

7830102 ITS - FIBER OPTIC CABLE AND INTERCONNECT  
COMMENTS FROM INDUSTRY REVIEW

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Comment:

783-1.2.4 Patch Panels Comment #1

The proposed specification revision calls out a maximum "Ensure patch panel dimensions do not exceed of 14 x 6 x 4 inches. Ensure the patch panel is suitable for mounting an approved cabinet at the field device location."

This rigid dimension is impractical and does not allow for accommodating to large fiber counts that are encountered at specific locations in FDOT ITS & ATMS networks. With this stringent dimension, there would instances where an integrator would not be able to meet Manufacturer bending radius and performance tolerances; also there are several existing sites in Florida where fiber cable counts exceeding 12F land which require greater sizes to hold required connector panels to allow for those counts. Nor does it allow for competition in off the shelf products in the industry.

We suggest a modification to "Ensure patch panel for wall mount and rack mount applications are sized to accommodate specified coupler housings and meet manufacturer bend radius of cable to maintain optical perform. Ensure the patch panel is suitable for mounting in approved field device cabinet with minimum space utilization to accommodate fiber capacity requirements."

Response:

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Comments:

In regards to Spec 7830102, paragraph 783-1.4.2.1, shouldn't the spec be clarified to say: (0.4 db/km for 1310 nm wavelength, 0.3 db/km for 1550 nm wavelength, plus 0.5 db for any connectors and 0.1 db for splices)

Otherwise the values may be interpreted as a frequency rather than the length of the wave. The wavelength of a signal at 1310 Hz is much longer than 1310 nm and likewise for 1550 Hz.

Response:

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Comments: (1-12-10)

Suggest also modifying 783-3.3 to change the reference to Index 17721 to Index 18204

Response:

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