Part Number: 9116P
CATV Video, RG6, #18 Solid BCCS, Foil + 60% Braid, CMP

Product Description
Series 6, 18 AWG solid .040" bare copper-covered steel conductor, plenum, foam FEP insulation, Duobond® II, aluminum braid shield (60% coverage), Flamarrest® jacket.

Technical Specifications

Product Overview

<table>
<thead>
<tr>
<th>Environmental Space:</th>
<th>Indoor - Plenum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitable Applications:</td>
<td>CATV, Broadband</td>
</tr>
</tbody>
</table>

Physical Characteristics (Overall)

Conductor

<table>
<thead>
<tr>
<th>AWG</th>
<th>Stranding</th>
<th>Material</th>
<th>Nominal Diameter</th>
<th>No. of Coax</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>Solid</td>
<td>BCCS - Bare Copper Covered Steel</td>
<td>0.04 in</td>
<td>1</td>
</tr>
</tbody>
</table>

Conductor Count:

1

Insulation

<table>
<thead>
<tr>
<th>Material</th>
<th>Nominal Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>FFEP - Foam Fluorinated Ethylene Propylene</td>
<td>0.17 in</td>
</tr>
</tbody>
</table>

Outer Shield Material

<table>
<thead>
<tr>
<th>Type</th>
<th>Layer</th>
<th>Material</th>
<th>Material Trade Name</th>
<th>Coverage [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tape</td>
<td>1</td>
<td>Aluminum/Polyester/Aluminum</td>
<td>Bonded Duofoil® (Bonded to Dielectric)</td>
<td>100 %</td>
</tr>
<tr>
<td>Braid</td>
<td>2</td>
<td>AL - Aluminum</td>
<td></td>
<td>60 %</td>
</tr>
</tbody>
</table>

Outer Jacket Material

<table>
<thead>
<tr>
<th>Material</th>
<th>Material Trade Name</th>
<th>Nominal Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS PVC - Low Smoke Polyvinyl Chloride</td>
<td>Flamarrest®</td>
<td>0.235 in</td>
</tr>
</tbody>
</table>

Electrical Characteristics

Conductor DCR

<table>
<thead>
<tr>
<th>Nominal Conductor DCR</th>
<th>Nominal Outer Shield DCR</th>
</tr>
</thead>
<tbody>
<tr>
<td>28 Ohm/1000ft</td>
<td>9 Ohm/1000ft</td>
</tr>
</tbody>
</table>

Capacitance

<table>
<thead>
<tr>
<th>Nom. Capacitance Conductor to Shield</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.3 pF/ft</td>
</tr>
</tbody>
</table>

Inductance

<table>
<thead>
<tr>
<th>Nominal Inductance</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.09 µH/ft</td>
</tr>
</tbody>
</table>

Impedance

<table>
<thead>
<tr>
<th>Nominal Characteristic Impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td>75 Ohm</td>
</tr>
</tbody>
</table>
**Return Loss (RL)**

<table>
<thead>
<tr>
<th>Frequency [MHz]</th>
<th>Min. Structural Return Loss (SRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 - 1000 MHz</td>
<td>20 dB</td>
</tr>
</tbody>
</table>

**High Frequency (Nominal/Typical)**

<table>
<thead>
<tr>
<th>Frequency [MHz]</th>
<th>Nom. Insertion Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 MHz</td>
<td>0.4 dB/100ft</td>
</tr>
<tr>
<td>10 MHz</td>
<td>0.7 dB/100ft</td>
</tr>
<tr>
<td>50 MHz</td>
<td>1.6 dB/100ft</td>
</tr>
<tr>
<td>100 MHz</td>
<td>2.1 dB/100ft</td>
</tr>
<tr>
<td>200 MHz</td>
<td>3.0 dB/100ft</td>
</tr>
<tr>
<td>400 MHz</td>
<td>4.3 dB/100ft</td>
</tr>
<tr>
<td>700 MHz</td>
<td>6.0 dB/100ft</td>
</tr>
<tr>
<td>750 MHz</td>
<td>6.3 dB/100ft</td>
</tr>
<tr>
<td>900 MHz</td>
<td>7.0 dB/100ft</td>
</tr>
<tr>
<td>1000 MHz</td>
<td>7.5 dB/100ft</td>
</tr>
</tbody>
</table>

**Delay**

<table>
<thead>
<tr>
<th>Nominal Delay</th>
<th>Nominal Velocity of Propagation (VP) [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.22 ns/ft</td>
<td>83 %</td>
</tr>
</tbody>
</table>

**Voltage**

<table>
<thead>
<tr>
<th>UL Voltage Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 V RMS</td>
</tr>
</tbody>
</table>

**Temperature Range**

| Operating Temp Range: | -20°C To +75°C |

**Mechanical Characteristics**

<table>
<thead>
<tr>
<th>UV Resistance:</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulk Cable Weight:</td>
<td>25 lbs/1000ft</td>
</tr>
<tr>
<td>Max Recommended Pulling Tension:</td>
<td>126 lbs</td>
</tr>
<tr>
<td>Min Bend Radius/Minor Axis:</td>
<td>2.25 in</td>
</tr>
</tbody>
</table>

**Standards**

<table>
<thead>
<tr>
<th>NEC/(UL) Specification:</th>
<th>CATVP, CMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEC/(UL) Specification:</td>
<td>CMP</td>
</tr>
<tr>
<td>RG Type:</td>
<td>6/U Type</td>
</tr>
<tr>
<td>Series Type:</td>
<td>Series 6</td>
</tr>
</tbody>
</table>

**Applicable Environmental and Other Programs**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EU Directive 2003/96/EC (BFR):</td>
<td>Yes</td>
</tr>
<tr>
<td>EU Directive 2011/65/EU (ROHS II):</td>
<td>Yes</td>
</tr>
<tr>
<td>EU Directive 2012/19/EU (WEEE):</td>
<td>Yes</td>
</tr>
<tr>
<td>EU Directive 2015/863/EU:</td>
<td>Yes</td>
</tr>
<tr>
<td>EU CE Mark:</td>
<td>Yes</td>
</tr>
<tr>
<td>EU RoHS Compliance Date (yyyy-mm-dd):</td>
<td>2005-04-01</td>
</tr>
<tr>
<td>CA Prop 65 (CJ for Wire &amp; Cable):</td>
<td>Yes</td>
</tr>
<tr>
<td>MII Order #39 (China RoHS):</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Suitability**

<table>
<thead>
<tr>
<th>Suitability - Aerial:</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitability - Burial:</td>
<td>No</td>
</tr>
<tr>
<td>Suitability - Hazardous Locations:</td>
<td>No</td>
</tr>
<tr>
<td>Suitability - Indoor:</td>
<td>Yes</td>
</tr>
<tr>
<td>Suitability - Outdoor:</td>
<td>No</td>
</tr>
<tr>
<td>Suitability - Sunlight Resistance:</td>
<td>No</td>
</tr>
</tbody>
</table>
Flammability, LS0H, Toxicity Testing

<table>
<thead>
<tr>
<th>UL Flammability:</th>
<th>NFPA 262</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSA Flammability:</td>
<td>FT6</td>
</tr>
<tr>
<td>UL voltage rating:</td>
<td>300 V RMS</td>
</tr>
</tbody>
</table>

Plenum/Non-Plenum

| Plenum (Y/N): | Yes |

Part Number

| Non-Plenum Number: | 9116, 9116R |

Variants

<table>
<thead>
<tr>
<th>Item #</th>
<th>Color</th>
<th>UPC</th>
<th>Length</th>
<th>Footnote</th>
</tr>
</thead>
<tbody>
<tr>
<td>9116P 0101000</td>
<td>Black</td>
<td>612825224464</td>
<td>1,000 ft</td>
<td>C</td>
</tr>
<tr>
<td>9116P 010U1000</td>
<td>Black</td>
<td>612825224471</td>
<td>1,000 ft</td>
<td></td>
</tr>
<tr>
<td>9116P 010U500</td>
<td>Black</td>
<td>612825224501</td>
<td>500 ft</td>
<td></td>
</tr>
<tr>
<td>9116P 8771000</td>
<td>Natural</td>
<td>612825224495</td>
<td>1,000 ft</td>
<td>C</td>
</tr>
<tr>
<td>9116P 877U1000</td>
<td>Natural</td>
<td>612825224525</td>
<td>1,000 ft</td>
<td></td>
</tr>
</tbody>
</table>

Footnote: C - CRATE REEL PUT-UP.

History

| Update and Revision: | Revision Number: 0.295 Revision Date: 08-22-2019 |

© 2019 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.