

UTILITY MARKET SOLUTIONS

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SHAWCOR CONNECTION SYSTEMS OFFERS A BROAD RANGE OF SOLUTIONS FOR THE UTILITY MARKET WITH OUR DSG-CANUSA AND SHAWFLEX ELECTRICAL PRODUCTS

In the Electrical and Power Utilities Industry, organizations must be able to rely on products that meet stringent Electrical requirements and are cost effective and readily available. In this demanding electrical utility market, it is imperative that electrical systems stand up to severe conditions and all weather environments.

Shawcor offers an expanding range of solutions to meet your needs with our DSG-Canusa and ShawFlex products. We work with our clients to deliver custom solutions that meet the requirements of their most demanding applications and provide excellent after sales support to ensure complete customer satisfaction.

Being part of Shawcor, a global energy services company with over 6,000 employees in over 20 countries, we combine the resources, expertise and technologies to maintain a reputation that stems from our unparalleled customer service and catalogue of top quality products.

OUR BRAND ADVANTAGES

ShawFlex wire and cable has over 50 years of manufacturing experience with instrumentation, control and low voltage power cables that are used in nearly every type of utility project. These products carry

many industry-leading approvals, are tested to the highest standards, are precisely manufactured to your specification and offer practical advantages for any project.

- Comprehensive catalog of standard cable constructions
- Customized designs for specific project requirements
- High cable counts
- Low minimum order quantities

DSG-Canusa offers IEEE, UL, and CSA certified high performance cable accessories for low and medium voltage applications. Our customer focus and engineering capabilities have enabled us to customize assemblies that fit our customer's unique applications. Additionally, our ISO and Shawcor Lean manufacturing system have enabled us to design and manufacture products to the strictest quality and production requirements.

- Heat and cold shrink cable accessories, including termination and splice kits, tubing, tapes and end caps
- Extensive range of in stock products
- Custom kitting solutions

Medium Voltage Cable Terminations

TITAN Z AND CT SERIES SOLUTIONS FOR 5-35KV APPLICATIONS

Shawcor supplies both Cold Shrink and Heat Shrink medium voltage cable terminations that meet IEEE 48 performance standards. Medium Voltage terminations are used in networks to connect power directly from the electric grid or a generator via transformer or switchgear to control pumps, lighting, motor

drives, measuring instruments, and a wide array of production equipment. Our medium voltage product line includes both Titan Z cold shrink and CT Series heat shrink terminations from 5kV to 35kV allowing contractors the choice of techniques that meet their requirements for performance, cost and schedule.



Medium Voltage Cable Splices

HIGH PERFORMANCE SPLICE SEALING AND PROTECTION SOLUTIONS

Shawcor offers power cable splice solutions for industrial-type cables rated 5 kV through 35 kV. The ready-made splice kits make for fast, reliable system upgrades and new cable installations, and have been factory-designed and independently tested to IEEE 404 performance standards to ensure long service life.

The CJ series heat shrink joints feature continuously extruded

components that restore the specific mechanical and electrical performance of shielded cables with heat-shrinkable tubing and heat-activated sealants to provide positive moisture sealing and mechanical protection.

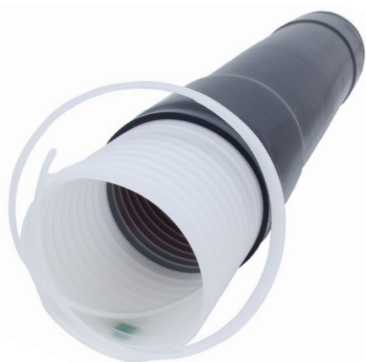
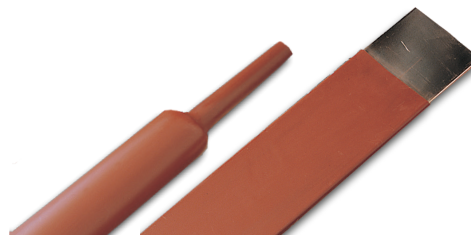
The CSJ cold shrink joints feature a geometric stress control system and are offered as a one-piece compact joint design for quick and easy installation.

Medium Voltage Busbar Tubing

CBTM/CBTH RATED FOR 25/36 KV APPLICATION

Our medium and heavy wall polyolefin based tubing is specially designed for insulating medium voltage busbars in switchgear equipment. The halogen free,

antitrack heat shrink material is UL recognized and is certified to ANSI C37.20.2 standards, providing a high quality solution to busbar insulation applications.



CSS-NET

CABLE LIMITER AND IN LINE SPLICE COVERS

CSS Net cold shrink splice sealing products are made of specially formulated tubular silicon rubber sleeves. They are easy to install and offer excellent insulating and environmental sealing of in line cable connector systems or cable limiter protection applications.

- All in one integrated body, quick and easy to install, no

cutting tools required

- 3:1 shrink ratio for a broad coverage range
- Suitable as a primary insulator up to 1000V
- Suitable for submersible applications, UV and water resistant, tested to ANSI C119.1
- Operating temp of -40 to 105°C

Low Voltage Tubing

INSULATE, SEAL AND PROTECT WITH DSG-CANUSA HEAT AND COLD SHRINK PRODUCTS

Our specially designed low voltage heat shrink and cold shrink tubing and accessories provide superior insulation, sealing and mechanical protection for wire harnesses, busbars, cable splices, connectors and terminations for the most demanding applications.

Core products for general applications are always in stock and include our FCFW, CFM, CFW heavy wall heat shrink, CPX100 and CPA100 thin wall heat shrink, CSS cold shrink tubes, CCB cable breakout boots, and CRDW repair sleeves.



End Caps

CCAP AND CSEC PROTECTION OF CABLE ENDS

DSG-Canusa supplied end caps are used to provide a reliable method of protecting and sealing cable ends or pipe conduits. The end cap product line comes in both heat shrink and cold shrink versions. Our polyolefin based heat shrink end caps are resistant to common

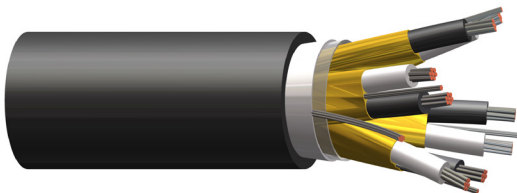
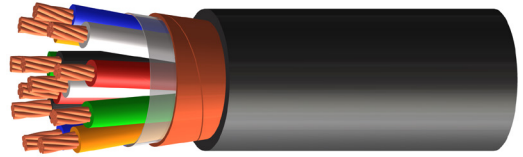
fluids and solvent, with options for fire retardancy and adhesive lining. Our cold shrink end caps are EPDM based and provides a quick, easy and reliable installation without the use of heat sources or mastics to ensure a watertight seal.

Utility Control Cable

CSA/UL TRAY, ICEA WITH MULTIPLE CHOICES OF SHIELDING AND COLOR CODES

Utility control cables are the ideal choice for applications that require an extra level of durability and noise protection in substation applications. Shawcor provides control cable with multiple choices of insulation, color code, shielding options and jacket selections.

- Exposed Run, TC-ER
- FT4/IEEE1202
- Helical or longitudinal 5 mil copper tape as well as copper braiding or Al-Mylar shielding options
- Color-coded per ICEA Method 1, Table E-2
- SUN RES



Utility Instrumentation Cable

CSA CIC/ACIC, UL PLTC WITH HIGH CONDUCTOR COUNTS AND LOW MOQ

Utility instrumentation cable can be used to minimize noise and signal interference by preventing crosstalk between pairs and triads. This cable can be used to convey analog or digital signals. Shawcor provides multiple choices of insulation, color code,

individual and overall shielding (IS/OS) options and jacket selections.

- FT4/IEEE1202
- Low-Temperature Flexibility
- SUN RES
- TC-BCD

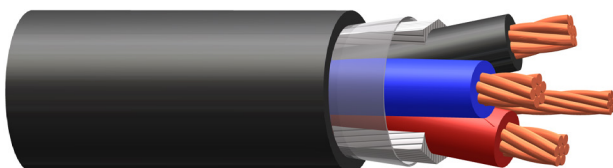
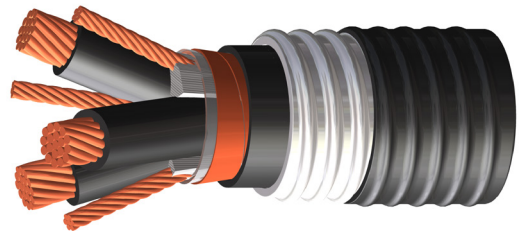
VFD Cable

UL AND CSA VFD CABLE WITH COPPER TAPE SHIELDING AND BALANCED GROUNDS

Shawcor has developed 600V, 1000V, and 2000V, VFD power cable with three balanced grounds and a dual copper tape shield, both with/without interlock armor. These features reduce electromagnetic interference (EMI), common mode or ground

current, and reflected waves for increased motor uptime and reduced maintenance.

- Both Armored and Tray configurations available
- Three balanced grounds
- FT4/IEEE1202



Low Voltage Power Cable

CSA TECK90 TRAY, UL METAL CLAD TRAY CABLE, WITH LOW MOQ, AND LEAD TIME

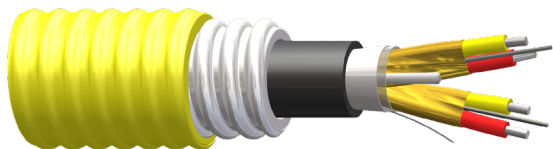
Power cables are used to supply power for lighting, drives, motors, and pumps or operation of control automation equipment. Shawcor manufactures 600V, 1000V, 2000V, and 5000V interlocked armored and unarmored power

cable, for use in indoor and outdoor applications.

- FT4/IEEE1202
- SUN RES
- Low-Temperature Flexibility

Thermocouple Extension Cable

CSA CIC ACIC / UL PLTC CABLE WITH MULTIPLE ALLOY OPTIONS



Shawcor armored and unarmored thermocouple extension cables offer advantages in cost and mechanical properties when used for connections between thermocouples and instruments. A variety of thermocouple conductor

types, such as KX, JX, EX, and NX are offered to suit different temperature ranges.

- KX, JX, EX, SX/RX, NX Type conductors available
- FT4/IEEE1202
- Low-Temperature Flexibility

Insulated Grounding Wire

CSA TC FT4, EASILY INSTALLED FOR EQUIPMENT BONDING/GROUNDING

Protect your investment by bringing your grounding system up to a higher standard. Safe-T-Ground grounding conductors are FT4 rated, protecting your cable tray from flame spread. Suitable for

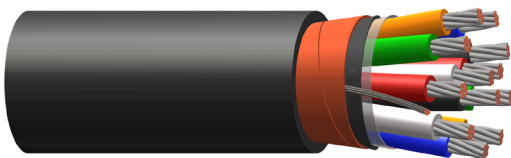
use in direct burial applications.

- FT4/IEEE1202
- - 40°C cold bend/impact rated
- SUN RES



Nuclear Grade Cable

OPERATING LIFE 60 YEARS, CUSTOM TESTING AND QUALIFICATION PROGRAM



Designed specifically for use in the harsh conditions of CANDU® Nuclear Power Plants, ShawFlex's Environmentally Qualified (EQ) Nuclear Cable family raises the bar for safety and system reliability. Qualified to withstand LOCA and MSLB design basis accident conditions, improve safety while reducing risk of corrosion damage to critical assets with Zero-

Halogen polymer compounds.

- Fuel-handling cables, Umbilical cables, and EQ control and instrumentation cables
- Radiation resistance up to 250 Mrad
- Life expectancy qualified for up to 60 years
- IEEE1202/FT4-ST1
- LOCA/MSLB

Engineering Capability

UNIQUE IN-HOUSE DESIGN CAPABILITY, PRODUCT DEVELOPMENT AND PRE-QUALIFICATION TESTING

Shawcor offers customers much more than a catalog of products. Our experts work with your engineers in direct response to your unique technical challenges. You get innovative solutions that are proven dependable, tested to the highest standards

and precisely manufactured to your specifications. We provide the technological leadership and service responsiveness needed to meet all your project deadlines as well as performance requirements.



All information contained in this datasheet is believed to be reliable. We advise however that customers should separately evaluate the suitability of our products for their particular application. Shawcor gives no guarantees in respect to accuracy or sufficiency of the information presented and disclaim any liability regarding its use. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. In no instance will we be liable for any eventual, indirect, or consequential damage or damages arising from the sale, resale, transfer, use or misuse of the product. Subject to modification.

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