TEXCLINE A Sonepar Company

UNARMOURED MEDIUM VOLTAGE CABLE CATALOGUE

Wire & Cable Specialists

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 40 countries, 5 continents, over 45,000 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, Northern Cables, Deca Cables, 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. Acomplete list of our sales offices can be found on the back cover of this catalogue.



Introduction

Unarmoured Medium Voltage cables are a key component for the distribution and powering of electricity through a broad range of commercial, industrial and utility facilities. CSA and the Canadian Electrical code recognize the need for both Concentric Neutral cables as well as Power Shielded cables in today's applications, because both products have their own unique characteristics.

Concentric Neutral cables are available in both aluminum and copper conductor constructions to provide a variety of applications for distribution networks. Power Shielded cables are available in copper and consist of Copper Tape Shield.



Applications

Unarmoured Medium Voltage cables are suitable for use in multiple industry segments. Installations include above ground, in open air, in conduit, direct buried, in underground duct or suspended aerially with a messenger wire. Typical applications include underground and power feeders where voltages of 5kv to 46kv are required.

Whether it's Concentric Neutral cable for electrical distribution or Power Shielded cable for equipment, Texcan stocks a wide variety of Unarmoured Medium Voltage cable solutions.

Specifications

- CSA FT1 & FT4
- CSA C68.5, C68.10, C96.1
- ICEA S-94-649
- ICEA S-93-639/NEMA WC74
- AEIC CS8

*Refer to CE Code for details

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.



Standard Design Features



Unarmoured Medium Voltage Cable

Unarmoured Medium Voltage include Concentric Neutral cables, Copper Tape cables and Airguard cables. Each cable is available in various constructions.

In this catalog, Texan references common types of Unarmoured Medium Voltage cables. The voltages referenced are up to 35kV, however Texcan stocks a range of 5kV to 46kV

These products are available in a variety of insulations, jackets, voltages, and conductor types. They are suitable for both grounded and ungrounded insulation levels. Texcan also stocks a complete line of accessories to ensure medium voltage terminations are complete.

Concentric Neutral Cables – Used in wet or dry locations, for a wide variety of types of installations. The conductors are typically annealed, bare stranded copper or aluminum. The concentric neutral conductor, from which the cable derives its name, is bare or tin-coated copper wire, applied helically over the insulation shield. These wires act as the metallic component of the shield and the neutral, at the same time. Available in both 1/3rd size neutral or full size neutral.

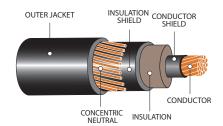


Copper Tape Cables—The basic construction for power cables begins with a conductor of annealed, bare copper which may be compact or compressed. This is followed by an extruded semi-conducting shield applied over the conductor as well as includes an extruded semi-conducting shield over the insulation. Applied over the insulation shield is a copper tape shield. The copper tape's sole purpose is to shield the cable. Power cables carry a low temperature of -40°C and up to a maximum jacket temperature of 105°C.



Concentric Neutral-Copper Conductor

TRXLPE/PVC



SPECIFICATIONS

- CSA Approved
- CSA C68.5
- ANSI/ICEA S-94-649
- AEIC CS8

*Refer to CE Code for details



CONSTRUCTION

Conductor: Bare copper Class B stranded

Insulation: Tree-Retardant Cross-linked Polyethylene (TRXLPE)

Insulation Shield: Extruded semiconducting Thermoset Polymer

Concentric Neutral: Bare copper

Jacket: Polyvinyl Chloride (PVC)** (see notation below)

Options: Aluminum constructions available upon request

Part Number	Voltage	AWO	AWG Size		Insulation	Insulation Thickness	Concentric Neutral		ximate neter	Net W	eight	
		Cond.	Stranding	Neutral Size	Level	in.	mm	Strand & AWG Size	in.	mm.	LB/ MFT	KG/KM
07237-01-010	15kV	2	7	Full	100%	0.175	4.445	16 x 14	1.070	27.178	710	1057
07237-01-011	15kV	2	7	Full	133%	0.220	5.588	16 x 14	1.170	29.718	815	1213
07237-01-013**	15Kv	2	7	Full	100%	0.165	4.191	16 x 14	0.872	22.14	658	979
07237-13-010	15kV	750	61	1/3	133%	0.220	5.588	16 x 8	2.030	51.562	4005	5959
07437-07-011	15kV	250	37	1/3	100%	0.220	5.580	13 x 12	1.58	40.13	2150	3199
07247-01-013**	25kV	1	19	Full	100%	0.260	6.604	20 x 14	1.190	30.226	928	1381
07247-05-011	25kV	3/0	19	1/3	133%	0.320	8.128	22 x 16	1.447	36.753	1303	1939
07247-06-013	25kV	4/0	19	Full	133%	0.320	8.128	20 x 10	1.601	40.666	1974	2937
07247-06-010**	25kV	4/0	19	Full	100%	0.260	6.604	20 x 10	1.540	39.11	1920	2857
07247-07-011	25kV	250	37	1/3	133%	0.305	7.747	21 x 14	1.652	41.96	1801	2680
07237-03-013	28kV	1/0	19	Full	100%	0.280	7.112	26 x 14	1.340	34.030	1156	1721
07237-04-012**	28kV	2/0	19	Full	100%	0.265	6.7321	20 x 12	1.302	33.07	1302	1973
07237-04-013	28kV	2/0	19*	Full	100%	0.265	6.7321	20 x 12	1.302	33.07	1302	1973
07237-06-013	28kV	4/0	19	Full	100%	0.280	7.112	20 x 10	1.799	40.386	1905	2835
07237-06-014	28kV	4/0	19	1/3	133%	0.311	7.89	18 x 14	1.638	41.60	1646	2449
07237-07-013	28kV	250	36	1/3	100%	0.280	7.112	21 x 14	1.580	40.26	1720	2560
07046-12-011**	28kV	500	37	1/3	100%	0.280	7.112	26 x 12	1.590	45.695	2959	4403
07237-15-011**	28kV	1000	58	1/3	100%	0.265	6.7321	32 x 10	2.144	54.45	5268	7839
07047-03-012**	35kV	1/0	19	1/3	133%	0.420	10.670	14x16	1.540	39.360	1154	178

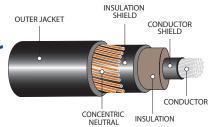
Note: All dimensions are nominal and are subject to normal manufacturing tolerance. Specifications are subject to change without prior notice. *Refer to CEC for Ampacity.
**Part Number Represents Linear Low Density Polyethylene Jacket.





Concentric Neutral- Aluminum Conductor

TRXLPE/LLDPE



SPECIFICATIONS

- CSA Approved
- CSA C68.5
- ANSI/ICEA S-94-649
- AEIC CS8

*Refer to CE Code for details



CONSTRUCTION

Conductor: Compact aluminum Class B stranded

Insulation: Tree-Retardant Cross-linked Polyethylene (TRXLPE) **Insulation Shield:** Extruded semiconducting Thermoset Polymer

Concentric Neutral: Bare copper

Jacket: Linear Low Density Polyethylene (LLDPE)

Options: Copper constructions available upon request

Part Number	Voltage	AWC	Size	Concentric	Insulation	Insulation Thickness		Concentric Neutral		ximate neter	Net W	eight eight
		Cond.	Stranding	Neutral Size	Level	in.	mm	Strand & AWG Size	in.	mm.	LB/MFT	KG/KM
07345-02-010	15kV	1/0	19	Full	100%	0.175	4.445	16 x14	1.083	27.508	643	957
07346-01-010	25kV	1	1	Full	100%	0.260	6.604	13 x 14	1.159	29.439	645	960
07346-02-010	25kV	1/0	19	Full	100%	0.260	6.604	16 x 14	1.257	31.928	766	1140
07437-07-011	25kV	250	37	1/3	100%	0.220	5.580	13 x 12	1.58	40.13	2150	3199
07346-10-010	25kV	500	36	1/3	100%	0.260	6.604	25 x 14	1.676	42.57	1541	2293
07247-12-010	25kV	500	37	1/3	100%	0.260	6.604	17 x 10	1.92	48.77	2985	4442
07346-12-010	25kV	750	58	1/3	100%	0.260	6.604	25 x 14	1.94	49.27	2180	3244
07257-02-011	28kV	1/0	19	Full	100%	0.280	7.112	16 x 14	1.228	31.191	744	1108
07348-03-010	35kV	1/0	18	Full	100%	0.330	8.382	16 x 14	1.404	35.66	897	1334
07348-06-013	35kV	4/0	19	1/3	133%	0.420	10.668	17 x 16	1.756	44.602	1259	1873
07348-12-013	35kV	500	37	1/3	133%	0.420	10.668	25 x 14	2.094	53.188	2025	3013
07348-15-013	35kV	1000	61	1/3	133%	0.420	10.668	31 x 12	2.462	62.535	3145	4680

Note: All dimensions are nominal and are subject to normal manufacturing tolerance. Specifications are subject to change without prior notice.

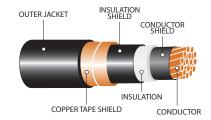
* Refer to CEC for Ampacity.





Copper Tape Shield

TRXLPE/PVC



SPECIFICATIONS

- CSA FT1
- CSA C68.10
- AEIC CS8 (upon request)

*Refer to CE Code for details



CONSTRUCTION

Conductor: Stranded bare copper

Insulation: Tree Retardant Cross-linked Polyethylene (TRXLPE)

Insulation Shield: Extruded semi-conducting conductor shield and insulation shield

Jacket: Polyvinyl Chloride (PVC)

Options: Aluminum constructions available upon request

Part Number	Voltage		AWG Size		Insulation		ation kness	Appro Diam		N Wei	
		Cond.	Stranding	Nominal OD	Level	in.	mm	in.	mm.	LB/ MFT	KG/KM
07011-07-011	5kV	1/0	19	0.340	100%/133%	0.090	2.286	0.810	20.574	545	811
07011-08-011	5kV	2/0	19	0.380	100%/133%	0.090	2.286	0.840	21.336	645	960
07020-03-015	5kV	4/0	19	0.480	100%/133%	0.090	2.286	0.980	24.892	960	1428
07001-12-012	5kV	250	37	0.520	100%/133%	0.090	2.286	1.030	26.162	1110	1652
07011-13-010	5kV	350	37	0.620	100%/133%	0.090	2.286	1.140	28.956	1460	2172
07001-16-012	5kV	500	37	0.740	100%/133%	0.090	2.286	1.260	32.004	1970	2931
07011-19-010	5kV	750	61	0.910	100%/133%	0.090	2.286	1.460	37.084	2855	4248
07031-02-012	15kV	2	7	0.270	100%	0.175	4.445	0.90	22.86	525	781
07031-02-011	15kV	2	7	0.270	133%	0.220	5.588	1.040	26.416	600	893
07031-01-010	15kV	1	19	0.320	133%	0.220	5.588	1.090	27.686	685	1019
07031-03-010	15kV	1/0	19	0.340	133%	0.220	5.588	1.110	28.194	760	1131
07031-04-012	15kV	2/0	19	0.380	133%	0.220	5.588	1.150	29.210	870	1295
07031-06-012	15kV	4/0	19	0.480	133%	0.220	5.588	1.250	31.750	1165	1734
07031-10-010	15kV	250	37	0.520	133%	0.220	5.588	1.320	33.528	1350	2009
07031-12-012	15kV	500	37	0.740	133%	0.220	5.588	1.540	39.116	2250	3348
07031-19-011	15kV	750	61	0.910	133%	0.220	5.588	1.800	45.720	3240	4821
07031-20-011	15kV	1000	61	1.120	133%	0.220	5.588	2.010	51.054	4180	6220
07041-10-014	25kV	250	37	0.520	133%	0.320	8.128	1.530	38.862	1550	2306

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.



Notes



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KCAN Metric Conversions

AWG to Metric Conversion Chart

AWG	mm²	AWG	mm²	AWG	mm²
28	0.08	14	2.08	2	33.63
26	0.13	12	3.31	1	42.41
24	0.20	10	5.26	1/0	53.51
22	0.32	8	8.37	2/0	67.44
20	0.52	6	13.30	3/0	85.03
18	0.82	4	21.15	4/0	107.22
16	1.31	3	26.66	250	126.68

Length Conversions

From	То	Multiply By
Kilometers	Miles	0.06214
Meters	Feet	3.2808
Meters	Inches	39.3701
Meters	Yards	1.0936
Centimeters	Inches	0.3937
Centimeters	Feet	0.03281
Millimeters	Inches	0.03937
Millimeters	Mils	39.3701
Mils	Inches	0.001

From	То	Multiply By
Miles	Kilometers	1.6093
Yards	Meters	0.9144
Feet	Meters	0.3048
Feet	Centimeters	30.48
Inches	Meters	0.0254
Inches	Centimeters	2.54
Inches	Millimeters	25.4
Inches	Mils	1000.0
Mils	Millimeters	0.0254

Mass Conversions

From	То	Multiply By
Kilograms	Pounds	2.205
Kilograms	Short Tons	0.0011
Grams	Grains	15.4323
Grams	Ounces	0.0352

From	То	Multiply By
Pounds	Kilograms	0.4535
Short Tons	Kilograms	907.1848
Grains	Grams	0.0647
Ounces	Grams	28.3495

Length & Mass Conversions

From	То	Multiply By
KG/KM	LBS/MFT	0.6719
LBS/MFT	KG/KM	1.488

Temperature Conversions

From	То	Multiply By
Celsius	Fahrenheit	(°C x 9/5) + 32
Fahrenheit	Celsius	(°F - 32) x 5/9

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

Specialized Technical Assistance

 Technical expertise on cable applications, installation procedures, ampacities, bending radii, terminations and cable selection

Customized Cable Solutions

Special constructions built to customer specifications when requested

International Export Services

 Specialized export services, packaging, labeling, freight consolidation, customs advisory services and adherence to Incoterms 2010

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

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 CablesFire Alarm Cables
- ACWU Armoured Cables
- NMD90 / NMWU90 Cables
- Solid / Stranded Bare Copper
- RA90 / Armoured Cables CU / AL

Connectors

- Armoured Cable Connectors
- Explosion-proof Connectors
- Strain Reliefs Metal & Nylon
- High Voltage Termination Kit
- Tray Cable Connectors

Control Cables

- Portable Control Cables
- Shielded Control Cables
- Custom Bundling / Armouring

Communication

- Computer Cables
- Inside / Outside Plant Wires
- Telephone Cables
- Plenum Cables
- Direct Burial

Data Cables

Electronic Cables

- Plenum Wires
 Precision Video Wires
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 Belden® Classics & NewGen

Fiber Optic Cables

- · SM / MM
- Loose Tube, Tight Buffer
- Indoor / Outdoor / Riser / ADSS

Instrumentation Cables

- Multiconductor / Pairs / TriadsShielded / Unshielded

Marine Cables

Mining Cables

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

- Vertical Riser Cables

Portable Cords

- High Temperature Cables
 Ultraflex™ Low Temperature Cords
 Ultraflex™ Extension Cords
- Retractile Cords
- Type: SJOOW, SOOW, SJTOW, STOW Welding Cables

- Power Cables

 ACSR / AAC Linewire

 High Voltage Power Cables

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 Duplex, Triplex, Quadruplex

Specialty Wire / Products

- European Cables (CE & VDE approved)
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- Teflon® Insulated Wires
- SIS Switchboard Wires

- TEW Equipment Wires
- Low Smoke Zero Halogen Cables
- Milspec Hookup Wires
- Tracer Wires

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 Variable Frequency Drive (VFD) Cables
 Thermocouple Wires
- Heat Trace Cables
- Grounding Cables

Specialty Cords / Cables

- Extra Flexible Portable Cables
- Small Diameter Flexible Control (SDN)
 Traffic Signal Cables CLMTO / IMSA
 Trailer Cables
 Airport Lighting Cables
 Battery Cables

Custom-Built Cables

SIMpull Solutions®

VALUE ADDED SERVICE

- Cable Management Program
 Specialized Technical Assistance
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- Paralleling / Lagging / Tagging
- Bundling / Armouring
- Bar Coding and Inventory Tracking State-of-the-Art Distribution Centre



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