

# USB Type-C ENGINEERING CHANGE NOTICE

**Title: Metal Bull Nose Definition**

**Applied to: USB Type-C™ Cable and Connector Specification**

**Revision 1.3, July 14, 2017**

<b>Brief description of the functional changes proposed:</b>
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Mandate the plug metal bull nose. No plastic tip permissible on the plug.
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<b>Benefits as a result of the proposed changes:</b>
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There are two benefits associated with this proposal:
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| <ol style="list-style-type: none"><li>1. The metal bull nose will notably reduce the possibility of not having ground touch first upon insertion of plug inside the receptacle</li><li>2. The metal bullnose will increase the structural integrity of the plug in extreme load case conditions</li></ol> |
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<b>An assessment of the impact to the existing revision and systems that currently conform to the USB specification:</b>
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The plugs that have plastic bull nose need to replace their design and tools to accommodate a metal bull nose.
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<b>An analysis of the hardware implications:</b>
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The receptacle connector supplier is unaffected by this change. The impact depends on tooling status of individual plug suppliers. The plug metal shell and plug housing needs to change to accommodate the change in the specification. Most of the plugs and major plug manufacturer's surveyed at the time of submission do comply with this specification change and hence no effect on their parts.
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<b>An analysis of the software implications:</b>
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None.
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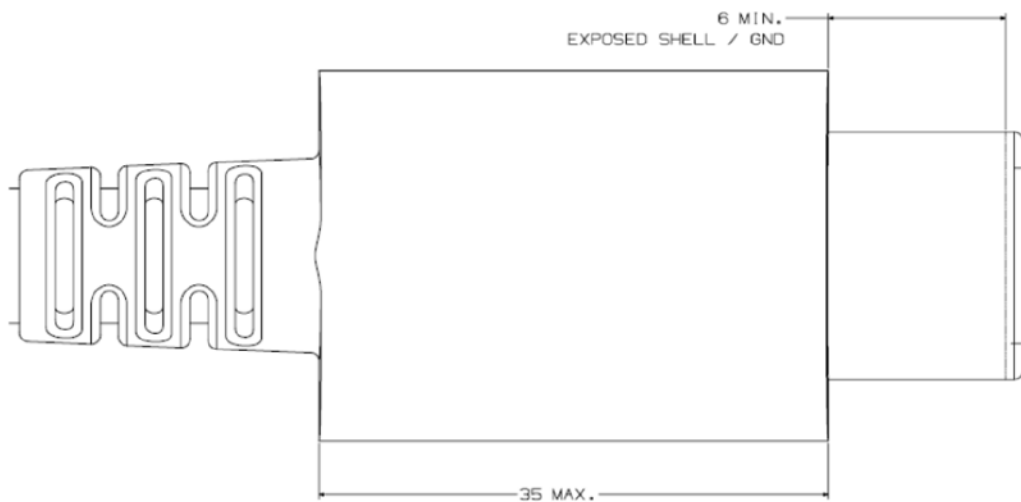
<b>An analysis of the compliance testing implications:</b>
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The inspection of dimensions should confirm no plastic tips.
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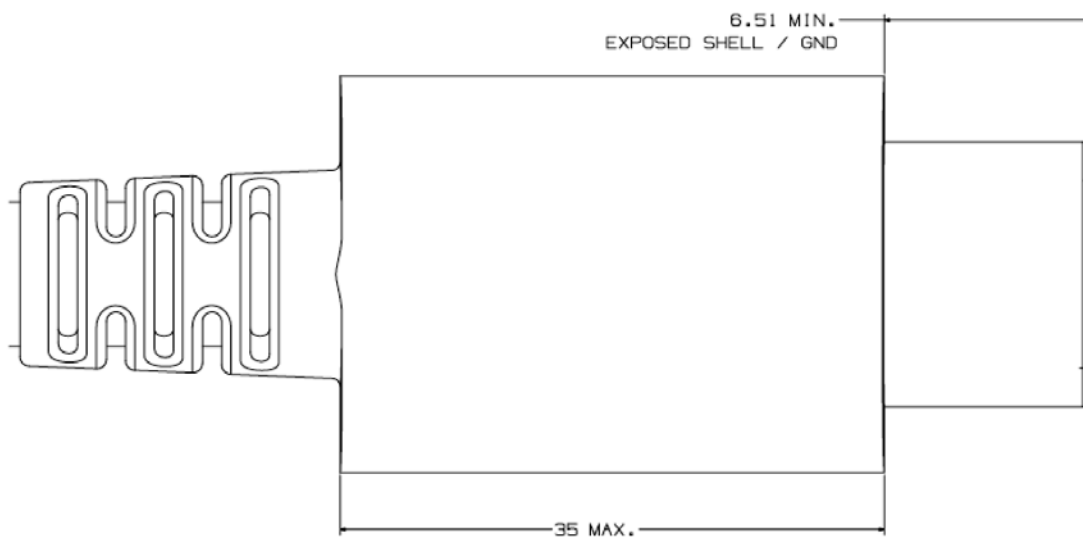
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## Actual Change Requested

Figure 3-3 USB Full-Featured Type-C Plug Interface Dimensions and Figure 3-9 USB 2.0 Type-C Plug Interface Dimensions are:

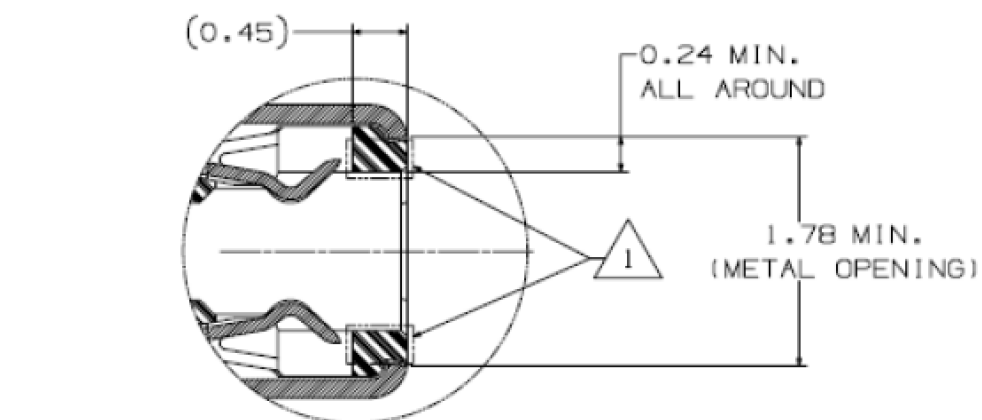


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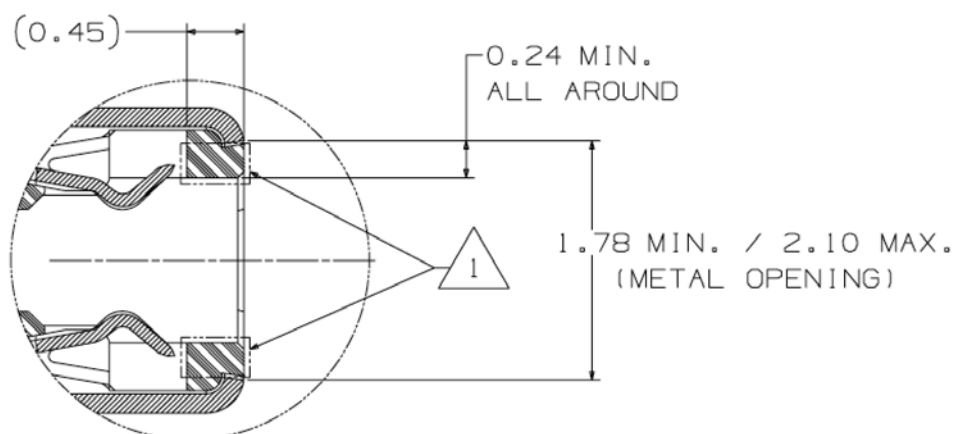
Figure 3-3 USB Full-Featured Type-C Plug Interface Dimensions, cont. is:



△ 1 INSULATOR ZONE:  
NO METAL PERMISSIBLE WITHIN INDICATED AREA

DETAIL H

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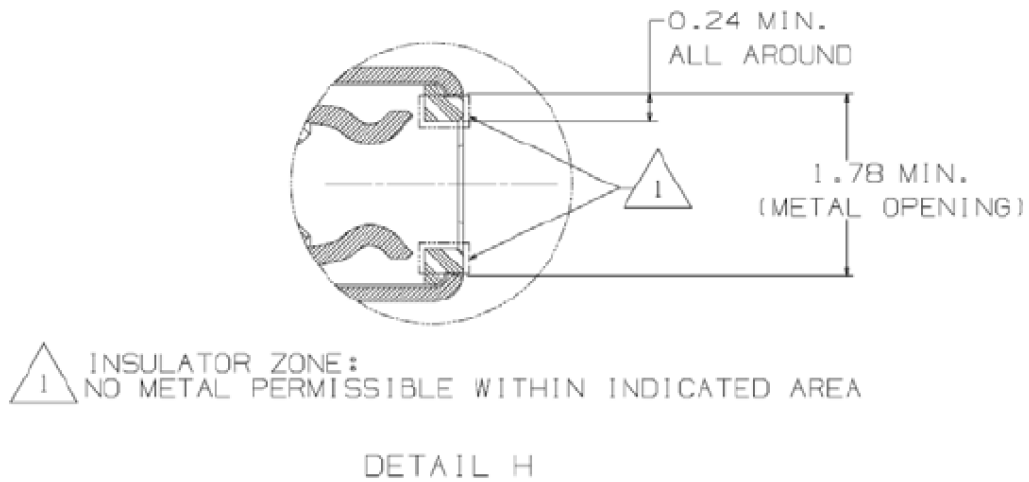


△ 1 INSULATOR ZONE:  
NO METAL PERMISSIBLE WITHIN INDICATED AREA

DETAIL H

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Figure 3-9 [USB 2.0](#) Type-C Plug Interface Dimensions, cont. is:



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