CAN/ULC-S513-11-R2018
(Reaffirmed 2018)

STANDARD FOR THREADED COUPLINGS FOR 38 MM AND 65 MM FIRE HOSE

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The intended primary application of this standard is stated in its scope. It is important to note that it remains the responsibility of the user of the standard to judge its suitability for the particular application.

Copies of this National Standard of Canada may be ordered from ULC Standards.

CETTE NORME NATIONALE DU CANADA EST DISPONIBLE EN VERSIONS FRANÇAISE ET ANGLAISE

Threaded Couplings for 38 mm and 65 mm Fire Hose, CAN/ULC-S513-11-R2018

Second Edition, Dated October 2011

Summary of Topics

This revision of CAN/ULC-S513 is being issued to update the title page to reflect the reaffirmation of this Second Edition National Standard of Canada. No changes in requirements are involved.

The revised requirements are substantially in accordance with Proposal(s) on this subject dated December 12, 2017.

PLEASE NOTE THAT CERTAIN CODES MAY REFER TO A SUPERSEDED VERSION OF THIS STANDARD. IN THOSE INSTANCES, THE RELEVANT VERSIONS ARE AVAILABLE FOR PURCHASE.

Comments, or proposals for revisions on any part of this Standard, may be submitted to ULC Standards at any time. Proposals should be submitted via a Proposal Request in ULC Standards' on-line Collaborative Standards Development System (CSDS) at https://csds.ul.com/canada.

CAN/ULC-S513-11-R2018

STANDARD FOR THREADED COUPLINGS FOR 38 MM AND 65 MM FIRE HOSE

ICS 13.220.10; 65.060.80

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G. Unger (Associate Member)	Underwriters Laboratories of Canada	Canada	Non-Voting
P. Voisine	Department of National Defence	Canada	Regulator
M. Ramlochan	Underwriters Laboratories of Canada	Canada	Non-Voting

This list represents the membership at the time the Committee balloted on the final text of this edition. Since that time, changes in the membership may have occurred.

ULC SUBCOMMITTEE ON QUICK CONNECT COUPLINGS FOR FIRE HOSE

MEMBER	REPRESENTING
M. Firth (Chairman)	Office of the Fire Marshall, Ontario
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J. Carroll	Red Head Brass, Ohio
J. DiFilippo	Kidde Canada Inc., Ontario
D. Ellwood	Ontario Professional Fire Fighters Association, Ontario
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G. Unger	Underwriters Laboratories of Canada, Canada

STANDARD FOR THREADED COUPLINGS FOR 38 MM AND 65 MM FIRE HOSE

PREFACE

This is the Reaffirmation of the Second Edition of the Standard for Threaded Couplings for 38 mm and 65 mm Fire Hose, CAN/ULC-S513.

This Edition of the Standard has been formally approved by the ULC Standards Committee on Fire Protection Equipment and Systems and has been approved as a National Standard of Canada by the Standards Council of Canada.

This Standard has been developed in compliance with the requirements of the Standards Council of Canada (SCC) for accreditation of a Standards Development Organization.

Only metric SI units of measurement are used in this Standard. If a value for measurement is followed by a value in other units in parentheses, the second value may be approximate. The first stated value is the requirement.

Appendix A, identified as Informative, is for information purposes only.

In Canada, there are two official languages, English and French. Attention is drawn to the possibility that some Canadian authorities may require markings and/or installation instructions to be in both official languages.

Attention is drawn to the possibility that some of the elements of this Canadian standard may be the subject of patent rights. ULC Standards shall not be held responsible for identifying any or all such patent rights.

Requests for interpretation of this Standard should be sent to ULC Standards. The requests should be worded in such a manner as to permit a “yes” or “no” answer based on the literal text of the requirement concerned.

This CAN/ULC-S513 Standard is under continuous maintenance, whereby each revision is approved in compliance with the requirements of SCC for accreditation of a Standards Development Organization. In the event that no revisions are issued for a period of four years from the date of publication, action to revise, reaffirm, or withdraw the standard shall be initiated.

Comments or proposals for revisions on any part of the Standard may be submitted at any time. Proposals should be submitted via a Proposal Request in the On-Line Collaborative Standards Development System (CSDS) at https://csds.ul.com/canada.

This Standard is intended to be used for conformity assessment.

1 SCOPE

1.1 This Standard covers threaded couplings for 38 mm and 65 mm fire hose for use in fire protection service.

2 REFERENCE PUBLICATIONS

2.1 The documents shown below are referenced in the text of this Standard. Unless otherwise stated elsewhere in this Standard such reference shall be considered to indicate the edition and/or revisions of the document available at the date on which the Committee approved this ULC Standard.

Documents Published by the American Society for Testing and Materials (ASTM)
100 Barr Harbour Drive, PO Box C700, West Conshohocken, PA 19428-2959 U.S.A.
Telephone: (610) 832-9585
www.astm.org

• ASTM B117-09, Standard Practice for Operating Salt Spray (Fog) Apparatus

3 GENERAL REQUIREMENTS

3.1 Couplings shall be made and finished in a workmanlike manner throughout. Any swivel of the female section shall turn freely by hand. All edges must be chamfered and free from burrs. The tail piece lip shall have a rounded inner edge to prevent cutting of the hose.

4 TESTS

4.1 HARDNESS TEST

4.1.1 Using a ″Rockwell″ Hardness Test Machine, the hardness of the male end and swivel ring shall be determined.

NOTE: This test is to determine that the hardness of the metal is sufficient to assure that the threads will be serviceable.

4.1.2 The part to be tested shall be placed in a ″Rockwell″ Hardness Test Machine and the hardness at four points approximately 90° apart determined on a machined surface of the parts as follows:

A Male end, on the face of the thread end;

B Swivel ring, on the face of the outer end of the ring.

4.1.3 The average hardness for five samples of each part shall be not less than 65 on the Rockwell ″F″ scale.

4.2 CORROSION RESISTANCE

4.2.1 All couplings shall be constructed of corrosion-resistant materials or be protected against corrosion as determined by the Corrosion-Resistance Test.

4.2.2 The male and female ends of the couplings shall be assembled as in service, and shall be subjected to a salt fog corrosion test in accordance with ASTM B117, Standard Practice for Operating Salt Spray (Fog) Apparatus, using a 5% salt solution. The sample shall be exposed for a period of 240 h and the temperature of the sample and the chamber shall be maintained at 33°C to 36°C.