

Cable Bundle Wire Information - Section 11

A formula to calculate the maximum number of wires recommended for a cable bundle is shown below. Using this formula, the table below shows a sampling of the maximum number of wires that will fit in the oblong bushing; for example the oblong bushing will hold a maximum of 683 Signal (20 AWG) wires **OR** 202 Coaxial (RG316) wires.

Formula to calculate approximate number of wires in a cable bundle:

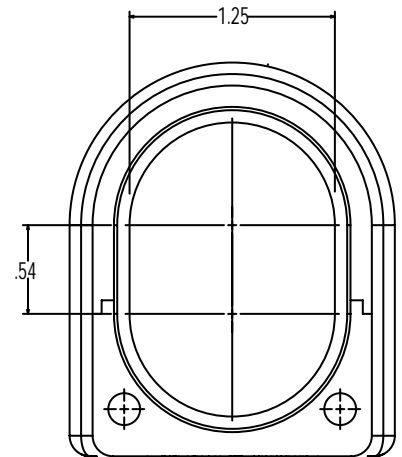
$N = \{D/d - 1\}^2 (.907)$		
N=Number of Wires	D=*Inside Diameter of Converted Oblong Bushing	d=Outside Diameter of Wire

NOTE: If the wiring bundle is too small to secure with the adjustable bushing, remove the clamp assembly within the bushing by removing the two adjustment screws. Reverse the direction of the clamp assembly and secure with the two screws. This provides a reduced diameter within the bushing and allows smaller wire bundles to be held securely.

Oblong Bushing Opening Size = 1.59"* diameter - 3.927=C

General Guidelines

Wire Type	Outside Diameter	Number of Wires
20 AWG Signal - Teflon	.056	683
10 AWG Power - PVF	.160	72
RG316 Coaxial _ 50 OHM	.100	202



NOTE: Addition of shrink tubing or braid will reduce maximum number of wires through bushing.

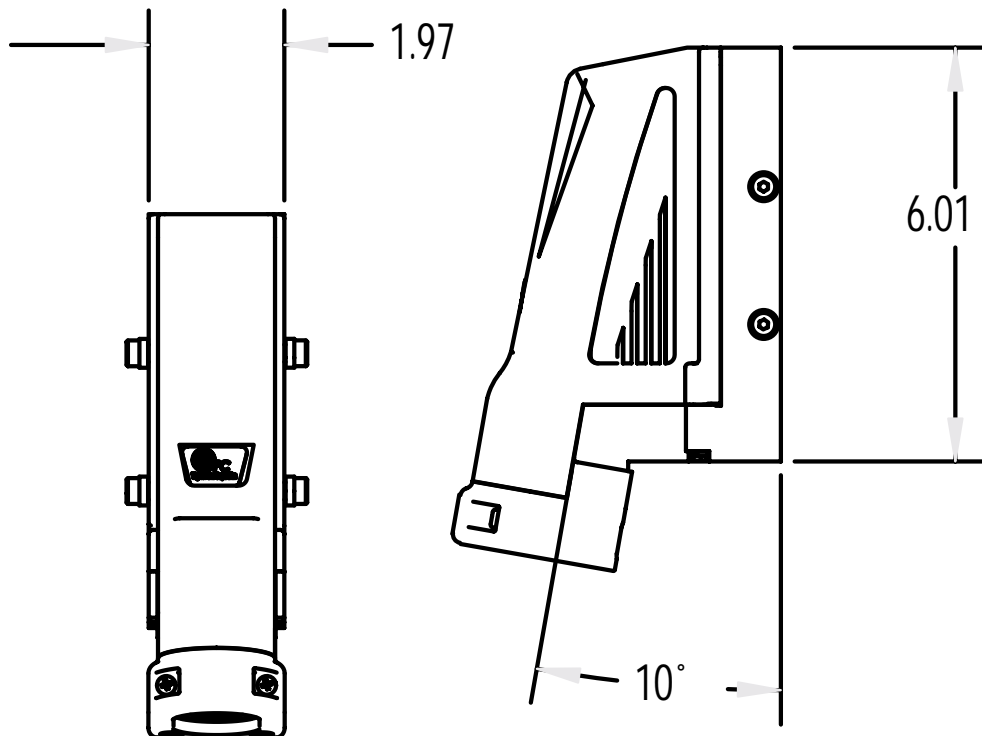
* Oblong Opening Circumference Converted to Simple Diameter

Removable ITA Cover - Section 11

The ITA for the Gemini 2102 is equipped with a removable EMI-shielded cover. The cover slides up to provide access to wires and connectors and is secured by two screws. Please note: cover must be secured with screws for EMI shielding to take effect.



Diagram of ITA cover w/ dimensions



2 Module Interchangeable Test Adapter (ITA) with Sliding, Removable Cover - P/N 410 120 110