Product Data Sheet

IC402 Conformable Microwave Cable – 0.141” Diameter

IC405 Conformable Microwave Cable – 0.085” Diameter

IC401 (.250”) and IC047 (.047”) Also available

Typical Applications – Defence / Aerospace / Test & Measurement

GENERAL DESCRIPTION

Conformable or Hand Formable cable is designed for applications that require cable to be formed at the time of installation without the need for bending tools. Comprising of a tin soaked copper braid, the cable stays in place after bending, it benefits from being able to use standard semi-rigid cable connectors.

There is no major degradation of electrical performance when cable are formed into shape,

The 50 ohm constructions exhibit similar attenuation characteristics as the M17/130-RG402 and M17/133-RG405 cables. All The Spiral Strip Shield coaxial cables have VSWR characteristics that meet or exceed similar size flexible constructions. I402 and I405 have been designed with diameters over the outer braids of .141” and .086”.

An overall FEP jacket is available for this type of cable if required.

Cable Specification – IC402 and IC405 Conformable Semi-Rigid Cables

IC402

Mechanical

Outer Conductor 3.52mm (Tin Soaked Copper Braid)

Dielectric 2.96mm (PTFE)

Centre Conductor 0.94mm (SPCCS – solid)

Bend Radius (Static) 9.8mm

Bend Radius (Repeated Flex) 40mm

Impedance 50ohm

Maximum Effective Frequency 26 GHz

Capacitance 95Pf/m

Temperature Range (deg. C) -60 to +165

Velocity of Propagation 71%

Attenuation / m

500MHz 0.25dB

3GHz 0.69dB

8GHz 1.25dB

12GHz 1.62dB

18GHz 2.09dB

Cable Specification – IC402 and IC405 Conformable Semi-Rigid Cables

IC405

Mechanical

Outer Conductor 2.10mm (Tin Soaked Copper Braid)

Dielectric 1.65mm (PTFE)

Centre Conductor 0.52mm (SPCCS – solid)

Bend Radius (Static) 6mm

Bend Radius (Repeated Flex) 20mm

Impedance 50ohm

Maximum Effective Frequency 26 GHz

Capacitance 95Pf/m

Temperature Range (deg. C) -60 to +165

Velocity of Propagation 70%

Attenuation / m

500MHz 0.43dB

3GHz 1.14dB

8GHz 1.99dB

12GHz 2.53dB

18GHz 3.20dB