



## OSM/EE DECISION SHEET

|   |  |                                  |                      |
|---|--|----------------------------------|----------------------|
| Category  | Standard:  | Clause                           | Document no.         |
| ITAV  | EN IEC 62368-1:2020 + A11:2020<br>EN IEC 62368-1:2024 + A11:2024 | 5.6.4                            | OSM-EE 23/3<br>rev 1 |
| Subject   | Key words  | Meeting                          |                      |
| Size of protective bonding conductor  | Bonding conductor<br>Table 31                                    | Copenhagen 2023<br>Helsinki 2024 |                      |
| Question  |  |                                  |                      |
| For wire Cross Section Area stated in table 31 (mm <sup>2</sup> ), is linear interpolation permitted?   |  |                                  |                      |
| Decision  |  |                                  |                      |
| OSM-EE is of the opinion that linear interpolation of table 31 for mm <sup>2</sup> could be allowed.<br>OSM-EE will forward the question to TC108 HSBTD for confirmation  |  |                                  |                      |
| Explanatory notes   |  |                                  |                      |
| <p>Example:</p> <p>Manufacturer is using AWG10 (5,26mm<sup>2</sup>) protective bonding conductor in the equipment rated 47A. Is the size in line with table 31?</p> <p>Protective bonding conductor of size 4,0mm<sup>2</sup> is required for currents up to 40A and 6,0mm<sup>2</sup> is required for currents up to 63A.</p> <p>Table 31 linear interpolation calculation for 47A gives min. 4.6 mm<sup>2</sup>.</p> <p>Table 31 states that AWG and kcm sizes are provided for information only. It also states that cross-sectional areas in the table have been rounded to show significant figures only.</p> <p>In Helsinki 2024, OSM-EE decision 23/3 was modified based on the feedback from TC108 WG HSBTD during the 2023 fall meeting.</p> <p>The text "Therefore it can be read that linear interpolation might be allowed" was removed from the example.</p> <p><i>TC108 will consider to add the permission for linear interpolation in table 31. Furthermore permission for linear interpolation in other tables should be considered.</i></p> |  |                                  |                      |