



Certificate of Compliance

Certificate: 80222537

Master Contract: 607184

Project: 80222537

Date Issued: August 13, 2024

Issued to: EdisonFlex Wire & Cable
4030 8 Street SE
Calgary, Alberta T2G 3A7
CANADA

Attention: Jonathan Regidor

The products listed below are eligible to bear the CSA Mark shown



Issued by: *Amos Zheng*
Amos Zheng

PRODUCTS

CLASS 5811 01 - CABLE Armoured

Part A: Type AC90, single and multiple-conductor round constructions, rated 90C dry (-25C), 600/1000/2000V, optional FT4-ST1 and -40C, with XLPE insulation, interlocked aluminum armour or steel armour (not for single construction), copper conductor sizes 14 AWG* to 2000 kcmil, aluminum conductor sizes 12 AWG* to 2000 kcmil.

Part B: Type ACWU90, single and multiple-conductor round constructions, rated 90C dry/wet (-25C), 600/1000/2000V, optional FT4, -40C, and SR, with XLPE insulation, PVC outer jacket, interlocked aluminum armour or steel armour (not for single construction), copper conductor sizes 14 AWG* to 2000 kcmil, aluminum conductor sizes 12 AWG* to 2000 kcmil.

Part C: Type ACG90, multiple-conductor round construction, rated 90C dry (-25C), 600V, optional FT4-ST1 and -40C, with XLPE insulation, interlocked aluminum or steel armour, copper conductor sizes 14 to 6AWG, aluminum conductor sizes 12 to 6 AWG.

Part D: Type ACGWU90, multiple-conductor round construction, rated 90C dry/wet (-25C), 600V, optional FT4, -40C, and SR, with XLPE insulation, PVC outer jacket, interlocked aluminum armour, copper conductor sizes 14 to 6AWG, aluminum conductor sizes 12 to 6 AWG.



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Part E: Type TECK90, single and multiple-conductor round construction, rated 90C dry/wet (-25C), 600/1000V, FT1, optional -40C, FT4, SR, with XLPE insulation, PVC inner jacket and PVC outer jacket, interlocked aluminum armour or steel armour (not for single construction), stranded copper sizes 14 AWG* to 2000 kcmil, stranded aluminum conductor sizes 12 AWG* to 2000 kcmil.

*Note: For single conductor cables, the mini. circuit conductor size is 6AWG (Copper) and 4AWG (Aluminum).

APPLICABLE REQUIREMENTS

CSA C22.2 No. 51-20 - Armoured Cables

CSA C22.2 No. 131-17 - Type TECK90 Cable



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MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark, without any adjacent indicators, indicating that products have been manufactured to the requirements of Canadian Standards.

Label Service

This product requires participation in the Label Service Program.

CSA Labels are only available from CSA Group but are applied at the factory.

For types AC90, ACWU90, ACG90 and ACGWU90

On the Finished Products (AC90 and ACG90):

Each length of cable shall have the following markings legibly indented in, or embossed on, the armour at maximum intervals of 1 m:

- Submittor's identification (submittor's name, trademark, or the Master Contract number "607184");
- Type designation "AC90" or "ACG90";
- Optional flame classification: "FT4-ST1";
- Low temperature "MINUS 25°C" or "(-25°C)", "MINUS 40°C" or "(-40°C)", as applicable. Alternatively, the marking may be provided on at least one insulated conductor;
- For aluminum conductors, "ALUMINUM", "ALUM", or "AL". "ACM" may also be marked; and,
- CSA monogram  or word mark "CSA".

Note:

1. Tape markers may be substituted for the indented and embossed markings specified in Items c), d), e);
2. For marking specified in Item e), it shall be durably and legibly surface-ink printed at maximum intervals of 1m on the insulation of single-conductor cables and on at least one of the individual insulated conductors of multi-conductor cables.

On the Finished Products (ACWU90 and ACGWU90):

Each length of cable shall have the following markings durably surface-ink printed, indented, or embossed on the jacket at maximum intervals of 1 m:

- Submittor's identification (as above);
- Type designation "ACWU90" or "ACGWU90";
- Low temperature "MINUS 25°C" or "(-25°C)", "MINUS 40°C" or "(-40°C)", as applicable;



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- d) For aluminum conductors, “ALUMINUM”, “ALUM”, or “AL”. “ACM” may also be marked;
- e) Flame classification: “FT4”;
- f) The weather resistance, indicated by “SUNLIGHT-RESISTANT”, “SUN-RES”, or “SR”, and may also be marked on insulated conductors;
- g) The maximum rated voltage: 600V, 1000V, or 2000V, as applicable; and,
- h) CSA monogram  or word mark “CSA”.

Note: For marking specified in Item d), it shall be durably and legibly surface-ink printed at maximum intervals of 1m on the insulation of single-conductor cables and on at least one of the individual insulated conductors of multi-conductor cables.

Marking on insulation greater than 600 V

Insulated conductors of 1000 V and 2000 V shall be marked with their voltage at maximum intervals of 1 m on the insulation of single-conductor cables and on at least one of the individual insulated conductors of multi-conductor cables.

On coils and reels

Each coil or reel of finished cable shall be tagged or marked legibly to indicate the following:

- a) Submittor’s identification (as above);
- b) The date of manufacture by month and year;
- c) The trade size and number of conductors;
- d) The maximum rated voltage (600V, 1000V or 2000V);
- e) The type designation “AC90”, “ACG90”, “ACWU90” or “ACGWU90”;
- f) For aluminum conductors, “ALUMINUM”, “ALUM”, or “AL”. “ACM” may also be marked;
- g) For single-conductor cables, “CONCENTRIC CONDUCTOR TO BE USED ONLY FOR BONDING”, or equivalent French wording “CONDUCTEUR CONCENTRIQUE À UTILISER POUR MISE À LA MASSE SEULEMENT”;
- h) For compact strand conductors, “COMPACT STRAND”;
- i) For two-conductor cable containing red and black insulated conductors, “RED-BLACK CONDUCTORS”;
- j) For 3-conductor cable with red, black, and blue conductors, “RED-BLACK-BLUE CONDUCTORS”;
- k) The neutral conductor size (AWG or kcmil), if larger than the phase conductors; and,
- l) The CSA Building Wire label or authorized use of the CSA Label Licensing Service.

For type TECK 90

On the Product

Finished products shall be legibly and durably surface ink-printed, indented in, or embossed on the outer jacket with the following information at intervals of not more than 1 m:

- a) Submittor’s identification (submittor's name, trademark, or the Master Contract number “607184”);
- b) Type designation “TECK 90”;
- c) Type of insulation “XLPE”;



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- d) Low temperature “MINUS 25°C” or “(-25°C)”, “MINUS 40°C” or “(-40°C)”, as applicable;
- e) Flame classification: FT1 or FT4, as applicable;
- f) For aluminum conductors, “AL” or “ALUM”. “ACM” may also be marked;
- g) Optional weather resistance, indicated by “Sunlight Resistant”, “Sun Res”, or “SR” on inner jacket, outer jacket, or insulated conductors, as applicable; and,
- h) CSA monogram  or word mark “CSA”.

Note:

- 1. Cables marked “FT4” need not be marked “FT1”.
- 2. For marking specified in Item f), it shall be durably and legibly surface ink-printed on the insulation of single conductor cable and on at least one of the insulated conductors of multi-conductor cables.

On coils and reels

Each coil or reel of finished cable shall be tagged or marked to legibly indicate the following:

- a) Submitter’s identification (as above);
- b) Date of manufacture by month and year;
- c) The conductor size (AWG or kcmil) and number of conductors;
- d) Voltage rating (600V or 1000V, as applicable);
- e) Type designation “TECK90” and type of insulation “XLPE”;
- f) The type of armour (“Aluminum” or “Steel” as applicable);
- g) The cable flame test rating (“FT1” or “FT4”);
- h) The word “ALUM” or “AL” after the conductor size [Item c)] when an aluminum conductor is used. The additional marking “ACM” shall be optional;
- i) For single-conductor cables, the words “CONCENTRIC CONDUCTOR TO BE USED ONLY FOR BONDING/CONDUCTEUR CONCENTRIQUE À UTILISER POUR LA CONTINUITÉ DES MASSES SEULEMENT”;
- j) The words “COMPACT STRAND” if the conductors are compact strand;
- k) Low temperature (“-25°C” or “-40°C”); (see notes)
- l) The words “FOR CONTROL USE” for constructions of four conductors or less with colour coding not in compliance with Table 11 of the referenced Standard;
- m) The number of bonding conductors where more than one is provided; and,
- n) The CSA Building Wire label or authorized use of the CSA Label Licensing Service.

Notes: The low temperature marking is not required on the package if this information is marked on the outer jacket of the cable.

Notes:

Products certified under Class C5811 01 has been certified under CSA’s ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
80222537	August 13, 2024	MULTIPLE LISTING for "EdisonFlex Wire & Cable and Edison Elm Consulting Inc.", Armoured Cable, Type ACGWU90/TECK90/ACG90/ACWU90/AC90; CSA C22.2 No. 51-20 & No. 131-17, C5811-01
Multiple Listing <u>Application/Project No</u> 80222537	<u>Listee Models</u> Type AC90, single and multiple-conductor round constructions, rated 90C dry (-25C), 600/1000/2000V, optional FT4-ST1 and -40C, with XLPE insulation, interlocked aluminum armour or steel armour (not for single construcion), copper conductor sizes 14 AWG* to 2000 kcmil, aluminum conductor sizes 12 AWG* to 2000 kcmil. Type ACWU90, single and multiple-conductor round constructions, rated 90C dry/wet (-25C), 600/1000/2000V, optional FT4, -40C, and SR, with XLPE insulation, PVC outer jacket, interlocked aluminum armour or steel armour (not for single construcion), copper conductor sizes 14 AWG* to 2000 kcmil, aluminum conductor sizes 12 AWG* to 2000 kcmil.	<u>Submittor Models</u> Type AC90, single and multiple-conductor round constructions, rated 90C dry (-25C), 600/1000/2000V, optional FT4-ST1 and -40C, with XLPE insulation, interlocked aluminum armour or steel armour (not for single construcion), copper conductor sizes 14 AWG* to 2000 kcmil, aluminum conductor sizes 12 AWG* to 2000 kcmil. Type ACWU90, single and multiple-conductor round constructions, rated 90C dry/wet (-25C), 600/1000/2000V, optional FT4, -40C, and SR, with XLPE insulation, PVC outer jacket, interlocked aluminum armour or steel armour (not for single construcion), copper conductor sizes 14 AWG* to 2000 kcmil, aluminum conductor sizes 12 AWG* to 2000 kcmil.
		<u>Certification Report No</u> 80169083



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Type ACG90, multiple-conductor round construction, rated 90C dry (-25C), 600V, optional FT4-ST1 and -40C, with XLPE insulation, interlocked aluminum or steel armour, copper conductor sizes 14 to 6AWG, aluminum conductor sizes 12 to 6 AWG.

Type ACGWU90, multiple-conductor round construction, rated 90C dry/wet (-25C), 600V, optional FT4, -40C, and SR, with XLPE insulation, PVC outer jacket, interlocked aluminum armour, copper conductor sizes 14 to 6AWG, aluminum conductor sizes 12 to 6 AWG.

Type TECK90, single and multiple-conductor round construction, rated 90C dry/wet (-25C), 600/1000V, FT1, optional -40C, FT4, SR, with XLPE insulation, PVC inner jacket and PVC outer jacket, interlocked aluminum armour or steel armour (not for single construction), stranded copper sizes 14 AWG* to 2000 kcmil, stranded aluminum conductor sizes 12 AWG* to 2000 kcmil.

Type ACG90, multiple-conductor round construction, rated 90C dry (-25C), 600V, optional FT4-ST1 and -40C, with XLPE insulation, interlocked aluminum or steel armour, copper conductor sizes 14 to 6AWG, aluminum conductor sizes 12 to 6 AWG.

Type ACGWU90, multiple-conductor round construction, rated 90C dry/wet (-25C), 600V, optional FT4, -40C, and SR, with XLPE insulation, PVC outer jacket, interlocked aluminum armour, copper conductor sizes 14 to 6AWG, aluminum conductor sizes 12 to 6 AWG.

Type TECK90, single and multiple-conductor round construction, rated 90C dry/wet (-25C), 600/1000V, FT1, optional -40C, FT4, SR, with XLPE insulation, PVC inner jacket and PVC outer jacket, interlocked aluminum armour or steel armour (not for single construction), stranded copper sizes 14 AWG* to 2000 kcmil, stranded aluminum conductor sizes 12 AWG* to 2000 kcmil.