

P2710

Submitter Email: apd@dmu.ac.uk
Type of Project: New IEEE Standard
PAR Request Date: 09-Dec-2015
PAR Approval Date: 05-Feb-2016
PAR Expiration Date: 31-Dec-2020
Status: PAR for a New IEEE Standard

1.1 Project Number: P2710
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Electromagnetic Shielding Performance of Enclosures for Portable Electronic Devices

3.1 Working Group: Shielding performance of enclosures for portable electronic devices (EMC/SDCom/Shielding of devices)

Contact Information for Working Group Chair

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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Electromagnetic Compatibility Society/Standards Development Committee (EMC/SDCom)

Contact Information for Sponsor Chair

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4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 03/2018

4.3 Projected Completion Date for Submittal to RevCom: 08/2018

5.1 Approximate number of people expected to be actively involved in the development of this project: 15

5.2 Scope: This standard defines the selection of the test method(s) to be used to report realistic shielding performance of the enclosure structures. This approach is proposed so that the growing security requirements of the market, driven by customer demand or technological capability of electronic devices which they use, can be satisfied with appropriate shielding effectiveness tests.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: This standard describes a test framework for the shielding assessment of non-rigid or rigid shielded enclosures used primarily for ensuring that electronic equipment with a communications function is isolated from its external electromagnetic environment. Such structures may be used by inter alia law enforcement agencies, security forces, and corporate entities to ensure that electronic devices encased in these structures are largely unaffected by external radio wave communications. This standard calls out associated standards that deal with the growing number of possible test configurations covering specific structures, communications methods, and test methods.

5.5 Need for the Project: Security and policing agencies are increasingly seizing and interrogating cellular telephones, tablets, lap top computers, etc. as part of their investigations. Upon seizure, there is a need to prevent those devices from sending or receiving signals. Turning the device off would be one solution, but not a desired one as that action could result in loss of valuable data. Similarly, those agencies may need to analyze the data stored on the device immediately. As a result, (usually flexible) bags and pouches are required to store the equipment, which may have a shielded semi-transparent window. As there can be a security or safety concern with these structures (many improvised explosive devices (IEDs) are triggered from cellular telephones, for example) reliable techniques to determine and compare shielding performance are required. Alongside security and policing functions, corporate entities are increasingly requiring communications electronics, such as cellular telephones, to be isolated during sensitive operations. The techniques described in this standard have equal applicability for bags, pouches, and other similar structures. Similarly, concerns about identity theft are seeing the development of products for individuals to

screen such things as credit cards. Tests to be described in this standard would have applicability to these products.

5.6 Stakeholders for the Standard: Security and policing agencies, corporate property protection entities, manufacturers of shielded bags, pouches, and related structures where isolation of electronics with a communications function is required.

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: Yes

If yes please explain: Existing standards and publications

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes (Item Number and Explanation):