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Draft IS/IEC 61196-8-1:2023
June 2024

BUREAU OF INDIAN STANDARDS
DRAFT FOR COMMENTS ONLY

Draft Indian Standard

Coaxial Communication Cables –
Part 8: Semi-Flexible Cables with Fluoropolymer Dielectric
Section 1: Blank Detail Specification
(First Revision)

मसौदा भारतीय मानक

समाक्ष संचार केबल –
भाग 8: फ्लोरोपॉलीमर डाइइलेक्ट्रिक के साथ अर्ध-नम्य केबलों
अनुभाग 1: रिक्त विवरण विशिष्टता
(पहला पुनरीक्षण)

ICS 33.120.10

LITD 06 Wires, Cables, Waveguides & Accessories Sectional Committee	**Last Date for Comments:** 10 June 2024

NATIONAL FOREWORD

(Formal clauses will be added later)

This Draft Indian Standard (Part 8/Sec 1) (First Revision) which is identical with IEC 61196-8-1:2023‘Coaxial communication cables – Part 8-1: Blank detail specification for semi-flexible cables with fluoropolymer dielectric’ issued by the International Electrotechnical Commission (IEC) *will be* adopted by the Bureau of Indian Standards on the recommendations of the Wires, Cables, Waveguides & Accessories Sectional Committee and approval of the Electronics and Information Technology Division Council.

This standard was originally published in 2020 and was identical with IEC 61196-8-1: 2012. The first revision of the Indian Standard has been under taken up to align it with the latest version of IEC 61196-8-1: 2023.

This edition includes the following significant technical changes with respect to the previous edition:

a) title changed to "Coaxial communication cables – Part 8: Blank detail specification for semi- flexible cables with fluoropolymer dielectric";
b) new requirements added in Clause 7;
c) "mean characteristic impedance" (see IEC 61196-8:2012, 7.1.5) changed to "Characteristic impedance";
d) Subclause 7.1.6 (see IEC 61196-8:2012) deleted.

The text of IEC Standard *will be* approved as suitable for publication as an Indian Standard without deviations. Certain conventions and terminologies are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words ‘International Standard’ appear referring to this standard, they shouldbe read as ‘Indian Standard’, and

b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this draft adopted standard, reference appears to the following International Standard for which Indian Standard also exists. The corresponding Indian Standard which is to be substituted in its place is listed below along with its degree of equivalence for the edition indicated. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

International Standards	**Corresponding Indian Standard**	**Degree of Equivalence**
IEC 61169-4, Radio-frequency connectors − Part 4: RF coaxial connectors with inner diameter of outer conductor 16 mm (0,63 in) with screw lock − Characteristic impedance 50 Ω (type 7-16)	IS 5054 (Part 4) : 2021 Radio-frequency connectors — Part 4: RF coaxial connectors with inner diameter of outer conductor 16 mm (0,63 in) with screw lock — Characteristic impedance 50 Ω (type 7-16)	Identical with IEC 61169-4 : 2008

IEC 61196-1:2005, Coaxial communication cables – Part 1: Generic specification -General, definitions and requirements	IS/IEC 61196-1 : 2005 Coaxial communication cables — Part 1: Generic specification — General, definitions and requirements	Identical with IEC 61196-1 : 2005
IEC 61196-8:2023, Coaxial communication cables − Part 8: Sectional specification for semiflexible cables with fluoropolymer dielectric	IS/IEC 61196-8 : 2012 Coaxial communication cables — Part 8: Sectional specification for semi-flexible cables with polytetrafluoroethylene (PTFE) dielectric	Identical with IEC 61196-8 : 2012

The technical committee has reviewed the provisions of the following International Standards referred in this draft adopted standard and has decided that they are acceptable for use in conjunction with this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

International Standard	Title
IEC 61196-10:2022	Coaxial communication cables − Part 10: Sectional specification fo semi-rigid cables with fluoropolymer dielectric

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2:2022 ‘Rules for rounding off numerical values (Second Revision)’. The number of significant places retained in the rounded off value should be same as that of the specified value in this standard.

Scope of IEC 61196-8-1:2023 is as follows:

“This part of IEC 61196 applies to coaxial communication cables described in IEC 61196-8. It specifies the requirements of semi-flexible coaxial communication cables with fluoropolymer dielectric and tin soaked copper wire braid outer conductor. These cables are intended for use in mobile communication base station antenna systems, terrestrial microwave communication, radar systems and wireless equipment or other signal transmission equipment or units.

This document determines the layout and style for detail specifications. Detail specifications (DS) can be prepared by a national organization, a manufacturer or a user by entering the details in the blank detail specification.**”**

NOTE−The Technical content of this document has not been enclosed as these are identical with the corresponding IEC Standard. For details please refer IEC 61196-8-1:2023 or kindly contact.

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