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**ICEA STANDARD FOR
BROADBAND TWISTED PAIR CABLE
FILLED, POLYOLEFIN INSULATED, COPPER CONDUCTOR
TECHNICAL REQUIREMENTS**

Published By

INSULATED CABLE ENGINEERS ASSOCIATION, INC.

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ICEA STANDARD FOR BROADBAND TWISTED PAIR CABLE FILLED, POLYOLEFIN INSULATED, COPPER CONDUCTOR

TECHNICAL REQUIREMENTS

SECTION 1 GENERAL

- 1.1 **PURPOSE:** The purpose of this Standard is to establish generic technical requirements that may be referenced by individual telecommunications cable specifications covering products intended for broadband outside plant use. The parameters covered provide material, construction, and performance requirements that are applicable to filled, polyolefin insulated and jacketed cables of limited pair counts, including a variety of shield and jacket combinations.

Because this Standard does not cover all details of individual cable design, it cannot be used as a single document for procurement of product. It is intended to be used in conjunction with an individual product specification that provides complete design details for the specific cable type and designates the applicable performance requirements. Such individual cable specifications may be prepared either by the user or the manufacturer. The specification designated for procurement is at the option of the user.

- 1.2 **SCOPE:** This Standard covers mechanical and electrical requirements for filled broadband twisted pair telecommunications cable with polyolefin insulated copper conductors.

Broadband cables as described in this Standard are primarily intended to supply broadband services from the remote switch to the customer premises. The remote switch in turn is normally supplied by fiber link from the central office. The reach of these systems is a function of the signal to noise ratio, deployed protocol and bit-rate, and may exceed 1000 m (3280 ft). These systems will allow the simultaneous transmission of regular telephone services, computer, fax and several TV channels. The TV services may be interactive or may be High Definition TV.