



Description: Hardline Connector, D026 – 3512M.
(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 Gated of D026-3512M | 34 dB | ≥ 37.5 dB | 5 MHz – 500 MHz | IEC 61169-1 |
| | 33 dB | ≥ 36.9 dB | 500 MHz – 860 MHz | |
| | 32 dB | ≥ 35.4 dB | 860 MHz – 1.000 MHz | |
| | 24 dB | ≥ 27.9 dB | 1.000 MHz – 1.750 MHz | |
| | 19 dB | ≥ 22.2 dB | 1.750 MHz – 2.150 MHz | |
| | 19 dB | ≥ 22.1 dB | 2.150 MHz – 3.000 MHz | |
| | 30 dB | 33.1 dB | 1.218 MHz | |
| Return Loss of assembly | 28 dB | ≥ 31.9 dB | 5 MHz – 500 MHz | IEC 61169-1 |
| | 28 dB | ≥ 31.2 dB | 500 MHz – 860 MHz | |
| | 28 dB | ≥ 31.3 dB | 860 MHz – 1.000 MHz | |
| | 22 dB | ≥ 25.6 dB | 1.000 MHz – 1.750 MHz | |
| | 17 dB | ≥ 20.7 dB | 1.750 MHz – 2.150 MHz | |
| | 12 dB | ≥ 15.9 dB | 2.150 MHz – 3.000 MHz | |
| | 28 dB | ≥ 31.7 dB | 1.218 MHz | |
| Insertion Loss | 0.13 dB | ≤ 0.10 dB | 5 MHz – 3.000 MHz | |
| Shielding Effectiveness (Measured with CoMet) | Transfer Impedance @ 5 – 30 MHz | | ≤ 0.13 m Ω /item | IEC 62153-4-3 |
| | Screening Attenuation @ 30 – 1.000 MHz | | ≥ 119.4 dB | IEC 62153-4-4 |
| | Screening Attenuation @ 1.000 – 2.000 MHz | | ≥ 120.9 dB | IEC 62153-4-4 |
| | Screening Attenuation @ 2.000 – 3.000 MHz | | ≥ 111.5 dB | IEC 62153-4-4 |
| Class: A++ | | | | EN 50117 |
| Common Path Distortion | ≤ -110 dBc | | | ANSI/SCTE 109 2005 |
| Inner Conductor Resistance | ≤ 1.5 m Ω @ 1 A DC. | | | IEC 61169-1 |
| Amp. Rating | ≤ 15 A @ 60 V. | | | |
| Dielectric Strength | ≥ 3 kV. | | | IEC 61169-1 |
| Insulation Resistance | ≥ 29.99 G Ω @ 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 |
|-----------------|----------------|--------------|
| Interface | 3512 male | IEC 61169-14 |
| Cable Retention | ≥ 150 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:

Nm-58f, 58m-3512f, **D026-3512M** – Cable – **D026-3512M**, 58m-3512f, Nm-58f

All measurements are done with Commscope CA 511 J cable, length 1.0 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 (≥ 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.

