



VGRCB-9CF / VGFCB-9CF



The VGRCB-9CF provides 9 coaxial contacts for signals up to 18Ghz. All fixture cable connections to the VGFCB-9CF blocks are made through SMA cable contacts providing for a variety of available coaxial cables. *VGRCB-9CF contacts are crimp or SMA with some resultant specification changes.* Two precision alignment pins per block ensure proper alignment. Two shoulder mounting screws per VGRCB-9CF block allow the block to 'float' in the receiver. Blocks, contacts and cables are sold separately. *Specify Crimp or SMA on Receiver Contacts.*

Application Notes

Both the receiver and ITA adapters accept RG-142/U, 50Ωcoax cable or miniature coax cable. The mated adapters have a frequency range from DC to 18 Ghz. When designing solutions using the VGR(F)CB-9 blocks, keep in mind the 'system losses' of the desired solution. The insertion loss of the contacts without cabling of the VGR(F)CB-9 are approximately 0.03(f(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 (Crimp) / (SMA)	2.0 mΩ / 4.0 mΩ
Insulation Resistance (MΩ Min.)	5000
RF Leakage (dB Min.) Crimp or SMA	-(60-F(Ghz))
Corona 70,000 ft (VRMS Min)(Crimp) / (SMA)	190 / 250
Impedance	50Ω
Frequency Range	DC to 18Ghz
VSWR (Crimp) / (SMA)	1.15 + .01F(Ghz) / 1.05 + .005F(Ghz)
Insertion Loss (Crimp) / (SMA)	0.03√(f(Ghz)) / 0.06√(f(Ghz))
Durability	5,000 Cycles

Ordering Information:

Receiver Module:	VGRCB-9C (Ref No. 1121)	Fixture Module:	VGFCB-9C (Ref No. 1122)
50Ω blind mate plug contact Crimp:	A31897	50Ω blind mate jack contact:	A32434
50Ω blind mate plug contact SMA:	A35764	Fixture Contact Connection Style:	SMA
Receiver Contact Connection Style:	SMA	50Ω blind mate jack contact – Crimp Style	A31898
		Fixture SMA Cable – Underminated at Opposite End:	
		50Ω RG-142B/U	CRF-CA50RG142B/U-36

Cable Assemblies

Receiver Coax Contact Cable Assembly (Crimp)			
50Ω RG-1474/U	CR-CA50RG174-36		
Receiver Side	CR-CA50RG174-36	Accessories:	
Fixture Side	CF-CA50RG174-36	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

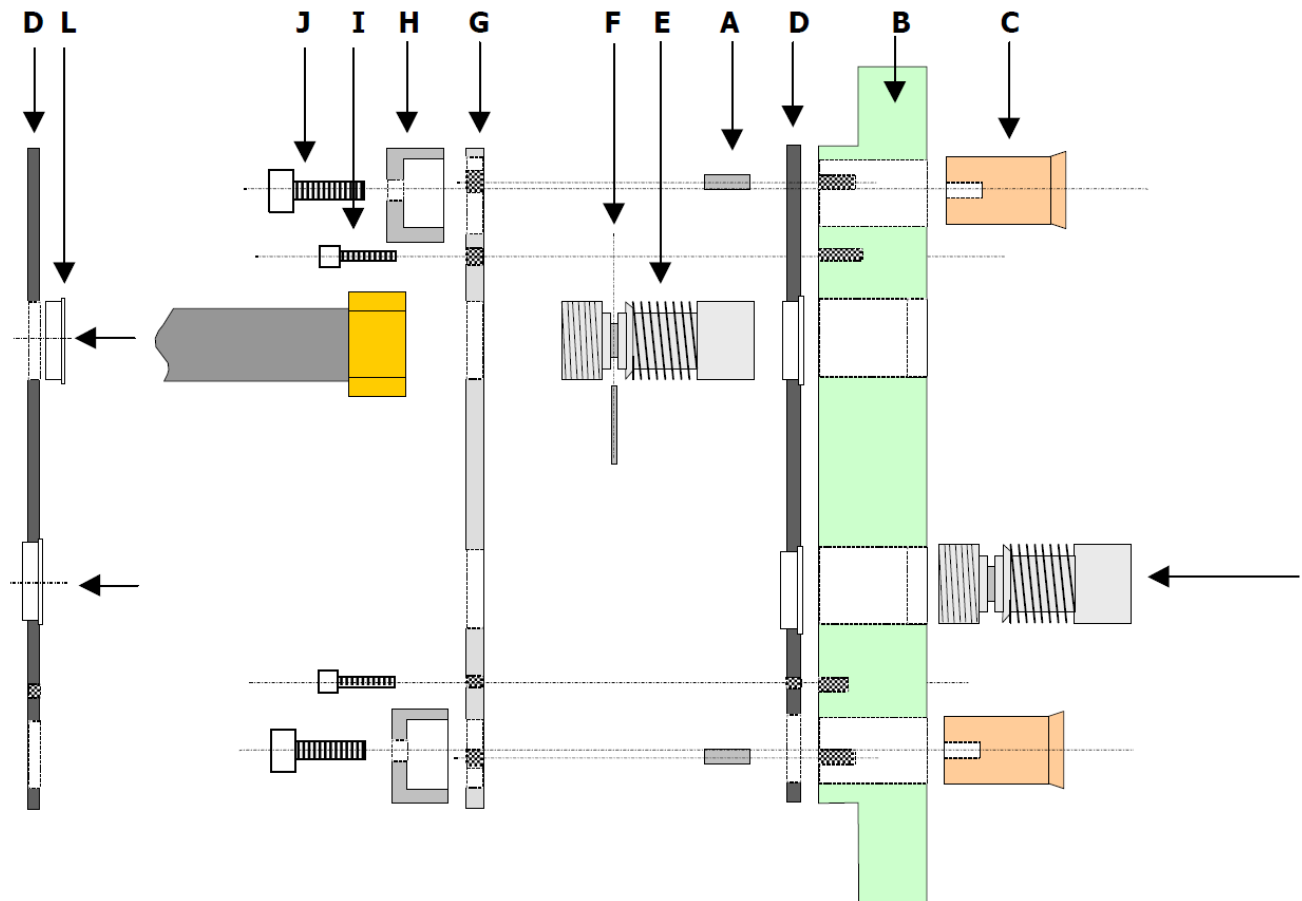
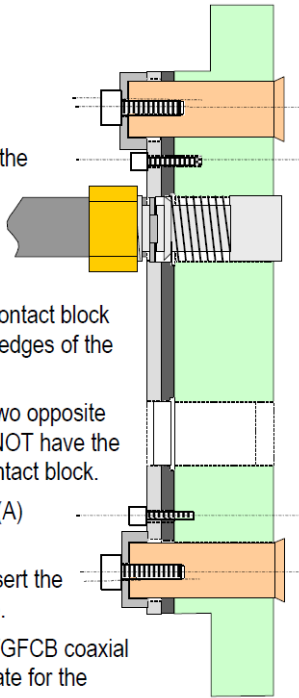


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ASSEMBLY INSTRUCTIONS VGFCB-4C & VGFCB-9C

STEP

- 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.
- 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.
- 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.
- Insert the locking plate (D) over the dowel pins (A) mounted to the backside of the contact block.
- From the front side of the VGFCB assembly, insert the coaxial contact (E) through the appropriate hole.
- 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).
- Repeat steps 5 and 6 for all desired contacts.
- 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.
- Place cap screws in screw holes (I) and lightly secure with Allen wrench.
- 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.
- Lightly tighten screws.
- Firmly tighten all screws/hardware. Do not over tighten.
- Assemble all cable assemblies and attach from rear.



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