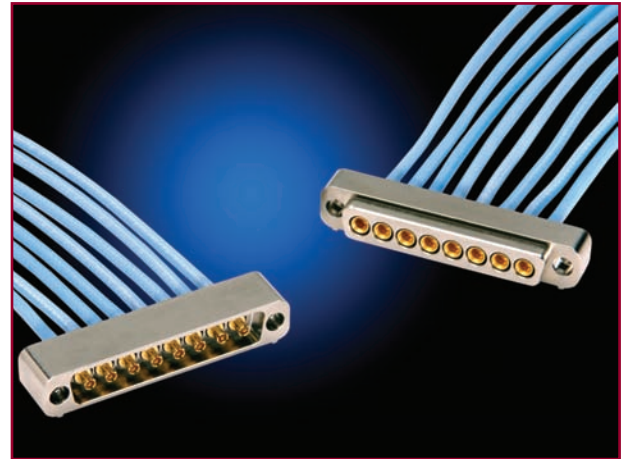
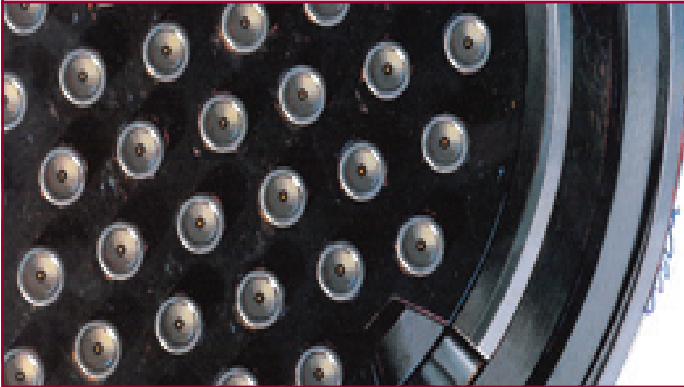


# MDHC

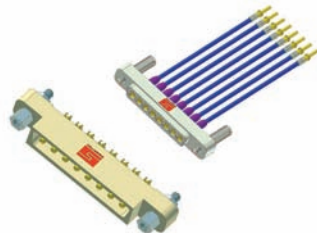
## High Frequency Multiway Coax Connectors



## Micro D-Subminiature Coax Connectors Low VSWR DC-40 GHz

Sabritec's new High Frequency Micro-D Coax Connectors (MDHC) have a low VSWR up to 40 GHz (typ). These connectors have a constant 50 ohm airline impedance interface and are 30% smaller than our SCX coaxial connectors. Each coax contact has a maximum overall diameter of Ø.133" fitted into a low-profile metalized housing. MDHC coaxial contacts are a drop in replacement to Sabritec's MDCX RF contacts with an increased frequency range from 10 GHz to 40 GHz.

Our new ultra miniature MDHC contacts are compact in size allowing multiple high density connections in a Micro-D style shell for applications where tight space and weight savings are critical. No cumbersome spring loaded contacts or mounting hardware is required. These connectors are also available with locking post mechanisms or blind-mate hardware attachments.

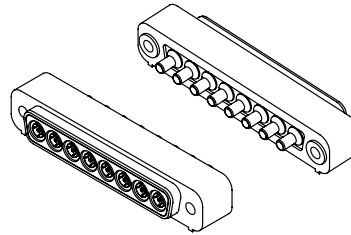
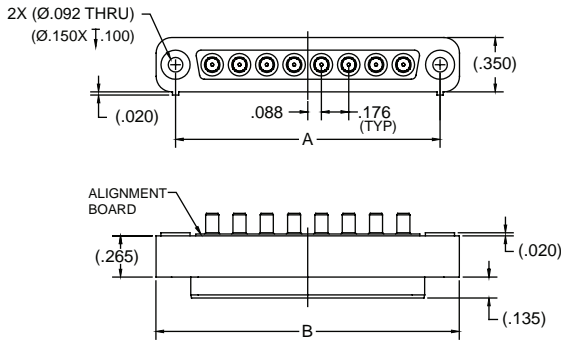


Insert arrangements are available in 2, 4, 6, 8 and 10 way coax assemblies as well as mixed signal, power, coax and high speed twinax contacts for hybrid arrangements.

Mechanical & Environmental Specifications	
Temperature Rating	-65°C to + 165°C
Corrosion	MIL-STD-202 Method 101, Test Condition B
Shock	MIL-STD-202 Method 213, Test Condition B
Vibration	MIL-STD-202 Method 204, Test Condition B
Thermal Shock	MIL-STD-202 Method 107, Test Condition B
Durability	1,000 cycles min. 500 cycles min. Signal Contacts
Float Mount Constraints	0.010" full radial & 0.010 axial misalignment max
Electrical Specifications	
Dielectric Withstanding Voltage	500 VRMS @sea level with 70% relative humidity
Insulation Resistance	1000 mega-ohms min. @ 250 VDC
Contact Current Rating	5 Amps max. for 0.030 Signal Pins 2.0 Amps max. for 0.015 Signal Contacts
Characteristic Impedance	50 Ohm constant airline impedance
RF HI Potential Withstanding Voltage	125 VRMS @ 5 MHz
Corona Level @ 70,000 ft.	Center contact to intermediate contact: 125 VAC
Permeability	2.0 max.
VSWR	1.5:1 (typ) Mated Pair up to 40 GHz 1.3:1 (typ) Mated Pair up to 30 GHz

\* RoHS Compliant

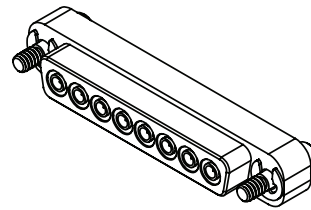
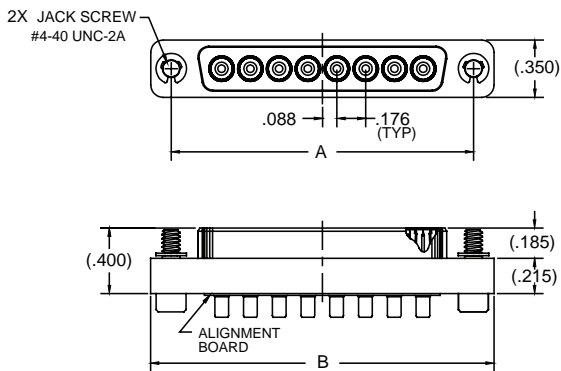
## Connector Plug for Cable Mount Straight Coax Socket Contact



Part #	Contacts
017300-2003	2
017300-2004	4
017300-2006	6
017300-2008	8
017300-2010	10

\*Cable Mount Coaxial Contacts Sold Separately

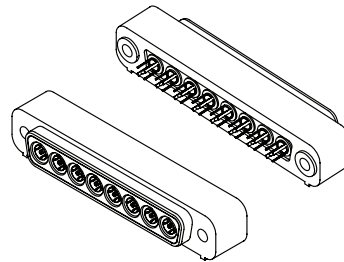
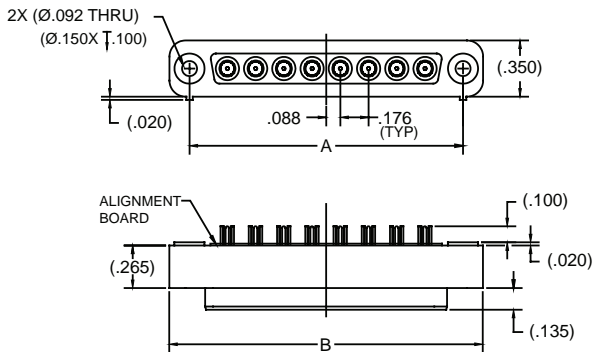
## Connector Plug for Cable Mount Coax Socket Contact with Mounting Hardware



Part #	Contacts
017300-2013	2
017300-2014	4
017300-2016	6
017300-2018	8
017300-2020	10

\*Cable Mount Coaxial Contacts Sold Separately

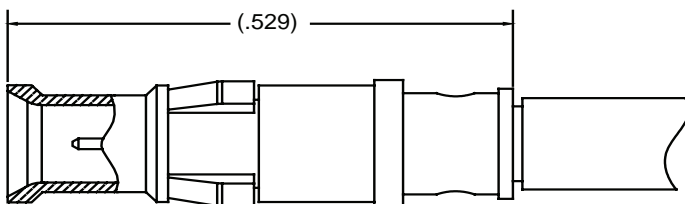
## Connector Plug With PC-Tail Coax Socket Contacts



Part #	Contacts
017317-2013	2
017317-2014	4
017317-2016	6
017317-2018	8
017317-2020	10

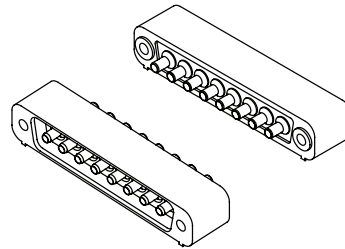
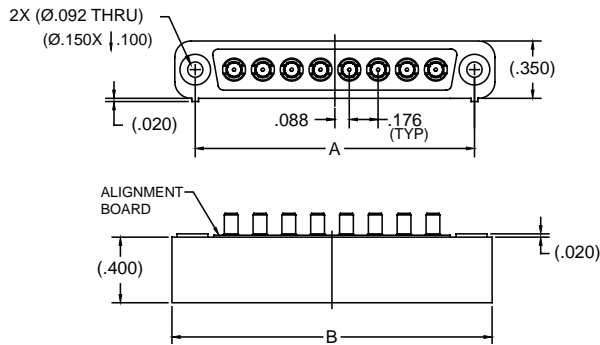
\*PC Tail Contacts included

## MDHC Coax Socket Contact (DC-40 GHz)



Part Number	Cable Type	Cable
013109-2004	Flexible Coax	RG-405 Size

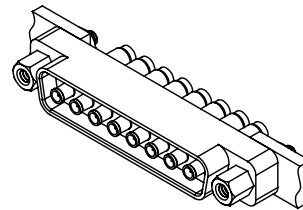
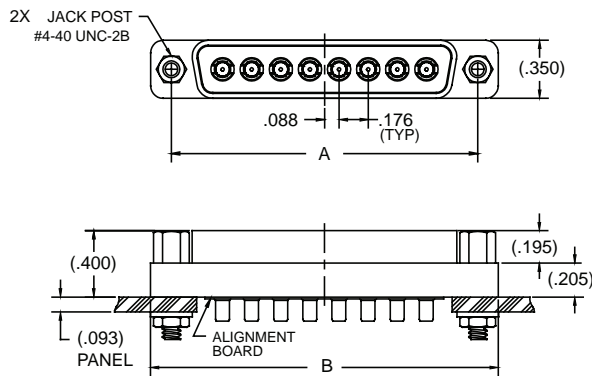
## Connector Receptacle for Cable Mount Straight Coax Pin Contact



Part #	Contacts
017300-3003	2
017300-3004	4
017300-3006	6
017300-3008	8
017300-3010	10

\*Cable Mount Coaxial Contacts Sold Separately

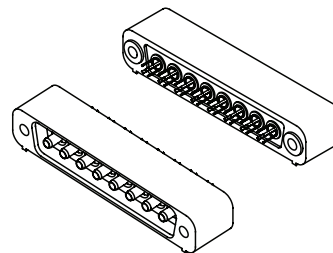
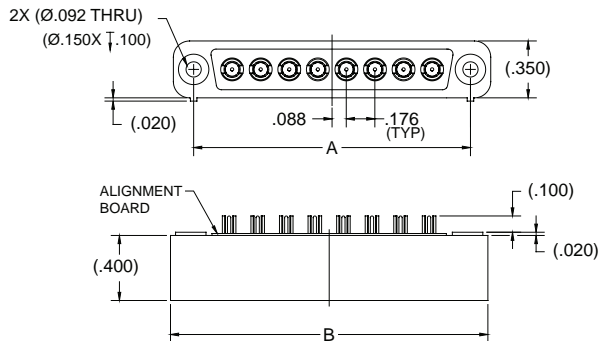
## Connector Receptacle for Cable Mount Straight Coax Pin Contact with Mounting Hardware



Part #	Contacts
017300-3013	2
017300-3014	4
017300-3016	6
017300-3018	8
017300-3020	10

\*Cable Mount Coaxial Contacts Sold Separately

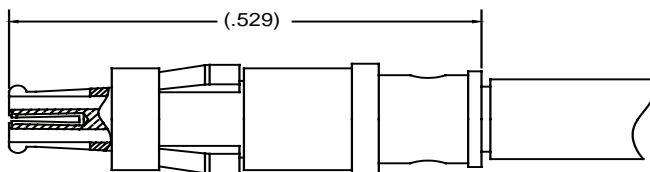
## Connector Receptacle With PC-Tail Coax Pin Contacts



Part #	Contacts
017317-3013	2
017317-3014	4
017317-3016	6
017317-3018	8
017317-3020	10

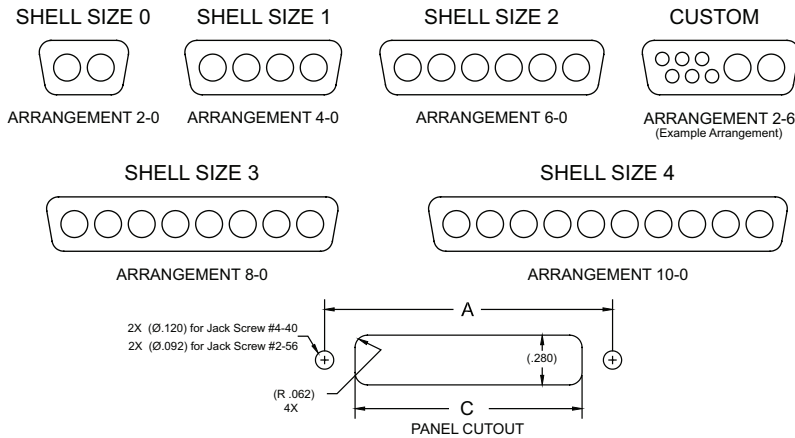
\*PC Tail Contacts included

## MDHC Pin Contact (DC-40 GHz)



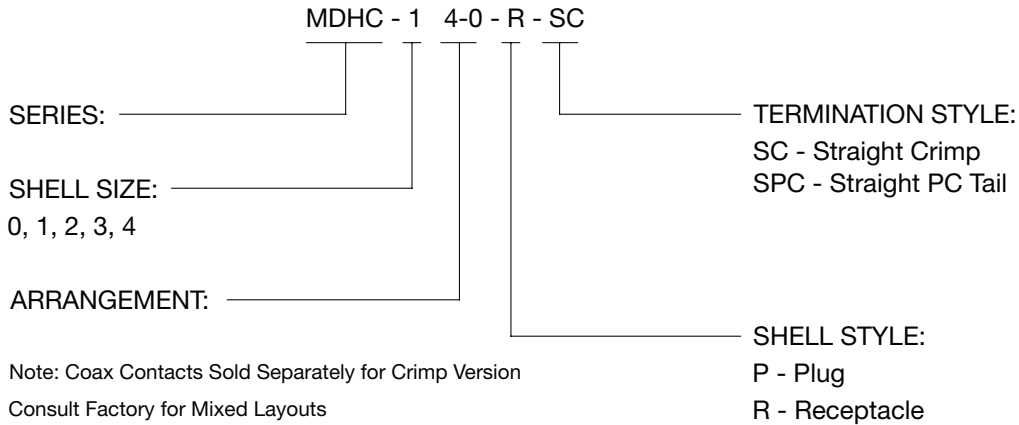
Part Number	Cable Type	Cable
013209-2004	Flexible Coax	RG-405 Size

### Insert Arrangements



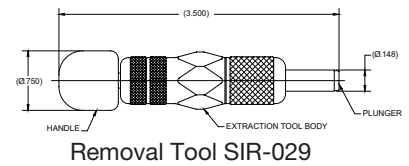
Shell Size	Contacts	A dim.	B dim.	C dim.
0	2	.800	1.050	.525
1	4	1.150	1.400	0.875
2	6	1.500	1.750	1.225
3	8	1.850	2.100	1.575
4	10	2.200	2.450	1.925

### Coax Multi-Pin Connector Part Description

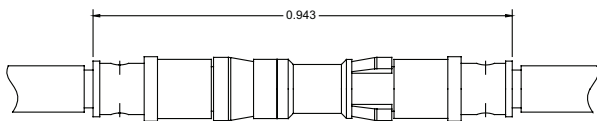


#### Notes:

- Optional mounting hardware available, please specify panel thickness.
- Removable Coax Contacts Require Removal Tool SIR-029 (ordered separately)

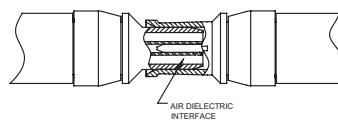


#### Contact Mated Pair



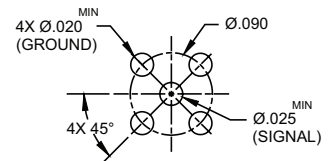
MDHC Socket Contact (3D Model)

#### Contact Interface

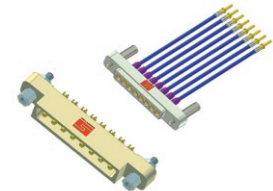


MDHC Pin Contact (3D Model)

#### PCB FOOTPRINT



\*Consult factory for PC Tail Contact Terminations



MDHC with Locking Post Mechanism

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