

**ICEA P-79-561**

*Guide for Selecting Aerial Cable Messengers and Lashing Wires*

*Published by*

**Insulated Cable Engineers Association, Inc.  
Post Office Box 1568  
Carrollton, Georgia 30112, USA**

Approved by Insulated Cable Engineers Association, Inc.: 04/01/2013  
Approved by ANSI: 10/14/2013

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## FOREWORD

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ICEA standards and guides are adopted in the public interest and are designed to eliminate misunderstanding between the manufacturer and the user and to assist the user in selecting and obtaining the proper product for his particular need. Existence of an ICEA/NEMA Standard does not in any respect preclude the manufacture or use of products not conforming to the standard. The user of this Standard is cautioned to observe any health or safety regulations and rules relative to the manufacture and use of cable made in conformity with this Standard.

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Insulated Cable Engineers Association  
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An official written interpretation will be provided once approved by ICEA. Suggestions for improvements gained in the use of this Standard will be welcomed by the Association.

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## Section 1

### GENERAL

#### 1.1 SCOPE

This guide has been prepared to facilitate the selection of messengers and lashing wires for both field- and factory-assembled, self-supporting aerial cables.

The cables used for attachment to the messenger shall be suitable for the service and shall be manufactured and tested in accordance with the applicable ICEA Standards and installed in accordance with the applicable provisions of the National Electrical Code (NFPA-70) and/or the National Electrical Safety Code/ANSI Standards Publication No. C2.

This guide does not cover all possible messenger configurations. Reference should be made to other publications for service drop and neutral supported applications.

#### 1.2 UNITS

In this guide, units are expressed in the English system. To convert from an English unit to the appropriate metric unit, multiply the value of the English unit by the appropriate number from the following table:

<u>From</u>	<u>To</u>	<u>Multiplier</u>
inches (in)	millimeters (mm)	25.4
ohms per 1000 feet ( $\Omega/1000'$ )	milliohms per meter ( $m\Omega/m$ )	3.28
square inch (sq in)	square millimeter ( $mm^2$ )	645
thousand circular mils (kcmil)	square millimeter ( $mm^2$ )	0.5067
pounds per square inch (psi)	kilopascals (kPa)	6.89
pounds per foot	newtons per meter	14.6

#### 1.3 REFERENCES

See Appendix A for a complete list of referenced standards by title and date.