OSM/EE DECISION SHEET

Category	Standard:	Clause	Document no.
ITAV	EN 62368-1:2014 + A11:2017 EN IEC 62368-1:2020 + A11:2020 EN IEC 62368-1:2024 + A11:2024	5.4.4.9	OSM-EE 20/2 rev 1

Subject	Key words	Meeting
Upper working frequency for TIW	TIW at frequencies higher than 30 kHz	Online meeting 2020 Helsinki 2024

Question

Solid insulation requirements at frequencies higher than 30 kHz. Increasing the frequency will reduce the electric strength of most insulating materials.

How should we deal with certified TIW used in applications with frequencies higher that 30 kHz, in cases the upper working frequency is not specified in its safety approvals?

Example from Furukawa for their TEX series of triple insulated winding wire. TUV RH and VDE specifies up to 500 kHz.

Decision

For TIW certified to EN 62368-1 without a specification for the upper frequency, may be accepted provided that breakdown electric field strength in clause 5.4.4.9 has been considered

Explanatory notes

In Helsinki 2024, OSM-EE decision 20/2 was modified with following changes:

- add 4th edition of EN IEC 62368-1