



Public Input No. 1838-NFPA 70-2014 [New Part after IV.]

TITLE OF NEW CONTENT

725.170 Listing and Marking of Equipment. The listed power source for circuits intended to provide power and data over Class 2 cables to remote equipment shall be as specified in 725.121(A)(1), (A)(2), (A)(3), or (A)(4). The power sources shall not have the output connections paralleled or otherwise interconnected unless listed for such interconnection. Powered devices connected to a circuit supplying data and power shall be listed. Nameplate ratings shall include rated voltage and current.

Statement of Problem and Substantiation for Public Input

The installation and application requirements of conductors and cables in Article 725 are based on the use of listed power sources. There are systems on the market that provide power and data using Class 2 cables. An example of such a system is Power over Ethernet.

The dry cell identified in 725.121(A)(5) is not suitable for requiring name plate ratings.

The inclusion of nameplate ratings is new, but important for the authority having jurisdiction and for system enhancements.

Related Public Inputs for This Document

| <u>Related Input</u> | <u>Relationship</u> |
|---|---|
| Public Input No. 1839-NFPA 70-2014 [Section No. 840.1] | Expands scope of Article 840 to correlate with the title. |
| Public Input No. 2365-NFPA 70-2014 [Section No. 725.179 [Excluding any Sub-Sections]] | LP cable listing requirements |
| Public Input No. 2366-NFPA 70-2014 [New Section after 725.179(K)] | LP cable listing requirements |
| Public Input No. 2269-NFPA 70-2014 [Section No. 840.170] | New listing requirements for cable and equipment |
| Public Input No. 1836-NFPA 70-2014 [Section No. 725.154 [Excluding any Sub-Sections]] | Applications of LP cable |
| Public Input No. 1837-NFPA 70-2014 [New Section after 725.154(C)] | Applications of LP cable |
| Public Input No. 1861-NFPA 70-2014 [New Section after 840.154] | Powering comm equipment over comm cables |
| Public Input No. 1836-NFPA 70-2014 [Section No. 725.154 [Excluding any Sub-Sections]] | |
| Public Input No. 1837-NFPA 70-2014 [New Section after 725.154(C)] | |
| Public Input No. 1839-NFPA 70-2014 [Section No. 840.1] | |
| Public Input No. 1861-NFPA 70-2014 [New Section after 840.154] | |
| Public Input No. 2269-NFPA 70-2014 [Section No. 840.170] | |
| Public Input No. 2365-NFPA 70-2014 [Section No. 725.179 [Excluding any Sub-Sections]] | |
| Public Input No. 2366-NFPA 70-2014 [New Section after 725.179(K)] | |

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Committee Statement

Resolution: Listing of Class 2 power sources is adequately covered in 725.121(A). Section 725.121(B) provides that same requirements to not permit the output connections of Class 2 sources in parallel or otherwise interconnected unless listed for such interconnection. Nameplate ratings for Class 2 power sources are adequately covered in Table 11(A) and Table 11(B) in Chapter 9, as well as the listing requirements based upon 725.121(A)(1) and (2). Providing nameplates for Class 2 power sources located within listed equipment or within listed information technology equipment would be difficult since Class 2 power sources are part of the listed equipment.