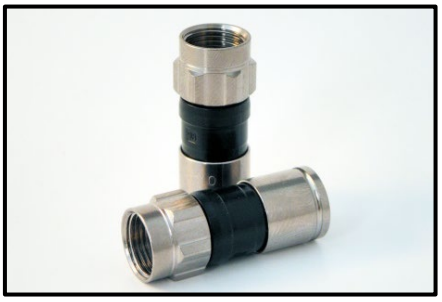
**Item Number:**
EX6NTPLUS

**Praesto, December 15, 2015 –** Rev. 00



Description: Compression Connector, SignalTight®, F-male.
(Measured with PPC Perfect Flex Cable (P6CT77VRM)

# DATA SHEET

## Electrical

| | Specification | | | Standard |
|---|---|---|---|---|
| **Frequency Range** | **5 MHz – 3.000 MHz** | | | |
| **Impedance** | **75 Ω nominal** | | | |
| | **Better Than** | **Measured** – Worst case of 5 measurements | | |
| **Return Loss of connector - Gated** | 30 dB<br>29 dB<br>28 dB<br>24 dB<br>24 dB<br>22 dB | ≥ 33.4 dB<br>≥ 32.9 dB<br>≥ 31.8 dB<br>≥ 27.2 dB<br>≥ 27.1 dB<br>≥ 25.7 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 | IEC 61169-1 |
| **Insertion Loss of assembly** | 0.24 dB<br>0.28 dB<br>0.30 dB<br>0.38 dB<br>0.41 dB<br>0.47 dB | ≤ 0.21 dB<br>≤ 0.25 dB<br>≤ 0.27 dB<br>≤ 0.35 dB<br>≤ 0.38 dB<br>≤ 0.44 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 | |
| **Shielding Effectiveness of connector (Measured with CoMeT)** | Transfer Impedance @ 5 – 30 MHz<br>Screening Attenuation @ 30 – 1.000 MHz<br>Screening Attenuation @ 1.000 – 2.000 MHz<br>Screening Attenuation @ 2.000 – 3.000 MHz<br>Class: A++ | | ≤ 0.12 mΩ/item<br>≥ 121.1 dB<br>≥ 124.4 dB<br>≥ 112.0 dB | 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 |
| **Amp. Rating** | ≤ 4 A @ 60 V. | | | |
| **Dielectric Strength** | ≥ 2 kV. | | | IEC 61169-1 |
| **Insulation Resistance** | ≥ 29.99 GΩ @ 500 V. | | | IEC 61169-1 |

## Environmental

| | Specification | Standard |
|---|---|---|
| **Temperature range Operating** | -40°C to +60°C | |
| **Temperature range Installation** | -5°C to +50°C | |
| **Sealing test** | IPX8 – 1 meter / 24 hours | |
| **Corrosion Protection** | | ASTM B 117-94 |

## Mechanical

| | Specification | Standard |
|---|---|---|
| **Interface** | F male | IEC 61169-24 |
| **Cable Retention** | ≥ 21 kgf | ANSI/SCTE 99 |
| **Approved compression tool** | VT150-Rev2, VT-300,CT2-AS-EX, EX59/6CAT | |

## Material and Finish

| | Specification | Standard |
|---|---|---|
| **Housing** | NiSn (NITIN) plated Brass | ASTM B605 |
| **O'ring** | EPDM | |



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## Measurement setup:

Nm-Ff, **EX6NTPLUS** – Cable – **EX6NTPLUS**, Nm-Ff

All measurements are done with 1.0m. PPC Perfect Flex P6CT77VRM cable.

All results are the worst case result of measurement of 5 assemblies.

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

Return Loss, Insertion Loss and Shielding effectiveness of assembly are measured with Rohde & Schwarz ZNB8 Network Analyzer, according to IEC standards, with 2 connectors mounted on 1 meter cable.

Shielding effectiveness of connector is measured with Rohde & Schwarz ZNB8 Network Analyzer, according to IEC standards, with 1 connector mounted on 1 cm cable.

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

In case of over current (≥ 4 A.) there is a risk for high temperature inside the connector, which can cause damage of the cable.

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

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