

**भारतीय मानक ब्यूरो
(केंद्रीय मुहर विभाग III)**

हमारा सन्दर्भ: कें. मु. वि. - III / 16 : आई एस/ 14493 (भाग 5)

01 नवंबर 2024

विषय : संशोधित आई इस 14493 (भाग 5) के अनुपालन हेतु दिशानिर्देश

यह उपरोक्त विषय के सन्दर्भ में है।

सक्षम अधिकारी द्वारा अनुमोदित दिशानिर्देश अनुपालन हेतु संलग्न है।

सभी क्षेत्रीय / शाखा कार्यालयों से अनुरोध है के दिशानिर्देशों का तत्काल प्रभाव से अनुपालन सुनिश्चित करें।

(पीयूष प्रकाश)

वैज्ञानिक - डी (सी एम डी-III)

प्रमुख (सी एम डी-III)

सभी क्षेत्रीय / शाखा कार्यालय

प्रतिलिपि : आई टी एस विभाग - बी आई एस इंटरनेट पर डालने हेतु

**BUREAU OF INDIAN STANDARDS
(CENTRAL MARKS DEPARTMENT III)**

Our Ref: CMD III/16: IS 14493 (Part 5)

01 Nov 2024

Subject: Guidelines for implementation of revised IS 14493 (Part 5)

This has reference to the subject mentioned above.

The Competent Authority has approved the enclosed Guidelines for implementation.

All ROs/BOs are requested to ensure the implementation of the above Guidelines with-immediate effect.

Peeyush Prakash
Sc.-D(CMD-III)

Head (CMD-III)

All ROs/ BOs

Copy to ITSD: for uploading on BIS intranet.

CENTRAL MARKS DEPARTMENT III

Our Ref: CMD III/16: IS 14493 (Part 5)

01 Nov 2024

Subject: Guidelines for implementation of revised IS 14493 (Part 5)

1. The existing IS 14493 (Part 5) : 2018/ IEC 61156-5 : 2012 'Multicore and symmetrical pair / quad cables for digital communications: Part 5 symmetrical pair / quad cables with transmission characteristics up to 1000 MHz - Horizontal floor wiring - Sectional specification' has been revised to IS 14493 (Part 5) : 2023/ IEC 61156-5 : 2020 'Multicore and symmetrical pair / quad cables for digital communications: Part 5 symmetrical pair / quad cables with transmission characteristics up to 1000 MHz - Horizontal floor wiring - Sectional specification (First Revision)'.
2. The major changes in the revised IS 14493 (Part 5) : 2023/ IEC 61156-5 : 2020 with respect to existing IS 14493 (Part 5) : 2018/ IEC 61156-5 : 2012 are indicated below:

Sl. No.	Changes in Indian Standards	Action required for changeover
a)	Reference to ISO/IEC TS 29125 is added in Cl. 1 'Scope'	Informative only, no action required
b)	Reference to IEC 62153-4-3 is added in Cl. 2 'Normative references'	Informative only, no action required
c)	Modification has been made in Cl. 3 'Terms and definitions'	Informative only, no action required
d)	In Cl. 4.3 'Climatic condition' the existing temperature range of '-40°C to +60°C' has been modified to '-20°C to +60°C'	Additional testing not required for existing scope
e)	New requirements have been added at Cl. 6.2.2 'Resistance unbalance between pairs'	Additional test required
f)	Requirements for cables for remote powering is added in Cl. 6.3.3 'Attenuation at elevated operating temperature'	Additional test required
g)	New requirement has been added in Cl. 6.3.4 'Unbalanced attenuation (TCL)' for Level 3 and Level 4	Additional test required
h)	Impedance requirements specified by Case B (Characteristic impedance) has been deleted from Cl. 6.3.10 'Impedence'	No action required
i)	Existing Annex A (informative) 'Acronyms for common cable constructions' has been removed and replaced by Annex A (informative) 'Blank detail specification'	No action required

3. In view of the above changes, the existing Product Manual has been revised as PM/IS 14493

(Part 5)/ IEC 61156-5/2/October 2024. The same can be accessed from BIS website. The manufacturers are required to submit their acceptance to revised scheme of inspection and testing; or submit their own quality assurance plan as per the revised product manual.

4. The guidelines for implementation of the revised Standard are given below:

A. For existing licencees:

- (i) All Licensees shall implement the revised Standard. Any difficulty in implementation shall be brought to the notice of CMD III within 30 days of issuance of these guidelines. BOs shall ensure that no Licences are under operation Standard as per old standard after issuance of the guidelines. The status of implementation of the revised standard shall be confirmed by Head (BO) to CMD-III within two weeks of issuance of the guidelines.
- (ii) In order to establish compliance to the latest Indian Standard, the Licensee manufacturer has to submit in-house/ independent test report as evident to conformity to the applicable clauses of the revised Standard. A suitable undertaking may also be taken for the requirements where compliance is already established and/ or testing is not required.
- (iii) Verification of implementation of the revised standard, to be done during the next visit which shall be completed within one month from the date of submission of compliance by the licensee.

B. For Applicants:

- (i) Applications which are recorded henceforth may be processed as per the revised Standard IS 14493 (Part 5) : 2023/ IEC 61156-5 : 2020.

C. For Inclusions:

- (i) For change in scope of licence, the relevant provisions as given above for Applicants shall apply.

5. The above guidelines shall come into force with immediate effect.

Peeyush Prakash
Sc.-D

Head (CMD III)
DDG (Certification)