

INSULATED CABLE ENGINEERS ASSOCIATION

STANDARD FOR

POLYOLEFIN INSULATED COMMUNICATION CABLES

FOR OUTDOOR USE

Approved by
AMERICAN NATIONAL STANDARDS INSTITUTE
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INSULATED CABLE ENGINEERS ASSOCIATION, Inc.

**ICEA STANDARD FOR
POLYOLEFIN INSULATED COMMUNICATION CABLES
FOR OUTDOOR USE**

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SECTION 1: GENERAL

- 1.1 SCOPE: This Standard covers design requirements for polyolefin insulated communication cables for aerial, duct, and buried applications with and without internal screening. The construction and performance requirements for the following types of cables are included:

Type A: solid insulated and non-filled
 Type F: solid insulated and filled
 Type CF: cellular insulated and filled

While the ultimate method of use and area of utilization is left to the discretion of the end user, the recommended areas of application of each cable type are:

<u>Cable Type</u>	<u>Areas of Application*</u>		
	<u>Aerial</u>	<u>Underground (in Ducts)</u>	<u>Buried</u>
A	R	S**	N
F	S	R	R
CF	S	R	R

*R = Recommended for use
 S = Suitable for use
 N = Not recommended for use

** when properly pressurized

Standard pair counts in which these cable types are normally supplied are given in Appendices A and B.

- 1.2 CABLE DESIGNATIONS: Specific cable constructions shall be identified by referencing the cable type and shield designation shown in Table 1. For self-supporting cables having an integral messenger, the designation "F8" shall be added after the shield identification. For cables containing an internal screen(s), the letters "IS" shall be added at the end of the cable designation.

TABLE 1
CABLE DESIGNATIONS*

TYPE:

A = solid insulated and non-filled cables
 F = solid insulated and filled cables
 CF = cellular insulated and filled cables

SHIELD CONSTRUCTION:

AR = corrugated, resin coated aluminum
 AU = corrugated, uncoated aluminum
 ARF= flat, resin coated aluminum
 5C = corrugated, 5 mil copper
 10C= corrugated, 10 mil copper
 CS = corrugated, copper-clad stainless steel
 CA = corrugated, 194 copper alloy
 ARSR = corrugated, resin coated aluminum plus resin coated steel
 AUSU = corrugated, uncoated aluminum plus uncoated steel

SELF-SUPPORTING CABLE:

F8

INTERNALLY SCREENED CABLE

IS

* Cables may be identified by specifying Type, Shield Construction, and presence of integral messenger and/or internal screen(s).

Examples: Cable Type A-AR is a solid insulated, non-filled cable having a corrugated, resin coated aluminum shield.

Cable Type F-5C-F8 is a solid insulated, filled cable having a corrugated, 5 mil copper shield with an integral messenger.

Cable Type CF-ARSR-IS is a cellular insulated, filled cable having corrugated, resin coated aluminum and steel shields with an internal screen(s).

Cable Type A-ARF-F8-IS is a solid insulated, non-filled cable having a flat, resin coated aluminum shield with an integral messenger and internal screen(s).