |
|  | <b>Trex-Onics® Low Capacitance Communication / Instrumentation Cable</b>  | <ul style="list-style-type: none"> <li>• UL Recognized</li> <li>• 13pF/ft</li> <li>• RoHS Compliant</li> <li>• VW-1 Flame Rating</li> </ul>  | <ul style="list-style-type: none"> <li>• EIA RS-232/422/485</li> <li>• Max Conductor Temp 80°C</li> <li>• 300 V</li> </ul>  | 69 |
| BUS CABLES – ETHERNET   |   |  |   |    |
| PRODUCT NAME  |   | RATINGS  | PAGE  |    |
|  | <b>Trex-Onics® Industrial Ethernet CAT7A Cable</b>                        | <ul style="list-style-type: none"> <li>• ANSI TIA/EIA 568-B</li> <li>• IEC 61156-6</li> <li>• Abrasion Resistant</li> <li>• ISO/IEC 11801</li> <li>• 600 V**</li> <li>• RoHS Compliant 2002/95/EC</li> </ul> | <ul style="list-style-type: none"> <li>• IEC 60332-1</li> <li>• Frequency Range up to 1000 MHz</li> <li>• Max Conductor Temp 70°C</li> <li>• Cold Temp Rating -40°C</li> <li>• Halogen-Free Flame Retardant</li> </ul>  | 70 |
|  | <b>Trex-Onics® Industrial Ethernet CAT6A Cable</b>                        | <ul style="list-style-type: none"> <li>• IEC 61156-6</li> <li>• ISO/IEC 11801</li> <li>• 300 V</li> <li>• RoHS Compliant</li> <li>• Halogen-Free Flame Retardant</li> </ul>                                  | <ul style="list-style-type: none"> <li>• IEC 60332-1</li> <li>• Frequency Range up to 500 MHz</li> <li>• Max Conductor Temp 65°C</li> <li>• Cold Temp Rating -30°C</li> </ul>   | 71 |

| BUS CABLES – ETHERNET   |  |   |   |    |
|---|--|---|---|----|
| PRODUCT NAME  |  | RATINGS   | PAGE  |    |
|    | <b>Trex-Onics® Shielded Horizontal CAT6 Cable</b>  | <ul style="list-style-type: none"> <li>• UL Recognized</li> <li>• FT-1 Flame Rating</li> <li>• RoHS Compliant 2002/95/EC</li> <li>• UV Resistant</li> <li>• ANSI TIA/EIA 568-B</li> <li>• IEEE 802.3bt</li> </ul> | <ul style="list-style-type: none"> <li>• Max Conductor Temp 80°C</li> <li>• Cold Temp Rating -30°C</li> <li>• Halogen-Free Flame Retardant</li> <li>• TIA / EIA-568-C-2</li> <li>• Frequency Range up to 250 MHz</li> </ul>   | 72 |
|    | <b>Trex-Onics® High-Flex PROFINET</b>  | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• Max Conductor Temp 80°C</li> <li>• Sunlight Resistant</li> <li>• 600 V***</li> <li>• cUL</li> <li>• Cold Temp Rating -40°C</li> </ul>               | <ul style="list-style-type: none"> <li>• Oil Resistant</li> <li>• Suitable for use in Class I / Div. 2, Class II / Div. 2, Class III / Div. 1 and 2</li> <li>• Type PLTC</li> <li>• ANSI/TIA-568-C.2 / IEC 61156-5</li> </ul> | 74 |
|    | <b>Trex-Onics® 4 Pin M12 DC Micro Ethernet Cord Sets with PROFINET 2-Pair Shielded Cable</b>       | <ul style="list-style-type: none"> <li>• 300V</li> <li>• IP67</li> </ul>  | <ul style="list-style-type: none"> <li>• Operating Temperature: 70° C</li> </ul>  | 75 |
|    | <b>RJ45 and Trex-Onics® 8 Pin M12 DC Micro Ethernet Cord Sets with CAT7A 4 Pair Shielded Cable</b> | <ul style="list-style-type: none"> <li>• Operating Temperature: 70° C</li> <li>• RJ45 Voltage 30 VAC/32 VDC at 1.5 amps</li> </ul>  | <ul style="list-style-type: none"> <li>• 8 Pin M12 DC Micro 300V</li> </ul>   | 76 |
| BUS CABLES – NETWORK  |  |   |   |    |
| PRODUCT NAME  |  | RATINGS   | PAGE  |    |
|  | <b>Trex-Onics® ControlNet RG-6U Quad-Shield Coaxial Cable</b>                                      | <ul style="list-style-type: none"> <li>• UL Recognized in US &amp; CA</li> <li>• ODVA Conformity</li> <li>• Max Conductor Temp 80°C</li> </ul>  | <ul style="list-style-type: none"> <li>• FT-2 Flame Rating</li> <li>• RoHS Compliant</li> <li>• Cold Temp Rating -40°C</li> </ul>   | 78 |
|  | <b>Trex-Onics® Profibus DP Type A Festoon/Trailing Cable</b>                                       | <ul style="list-style-type: none"> <li>• UL Recognized in US &amp; CA</li> <li>• 30 V</li> </ul>  | <ul style="list-style-type: none"> <li>• RoHS Compliant</li> <li>• Max Conductor Temp 80°C</li> <li>• Cold Temp Rating -40°C</li> </ul>   | 79 |
|  | <b>Trex-Onics® DeviceNet™ Flex-Net Cables</b>  | <ul style="list-style-type: none"> <li>• UL Recognized in US &amp; CA</li> <li>• ODVA Conformity</li> <li>• CE (thin only)</li> <li>• 300 V</li> </ul>  | <ul style="list-style-type: none"> <li>• Type PLTC</li> <li>• FT-4 Flame Rating</li> <li>• RoHS Compliant</li> <li>• Max Conductor Temp 80°C</li> </ul>   | 80 |
| FLAT FESTOON CABLES   |  |   |   |    |
| PRODUCT NAME  |  | RATINGS   | PAGE  |    |
|  | <b>Trex-Onics® Flat Festoon Cable</b>  | <ul style="list-style-type: none"> <li>• 600 V</li> <li>• RoHS Compliant</li> </ul>   | <ul style="list-style-type: none"> <li>• Max Conductor Temp 105°C</li> <li>• Cold Temp Rating -40°C</li> </ul>  | 92 |
| RETRACTILE COIL CORDS   |  |   |   |    |
| PRODUCT NAME  |  | RATINGS   | PAGE  |    |
|  | <b>Trex-Onics® Sootblower Cable</b>  | <ul style="list-style-type: none"> <li>• 600 Volt</li> <li>• IP68 Rated</li> </ul>  | <ul style="list-style-type: none"> <li>• IP67 Rated</li> <li>• Max Conductor Temp 105°C</li> </ul>  | 94 |
|  | <b>Trex-Onics® High-Flex Ultra-Coil Retractable</b>  | <ul style="list-style-type: none"> <li>• UL Recognized in US &amp; CA</li> <li>• 600 V</li> <li>• RoHS Compliant</li> <li>• Sunlight Resistant</li> <li>• CE</li> </ul>   | <ul style="list-style-type: none"> <li>• cUL</li> <li>• Max Conductor Temp 90°C</li> <li>• Cold Temp Rating -40°C</li> <li>• Oil Resistant</li> </ul>   | 95 |

\*Telecommunications Industry Association / Electronic Industries Alliance \*\* Installation cable voltage rating is 300/600 V. This cable is not intended to be used for main power supply applications.

\*\*\*NOTE: Installation cable voltage is 300V-PLTC, 300V-ITC, or 600V-AWM 2463

# THERMO-TREX®

FAMILY OF HIGH TEMPERATURE WIRE & CABLE

## Cable Selection Guide for High Temperature Environments

TPC's Thermo-Trex® brand cable is the source for a high temperature resistant cable available in many configurations that offers gauge sizes for power or control applications. Flexibility is achieved by using finely stranded, nickel-plated copper conductors and a specially woven glass-braid jacket impregnated with abrasion resistant finishing compounds. These cables are a specialized family of high temperature wire and cable for your maintenance applications. Choosing the right product for high-heat environments reduces unnecessary replacements and avoids downtime. Use the chart below to make the best choice for your high temperature environment. If you have any questions, please contact your sales representative.

**CONTINUOUS TEMPERATURE**



### HIGH TEMPERATURE CABLES

**Thermo-Trex® 2800:** High heat resistance allows this cable to withstand maximum conductor temperature up to 1,000°F

**Thermo-Trex® 2000:** High heat resistance allows this cable to withstand maximum conductor temperature up to 850°F

**Thermo-Trex® 850 Cable:** High heat resistance allows this cable to withstand maximum conductor temperature up to 500°F

**Thermo-Trex® 500-K Cable:** High heat resistance allows this cable to withstand maximum conductor temperature up to 392°F. The aramid fiber braid jacket adds tensile strength and added protection against abrasion. It is available in single or multi-conductors.

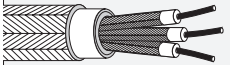

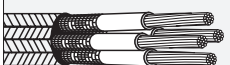
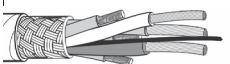

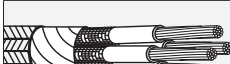





**Thermo-Trex® Soaking Pit Cable:** High heat resistance allows this cable to withstand maximum conductor temperature up to 392°F (200°C). Aramid fiber jacket with stainless steel braid offers maximum abrasion protection.

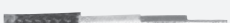
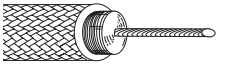

**Thermo-Trex® 200-HD Cable:** High heat resistance allows this cable to withstand maximum conductor temperature up to 392°F (200°C). The high-density fabric jacket adds protection against cut-through and abrasion.


**Thermo-Trex® 500-Plus Silicone Cable:** Thermo-Trex® 500-Plus Silicone Cable is designed with a moisture resistant silicone jacket and rated at a maximum conductor temperature of 200°C (392°F). It is an ideal choice for applications exposed to high temperatures, UV light and mechanical abuse.



# Thermo-Trex® Brand Cables

| HIGH TEMPERATURE CABLES   |   |   |   |     |
|---|---|---|---|-----|
| PRODUCT NAME  |   | RATINGS   | PAGE  |     |
|    | <b>Thermo-Trex® 2800 Cable</b>  | <ul style="list-style-type: none"> <li>• 600 V</li> <li>• RoHS Compliant</li> </ul>   | <ul style="list-style-type: none"> <li>• Max Conductor Temp 537°C (1000°F)</li> <li>• Cold Temperature Rating -65°C</li> </ul>                            | 111 |
|    | <b>Thermo-Trex® 2000 Cable</b>  | <ul style="list-style-type: none"> <li>• 600 V</li> <li>• RoHS Compliant</li> <li>• UL Recognized</li> </ul>                | <ul style="list-style-type: none"> <li>• Max Conductor Temp 454°C (850°F)</li> <li>• Cold Temperature Rating -65°C</li> </ul>                             | 112 |
|    | <b>Thermo-Trex® 850 Cable</b>   | <ul style="list-style-type: none"> <li>• UL Recognized</li> <li>• CSA</li> <li>• 600 V</li> </ul>                           | <ul style="list-style-type: none"> <li>• Max Conductor Temp 250°C (482°F)</li> <li>• Cold Temperature Rating -65°C</li> <li>• RoHS Compliant</li> </ul>   | 113 |
|    | <b>Thermo-Trex® VFD Power Cable - 3 Conductors with 3 Symmetrical Grounds</b> | <ul style="list-style-type: none"> <li>• UL Recognized</li> <li>• CSA</li> <li>• 600V</li> </ul>                            | <ul style="list-style-type: none"> <li>• Max Conductor Temperature 200°C</li> <li>• Corona Resistant to 2,000V</li> </ul>                                 | 114 |
|    | <b>Thermo-Trex® Soaking Pit Cable</b>   | <ul style="list-style-type: none"> <li>• Max Conductor Temp 200°C (392°F)</li> </ul>  | <ul style="list-style-type: none"> <li>• 600 Volt</li> <li>• Stainless steel braid with 95% coverage</li> </ul>   | 113 |
|    | <b>Thermo-Trex® 500-K Multi-Conductor Cable</b>                               | <ul style="list-style-type: none"> <li>• 600 V</li> <li>• RoHS Compliant</li> </ul>   | <ul style="list-style-type: none"> <li>• Max Conductor Temp 200°C (392°F)</li> </ul>  | 114 |
|    | <b>Thermo-Trex® 500-K Single Conductor Cable</b>                              | <ul style="list-style-type: none"> <li>• UL Recognized</li> <li>• 600 V</li> </ul>  | <ul style="list-style-type: none"> <li>• Max Conductor Temp 200°C (392°F)</li> <li>• RoHS Compliant</li> </ul>  | 115 |
|   | <b>Thermo-Trex® 200-HD Multi-Conductor Cable</b>                              | <ul style="list-style-type: none"> <li>• 600 V</li> <li>• RoHS Compliant</li> </ul>   | <ul style="list-style-type: none"> <li>• Max Conductor Temp 200°C (392°F)</li> <li>• Cold Temp Rating -60°C</li> </ul>                                    | 116 |
|  | <b>Thermo-Trex® 200-HD Single Conductor Cable</b>                             | <ul style="list-style-type: none"> <li>• UL Recognized</li> <li>• 600 V</li> <li>• Zero Halogen</li> </ul>                  | <ul style="list-style-type: none"> <li>• Max Conductor Temp 200°C (392°F)</li> <li>• Cold Temp Rating -60°C</li> <li>• VW-1 Flame Rating</li> </ul>       | 117 |
|  | <b>Thermo-Trex® 600-Plus Silicone Cable</b>                                   | <ul style="list-style-type: none"> <li>• UL Recognized</li> <li>• 600V</li> <li>• FT-2 Flame Rating</li> </ul>              | <ul style="list-style-type: none"> <li>• CSA Pending</li> <li>• Max Conductor Temperature 200°C</li> <li>• Cold Temperature Rating -40°C</li> </ul>       | 120 |
|  | <b>Thermo-Trex® 500-Plus Silicone Cable</b>                                   | <ul style="list-style-type: none"> <li>• UL Recognized</li> <li>• CSA</li> <li>• RoHS Compliant</li> <li>• 600 V</li> </ul> | <ul style="list-style-type: none"> <li>• Max Conductor Temperature 200°C</li> <li>• FT-2 Flame Rating</li> <li>• Cold Temperature Rating -40°C</li> </ul> | 121 |

| IGNITER CABLES  |  |  |  |     |
|---|--|--|--|-----|
| PRODUCT NAME  |  | RATINGS  | PAGE   |     |
|  | <b>Thermo-Trex® Flare Stack Cable</b>                      | <ul style="list-style-type: none"> <li>• 25 kV</li> <li>• 25 kVDC</li> </ul> | <ul style="list-style-type: none"> <li>• Max Conductor Temp 250°C</li> </ul> | 126 |
|  | <b>Thermo-Trex® Igniter Wire with Fiberglass Jacket</b>    | <ul style="list-style-type: none"> <li>• RoHS Compliant</li> </ul>           |  | 127 |
|  | <b>Thermo-Trex® Igniter Wire with Fluoropolymer Jacket</b> | <ul style="list-style-type: none"> <li>• UL Listed</li> </ul>                | <ul style="list-style-type: none"> <li>• RoHS Compliant</li> </ul>           | 127 |

| THERMOCOUPLE EXTENSION WIRE   |  |  |  |     |
|---|--|--|--|-----|
| PRODUCT NAME  |  | RATINGS  | PAGE   |     |
|  | <b>Thermo-Trex® Type JX, KX, RSX Thermocouple Extension Wire</b> | <ul style="list-style-type: none"> <li>• RoHS Compliant</li> </ul> | <ul style="list-style-type: none"> <li>• High Chemical Resistance Offered By FEP &amp; PFA Jacket</li> </ul> | 128 |

# CHEM-GARD®

FAMILY OF CHEMICAL & TEMPERATURE RESISTANT CABLES



## CHEM-GARD® CHEMICAL RESISTANCE (CHART 1)

| CHEMICAL             | FLOUROPOLYMER | ETFE      | FEP       |
|----------------------|---------------|-----------|-----------|
| Oxidation Resistance | Excellent     | Excellent | Excellent |
| Oil                  | Excellent     | Excellent | Excellent |
| UV Rays              | Excellent     | Excellent | Excellent |
| Water                | Excellent     | Excellent | Excellent |
| Acid                 | Excellent     | Excellent | Excellent |
| Alkali               | Excellent     | Excellent | Excellent |
| Gasoline/Kerosene    | Excellent     | Excellent | Excellent |
| Benzol Toluene       | Excellent     | Excellent | Excellent |
| Degreaser Solvent    | Excellent     | Excellent | Excellent |
| Alcohol              | Excellent     | Excellent | Excellent |


# Chem-Gard® Brand Cables

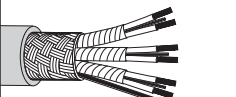

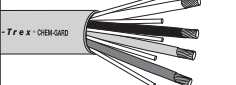
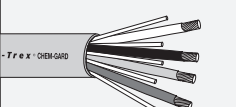

## CHEM-GARD® COLOR CODES (CHART 2)

|    |              |
|----|--------------|
| 1  | BLACK        |
| 2  | WHITE        |
| 3  | RED          |
| 4  | GREEN        |
| 5  | ORANGE       |
| 6  | BLUE         |
| 7  | WHITE/BLACK  |
| 8  | RED/BLACK    |
| 9  | GREEN/BLACK  |
| 10 | ORANGE/BLACK |
| 11 | BLUE/BLACK   |
| 12 | BLACK/WHITE  |

## CHEM-GARD® COMPLIANCE

- Passes Boeing Test Method BSS 7239 for Toxic Gas, Flaming and Non-Flaming Mode.
- Passes Bombardier Specification SMP 800C Toxic Gas Generation, Flaming and Non-Flaming Mode.
- ASTM E 662 — Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials (NFPA Designation No. 258.)

| BUS CABLES — ETHERNET   |   |   |      |
|---|---|---|------|
| PRODUCT NAME  |   | RATINGS   | PAGE |
|  | <b>Chem-Gard® 200°C CAT6 Industrial Ethernet Horizontal Cable</b> | <ul style="list-style-type: none"> <li>• TIA/EIA 568-B-2 CAT6</li> <li>• 300 V</li> <li>• Max Conductor Temp 200°C</li> <li>• Cold Temp Rating -60°C</li> <li>• Finely Stranded Silver-Plated Copper</li> </ul> | 73   |




| CHEMICAL & TEMPERATURE RESISTANT CABLES   |   |  |      |
|---|---|--|------|
| PRODUCT NAME  |   | RATINGS  | PAGE |
|  | <b>Chem-Gard® 200 Individually Shielded Multi-Pair Control / Resolver Cable</b> | <ul style="list-style-type: none"> <li>• UL Recognized</li> <li>• 600 V</li> <li>• VW-1 Flame Rating</li> <li>• RoHS Compliant</li> <li>• CSA</li> <li>• FT-1 Flame Rating</li> <li>• Max Conductor Temp 200°C</li> <li>• Cold Temp Rating -60°C</li> </ul>  | 98   |
|  | <b>Chem-Gard® 200 TC Rated Cable</b>  | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• 600 V</li> <li>• CSA</li> <li>• Max Conductor Temperature 200°C</li> <li>• Cold Temp Rating -60°C</li> <li>• Suitable for class I, II, III, Division 2</li> </ul>  | 99   |
|  | <b>Chem-Gard® 200 Cable</b>   | <ul style="list-style-type: none"> <li>• UL Recognized</li> <li>• 600 V</li> <li>• VW-1 Flame Rating</li> <li>• RoHS Compliant</li> <li>• CSA</li> <li>• FT-1 Flame Rating</li> <li>• Max Conductor Temperature 200°C</li> <li>• Cold Temp Rating -60°C</li> </ul>   | 100  |
|  | <b>Chem-Gard® 150 with Defender® Technology</b>                                 | <ul style="list-style-type: none"> <li>• UL Recognized</li> <li>• 600 V</li> <li>• CSA</li> <li>• RoHS Compliant</li> <li>• VW-1 Flame Rating</li> <li>• FT-1 Flame Rating</li> <li>• Max Conductor Temp 150°C</li> <li>• Cold Temp Rating -60°C</li> <li>• Superior Chemical Resistance</li> <li>• Antimicrobial</li> </ul> | 103  |
|  | <b>Chem-Gard® 150 Cable</b>   | <ul style="list-style-type: none"> <li>• UL Recognized</li> <li>• 600 V</li> <li>• VW-1 Flame Rating</li> <li>• RoHS Compliant</li> <li>• CSA</li> <li>• FT-1 Flame Rating</li> <li>• Max Conductor Temp 150°C</li> <li>• Cold Temp Rating -60°C</li> </ul>  | 105  |

# POWER-TREX®

FAMILY OF PRODUCTS FOR TEMPORARY & EMERGENCY POWER

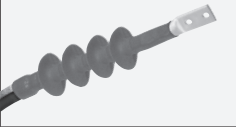


## MEDIUM VOLTAGE POWER CABLES


| PRODUCT NAME  |   | RATINGS  |  | PAGE |
|---|---|--|--|------|
|   | <b>Super-Trex® Type MV-105 Cable</b>                | <ul style="list-style-type: none"> <li>• Type MV-105, per UL Std. 1072</li> <li>• Sunlight Resistant</li> <li>• 5kV to 15kV Voltage Range, 133% Insulation Level</li> <li>• Cold Temp Rating -40°C Cold Bend Test</li> </ul> | <ul style="list-style-type: none"> <li>• Oil Resistant I/II</li> <li>• Max Conductor Temp 105°C</li> <li>• FT-4/IEEE 1202 Flame Rating</li> <li>• Direct Burial**</li> <li>• For CT Use, cond. sized 1/0 AWG &amp; larger</li> </ul> | 41   |
|  | <b>Super-Trex® Type SH Power Cable (5kV - 35kV)</b> | <ul style="list-style-type: none"> <li>• ASTM B-33</li> <li>• RoHS Compliant</li> <li>• FT-4 Flame Rating</li> </ul>   | <ul style="list-style-type: none"> <li>• IEEE - 383 Flame Rating</li> <li>• ICEA S-75-381/NEMA WC-58</li> <li>• Max Conductor Temp 90°C</li> </ul>   | 42   |
|  | <b>Super-Trex® Unshielded Jumper Cable (15kV)</b>   | <ul style="list-style-type: none"> <li>• Extruded Semi-Conductive EPR Insulation</li> <li>• TSE Jacket</li> <li>• Extra Flexible Tinned Copper Conductors</li> </ul>   | <ul style="list-style-type: none"> <li>• Semi-Conductive Tape</li> <li>• 15,000 Volts</li> <li>• Max Conductor Temp 90°C</li> </ul>  | 44   |

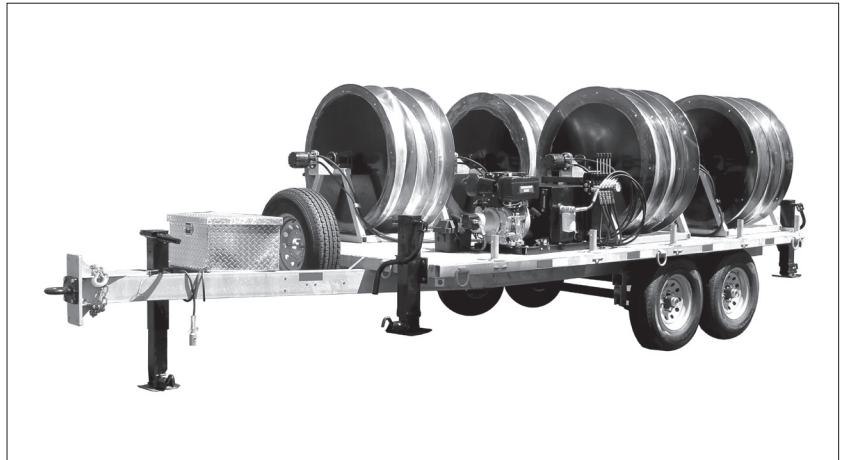
# Power-Trex®

## MEDIUM VOLTAGE ASSEMBLIES (5kV to 35kV)

| PRODUCT NAME   | RATINGS   | PAGE       |
|--|---|------------|
|  <p><b>Type SH Termination Assemblies</b></p> | <p>TPC's flexible medium voltage power cables can be connectorized with a variety of medium voltage connections. Contact your sales representative to discuss connector options that meet your requirements. TPC will cut the cable to any length and add connectors to provide a complete solution. Also, ask about cable storage and deployment solutions for these cables.</p> | <p>287</p> |

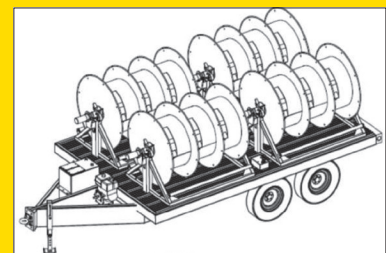
## STORAGE & DEPLOYMENT SOLUTIONS

| PRODUCT NAME  | RATINGS   | PAGE       |
|---|---|------------|
|  <p><b>Custom Storage and Open Work Trailers</b></p> | <p>Designed to manage large cable requirements and provide safe storage and quick deployment.</p> | <p>298</p> |



### Custom Designed to Meet Your Needs

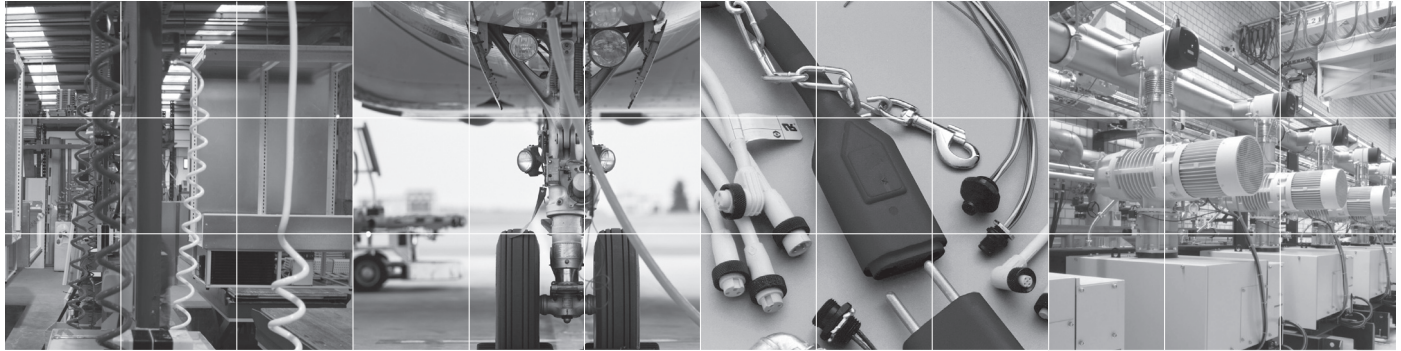
TPC Wire & Cable offers custom-engineered trailer systems that are designed using specific application and environmental information supplied by the customer. These solutions represent a unique and valuable service offered by TPC, whose engineers are experienced in the electrical, mechanical, chemical, and industrial engineering disciplines. TPC engineers will assemble the critical components into a final design that delivers a long-lasting, cost-effective alternative to the constant replacement and grueling manual deployment of ordinary cable.






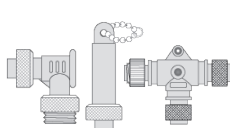
Visit [tpcwire.com/trailer](http://tpcwire.com/trailer) to view our demo video.

# QUICK-CONNEX™

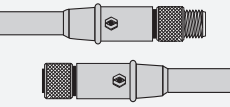
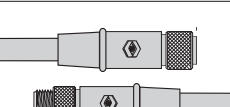
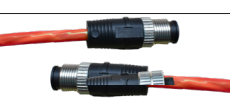

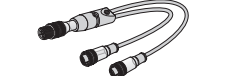
FAMILY OF CORD SETS & CABLE ASSEMBLIES



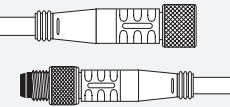
## MINI QUICK-CONNEX™ ASSEMBLIES & ACCESSORIES

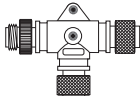

| PRODUCT NAME  |   | RATINGS  | PAGE  |     |
|---|---|--|---|-----|
|    | <b>Mini Quick-Connex™ Cord Sets &amp; Receptacles</b> | <ul style="list-style-type: none"> <li>• UL Recognized</li> <li>• cUL</li> <li>• 600 V</li> <li>• Available in Straight and 90° 16, 14, 12 and 10 AWG with 2, 3, 4, 6, 7, 8, 9, 10 and 12 Pole Configurations</li> </ul>   | <ul style="list-style-type: none"> <li>• IP68 Rated, IP69K Rated</li> <li>• RoHS Compliant</li> <li>• Extreme All-Weather Flexibility</li> <li>• Flame &amp; Heat Resistant</li> </ul>  | 171 |
|    | <b>Quick-Connex™ Quick-Lock Lock-Out Device</b>       | <ul style="list-style-type: none"> <li>• For use as a safety lock-out device</li> <li>• Quick-Lock Cord Set Assembly suitable for use in Class I, Div 2 Hazardous Locations</li> </ul>   | <ul style="list-style-type: none"> <li>• Compatible with Master Lock</li> </ul>   | 175 |
|   | <b>Field Installable Mini Quick-Connex™</b>           | <ul style="list-style-type: none"> <li>• IP67 Rated</li> <li>• RoHS Compliant</li> <li>• 600 V &amp; 300 V</li> </ul>  |   | 192 |
|  | <b>Quick-Connex™ Wiring System Accessories</b>        | <ul style="list-style-type: none"> <li>• 16 AWG 90° Adapter (Available in 2, 3, 4 and 5 Pole)</li> <li>• Male Shorting Plug (Available in 16, 14 and 12 AWG)</li> <li>• 3/3/4 &amp; 4/4/5 Three-Way Receptacles (16 AWG)</li> <li>• 90° Short Elbow (For 16 AWG, 2-12 Pole Cord Sets)</li> </ul> | <ul style="list-style-type: none"> <li>• Closure Cap (For 16, 14, 12 &amp; 10 AWG Cord Sets or Receptacles)</li> <li>• Strain Relief (For 16 AWG, 2-12 Pole Cord Sets)</li> <li>• Grip-Seal® (For 16 AWG, 2-12 Pole Cord Sets)</li> </ul> | 194 |






## MICRO QUICK-CONNEX™ ASSEMBLIES & ACCESSORIES

| PRODUCT NAME  |  | RATINGS   | PAGE  |         |
|---|--|---|---|---------|
|  | <b>M12 DC Micro Single Key Quick-Connex™ with 18AWG Super-Trex® SJOJ Cable &amp; Receptacles</b>             | <ul style="list-style-type: none"> <li>• UL Recognized</li> <li>• cUL</li> <li>• Type SJOJ</li> <li>• IP67 Rated</li> <li>• IP69K Rated (DC Micros Only)</li> <li>• RoHS Compliant</li> </ul> | <ul style="list-style-type: none"> <li>• Max Conductor Temp. 90°C</li> <li>• 18 AWG AC and DC Mini and Y-Splitter</li> <li>• Straight and 90° Configurations</li> <li>• Extreme All-Weather Flexibility</li> </ul>      | 195     |
|  | <b>M12 DC Micro Single Key Quick-Connex™ with Trex-Onics® Cable &amp; Receptacles</b>                        | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• cUL</li> <li>• 300 V</li> <li>• 4 Amps</li> <li>• IP68 Rated</li> </ul>   | <ul style="list-style-type: none"> <li>• RoHS Compliant</li> <li>• Single Key Design</li> <li>• 18 AWG AC and DC Micro</li> <li>• Straight and 90° Configurations</li> <li>• Extreme All-Weather Flexibility</li> </ul> | 203     |
|  | <b>High Temperature M12 DC Micro Quick-Connex™ with Thermo-Trex 600-Plus High Temperature Silicone Cable</b> | <ul style="list-style-type: none"> <li>• Max Conductor Temperature 200°C for both the connector and the cable</li> <li>• Straight and 90 degree configurations</li> </ul>                     |   | 119     |
|  | <b>Field Installable AC &amp; DC Micro Quick-Connex™</b>   | <ul style="list-style-type: none"> <li>• IP67 Rated</li> <li>• RoHS Compliant</li> <li>• DC Single Key (4-5 Pole)</li> </ul>  | <ul style="list-style-type: none"> <li>• AC Dual Key (3 Pole)</li> <li>• 3 Amps DC</li> <li>• 4 Amps AC</li> </ul>  | 216     |
|  | <b>Super-Trex® &amp; Trex-Onics® Y-Splitters</b>   | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• cUL</li> <li>• 300 V</li> </ul>   | <ul style="list-style-type: none"> <li>• IP68 Rated (Super-Trex® Only)</li> <li>• RoHS Compliant</li> <li>• AC &amp; DC Variations Available</li> </ul>   | 217-218 |

# Quick-Connex™

| NANO QUICK-CONNEX™ ASSEMBLIES & ACCESSORIES   |   |   |
|---|---|---|
| PRODUCT NAME  | RATINGS   | PAGE  |
|  <p><b>24 AWG M8 Quick-Connex™ Cord Sets</b></p> | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• CSA</li> <li>• IP68 Rated</li> <li>• RoHS Compliant</li> <li>• Operating Temp. Range -30°C to 90°C</li> <li>• 300 Volt Rated &amp; 4 Amp Rated</li> <li>• Assemblies: Available in Snap-Lock &amp; Threaded Coupling System Configurations</li> </ul> | <ul style="list-style-type: none"> <li>• Nickel Plated Brass Coupling Nut</li> <li>• Gold Plated Copper Alloy Pins</li> <li>• 1 to 6 Meter Std. Lengths</li> <li>• Receptacles: Available in Female, Panel Mounted &amp; Male, Panel Mounted</li> <li>• Receptacles: O-Ring &amp; Locknut Included; Closure Caps w/ Chain Sold Separately</li> </ul> <p>219</p> |

| TREX-ONICS® DEVICENET™ QUICK-CONNEX™ ASSEMBLIES & ACCESSORIES   |  |  |
|---|--|--|
| PRODUCT NAME  | RATINGS  | PAGE   |
|  <p><b>Trex-Onics® Device-Net™ Quick-Connex™ Wiring System Accessories</b></p> | <ul style="list-style-type: none"> <li>• UL Listed</li> <li>• CSA</li> <li>• RoHS Compliant</li> <li>• ODVA Conformity</li> </ul>      | <ul style="list-style-type: none"> <li>• Oil and Shock Resistant</li> <li>• Available in Both Mini and Mini to Micro Configurations</li> </ul> <p>89</p> |
|  <p><b>Trex-Onics® Flex-Net Receptacles for Device-Net™ Applications</b></p>   | <ul style="list-style-type: none"> <li>• RoHS Compliant</li> <li>• Available as Male or Female in Both Mini and Micro Sizes</li> </ul> | <ul style="list-style-type: none"> <li>• Designed to Mate with DeviceNet™ Compatible Plug Connectors and Accessories</li> </ul> <p>91</p>                |

| SPECIALTY MINI & MICRO QUICK-CONNEX™  |   |  |
|---|---|--|
| PRODUCT NAME  | RATINGS   | PAGE   |
|  <p><b>Mini &amp; Micro Retractable Quick-Connex™</b></p>            | <ul style="list-style-type: none"> <li>• RoHS Compliant</li> <li>• 16 AWG Mini – 600 V</li> <li>• 18 AWG AC/DC Micro – 300 V</li> </ul>   | <ul style="list-style-type: none"> <li>• Max Conductor Temp. 90°C</li> <li>• Male/Female Configurations</li> <li>• Extreme All-Weather Flexibility</li> </ul> <p>97, 224</p>   |
|  <p><b>Oval Quick-Connex™ Power Assemblies</b></p>                   | <ul style="list-style-type: none"> <li>• Type W</li> <li>• RoHS Compliant</li> <li>• 600 V</li> <li>• 2 AWG and 6 AWG Available</li> <li>• Superior defense against cutting, tearing, abrasion and impact</li> <li>• Extreme All-Weather Flexibility</li> </ul> | <ul style="list-style-type: none"> <li>• Flame and Heat Resistant</li> <li>• Interchangeable with most Std. Connectors now in use</li> <li>• Seal Protects Against Dust &amp; Liquids and Reduces Carbon Arcing</li> </ul> <p>225, 284</p> |
|  <p><b>Thermo-Trex® 500-Plus Cord Sets</b></p>                       | <ul style="list-style-type: none"> <li>• IP68 Rated</li> <li>• RoHS Compliant</li> <li>• 600 V</li> <li>• 12 AWG and 16 AWG Available</li> <li>• Operating Temperature up to 180°C</li> </ul>   | <ul style="list-style-type: none"> <li>• Resists Corrosion</li> <li>• Provides Quick &amp; Secure Assembly</li> <li>• Excellent for Low Voltage/ Low Level signal applications</li> </ul> <p>122-124, 226-227</p>                          |
|  <p><b>DC Micro Chem-Gard® Quick-Connex™</b></p>                     | <ul style="list-style-type: none"> <li>• 300 V</li> <li>• RoHS Compliant</li> <li>• Max Temperature 90°C</li> <li>• Meets IP68 Requirements</li> <li>• Provides Long Life</li> </ul>  | <ul style="list-style-type: none"> <li>• Resists Corrosion</li> <li>• Easy Positive Engagement</li> <li>• Fully Bonded Head to Seal Against Moisture and Dust</li> </ul> <p>107, 229</p>   |
|  <p><b>DC Micro Stainless Steel M12 Chem-Gard® Quick-Connex™</b></p> | <ul style="list-style-type: none"> <li>• 250 V</li> <li>• Operating Temp. Range -25°C to 85°C (Terminal)</li> <li>• Max Conductor Temp 85°C</li> <li>• Cold Temp Rating -40°C</li> </ul>  | <ul style="list-style-type: none"> <li>• 4 Amp</li> <li>• Abrasion Resistant</li> <li>• Chemical Resistant</li> <li>• Male/Female Configurations</li> </ul> <p>109, 231</p>  |