

ASSEMBLY, INSTALLATION, & REMOVAL OF CONTACTS & MODULES

MICRO COAX

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RECEIVER CONTACT ASSEMBLY

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The information contained herein is subject to change.

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RECEIVER CONTACT ASSEMBLY

CONTACT PART # 610 140 101/102/103 (RG316/ 178/179)
TOOL PART # 910 101 131 KIT (RG178), 910 101 132 KIT (RG316/179), 910 101 135, 910 121 178, 910 121 179



- Strip outer jacket (Figure A).
 - *NOTE: Dimensions can be found in the chart below (Figure G).
- Slide the ferrule onto the wire and fold braid back over ferrule (Figure B). Comb braid and make sure that it covers 50-100% of the smaller portion of the ferrule but does not reach past the shoulder. If using a nickel ferrule proceed to Step 4.
- 3. Strip the wire center conductor (Figure C).
- Place contact center in solder fixture and solder wire center conductor into contact center conductor (Figure D). Clean. Contact center conductor and dielectric must touch (Figure E).
- 5. Calibrate the inspection depth gauge (Figure F), by loosening the dial face retaining screw until the dial face allows itself to be turned. Insert the calibration plug into base of gauge. While keeping constant pressure on the plug, adjust the dial by rotating it so that the pointer is at "0". Retighten retaining screw. Adjust locating markers to "8" and "97".



Dimensions shown: [millimeters] inches

Contact P/N	Ferrule Finish	Wire Type	Strip 'A'	Strip 'B'
610 140 101	Nickel	DC 216	[1.45 ±.13/0.00] 0.057 ±0.005/0.00	[4.95 ±0.13/0.00] 0.195 ±.005/0.00
610 140 101	Gold	RG-316	No Center Strip	[4.83 ±0.13/0.00] 0.190 ±.005/0.00
	Nickel		[1.45 ±.13/0.00] 0.057 ±0.005/0.00	[4.70 ±0.13/0.00] 0.190 ±.005/0.00
610 140 102	Gold	RG-178	No Center Strip	[4.70 ±0.13/0.00] 0.185 ±.005/0.00
610 140 103	Nickel	DC 170	[1.45 ±.13/0.00] 0.057 ±0.005/0.00	[4.70 ±0.13/0.00] 0.185 ±.005/0.00
610 140 103	Gold	RG-179	No Center Strip	[4.83 ±0.13/0.00] 0.190 ±.005/0.00

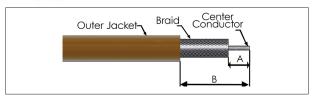


Figure A. Dimensions defined below in Figure G.

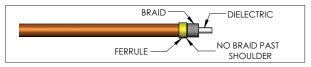


Figure B.

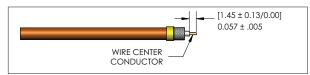


Figure C.

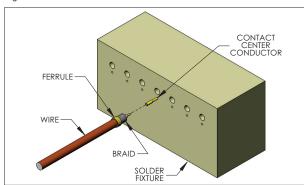


Figure D. Solder Fixture, part # 910 121 178.

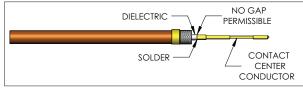


Figure E. Ensure contact center conductor and dielectric touch.

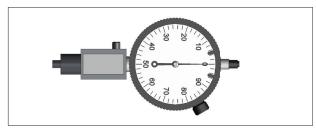


Figure F. Inspection Depth Gauge, Part # 910 121 179.

RECEIVER CONTACT ASSEMBLY (CONT'D)

CONTACT PART # 610 140 101/102/103 (RG316/178/179)

TOOL PART # 910 101 131 KIT* (RG178), 910 101 132 KIT* (RG316/179), 910 101 135, 910 121 178, 910 121 179

TOOLS REQUIRED

5/64 Allen wrench

- 6. Slide shield over center conductor until the shield stops flush (**Figure G**). Do not twist the shield conductor; twisting will cause the braid to bunch.
- 7. Check the flush dimension (Figure H) using the inspection depth gauge. Insert contact into gauge until contact stops. If gauge measures between "8" and "97," go to step 8. If the pointer is out of the range of the two markers, slide the ferrule to adjust. Repeat steps 1-7 if necessary.
- Before using the crimp tool* (Figure I), you must ensure you have the correct
 the locator installed (Figure J). To replace, remove the 2 screws using a 5/4 Allen
 wrench and replace the existing locator in the die assembly(Figure K). Tighten the
 2 screws.
- 9. Crimp using crimp tool. To ensure proper crimp position, press shield flush inside the locator (**Figure L**).
- Perform precision ratchet action by opening and closing crimp tool fully several times. The tool cannot be opened without completing a cycle. Never attempt to disassemble tool. Never tighten or loosen stop nuts on back of tool.
- Wire must not be allowed to pull on the center conductor during crimping (for example, long wire hanging down to floor). Ensure outer shield is flush with ferrule after crimping (Figure M).
- 12. Use the inspection depth gauge to verify the flush +.003"/ -.008" dimension as shown in step 7. If the dimension is out of range, repeat steps 1-10.
 - *NOTE: Crimp tool and parts are included with kit. Kit part number based on AWG (part numbers indicated above). Exact contents of each kit can be found online by part number at vpc.com.

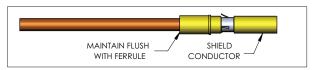


Figure G. Shield must be flush with ferrule.

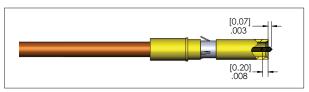


Figure H. Flush dimensions +.003"/ -.008".





Figure I. Figure J. p/n 910 101 135

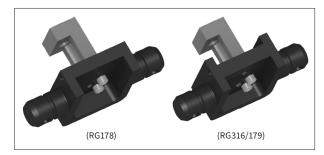


Figure K. Locator in die assembly.

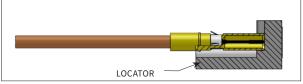


Figure L. Contact with locator.

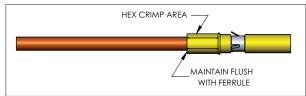


Figure M. Final assembly.

RECEIVER CONTACT ASSEMBLY

CONTACT PART # 610 140 104 (RG316 DOUBLE-SHIELDED)

TOOL PART # 910 121 178, 910 121 179



- 1. Strip the outer jacket (Figure A) and tin the braid.
- 2. Perform second strip (**Figure B**). 0.17" [4.32] will be trimmed from the front of the wire to remove any solder build-up.
- Place contact center conductor into soldering fixture (Figure C). Solder wire center conductor into contact center conductor. Clean. Contact center conductor and dielectric must touch (Figure D).
- 4. Slide shield over the center conductor (Figure E).
- 5. Calibrate the inspection depth gauge (Figure F), by loosening the dial face retaining screw until the dial face allows itself to be turned. Insert the calibration plug into base of gauge. While keeping constant pressure on the plug, adjust the dial by rotating it so that the pointer is at "0". Re-tighten retaining screw. Adjust locating markers to "8" and "97".
- 6. Check the contact's flush dimensions (Figure G) by using the inspection depth gauge. Insert contact into gauge until contact stops. If the gauge reads between "8" and "97", go to the next step. If the gauge reads below the "97" marker, slide the shield to adjust. If the reads above the "8" marker, cut the strip off and repeat steps 1-5.
- Solder the shield and clean. Make sure the shield does not move when soldering.
- Recheck using the inspection depth gauge to verify the flush dimension using process in step 6. If the dimension is out of range, repeat steps 1-6.

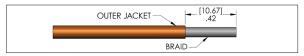


Figure A. Strip outer insulation to dimension shown.

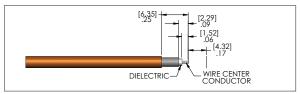


Figure B. Second strip will remove any solder build-up.

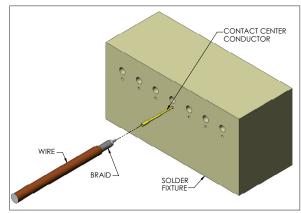


Figure C. Soldering Fixture, part # 910 121 178.



Figure D. Ensure contact center conductor and dielectric touch.



Figure E. Add shield.

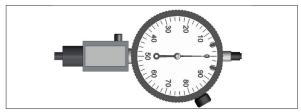


Figure F. Inspection Depth Gauge, Part # 910 121 179.



Figure G. Flush dimensions.

CONTACT INSTALLATION AND REMOVAL- RECEIVER

CONTACT PART # 610 140 101/102/103/104

MODULE, TOOL PART # 510 104 267/ 306, 910 112 123

TOOLS REQUIRED

Phillips Head Screwdriver

INSTALLATION

- Assemble the contact to the respective wire.
- Insert the terminated contact into the back of the assembled module. The
 contact can only be installed from the back side. Once in place, pull the wire
 slightly to ensure that the contact is fully seated.

NOTE: For optimum performance and system longevity, distribute the contact load evenly throughout the module.

REMOVAL

- 1. Remove the module from the receiver frame.
- Use a Phillips head screw driver to loosen the two 2-56 screws located at the top and bottom of the module.
- Grasp the module halves and apply force in opposite directions, rocking the
 ends of the module while slightly pulling the top of the module away from the
 mating bottom section, until separated. Be sure to pull both sides of the module
 simultaneously or contacts could be damaged.
- Place the extraction tool over the contact to be removed (Figure A). Use care to keep the tool perpendicular to the surface of the module, otherwise the tool or contact could be damaged.
- Once the extraction tool is seated and the retaining tabs on the retaining ring are compressed (Figure B), push the plunger. The contact will be pushed out of the rear of the module.
- Replace the module top-half using both hands to push the separated halves together. Replace and tighten the module 2-56 screws to a maximum torque of 1.5 in-lbs [0.169 Nm].

NOTE: The process shown here uses 90 Series modules. The same process is used for iSeries modules.



DO NOT DEPRESS THE PLUNGER ON THE BACK OF THE EXTRACTION TOOL UNTIL THE TIP OF THE EXTRACTION TOOL HAS FULLY SEATED INTO THE MODULE AND COMPRESSED THE RETAINING RING TABS ON THE CONTACT, OTHERWISE THE RETAINING RING COULD BE DAMAGED.



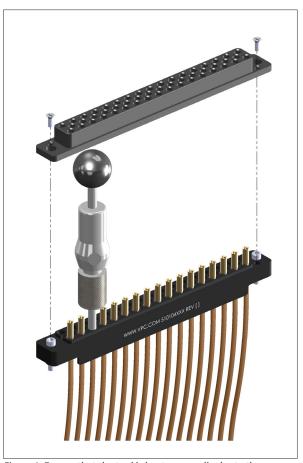


Figure A. Ensure that the tool is kept perpendicular to the module face to avoid damage to the contact or tool.

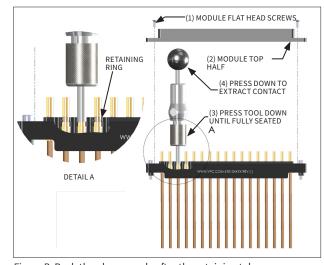


Figure B. Push the plunger only after the retaining tabs are compressed.

CONTACT INSTALLATION AND REMOVAL- RECEIVER

CONTACT PART # 610 140 101/102/103/104

MODULE, TOOL PART #510 104 270, 910 112 123

TOOLS REQUIRED

3/64 Allen Wrench

INSTALLATION

- 1. Assemble the contact to the respective wire.
- Insert the terminated contact into the back (wiring side) of the assembled module. The contact can only go into one side. Once in place, pull the wire slightly to ensure that the contact is seated.

NOTE: For optimum performance and system longevity, distribute the contact load evenly throughout the module.

REMOVAL

- 1. Remove the module from the receiver frame.
- 2. Use a 3/64 Allen wrench to remove the 0-80 screws (Figure A).
- Grasp the module halves and apply force in opposite directions, rocking
 the ends of the module while slightly pulling the top of the module away
 from the mating bottom section, until separated. Be sure to pull both
 sides of the module simultaneously or contacts could be damaged.
- Place the extraction tool (Figure B), over the contact to be removed.
 Use care to keep the tool perpendicular to the surface of the module, otherwise the tool or contact could be bent.
- Once the extraction tool is seated and the retaining tabs on the retaining ring are compressed, push the plunger. The contact will be pushed out of the rear of the module.
- Replace the module cap using both hands to push the separated halves together. Replace and tighten the module retaining screws to a maximum torque of .875 in-lbs [0.10 Nm].

NOTE: The process shown here uses 90 Series modules. The same process is used for iSeries modules.



DO NOT DEPRESS THE PLUNGER ON THE BACK OF THE EXTRACTION TOOL UNTIL THE TIP OF THE EXTRACTION TOOL HAS FULLY SEATED INTO THE MODULE AND COMPRESSED THE RETAINING RING TABS ON THE CONTACT, OTHERWISE THE RETAINING RING COULD BE DAMAGED.





Figure A.

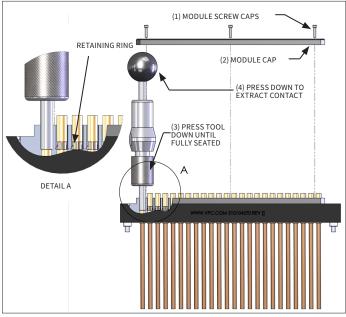


Figure B. Fully seat the extraction tool before depressing.

ITA CONTACT ASSEMBLY

CONTACT PART # 610 141 101/102/103 (RG316/178/179)

TOOL PART # 910 101 131 KIT (RG178), 910 101 132 KIT (RG316/179), 910 101 139, 910 121 178, 910 121 179



- Strip outer jacket and center conductor (Figure A).
 using dimensions can be found in the chart below (Figure F).
- Slide the ferrule onto the wire until it stops on outer jacket. Fold braid back over ferrule (Figure B). Comb braid and make sure that it covers 50-100% of the smaller portion of the ferrule but does not reach past the shoulder.
- Place contact center conductor in solder fixture and solder wire center conductor into contact center conductor (Figure C).
 Contact center conductor and dielectric must touch (Figure D).
- 4. Calibrate the inspection depth gauge (Figure E), by loosening the dial face retaining screw until the dial face allows itself to be turned. Insert the calibration plug into base of gauge. While keeping constant pressure on the plug, adjust the dial by rotating it such that the pointer points to "0". Re-tighten retaining screw. Adjust locating markers to "5" and "95."

Dimensions shown: [millimeters] inches

Figure F. Strip lengths.

Contact PN	Wire Type	Strip 'A'	Strip 'B'
610 141 101	RG-316	[1.45 ±0.13/0.00] 0.057 ± 0.005/0.00	[4.95 ±0.13/0.00] 0.195 ±.005/0.00
610 141 102	RG-178	[1.45 ±0.13/0.00] 0.057 ±0.005/0.00	[4.83 ±0.13/0.00] 0.190 ±.005/0.00
610 141 103	RG-179	[1.45 ±0.13/0.00] 0.057 ±0.005/0.00	[4.70 ±0.13/0.00] 0.185 ±.005/0.00

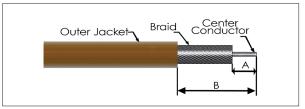


Figure A. Dimensions defined below.

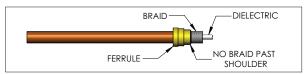


Figure B. Slide ferrule onto wire.

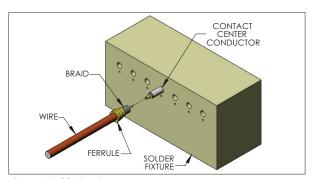


Figure C. Soldering Fixture, part # 910 121 178.

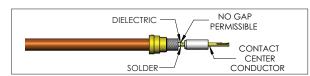


Figure D. Ensure contact center conductor and dielectric touch.

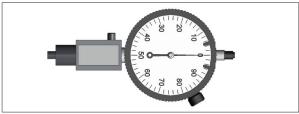


Figure E. Inspection Depth Gauge, part # 910 121 180.

ITA CONTACT ASSEMBLY (CONT'D)

CONTACT PART # 610 141 101/102/103 (RG316/178/179)

TOOL PART # 910 101 131 KIT (RG178), 910 101 132 KIT (RG316/179), 910 101 139, 910 121 178, 910 121 179

TOOLS REQUIRED

5/64 Allen wrench

- Slide shield over center conductor until it stops flush (Figure G). Do not twist the shield; twisting will cause the braid to bunch.
- 6. Check the flush dimension (Figure H) with the inspection depth gauge. Insert contact into gauge until contact stops. If gauge measures between 5 and 95, go to Step 8. If the pointer is out of the range of the two markers, slide the ferrule to adjust. Repeat steps 1-6, if necessary.
- Before using the crimp tool* (Figure I), you must ensure you have the correct
 the locator installed (Figure J). To replace, remove the 2 screws using a 5/4 Allen
 wrench and replace the existing locator in the die assembly (Figure K). Tighten
 the 2 screws.
- Crimp using crimp tool. To ensure proper crimp position, slide shield over pin on the locator (Figure L).
- Perform ratchet action by fully opening and closing crimp tool several times. The tool cannot be opened without completing a complete cycle. Never attempt to disassemble the tool. Never tighten or loosen stop nut on back of tool.
- 10. Wire must not be allowed to pull on the center conductor during crimping (for example, long wire hanging down to floor). Ensure outer shield is flush with ferrule after crimping (Figure M).
- 11. Use the inspection depth gauge to verify the .136" ± .005 dimension as shown in Step 7. If the dimension is out of range, repeat steps 1-10.

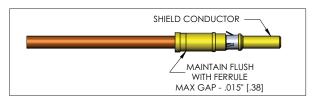


Figure G. Shield must be flush with ferrule.

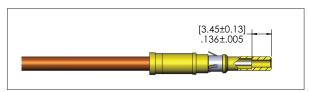


Figure H. Flush dimensions (.136" ± .005).





Figure I. Figure J. p/n 910 101 139



Figure K. Locator in die assemblies.



Figure L.

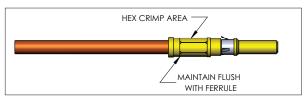


Figure M. Final assembly.

^{*}NOTE: Crimp tool and parts are included with kit. Kit part number based on AWG (part numbers indicated above). Exact contents of each kit can be found online by part number at vpc.com.

ITA CONTACT ASSEMBLY

CONTACT PART # 610 141 104 (RG316 DOUBLE-SHIELDED)

TOOL PART # 910 121 178, 910 121 180



- 1. Strip the outer jacket (Figure A) and tin the braid.
- Perform second strip (Figure B). 0.17" [4.32] will be trimmed from the front of the wire to remove any solder build-up.
- Place contact center conductor into soldering fixture (Figure C). Solder wire center conductor into contact center conductor and clean. Contact center conductor and dielectric must touch (Figure D).
- 4. Slide the shield over the center conductor (Figure E).
- 5. Calibrate the inspection depth gauge (Figure F), by loosening the dial face retaining screw until the dial face allows itself to be turned. Insert the calibration plug into base of gauge. While keeping constant pressure on the plug, adjust the dial by rotating it such that the pointer points to "0". Re-tighten retaining screw. Adjust locating markers to "5" and "95".
- 6. Check the contact's flush dimensions with the inspection depth gauge (Figure G). Insert contact into gauge until contact stops. If gauge reads between "5" and "95", proceed to Step 7. If the pointer reads below the "95" marker, slide the shield to adjust. If the pointer reads above the "5" marker, cut the strip off and repeat steps 1-4.
- Solder the shield and clean. Make sure the shield does not move while soldering.
- Recheck using the inspection depth gauge and verify the flush dimensioning process in Step 6. If the dimension is out of range, repeat steps 1-6.

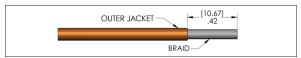


Figure A. Strip outer insulation to dimension shown.

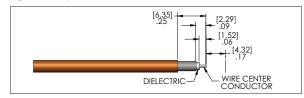


Figure B. Second strip will remove any solder build-up.

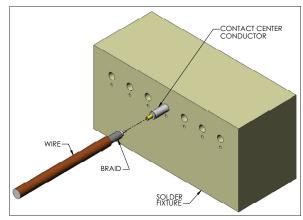


Figure C. Soldering Fixture, Part #910 121 178.

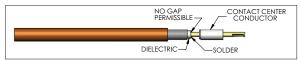


Figure D. Ensure contact center conductor and dielectric touch.



Figure E. Add shield.

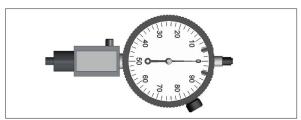


Figure F. Inspection Depth Gauge, part # 910 121 180.



Figure G. Flush dimensions .136" ± .005.

CONTACT INSTALLATION AND REMOVAL- ITA

CONTACT PART # 610 141 101/102/103/104

MODULE, TOOL PART# 510 108 262/263/278, 510 161 106/107/111/112/113, 910 112 123

INSTALLATION

- 1. Assemble the contact to the respective wire.
- Insert the terminated contact into the back of the module. Push the contact
 forward until the crimp is inside the module housing. The contact can only be
 installed from the back side. Once in place, pull the wire slightly to ensure the
 contact is fully seated.

NOTE: For optimum performance and system longevity, distribute the contact load evenly throughout the module.

REMOVAL

- 1. Remove the module from the ITA frame.
- Place the extraction tool (Figure A) over the contact to be removed. Use care
 to keep the tool perpendicular to the surface of the module, otherwise the tool
 or contact could be damaged. Rotate the tool slightly while pushing it into the
 counter bore on the mating side of the module.
- Once the extraction tool is seated properly and the tabs on the retaining ring are compressed (Figure B), push the plunger. The contact will be pushed out of the rear of the module.

NOTE: The process shown here uses 90 Series modules. The same process is used for iSeries modules.



DO NOT DEPRESS THE PLUNGER ON THE BACK OF THE EXTRACTION TOOL UNTIL THE TIP OF THE EXTRACTION TOOL HAS FULLY SEATED INTO THE MODULE AND COMPRESSED THE RETAINING RING TABS ON THE CONTACT, OTHERWISE THE RETAINING RING COULD BE DAMAGED.



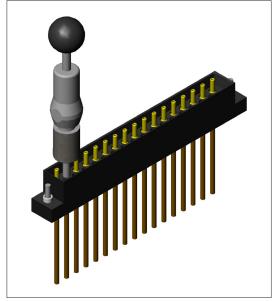


Figure A. Ensure that the tool is kept perpendicular to the module face to avoid damage to the contact or tool.

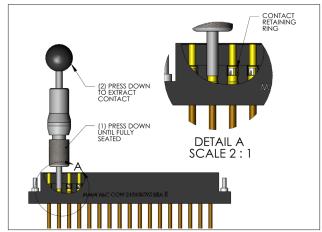


Figure B. Push the plunger only after the retaining tabs are compressed.

MODULE INSTALLATION AND REMOVAL- 90 SERIES

PART # 510 108 262/ 263/ 278 510 104 267/ 270/ 306

TOOLS REQUIRED

3/32 Allen Wrench

INSTALLATION

- Place the module into the receiver or ITA until the upper and lower module screws touch the mating holes in the inner frame. Ensure that Position 1 is located at the top for systems in which the modules are oriented vertically or to the left for systems in which the modules are oriented horizontally.
- 2. Using a 3/22 Allen wrench, tighten the top screw 1 to 2 full revolutions, while pushing lightly against the face of the module.
- Maintain this pressure while tightening the bottom screw 1 to 2 full revolutions.
- Repeat this sequence until the module is seated. Torque the screw to 4 in-lbs [0.45 Nm].

REMOVAL

- To remove, loosen the top screw 1 to 2 full revolutions. Loosen bottom screw 1 to 2 full revolutions.
- Repeat this sequence until the module is separated from the receiver or ITA.

NOTE: Push or pull the module evenly from the top and bottom to prevent damage to the module.

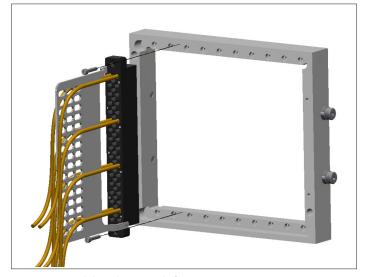


Figure C. ITA Module with strain relief.



Figure A. Receiver Module.

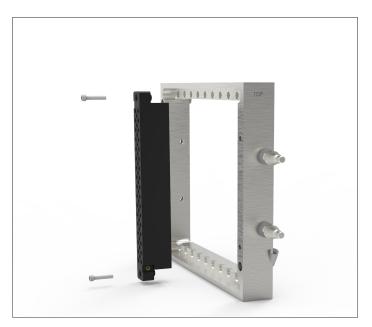


Figure B. ITA Module.

MODULE INSTALLATION AND REMOVAL- iCON/i1

PART# 510 161 106/ 107/ 111, 510 160 106/ 107/ 111/ 112/ 113

TOOLS REQUIRED

Phillips Head Screwdriver

INSTALLATION

NOTE: The receiver strain relief plate or the ITA cover may need to be removed prior to installing or removing an iCon module.

- Place the module in the receiver or ITA until the upper and lower module screws touch the mating holes in the inner frame. Install modules such that Position 1 is located at the top of the ITA/receiver frame.
- 2. Using a Phillips head screwdriver, tighten the top screw 1 to 2 full revolutions, while pushing lightly against the face of the module.
- Maintain this pressure while tightening the bottom screw 1 to 2 full revolutions.
- Repeat this sequence until the module is seated. Torque the screw to 1.5 in-lbs [0.16 Nm].

REMOVAL

- To remove, loosen the top screw 1 to 2 full revolutions. Loosen bottom screw 1 to 2 full revolutions.
- Repeat this sequence until the module is separated from the receiver or ITA.

NOTE: Push or pull the module evenly from the top and bottom to prevent damage to the module.

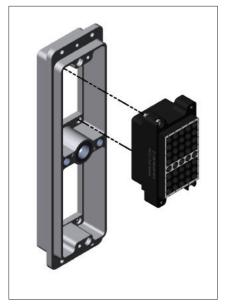


Figure A. Receiver Module.

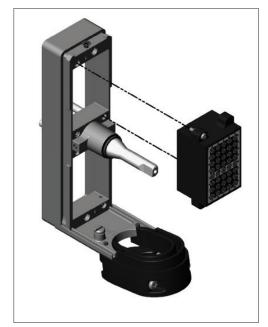


Figure B. ITA Module.

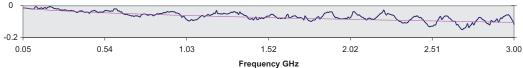
CONTACT PERFORMANCE SPECIFICATIONS

PART # 610 140 101/102/103, 610 141/102/103

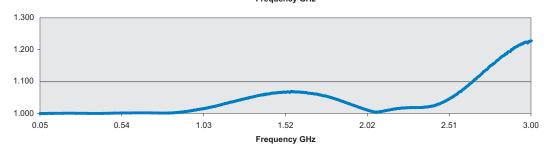
ELECTRICAL SPECIFICATIONS (*p/n* 610 140 101/ 102, 610 141 101/ 102)

IMPEDANCE	50 Ohm for RG316 or RG178/ 75 Ohm for RG179					
FREQUENCY RANGE	DC - 3 GHz for RG316 or RG178/ DC-1 GHz for RG179					
DIELECTRIC BREAKDOWN	800 VRMS					
VSWR	1.22 @ 3 GHz					
INSERTION LOSS	.06 x √f(GHz) db					
RECOMMENDED TERMINATION	610 140 101/ 610 141 101: RG316 610 140 102/ 610 141 102: RG178 610 140 103/ 610 141 103: RG179					

db INSERTION LOSS



VSWR RATIO



MECHANICAL CHARACTERISTICS

LIFE EXPECTANCY (CYCLES)	10,000
MATING FORCE	1.5 lbs max [0.68 kg]
EXTRACTION FORCE	1.5 lbs max [0.68 kg]

MATERIAL

OUTER SHIELD (ITA)	Brass per ASTM - B-16 / .000050" Au over .000100" Ni
OUTER SHIELD (RCVR)	Brass per ASTM - B-16 / .000050" Au over .000100" Ni
CENTER CONDUCTOR (ITA)	BeCu per ASTM - B-196 / .000050" Au over .000100" Ni
CENTER CONDUCTOR (RCVR)	BeCu per ASTM - B-196 / .000050" Au over .000100" Ni
RETAINING RING	BeCu per ASTM - B-196 / .000100" Ni
FERRULE	Brass per ASTM - B-16 / .000010" Au over .000100" Cu
DIELECTRIC	PTFE Fluorocarbon

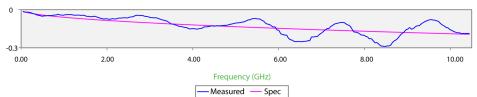
DOUBLE SHIELDED CONTACT PERFORMANCE SPECIFICATIONS

PART # 610 140 104, 610 141 104

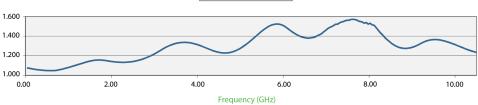
ELECTRICAL SPECIFICATIONS

IMPEDANCE	50 Ohm for RG316DS
FREQUENCY RANGE	DC - 10.5 GHz
DIELECTRIC BREAKDOWN	800 VRMS
vswr	1.0225 + .05 f(GHz)
INSERTION LOSS	.06 x √f(GHz) db
RECOMMENDED TERMINATION	RG316DS

db INSERTION LOSS



VSWR RATIO



MECHANICAL CHARACTERISTICS

LIFE EXPECTANCY (CYCLES)	10,000
MATING FORCE	1.5 lbs max [0.68 kg]
EXTRACTION FORCE	1.5 lbs max [0.68 kg]

MATERIAL

OUTER SHIELD (ITA)	Brass per ASTM - B-16 / .000050" Au over .000100" Ni
OUTER SHIELD (RCVR)	Brass per ASTM - B-16 / .000050" Au over .000100" Ni
CENTER CONDUCTOR (ITA)	BeCu per ASTM - B-196 / .000050" Au over .000100" Ni
CENTER CONDUCTOR (RCVR)	BeCu per ASTM - B-196 / .000050" Au over .000100" Ni
RETAINING RING	BeCu per ASTM - B-196 / .000100" Ni
FERRULE	Brass per ASTM - B-16 / .000010" Au over .000100" Cu
DIELECTRIC	PTFE Fluorocarbon

CROSS REFERENCE TABLES

	STANDARD/ 90 SERIES	RECEIVER MODULES			ICON RECEIVER	RECEIVER			CKIMP 100LS	LOCATOR	EXTRACTION	MISC.	
RECEIVER CONTACTS	510 104 267	510 104 270	510 160 106	510 160 107	510 160 111	510 160 112	510 160 113	910 101 131	910 101 132	910 101 135	910 112 123	910 121 178	910 121 179
610 140 101	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х	Х	Х
610 140 102	Х	Х	Χ	Х	Х	Х		Х		Χ	Х	Х	Х
610 140 103	Х	Х	Χ	Х	Х	Х			Χ	Χ	Х	Х	Х
610 140 104	Х	Χ	Χ	Х	Х	Х	Χ				Х	Χ	Х

	STANDARD/ 90 SERIES ITA MODULES			ICON ITA MODULES			CRIMP 100LS	LOCATOR	EXTRACTION		MISC.
ITA CONTACTS	510 108 262	510 108 263	510 161 106	510 161 107	510 161 111	910 101 131	910 101 132	910 101 139	910 112 123	910 121 178	910 121 180
610 141 101	Х	Χ	Х	Х	Х		Х	Χ	Х	Χ	Х
610 141 102	Х	Х	Х	Х	Х	Х		Х	Х	Х	Х
610 141 103	Х	Х	Х	Х	Х		Х	Х	Х	Х	Х
610 141 104	Х	Х	Х	Х	Х				Х	Х	Х