



UL 1

STANDARD FOR SAFETY

Flexible Metal Conduit

UL Standard for Safety for Flexible Metal Conduit, UL 1

Eleventh Edition, Dated February 16, 2005

Summary of Topics

This revision of ANSI/UL 1 dated January 4, 2023 includes Stainless Steel Flexible Metal Conduit (SS FMC) as an EGC per the 2023 NEC; [1.1](#), [4.3.1](#), [6.1](#), [7.1](#), [8.1](#), [9.1](#), [11.1](#), [12.1](#), [14.1](#), [14.2](#), [15.1](#), [16.1.1](#), [17.1.1](#), [17.1.2](#), [17.3.2](#) and [17.4.1](#)

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

The new and revised requirements are substantially in accordance with Proposal(s) on this subject dated October 14, 2022 and December 2, 2022.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form by any means, electronic, mechanical photocopying, recording, or otherwise without prior permission of UL.

UL provides this Standard "as is" without warranty of any kind, either expressed or implied, including but not limited to, the implied warranties of merchantability or fitness for any purpose.

In no event will UL be liable for any special, incidental, consequential, indirect or similar damages, including loss of profits, lost savings, loss of data, or any other damages arising out of the use of or the inability to use this Standard, even if UL or an authorized UL representative has been advised of the possibility of such damage. In no event shall UL's liability for any damage ever exceed the price paid for this Standard, regardless of the form of the claim.

Users of the electronic versions of UL's Standards for Safety agree to defend, indemnify, and hold UL harmless from and against any loss, expense, liability, damage, claim, or judgment (including reasonable attorney's fees) resulting from any error or deviation introduced while purchaser is storing an electronic Standard on the purchaser's computer system.

No Text on This Page

FEBRUARY 16, 2005
(Title Page Reprinted: January 4, 2023)



ANSI/UL 1-2023

1

UL 1

Standard for Flexible Metal Conduit

First Edition – February, 1924
Second Edition – May, 1932
Third Edition – July, 1938
Fourth Edition – June, 1957
Fifth Edition – November, 1971
Sixth Edition – August, 1973
Seventh Edition – March, 1979
Eighth Edition – August, 1985
Ninth Edition – July, 1993
Tenth Edition – March, 2000

Eleventh Edition

February 16, 2005

This ANSI/UL Standard for Safety consists of the Eleventh Edition including revisions through January 4, 2023.

The most recent designation of ANSI/UL 1 as an American National Standard (ANSI) occurred on January 4, 2023. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

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

Our Standards for Safety are copyrighted by ULSE Inc. Neither a printed nor electronic copy of a Standard should be altered in any way. All of our Standards and all copyrights, ownerships, and rights regarding those Standards shall remain the sole and exclusive property of ULSE Inc.

COPYRIGHT © 2023 ULSE INC.

No Text on This Page

CONTENTS

INTRODUCTION

1	Scope	5
2	Units of Measurement	5
3	Undated References	5

CONSTRUCTION

4	Strip Material	5
4.1	Steel.....	5
4.2	Aluminum	5
4.3	Stainless steel.....	5
5	Thickness of Strip.....	5
6	Splices	6
7	Convolutions.....	6
8	Interior Surfaces.....	7
9	Conduit Diameters	7

PERFORMANCE

10	Zinc Coating	9
11	Tension.....	11
12	Flexibility	12
13	Impact Tests (RWPMC).....	12
14	Secureness of Conduit in Fittings Tests.....	13
15	Resistance Test.....	14
16	Fault-Current Test	14

MARKINGS

17	Details.....	15
17.1	Maker	15
17.2	Aluminum.....	15
17.3	Tag	15
17.4	Reduced-wall conduit (RWPMC).....	16
17.5	Extra reduced-wall conduit (XRWPMC)	17