



OSM/EE DECISION SHEET

Category	Standard:	Clause	Document no.
ITAV	EN 62368-1:2014 + A11:2017 EN IEC 62368-1:2020 + A11:2020	5.4.4.9	OSM/EE 20/2
Subject	Key words	Meeting	Status
Upper working frequency for TIW	TIW at frequencies higher than 30 kHz	Online meeting 1 April 2020	Approved
Question			
<p>Solid insulation requirements at frequencies higher than 30 kHz. Increasing the frequency will reduce the electric strength of most insulating materials.</p> <p>How should we deal with certified TIW used in applications with frequencies higher than 30 kHz, in cases the upper working frequency is not specified in its safety approvals?</p> <p>Example from Furukawa for their TEX series of triple insulated winding wire. TUV RH and VDE specifies up to 500 kHz.</p>			
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			