



VGRCB-4CF / VGFCB-4CF



The VGRCB-4C provides 4 coaxial contacts for signals up to 18Ghz. All cable connections to the VGRCB-4CF blocks are made through SMA cable contacts providing for a variety of readily available coaxial cables. Two precision alignment pins per block ensure proper alignment. Two shoulder mounting screws per VGRCB-4CF block allow the block to 'float' in the receiver. Blocks, contacts and cables are sold separately.

Application Notes

Both the Receiver and ITA adapters will accept flexible, semi rigid and rigid coax cables terminated with an industry standard SMA plug. The mated adapters have a frequency range from DC to 18Ghz. When designing solutions using the VGR(F)CB-4CF Modules, keep in mind the 'system' losses of the solution you are attempting to achieve. The insertion loss of the contacts without cabling of the VGR(F)CB-4CF are approximately $0.06\sqrt{f(\text{Ghz})}$. General purpose RG-142B/U Coax offers economical solutions from DC to 10Ghz (with 0.49 dB/ft loss at 10Ghz). The following table is for reference only.

Contact Pair Specifications

Voltage Rating (dielectric breakdown)	335VDC
Contact Resistance	4.0 mΩ
Insulation Resistance (MΩ Min.)	5000
RF Leakage (dB Min.)	-(90-F(Ghz))
Corona 70,000 ft (VRMS Min)	250
Impedance	50Ω
Frequency Range	DC to 18Ghz
VSWR	1.05 + .005 F(Ghz)
Insertion Loss	$0.06\sqrt{f(\text{Ghz})}$
Durability	5,000 Cycles

Ordering Information:

Receiver Module:

50Ω blind mate plug contact: VGRCB-4CF Ref No (611) A32433
Receiver Contact Connection Style: SMA

Fixture Module:

50Ω blind mate jack contact: VGFCB-4C Ref No (610) A32434
Fixture Contact Connection Style: SMA

Identical Cable Assemblies for Fixture / Receiver

All cables MA- Unterminated at Opposite End:
50Ω RG-142B/U CRF-CA50RG142B/U-36

Cable Contacts Only

SMA Connector (Plug)
A31889

Accessories:

Installation Tool for ITA contact A32434 VGMXT-412615
SMA Connector Torque Wrench A31887

For more information about VG Mass Interconnect products:
Contact your Local Sales Representative at www.ect-cpg.com/principal-offices
Visit ECT Online at www.ect-cpg.com/vg-mass-interconnect-products

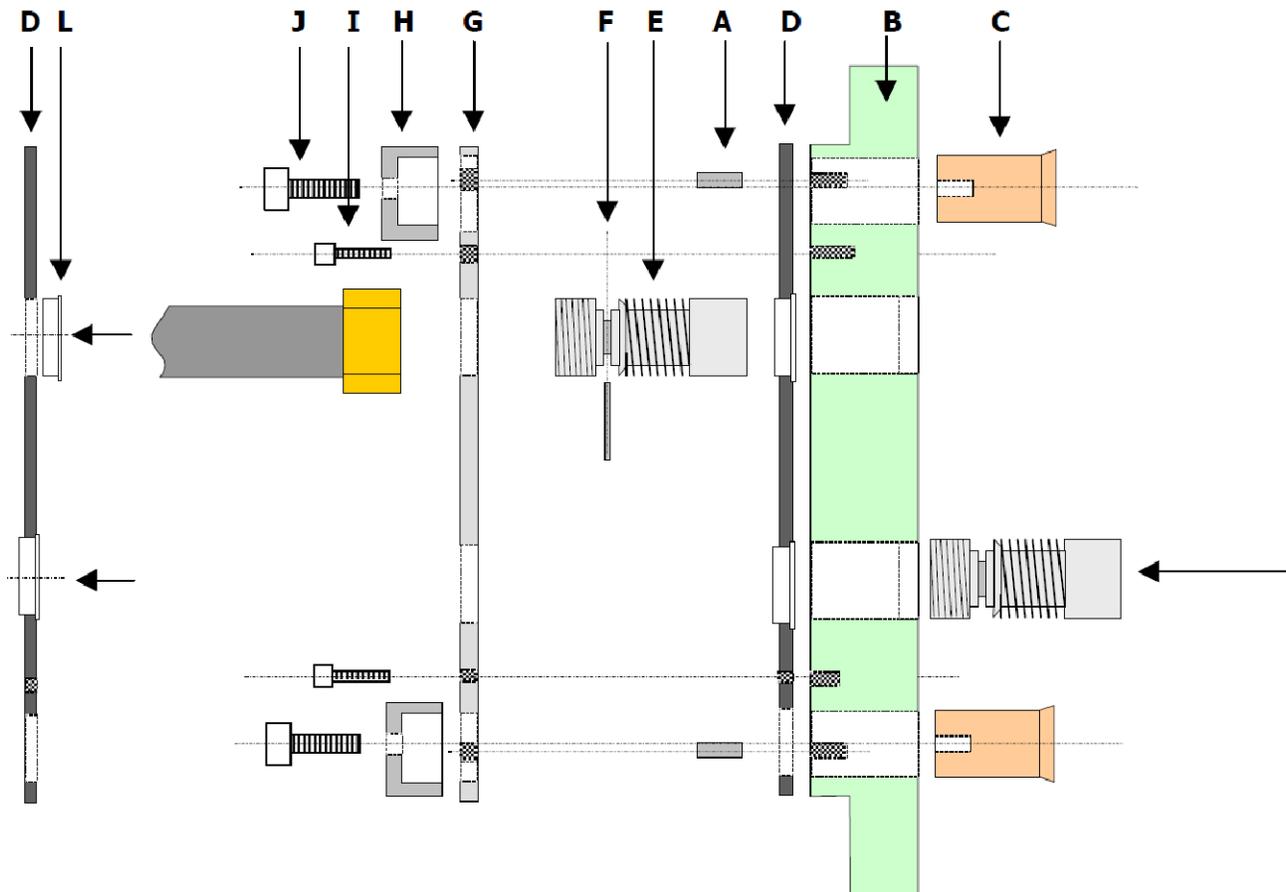
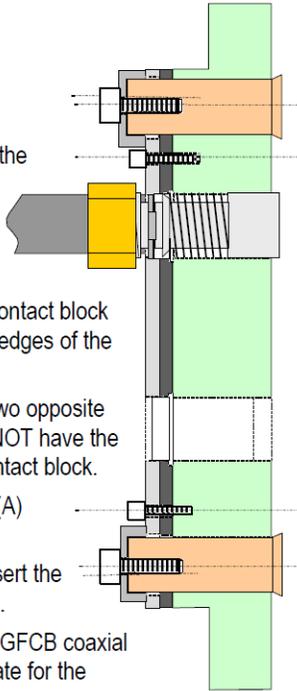


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ASSEMBLY INSTRUCTIONS VGFCB-4C & VGFCB-9C

STEP

1. Using insertion tool A31888 (not shown), insert the flange (L) into each contact hole in the locking plate (D) where a high frequency contact will be installed. Correct assembly requires the flange be mounted flush to the locking plate.
2. Insert the two Dowel Pins (A) into the VGFCB contact block (B). They are located in the center and bottom edges of the back side of the block.
3. Insert female guide pin receptacle (C) into the two opposite corners of the block. Note these two holes do NOT have the counter bore noted in the other holes on the contact block.
4. Insert the locking plate (D) over the dowel pins (A) mounted to the backside of the contact block.
5. From the front side of the VGFCB assembly, insert the coaxial contact (E) through the appropriate hole.
6. Insert the locking ring (F) over the back of the VGFCB coaxial contact. This locking ring serves as the stop plate for the contact against the backing plate (G).
7. Repeat steps 5 and 6 for all desired contacts.
8. Placing the counterbored side of the backing plate towards the contact block (B), mount the backing plate (G) over the contacts from the back side, aligning so that the screw holes (I) are aligned in all surfaces.
9. Place cap screws in screw holes (I) and lightly secure with Allen wrench.
10. Place female mounting caps (H) for male guide pin receptacle over the portion of the receptacle that protrudes from the back of the backing plate.
11. Lightly tighten screws.
12. Firmly tighten all screws/hardware. Do not over tighten.
13. Assemble all cable assemblies and attach from rear.



For more information about VG Mass Interconnect products:
 Contact your Local Sales Representative at www.ect-cpg.com/principal-offices
 Visit ECT Online at www.ect-cpg.com/vg-mass-interconnect-products

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