

CERTIFICATION Informs

An Urgent Bulletin from CSA Group

Ref No: I17-116

Wire and Cable No. 235

(Supersedes Wire and Cable No. 192, Ref No:114-092)

Existing Certification not affected

Date: November 1, 2017

Apply any time to have your products evaluated

Announcing: Publication of CSA standard C22.2 No. 75-17/UL 83, 16th Edition/NMX-J-010-ANCE-2017, 6th Edition - Thermoplastic-insulated wires and cables

Class No: 5832 02, WIRES – Thermoplastic
5832 82, WIRES – Thermoplastic – Certified to US Standards

To purchase the Standard, visit us at www.shop.csa.ca

Who is affected?

Manufacturers of thermoplastic insulated wires and cables.

What do you do?

1. This publication outlines certification revisions that do not affect your currently certified product designs.
2. Please contact CSA technical staff if you have questions or need information concerning this publication and how it applies to you.
3. If you would like to arrange for an evaluation of new products to the revisions, initiate a certification project by contacting our Client Services Centre at 1-866-797-4272. Please supply appropriate supporting documentation*. If testing is needed, we will inform you of the samples required.

*which includes technical information, company name, address, factory locations and CSA file

number or master contract number (if assigned), and any other relevant documentation.

Approvals:

Customers who wish to obtain CSA certification to the new edition may make an application at any time.

Background and Rationale:

CSA Standard C22.2 No. 75-17 was prepared by the CANENA THSC on Building Wires and was reviewed by the CSA Integrated Committee on Fixed Installation Wires and Cable under the jurisdiction of the CSA Technical Committee on Wiring Products and the CSA Strategic Steering Committee on Requirements for Electrical Safety. This CSA standard is a tri-national standard and has also been published for use in the United States as UL 83, 16th Edition and in Mexico as NMX-J-010-ANCE-2017, 6th Edition.

Major Revisions:

See attachment 1 for details.

For questions specific to your file or products contact your CSA Group technical staff associate.

Go to <http://www.csagroup.org/services/testing-and-certification/product-listing/> and enter your Master Contract # and the class numbers associated with this Informs to view your certified products.

For technical questions on this Informs

Contact Evangeline Cometa
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Visit us at www.csagroup.org where you can click on "Contact Us" for the online phone listing of our Offices and Partners.

ATTACHMENT 1

Major Revisions

CLAUSE NO.	MAJOR REVISIONS	REMARKS
4.1 Conductors		
4.1.5.1 Sizes	Revised to clarify that conductor sizes and stranding shall be as shown in Table 1.	
4.1.5.2.2 Concentric	Added definition for concentric conductor.	New
4.1.5.2.6 Length and direction of lay	Revised to permit unilay single input wire to have other than reversed direction of successive layers. Added reference to the Length of Lay test to specify how to determine the length of lay.	
4.1.6.1 Diameter and cross-sectional area	Revised to clarify that there are no diameter requirements for conductor classes not referenced in Tables 4 to 9.	
4.1.7.1 Joints	Added new clause to specify how a joint (butt splice), where allowed, is made.	New
4.1.7.4 Joints	Revised to expand the range of conductors that are permitted to have a joint to include 8.37 mm ² (8 AWG) conductor.	New
4.2 Insulation		
4.2.4 Thickness and centering	Revised to align with the description of the requirements in Table 10.	
5 Test requirements		
5.2.1, 5.2.2 Conductor resistance	Revised to align with <i>CSA C22.2 No. 38/NMX-J-451-ANCE/UL 44 Thermoset insulated wires and cables.</i>	
5.3.1.2 Tests on aluminum conductors (physical properties)	Revised to align with <i>CSA C22.2 No. 38/NMX-J-451-ANCE/UL 44 Thermoset insulated wires and cables</i> as well as to include procedure for referee purpose in case of non-compliance.	
5.5 Long-term insulation resistance in water – acceptance criteria	Revised for clearer interpretation of the long term insulation resistance test procedure and the method of calculating the acceptance criteria using the slope of a least squares best fit straight line curve	Technical clarification
5.6 Long-term insulation resistance in air for 90°C rated conductors		
5.12.3 FV-2/VW-1	Restructured the subclauses to clarify the conditions by which each specimen shall be judged as not capable of conveying flame.	
5.13	Removed the Canadian deviation of 1000 hours for weather resistance test. Weatherometer exposure shall be done at 720 h.	Easement
5.14.1 and 5.14.2	Revised to indicate that a wire that complies with the requirements for PR II shall also comply with those for PR I.	Technical clarification
5.15.1	Revised to specify that the marking is only for wet rated conductors.	Technical clarification
5.18	Revised to state that the maximum number of specimens that are allowed to fail shall be no more than two out of ten specimens	Technical clarification
6 Marking		
6.1.4	Added reference to Table 4 to ensure the correct mm ² value is marked.	
6.1.5	Added new marking requirements for wire employing other than ASTM Class B, C or SIW stranding.	New
6.1.10.1 (d)	Added “FT4/IEEE 1202” marking as an option.	New

CLAUSE NO.	MAJOR REVISIONS	REMARKS
7	Deep-well submersible water pump cable	
7.1 General	Added Note: In Canada the -40°C rating is required as specified in the CE Code, Part I.	
7.3.1 g) and 7.3.2 g) Marking	Clauses should refer to 7.4.5 and 7.4.6	Editorial
7.4	Tests	
7.4.1 General	Clause should read "...the completed cable shall be subjected to the tests set out in Clauses 7.4.2 – 7.4.10"	Editorial
7.4.4 Heat shock	Deep-well submersible water pump cable may be assembled in a number of ways as outlined in clause 7.2.3. These new clauses have been added to clarify requirements for cable assemblies with an overall jacket.	Technical clarification
7.4.5 Cold bend		
7.4.8 FT1 flame test		
7.4.9 Deformation		
7.4.10 Durability of printing		
Table 7	Title has been revised to include single input wire	
Table 10	Title has been revised for clarity.	
Table 27	Added new table for mandrel diameters for heat shock test for deep-well submersible water pump cable	New
Table 28	Added new table for mandrel diameters for cold bend test for deep-well submersible water pump cable	New
Table 34 (previously Table 32)	Added clarification that for 13.3 mm ² and larger, jacket is optional and if present, thickness is not specified.	Editorial