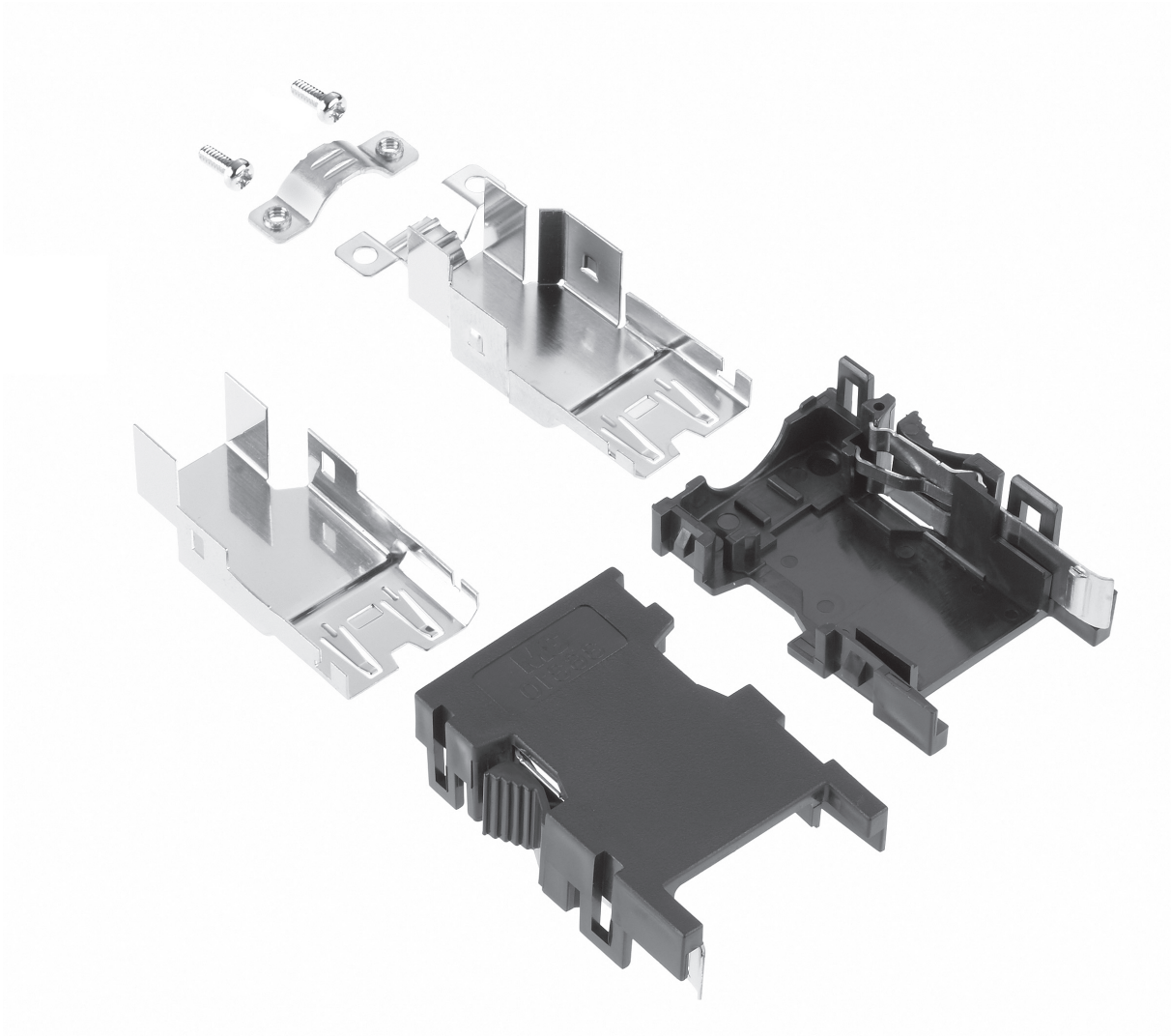




Shielded Compact Ribbon (SCR) Wiremount Receptacle, 36210-0100XX, and Shell Kit, 36310-3200-XXX

Instructions



General

This instruction manual explains the method of assembling the 3M™ Shielded Compact Ribbon (SCR) Wiremount Receptacle and Shell Kit. Full details of wiring pin-outs vary by application and are not covered in this document.

Components

The components of the SCR Wiremount Receptacle and Shell Kit are listed below(reference Fig. A).

Item	Description	Quantity
1	Metal shell base	1 ea.
2	Metal shell cover	1 ea.
3	Cable clamp	1 ea.
4	Screw (M2 x 5 mm long)	2 ea.
5	Plastic shell	2 ea.
6	Wiremount receptacle	1 ea.

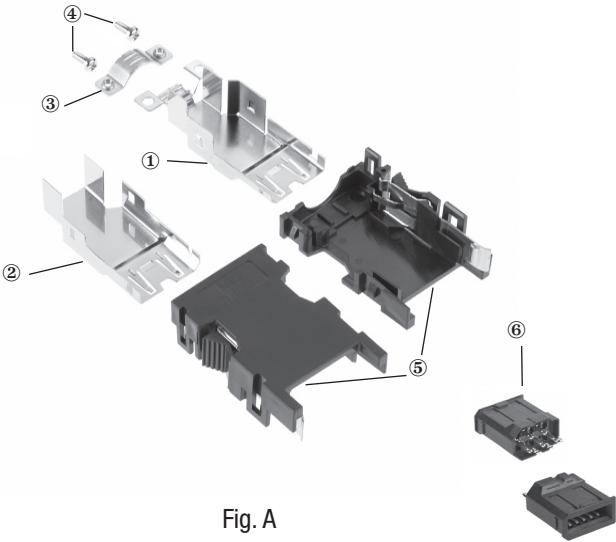


Fig. A

Cable Accommodation

Cable jacket outside diameter:

- 7 mm [.28"] minimum
- 9 mm [.35"] maximum

Conductor size:

- 18 AWG maximum
- 30 AWG minimum

Tools and Materials Required

Safety glasses are recommended; please follow your company's health, safety and environmental policies regarding protective apparel.

- Cable cutting tool
- Cable jacket stripping tool
- Wire strippers
- Cutters
- No. 1 Phillips head screwdriver
- Vise or equivalent to hold the connector
- Soldering iron
- Lead-free solder
- Flux
- Hot air gun
- Copper Foil Shielding Tape, 6.35 mm [0.25"] wide (3M™ Copper Foil Shielded Tape, EMI 1181 or 1285 recommended)
- Heat-shrink tubing, 10 mm [0.4"] length

Assembly Procedure for 3M™ Shielded Compact Ribbon (SCR) Wiremount Receptacle and Shell Kit

- 1.0 Strip 15 – 20 mm [0.59" – 0.79"] of cable jacket.

Note: Strip length may be adjusted to accommodate differing wire gauges.

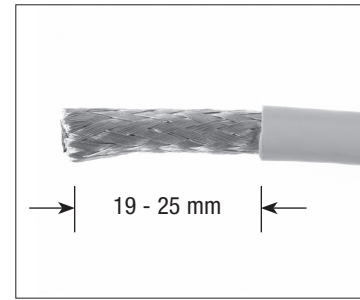


Fig. 1.0

- 2.0 Fold back the metallic braid over the jacket. Trim braid to a length of 5 – 7 mm [0.20"-0.28"].

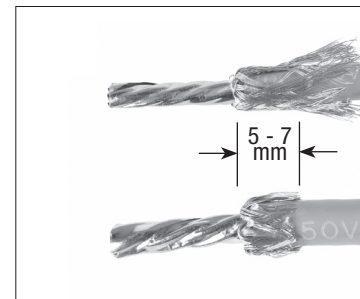


Fig. 2.0

- 3.0 Apply 1-1/2 to two turns of copper tape over the braid. No braid should be visible past the edge of the copper tape. If needed, use cutters to trim braid.

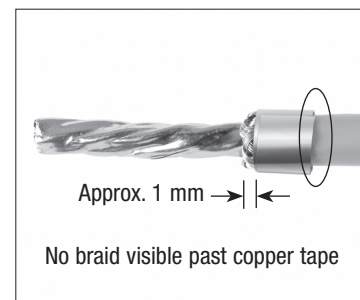


Fig. 3.0

- 4.0 Trim any remaining foil shield, plastic insulator film and/or filler materials.



Fig. 4.0

Assembly Procedure for 3M™ Shielded Compact Ribbon (SCR) Wiremount Receptacle and Shell Kit

- 5.0a Strip wires to a length of 4 – 6 mm [.15”-.25”]. Stranded wires may be tinned to prevent unraveling. Remove any loose strands which may cause electrical shorts.

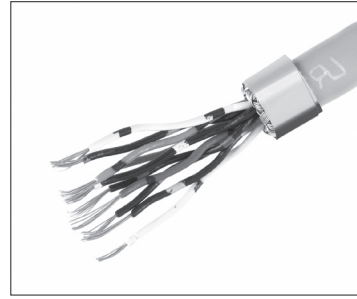


Fig. 5.0a

- 5.0b Cut heat-shrink tubing to approximately 10 mm [0.4”] and load one tube per wire.

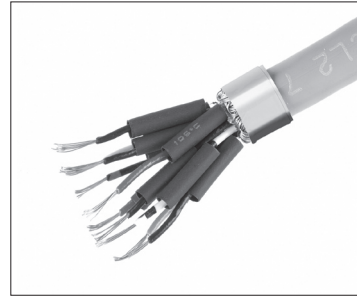


Fig. 5.0b

- 6.0 Secure the connector in holding vise or fixture as needed. Pre-tin the connector terminals using a soldering iron. **To prevent damage to the connector, do not apply heat to a terminal for longer than 3 - 5 seconds.**



Fig. 6.0

- 7.0a Solder wires to the connector terminals following the desired connection scheme. **To prevent damage to the connector, do not apply heat to a terminal for longer than 3 - 5 seconds.**

- 7.0b Slide the heat-shrink tubes forward to fully cover the soldered joints. Shrink the tubes in place by applying heat with a hot air gun.



Fig. 7.0a and 7.0b

- 8.0 Assemble the connector into the metal shell base.

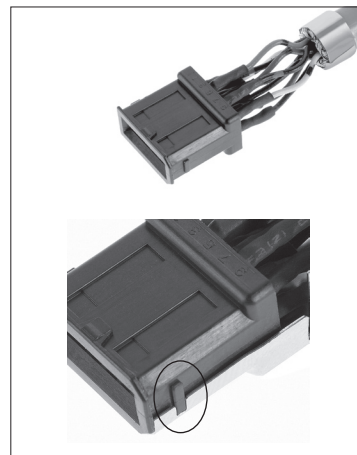


Fig. 8.0

Assembly Procedure for 3M™ Shielded Compact Ribbon (SCR) Wiremount Receptacle and Shell Kit

- 9.0 Adjust the position of the cable such that the copper tape lies fully inside the cable clamp area of the metal shell base. The far edge of the copper tape should align with the edge of the cable clamp. Place the cable clamp over the cable. Turn the assembly over, insert the screws through the holes in the metal shell base and start them in the threaded holes of the cable clamp. Assemble the cable clamp gradually by alternately tightening each screw. Be careful not to exert excessive stress on the wires while handling the connector. The maximum allowable torque is 40N-cm.

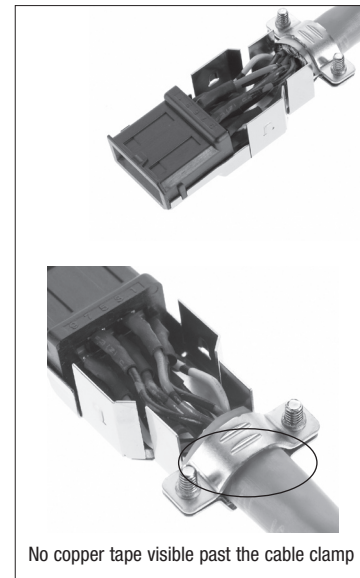


Fig. 9.0

- 10.0 Turn the assembly over to install the metal shell cover. Align the cover to the base and push the latches in evenly.

After assembly, verify that the latches are properly and securely fastened.

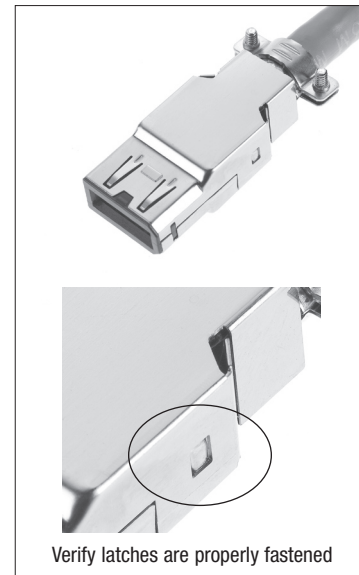


Fig. 10.0

- 11.0 Assemble connector to one of the plastic shells.

Note: *Plastic shell halves are identical.*

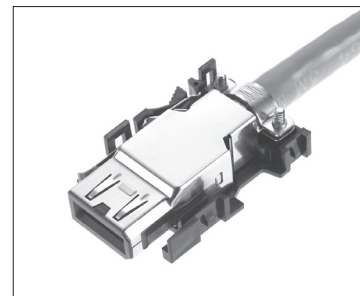


Fig. 11.0

Assembly Procedure for 3M™ Shielded Compact Ribbon (SCR) Wiremount Receptacle and Shell Kit

- 12.0 Assemble other plastic shell to bottom plastic shell. Audible clicks should be heard when latches are properly assembled.

After assembly, make sure that latches are properly secured and fastened. Verify no gap exists between mating plastic shells.

Verify that the connector is securely held by the shells.

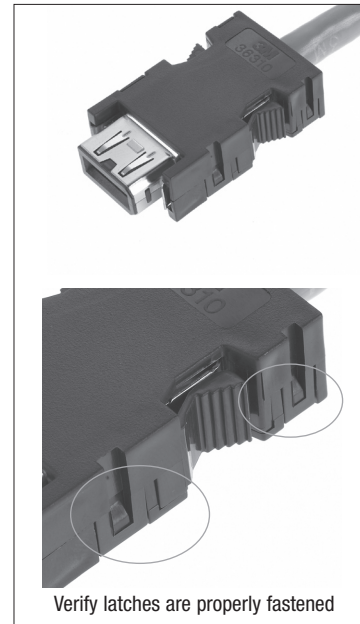


Fig. 12.0

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