GENERAL DESCRIPTION
Designed to simplify the connection process, the new 6791 series wire to board connectors for coaxial cables enable simple termination with one press. Expanded the proven-reliable IDC (Insulation displacement connector) from signal/power transmission to high frequency transmission field up to 6GHz, the IDC contact pierces the jacket and insulation of the cable and makes direct contact with the strands and conductor of the wire at the same time. Comparing with direct soldering the soldering quality is no more depending on operator's skill which is hard to be unified and controlled. Hand soldering is now not preferred/allows in automotive field. Comparing with costly traditional 2-piece solution which is generally taller than 10mm, the new 6791 Series offers a cost-effective solution and the on board height in less than 5mm after the cap is pressed. Process to prepare coaxial cable with a 2-piece connector is time consuming and costly, with the launch of the new 6791 series the process is now simplified and the cost is reduced.

APPLICATIONS
- The connector comes in multiple types for different coaxial cables.
- Small package size and mechanical strength allows usage in automotive and industrial antenna applications
- Reference Application Notes 201-01-214

ELECTRICAL
- Current Rating: 0.5 Amps (Current limit is cable dependent)
- Voltage Rating: 125Vac

ENVIRONMENTAL
- Operating Temperature: -40ºC to +105ºC

HOW TO ORDER
Prefix 00 Series 6791 No. of Ways 001 = 1 Description 00X Plating 005

IDC COAX CABLE SIZE

<table>
<thead>
<tr>
<th>Component</th>
<th>Diameter (mm)</th>
<th>001</th>
<th>003</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lower Limit</td>
<td>Upper Limit</td>
<td>Lower Limit</td>
</tr>
<tr>
<td>Conductor</td>
<td>0.43</td>
<td>0.54</td>
<td>0.46</td>
</tr>
<tr>
<td>Dielectric</td>
<td>1.44</td>
<td>1.68</td>
<td>1.45</td>
</tr>
<tr>
<td>Braid Shield</td>
<td>1.84</td>
<td>2.08</td>
<td>1.85</td>
</tr>
<tr>
<td>Jacket</td>
<td>2.33</td>
<td>2.60</td>
<td>2.70</td>
</tr>
</tbody>
</table>

FEATURES AND BENEFITS
- Can replace costly traditional RF connector systems
- Good RF performance up to 6GHz
- Mechanically strong with peel off force up to 70N
- Easy assembly process with ability to automate

MECHANICAL
- Insulator Material: Glass-Filled Nylon 46; UL94V-0
- Contact Material: Copper Alloy
- Plating: Lead-Free Tin Over Nickel

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NOTE: JACKET STOP OD DEFORMED MUST BE THAN LESS Ø2.75mm AFT Guitar Off.

APPLICABLE COAXIAL CABLE DIMENSIONS:

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>DIAME. T&amp;F (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LOWER LIMIT</td>
</tr>
<tr>
<td>(1) CONDUCTOR</td>
<td>Ø0.43</td>
</tr>
<tr>
<td>(2) DIELECTRIC</td>
<td>Ø1.44</td>
</tr>
<tr>
<td>(3) BRAID SHIELD</td>
<td>Ø1.84</td>
</tr>
<tr>
<td>(4) JACKET</td>
<td>Ø2.33</td>
</tr>
</tbody>
</table>
00 6791 001 001 005

NOTE:

1. MATERIAL:
   - REEL: BLUE PS
   - CARRIER: BLACK PS
   - COVER TAPE: TRANSPARENT PE

2. DIMENSION:
   - REEL SIZE:
     - Ød=330mm, W=24mm

3. QUANTITY:
   - 850PCS/REEL

4. HUMIDITY REQUIREMENTS FOLLOW MSL LEVEL 3

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