TEXCAN
A Sonepar Company

THERMOCOUPLE CABLE CATALOGUE
Our Commitment

Our commitment to our customers is simple - we deliver even when others can’t.

As one of Canada’s largest wire, cable and data communication distributors for over 40 years, Texcan supplies solutions for automotive, power distribution, control, industrial automation, commercial, residential, premise wiring and networking applications. Our commitment to superior customer service is the number one reason customers keep coming back.

Our parent company, Sonepar, is a major global electrical distributor, with divisions in 44 countries, 5 continents, over 46,000 associates and 2,800 branches.

Dedicated to Our Customers

Texcan understands that business is done between people. We consider a job finished when the customer is completely satisfied. This approach highlights our commitment to quality and our high level of customer service. This winning combination focuses on a personalized approach to our customers.

Product Expertise and Specialized Services

Texcan has five stocking locations in Western Canada. With over 200 employees, Texcan is able to provide product application expertise, specialized technical assistance and superior sales service to meet our customers’ needs.

We constantly strive to bring value to our customers. We provide:

- An extensive range of stock wire products
- Computerized order processing
- Regionalized bar coded warehousing
- Competitive pricing
- Inventory tracking technology
- JIT inventory

Strategic Partnerships

Texcan has worked hard to develop partnerships with customers and vendors and continues to be committed to developing such strategic alliances. These partnerships provide Texcan with a successful and proven record with some of the largest customers in the pulp and paper, mining, petrochemical, transportation, and communication industries.

Thanks to our relationships with key vendors such as: Prysmian Group, Southwire, Belden, Nexans, Northern Cables, Deca Cables, Marmon Electrical, CMP, and PTI Cables Inc., Texcan is able to offer its customers a diverse selection of quality products. We are confident we can continue to be your successful partner now and in the future.

Over 40 Years of Service
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**To Place an Order** - For many of the products in the catalogue, you will find everything that you need to place an order. Should you need any assistance or require special orders, please contact your sales representative. A complete list of our sales offices can be found on the back cover of this catalogue.
**Introduction**

Thermocouple cable connect a thermocouple, which has sensors for measuring or monitoring temperatures for accurate readings, to instrumentation controls. Depending on makeup features they are robust, durable and suitable for use in a diverse range of applications. The conditions of measurement, including temperature range, environment, response and service life determine the type of thermocouple wire to be used in a specific application.

**Applications**

Thermocouple cables are used for diverse measuring applications, especially in the industrial marketplace. Applications vary from general use, such as Power Generation on electrical equipment, to specific industry use, such as Petroleum processing, Pulp & Paper, OEM as well as Mine sites. Thermocouple cables are suitable for any installation that requires accuracy in above and below ground monitoring of thermocouple applications.

**Specifications**

- CSA FT4
- CSA C22.2 No. 239
- CSA C22.2 No. 230
- CSA C22.2 No. 38
- CSA C22.2 No. 174
- H.L. B, C, D Rated
- Class I Zone 1 (Div 1)
- Class I Zone 2 (Div 2)
- Class II (Div 1)
- Class II (Div 2) Hazardous Locations
- ANSI/MC 96.1
- TC- B, C, D Rated
- H.L. B, C, D Rated

*Refer to CE Code for details

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**CAUTION NOTICE**

In case of fire, well maintained early warning smoke detectors will give an alarm long before non-metallic coverings become combustible. However, the Electrical and Electronic Manufacturers Association of Canada has suggested that all purchasers of PVC insulated / jacketed products be advised of the following:

- Non-metallic coverings of electrical cables can burn and may transmit fire when ignited.
- Burning non-metallic coverings may emit acid gases which are toxic and may generate dense smoke.
- Emission of acid gases may corrode metal in the vicinity e.g. sensitive instruments and reinforcing rods in cement.

The installer and/or user assumes all liability for the consequences of the installation and/or use of any of the products in violation of any applicable law, regulation, or code.
**Thermocouple Cable**
Texcan stocks thermocouple cables in shield, non-shield, armoured, non-armored, stranded as well as solid pairs complete with a variety of insulations and jackets. In addition, stock consists of tray cable approved as well as hazardous location when required for harsh environments.

**XLPE ACIC Type JX** – CSA approved. A solid JX Thermocouple alloys conductor with positive (white) iron, negative (red) copper-nickel/constantan number coded pairs and Cross-Linked Polyethylene (XLPE) Type RW90 insulation. An aluminum/mylar tape shield complete with drain wire (multi-pair only) and an overall aluminum/mylar tape shield with 7 strand drain wire. In addition, these ACIC cables come complete with Aluminum Interlocked Armour (AIA) and a low temperature (-40°C) flame and sunlight resistant Polyvinyl Chloride (PVC) black jacket.

**XLPE TC Type JX** – CSA approved. A solid JX Thermocouple alloys conductor with positive (white) iron, negative (red) copper-nickel/constantan number coded pairs and Flame Retardant (FR), Cross-Linked Polyethylene (XLPE) Type RW90 insulation. An aluminum/mylar tape shield complete with drain wire (multi-pair only) and an overall aluminum/mylar tape shield with 7 strand drain wire. Also a low temperature (-40°C) flame and sunlight resistant Polyvinyl Chloride (PVC) black jacket. These cables are approved for Tray cable applications.

**XLPE ACIC Type KX** – CSA approved. A solid KX Thermocouple alloys conductor with positive (yellow) chromel, negative (red) alumel number coded pairs and Cross-Linked Polyethylene (XLPE) Type RW90 insulation. An aluminum/mylar tape shield complete with drain wire (multi-pair only) and an overall aluminum/mylar tape shield with 7 strand drain wire. In addition, these ACIC cables come complete with Aluminum Interlocked Armour (AIA) and a low temperature (-40°C) flame and sunlight resistant Polyvinyl Chloride (PVC) yellow jacket.

**XLPE TC Type KX** – CSA approved. A solid JX Thermocouple alloys conductor with a positive (yellow) chromel, negative (red) alumel number coded pairs and Flame Retardant (FR), Cross-Linked Polyethylene (XLPE) Type RW90 insulation. An aluminum/mylar tape shield complete with drain wire (multi-pair only) and an overall aluminum/mylar tape shield with 7 strand drain wire. Also a low temperature (-40°C) flame and sunlight resistant Polyvinyl Chloride (PVC) yellow jacket. These cables are approved for Tray cable applications.

**Thermocouple Types**
In this catalog, Texcan references two common types of thermocouple cables used in extension grade; Type KX & Type JX. There are many types of thermocouples, each with its own unique characteristics in terms of temperature range, durability, vibration resistance, chemical resistance, and application compatibility. Type J, K, T, R, & E types are amongst these listings.

*Contact a Texcan Wire and Cable Specialist for a solution that fits your needs.*
XLPE ACIC Thermocouple Cable
300V Type JX XLPE/AIA/PVC

**SPECIFICATIONS**
- CSA FT4
- CSA C22.2 No. 239
- CSA C22.2 No. 38
- CSA C22.2 No. 174
- H.L. B, C, D Rated
- Class I Zone 1 (Div 1)
- Class I Zone 2 (Div 2)
- Class II (Div 1)
- Class II (Div 2) Hazardous Locations
- ANSI/MC 96.1

**CONSTRUCTION**

**Conductor:** Solid JX Thermocouple alloys

**Colour Code:** Positive (white) iron, negative (red) copper-nickel/constantan number coded pairs

**Insulation:** Cross-Linked Polyethylene (XLPE) Type RW90

**Individual Shield:** (Multi-Pair Only) aluminum/mylar tape shield complete with drain wire

**Overall Shield:** Overall aluminum/mylar tape shield with 7 strand drain wire

**Armour:** Aluminum Interlocked Armour (AIA)

**Outer Jacket:** Low temperature (-40°C), flame and sunlight resistant Polyvinyl Chloride (PVC), black

**Suitable For Use In:** 90°C wet, 105°C dry

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<tr>
<th>Part Number</th>
<th>AWG Size</th>
<th>No. of Pairs</th>
<th>Insulation Thickness</th>
<th>Approximate Diameter</th>
<th>Net Weight</th>
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*Note: All dimensions are nominal and are subject to normal manufacturing tolerances. Specifications are subject to change without prior notice. Refer to CEC for Ampacity.*
XLPE TC Thermocouple Cable
300V Type JX XLPE/PVC

SPECIFICATIONS

- CSA FT4
- CSA C22.2 No. 239
- CSA C22.2 No. 230
- CSA C22.2 No. 38
- ANSI/MC 96.1
- TC - B, C, D Rated
- Class I Zone 2 (Div 2)
- Class II (Div 2) Hazardous Locations

CONSTRUCTION

Conductor: Solid JX Thermocouple alloys

Colour Code: Positive (white) iron, negative (red) copper-nickel/constantan number coded pairs

Insulation: Flame Retardant (FR) - Cross-Linked Polyethylene (XLPE) Type RW90

Individual Shield: (Multi-Pair Only) aluminum/mylar tape shield complete with drain wire

Overall Shield: Overall aluminum/mylar tape shield with 7 strand drain wire

Outer Jacket: Low temperature (-40°C), flame and sunlight resistant Polyvinyl Chloride (PVC), black

Suitable For Use In: 90°C wet, 105°C dry

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<th>Part Number</th>
<th>AWG Size</th>
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Note: All dimensions are nominal and are subject to normal manufacturing tolerance.
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* Refer to CEC for Ampacity.
**SPECIFICATIONS**

- CSA FT4
- CSA C22.2 No. 239
- CSA C22.2 No. 38
- CSA C22.2 No. 174
- H.L. B, C, D Rated
- Class I Zone 1 (Div 1)
- Class I Zone 2 (Div 2)
- Class II (Div 1)
- Class II (Div 2) Hazardous Locations
- ANSI/MC 96.1

**CONSTRUCTION**

**Conductor:** Solid KX Thermocouple alloys

**Colour Code:** Positive (yellow) chromel, negative (red) alumel number coded pairs

**Insulation:** Cross-Linked Polyethylene (XLPE) Type RW90

**Individual Shield:** (Multi-Pair Only) aluminum/mylar tape shield complete with drain wire

**Overall Shield:** Overall aluminum/mylar tape shield with 7 strand drain wire

**Armour:** Aluminum Interlocked Armour (AIA)

**Outer Jacket:** Low temperature (-40°C), flame and sunlight resistant Polyvinyl Chloride (PVC), yellow

**Suitable For Use In:** 90°C wet, 105°C dry

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*Note: All dimensions are nominal and are subject to normal manufacturing tolerance.
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* Refer to CEC for Ampacity.
XLPE TC Thermocouple Cable
300V Type KX XLPE/PVC

SPECIFICATIONS

- CSA FT4
- CSA C22.2 No. 239
- CSA C22.2 No. 230
- CSA C22.2 No. 38
- ANSI/MC 96.1
- TC-B, C, D Rated
- Class I Zone 2 (Div 2)
- Class II (Div 2) Hazardous Locations

CONSTRUCTION

Conductor: Solid KX Thermocouple alloys

Colour Code: Positive (yellow) chromel, negative (red) alumel number coded pairs

Insulation: Flame Retardant (FR) - Cross-Linked Polyethylene (XLPE) Type RW90

Individual Shield: (Multi-Pair Only) aluminum/mylar tape shield complete with drain wire

Overall Shield: Overall aluminum/mylar tape shield with 7 strand drain wire

Outer Jacket: Low temperature (-40°C), flame and sunlight resistant Polyvinyl Chloride (PVC), yellow

Suitable For Use In: 90°C wet, 105°C dry

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<th>Part Number</th>
<th>AWG Size</th>
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<td>mm.</td>
<td>in.</td>
<td>mm.</td>
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Note: All dimensions are nominal and are subject to normal manufacturing tolerance.
Specifications are subject to change without prior notice.

* Refer to CEC for Ampacity.
### AWG to Metric Conversion Chart

<table>
<thead>
<tr>
<th>AWG</th>
<th>mm²</th>
<th>AWG</th>
<th>mm²</th>
<th>AWG</th>
<th>mm²</th>
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<tbody>
<tr>
<td>28</td>
<td>0.08</td>
<td>14</td>
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<td>2</td>
<td>33.63</td>
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<tr>
<td>26</td>
<td>0.13</td>
<td>12</td>
<td>3.31</td>
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<td>10</td>
<td>5.26</td>
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<tr>
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<td>8</td>
<td>8.37</td>
<td>2/0</td>
<td>67.44</td>
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<tr>
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<td>6</td>
<td>13.30</td>
<td>3/0</td>
<td>85.03</td>
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<tr>
<td>18</td>
<td>0.82</td>
<td>4</td>
<td>21.15</td>
<td>4/0</td>
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<tr>
<td>16</td>
<td>1.31</td>
<td>3</td>
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### Length Conversions

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<th>From</th>
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<tr>
<td>Kilometers</td>
<td>Miles</td>
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<td>Meters</td>
<td>Feet</td>
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<tr>
<td>Meters</td>
<td>Inches</td>
<td>39.3701</td>
</tr>
<tr>
<td>Meters</td>
<td>Yards</td>
<td>1.0936</td>
</tr>
<tr>
<td>Centimeters</td>
<td>Inches</td>
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<tr>
<td>Centimeters</td>
<td>Feet</td>
<td>0.03281</td>
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<td>Millimeters</td>
<td>Inches</td>
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</tr>
<tr>
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<td>Inches</td>
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### Mass Conversions

<table>
<thead>
<tr>
<th>From</th>
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<th>Multiply By</th>
</tr>
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<tbody>
<tr>
<td>Kilograms</td>
<td>Pounds</td>
<td>2.205</td>
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<tr>
<td>Kilograms</td>
<td>Short Tons</td>
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<tr>
<td>Grams</td>
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<td>Grams</td>
<td>Ounces</td>
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### Temperature Conversions

<table>
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<th>From</th>
<th>To</th>
<th>Multiply By</th>
</tr>
</thead>
<tbody>
<tr>
<td>Celsius</td>
<td>Fahrenheit</td>
<td>(ºC x 9/5 ) + 32</td>
</tr>
<tr>
<td>Fahrenheit</td>
<td>Celsius</td>
<td>(ºF - 32) x 5/9</td>
</tr>
</tbody>
</table>
Our Value Added Services

Cable Management Program
• Competitive contract pricing
• Customer specified tagging requirements
• Customer specified reel sizes
• Custom cut lengths
• Long lengths capability
• Timely product releases
  (reduces on-site storage space and costs)
• Product on-site scheduling
• Custom packing slips
• Bar coded product labels
• Weatherproof reel tags
• Expediting and progress reports

Paralleling
• Offers a contractor a significant installation advantage in a single reel containing multiple phase conductors

Lagging
• A safe method of protecting cables that must be transported through rough terrain involving 2” x 4” lumber ‘lags’ which are fastened across the flanges encasing the cable reel

Pulling Eyes and Bolts
• A pulling line can be attached to the cable when requested to aid in the installation of cables into conduit, tray or duct

Just-In-Time (JIT)
• Just-in-time shipments to job sites across North America through our network of distribution warehouses
• Our stocking, cutting and shipment expertise ensure that your wire and cable requirements are satisfied and project delays eliminated

Customized Cable Solutions
• Special constructions built to customer specifications when requested

Specialized Technical Assistance
• Technical expertise on cable applications, installation procedures, ampcacies, bending radii, terminations and cable selection

International Export Services
• Specialized export services, packaging, labeling, freight consolidation, customs advisory services and adherence to Incoterms 2010

After Hours, Emergency Service
• We understand that our customers’ needs don’t always fall within the course of a normal business day, therefore we provide 24/7 service

Quality Service is Our Source of Pride
Largest Stocked Inventory in Western Canada

Building Wire
- AC90 Armoured Cables
- Fire Alarm Cables
- ACWU Armoured Cables
- NMD90 / NMWU90 Cables
- Solid / Stranded Bare Copper
- RA90 / Armoured Cables CU / AL
- SIMpull Solutions®
- RW90 / RWU 90 CU / AL
- T90 CU / TW75 / TWH / TWU
- LVT

Instrumentation Cables
- Armoured / Non-Armoured
- Hybrid Fiber
- Specialty XPR / RLM

Marine Cables
- Boat Cables
- Shipboard Cables
- Offshore Rig / Marine Cables

Mine Cables
- Blasting Wires
- Mine Power Feeder Cables
- Portable Power Cables
- - Type W, G, GGC, SHDGC (2KV - 35 KV)
- Trailing Cables
- Cable Assemblies
- Vertical Riser Cables

Portable Cables
- High Temperature Cables
- Ultraflex™ Low Temperature Cords
- Ultraflex™ Extension Cords
- Retractable Cords
- Type: SJOW, SOOW, SJTOW, STOW
- Welding Cables
- Stage Lighting
- Landscape Lighting
- Multiconductor

Power Cables
- ACSR / AAC Linewire
- High Voltage Power Cables
- Overhead Service (NS75 / NS90)
- Duplex, Triplex, Quadruplex
- Underground Service
- - USE, USEB
- TECK 90 HL Cables (600V - 35KV)
- Tray Cables
- Power and Control
- Underground Distribution
- Airguard™

Specialty Wire / Products
- Coil Lead Wires
- European Cables (CE & VDE approved)
- 2HR Fire Rated
- VITALink® Fire Resistant
- Teflon® Insulated Wires
- SIS Switchboard Wires
- TEW Equipment Wires
- TR64
- Low Smoke Zero Halogen Cables
- MILspec Hookup Wires
- Tracer Wires
- Utility Hydro Cables
- Split Loom
- Automotive Cables
- Variable Frequency Drive (VFD) Cables
- Thermocouple Wires
- Heat Trace Cables
- Grounding Cables

Specialty Cords / Cables
- Extra Flexible Portable Cables
- Parallel Conductor Cords
- Small Diameter Flexible Control (SDN)
- Traffic Signal Cables CLMTO / IMSA
- Trailer Cables
- Airport Lighting Cables
- Battery Cables
- Diesel Locomotive Cables
- Reeling Cables
- Pendant Cables / Festoon

Custom-Built Cables
- Made to Customer Specifications

Accessories
- Hardware, Lugs, Cable Ties
- 3M Accessories

SIMpull Solutions®
- Maxis® 6K Tugger
- Maxis® 3K Tugger
- Maxis® Grips™
- Qwikrope®
- Swivel
- SIMpull™ REEL
- SIMpull HEAD®
- SIMpull® Flange
- SIMpull™ Cradle
- GRIPit™
- A Frame

VALUE ADDED SERVICES
- Cable Management Program
- Specialized Technical Assistance
- 24/7 Emergency Shipping Service
- International Export Services
- Custom Cables / Printing / Cutting
- Paralleling / Lagging / Tagging
- Bundling / Armouring
- Bar Coding and Inventory Tracking
- State-of-the-Art Distribution Centre