



Description: Hardline Splicer, D026 - D026  
(Measured with Commscope CA511 J Cable.)

## DATA SHEET

### Electrical

|   | Specification  |  |   | Standard   |
|---|--|--|---|--|
| Frequency Range   | 5 MHz – 3.000 MHz  |  |   |  |
| Impedance   | 75 Ω nominal   |  |   |  |
|   | Better Than  | Measured   | – Worst case of 4 measurements  |  |
| Return Loss<br>Gated of D026-3512M                              | 33 dB<br>32 dB<br>32 dB<br>28 dB<br>28 dB<br>13 dB<br>29 dB  | ≥ 36.2 dB<br>≥ 35.4 dB<br>≥ 35.2 dB<br>≥ 31.8 dB<br>≥ 32.0 dB<br>≥ 16.7 dB<br>32.7 dB  | 5 MHz – 500 MHz<br>500 MHz – 860 MHz<br>860 MHz – 1.000 MHz<br>1.000 MHz – 1.750 MHz<br>1.750 MHz – 2.150 MHz<br>2.150 MHz – 3.000 MHz<br>1.218 MHz | IEC 61169-1  |
| Return Loss<br>of assembly                                      | 25 dB<br>25 dB<br>25 dB<br>19 dB<br>19 dB<br>9 dB<br>25 dB   | ≥ 28.0dB<br>≥ 28.1 dB<br>≥ 31.4 dB<br>≥ 22.7 dB<br>≥ 22.2 dB<br>≥ 12.1 dB<br>≥ 28.8 dB | 5 MHz – 500 MHz<br>500 MHz – 860 MHz<br>860 MHz – 1.000 MHz<br>1.000 MHz – 1.750 MHz<br>1.750 MHz – 2.150 MHz<br>2.150 MHz – 3.000 MHz<br>1.218 MHz | IEC 61169-1  |
| Insertion Loss  | 0.13 dB  | ≤ 0.10 dB  | 5 MHz – 3.000 MHz   |  |
| Shielding Effectiveness<br>of assembly<br>(Measured with CoMeT) | Transfer Impedance @ 5 – 30 MHz ≤ 0.13 mΩ/m<br>Screening Attenuation @ 30 – 1.000 MHz ≥ 119.4 dB<br>Screening Attenuation @ 1.000 – 2.000 MHz ≥ 120.9 dB<br>Screening Attenuation @ 2.000 – 3.000 MHz ≥ 111.5 dB<br>Class: A++ |  |   | IEC 62153-4-3<br>IEC 62153-4-4<br>IEC 62153-4-4<br>IEC 62153-4-4<br>EN 50117 |
| Common Path Distortion  | ≤ -110 dBc   |  |   | ANSI/SCTE 109 2005   |
| Inner Conductor Resistance                                      | ≤ 1.5 mΩ @ 1 A DC.   |  |   | IEC 61169-1  |
| Amp. Rating   | ≤ 15 A @ 60 V.   |  |   |  |
| Dielectric Strength   | ≥ 3 kV.  |  |   | IEC 61169-1  |
| Insulation Resistance   | ≥ 29.99 GΩ @ 500 V.  |  |   | IEC 61169-1  |

### Environmental

|                                | Specification             | Standard      |
|--------------------------------|---------------------------|---------------|
| Temperature range Operating    | -40°C to +65°C            |               |
| Temperature range Installation | -5°C to +50°C             |               |
| Sealing Test                   | IPX8 – 1 meter / 24 hours | IEC 60529     |
| Red Dye                        |                           | ANSI/SCTE 60  |
| Corrosion Protection           |                           | ASTM B 117-94 |

### Mechanical

|                 | Specification | Standard     |
|-----------------|---------------|--------------|
| Cable Retention | ≥ 75 kgf      | ANSI/SCTE 99 |

### Material and Finish

|                  | Specification              | Standard  |
|------------------|----------------------------|-----------|
| Housing          | NiSn (NITIN) plated Brass  | ASTM B605 |
| Inner conductor  | NiSn (NITIN) plated Brass  | ASTM B605 |
| Compression ring | NiSn (NITIN) plated Brass  | ASTM B605 |
| O'ring           | EPDM                       |           |
| Insulator        | Polycarbonate/Polyethylene |           |

In order to continue to supply the best products, PPC reserves the right to change the products and specifications at any time without prior notice.

### Measurement setup:

D026-3512M – cable – **D026-SPL** – cable -D026-3512M

All measurements are done with 2 Commscope CA 511 J cable, length 0.5 meter.

All results are the worst case result of measurement of 4 assemblies.

All tests are performed using instruments calibrated in accordance to our ISO 9001 certification.

Return Loss, Insertion Loss and Shielding are measured with Rohde & Schwarz ZNB8 Network Analyzer, according to IEC standards.

CPD (Common Path Distortion) are measured with hp Spectrum Analyzer hp 8591E, according to SCTE standard.

In case of over current ( $\geq 15$  A.) there is a risk for high temperature inside the connector, which can cause damage of the insulator, and / or the cable.

Further test reports, technical specifications and installation instructions can be obtained on request.

