

Technical Specifications

Connector 7/16MA-12H



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CONNECTOR 7/16MA-12H – Technical Specifications

1 – Introduction

The 7/16MA-12H is a right-angle male connector for 1/2” super flexible cable, designed for applications where space is limited without compromising RF performance.

2 – Description

Its compact and robust design provides excellent electrical continuity and low return loss, maintaining a stable 50 Ω impedance across the entire operating band. Ideal for antennas, transmission systems, and high-density coaxial links.

3 – Materials and Coatings

- Pin (central contact): brass with silver plating.
- Socket/Internal spring: tinned bronze with silver plating.
- Insulator: PTFE / TPX.
- Body (elbow) and outer conductor: brass with trimetal coating.
- Nut/Cap: brass with trimetal coating.
- Seals / O-ring: silicone (IP sealing).

4 – Electrical Properties

Property	Value
Characteristic impedance	50 Ω
Frequency range	DC-7.5 GHz
Insulation resistance	$\geq 5,000$ M Ω
Withstanding voltage	4000 V RMS
Operating voltage	2700 V RMS
Central contact resistance	≤ 0.4 m Ω
Outer contact resistance	≤ 0.2 m Ω
VSWR	≤ 1.10 (0.8-1.0 GHz) / ≤ 1.13 (1.7-2.7 GHz)
PIM3 (2 \times 43 dBm)	≤ -155 dBc

5 – Mechanical and Environmental Properties

- Durability: ≥ 500 cycles.
- Operating temperature: -65 $^{\circ}\text{C}$ to $+85$ $^{\circ}\text{C}$.
- Complies with MIL-STD-202, IP68, RoHS, and ISO 9001:2015.

6 – Packaging and Presentation

In accordance with agreement.