***Indian Standard***

# Coaxial Communication Cables –

## Part 8: Semi-Flexible Cables with Fluoropolymer Dielectric Section 1: Blank Detail Specification

***(First Revision)***

***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

**©BIS 2024**

**©IEC 2023**

**भारतीय मानक ब्‍यूरो**

**Bureau of Indian Standards**

**मानक भवन, 9 बहादुर शाह जफर मार्ग, नई दिल्ली - 110002**

**Manak Bhavan, Bahadur Shah Zafar Marg**

**New Delhi – 110002**

[**www.bis.gov.in**](http://www.bis.gov.in)[**www.standardsbis.in**](http://www.standardsbis.in)

**November 2024 Price Group XXXX**

### NATIONAL FOREWORD

This 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) was 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:

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

The text of IEC Standardhas been 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:

1. Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’, and
2. 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.