INSULATED CABLE ENGINEERS ASSOCIATION

STANDARD FOR

POLYOLEFIN INSULATED COMMUNICATION CABLES FOR OUTDOOR USE

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ICEA STANDARD FOR
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FOR OUTDOOR USE

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ICEA STANDARD FOR POLYOLEFIN INSULATED COMMUNICATION CABLES FOR OUTDOOR USE

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:

	Areas of Application*		
Cable Type	Aerial	Underground (in Ducts)	Buried
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).