

CTL Provisional DECISION SHEET (PDSH)

Standard(s) (incl. year)	Subclause(s)	Tracking No.	Publication date	
IEC 62368-1:2014 ed.2.0 IEC 62368-1:2018 ed.3.0 IEC 60664-1:2020	ANNEX O	2214	2023	
Category				
ITAV				
Subject	Keywords	Developed by	To be approved	
Measurement of creepage distances and clearances	Creepage distance Clearance	ETF2	2023 or 2024 CTL Plenary Meeting	

Question

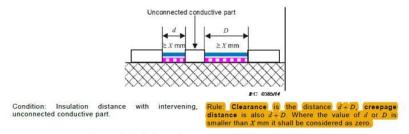


Figure O.4 - Intervening unconnected conductive part

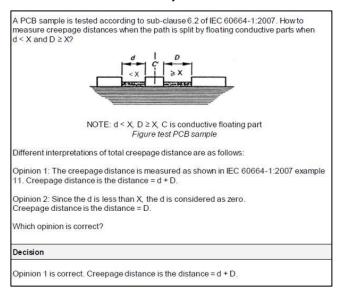
In IEC 62368-1:2014 ed.2.0 Annex O figure O.4, as above, there is an explanation indicates that:

Rule: Clearance is the distance d + D, creepage distance is also d + D. Where the value of d or D is smaller than X mm it shall be considered as zero.

In IEC 62368-1:2018 ed.3.0 Annex O, figure O.4 there is also same expression.

Although, In IEC 60664-1: 2007 and IEC 60664-1:2020, there is no expression in this version of IEC 60664-1:2007 about the situation when d or D smaller than X mm.

But, DSH 2160 clarifies the dilemma as below and you can see the decision sheet screen shot:



Question is, how shall we evaluate clearance and creepage distance according to IEC 62368-1 for unconnected conductive parts (floating conductors)?



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DSH 2160 is to be considered.

Explanatory notes

Figure O.4 is changed in the draft ed 4 of 62368-1, 108/800/FDIS and is in line with DSH 2160 for 60664-1.

IEC TC108 HBSDT San Francisco Nov 2022: Agreement on the OSM EE document 22/5 with the same content.