OSM/IN DECISION

Standard:	EN 60320-1:2015 + COR1:2016 EN 60999-1:2000	**Sub clause:**	EN 60320-1: 12.2 + 22.1 EN 60999-1: 7.2	**Sheet N°:**	OSM/IN 287
Subject:	Cross-sectional area of conductors for testing of clamping units	**Key words:**	Cross-sectional area of conductors	**Meeting N°:** **Inquiry:**	28 (2018) OSM/IN(Inq)174_2018

Question:

According clause 12.2 of EN 60320-1 clamping units of rewirable appliance couplers shall be tested according to EN 60999-1.

According clause 22.1, Table 9 of EN 60320-1 the required cross-sectional area of conductors is as follows:

	Cross-sectional area	
	min.	**for length > 2 m**
10 A	0,75 mm²	1,0 mm²
16 A	1,0 mm²	1,5 mm²

According clause 7.2 of EN 60999-1 the clamping unit shall clamp the two successive smaller cross sectional areas:

7.2 Each clamping unit, if not stated otherwise in the relevant product standard, shall, in addition to its rated connecting capacity, accept at least the two successive smaller cross-sectional areas (e.g. a clamping unit having the rated connecting capacity of 1 mm² shall clamp reliably a conductor of the same type of 0,5 mm², 0,75 mm² and 1 mm²).

	Cross-sectional area of conductors for test of 7.2 of EN 60999-1		
	mm²		
10 A	**0,5**	**0,75**	**1,0**
16 A	**0,75**	**1,0**	**1,5**

In our opinion the test for 10 A with 0,5 mm² or for 16 A with 0,75 mm² is not applicable because this conductor squares are not allowed.

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Proposal:

The tests of clause 7.2 of EN 60999-1 for the clamping units shall be performed with the following conductors:

	Cross-sectional area of conductors for test of 7.2 of EN 60999-1		
	mm²		
10 A		**0,75**	**1,0**
16 A		**1,0**	**1,5**