PCS Conduits – Change in Proprietary Material Mixture

Expertise in materials technology has been a major factor in PMA® becoming a market leader for cable protection systems in railway applications.

PMA® proprietary material mixtures use modifiers added to the basic polyamide 12 or polyamide 6 material to adjust conduit performance characteristics, such as impact resistance, UV resistance, flexibility, and flame retardance. The use of these additives requires considerable specialist knowledge and extensive testing to attain the highest performance characteristics.

This expertise in formulation becomes particularly important when changes in market conditions force adaptations to be made.

Due to shortages that have arisen in chemical supply markets, leading to the lack of availability of some additives, PMA will change the material mixture used for the PCS and PCSL conduits to continue to fulfil all statutory requirements and to maintain a constant product supply.

The new raw material mixture for the PCS and PCSL conduits, fulfils the HL2 requirements of EN45545-2 and has excellent mechanical, environmental and aging characteristics. Please see the new modified data sheet attached. There will be minor visible differences in color and gloss compared to the previous product. Note that the PCS and PCSL conduits are not certified to NFPA 130.

For applications that require certification to NFPA 130, we recommend the use of the new PMA multilayer rail conduit XPCS (EN45545-2 HL2 and NFPA 130). The XPCSF multilayer rail conduit is recommended for applications requiring a HL3 classification according to EN45545-2. Data sheets for the two new multilayer conduits are also attached.

Please be assured that we are bringing all our extensive expertise to bear to ensure that we continue to supply you with high quality products that meet all applicable standards, despite challenging supply markets. Thank you for your continued business and support.

Ricardo Portillo
Director Global Product Manager
Flexible Conduit Systems

Ricardo Portillo
Product Change Notification
PCN_292_18.05.30_002_PCS, PCSL

<table>
<thead>
<tr>
<th>PCN Details:</th>
<th>All PCS and PCSL conduits in black, grey and orange.</th>
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<tr>
<td>PCN Document No.</td>
<td>292_18.05.30_002_PCS, PCSL</td>
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<tr>
<td>PCN issued by:</td>
<td>Global Product Management</td>
</tr>
<tr>
<td>Product Manager:</td>
<td>Philip Allington</td>
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<tr>
<td>Plant Manager:</td>
<td>Gilbert Stadler</td>
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</tbody>
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Dear Valued Customer,

As a follow-up to our communication issued on Aug. 2018, regarding material composition and certifications in our product families PCS and PCSL, we are issuing the following Product Change Notification.

PCS and PCSL conduits in black, grey and orange are affected by this PCN:

New material will comply with EN45545-2 HL2 and will not be certified to NFPA 130

Old material that complies to EN45545-2 HL2 and is NFPA 130 certified becomes obsolete effective Aug. 20, 2018. Please refer to the technical data sheets for PCS, PCSL and PCS XO conduits at www.pma.ch

In order to clarify the distinction between the OLD and NEW material, we are implementing the following identification methods that will be in effect until October 2019:

Abb

Product Specification Change
This material complies with EN45545-2 HL2 and will not be certified to NFPA 130.

If you have any concerns about this PCN, please contact your local ABB sales office.

Orders placed for any part numbers in the product families PCS, PCSL and PCS XO will be affected by this PCN.

Customers who do not require NFPA 130 product certification might receive OLD and NEW product while inventory of the OLD product lasts.

If you wish NOT to receive mixed product, please inform your sales representative immediately.
If you require products with NFPA 130 certification, please refer to XPCS conduits.
If you have any concerns about this PCN, please contact your local ABB sales office.

Uncontrolled if printed, valid on 03/09/18 only, For latest information check www.abb.com
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