

GS-2

Ground Strap Assembly

for Ribbon and Wire Shielded Cables

3M St. Paul, MN 55144 Made in U.S.A. 34-7017-6493-7

Each **3**

Instructions for Ribbon or Wire Shielded and Unishield® Cables

NOTE: Check to be sure cable conductor size fits within Ground Strap Assembly Product Number as shown in table A.

Table A

Product No.	Conductor Size Range (AWG kcmil)						
	5kv	8kv-100%	8kv-133%	15kv-100%	15kv-133%	25kv	35kv
GS-1	8-3/0	8-1/0	8-1	—	—	—	—
GS-2	2/0-750	1/0-750	1-600	2-500	2-350	2-400	1/0-300
GS-3	600-2000	500-2000	400-1750	350-1750	250-1500	3/0-1000	1/0-750

For Ribbon Shielded Cable

A. Prepare Shielding

1. Cut shielding off evenly, leaving one inch exposed beyond jacket cut off. Figure 1.

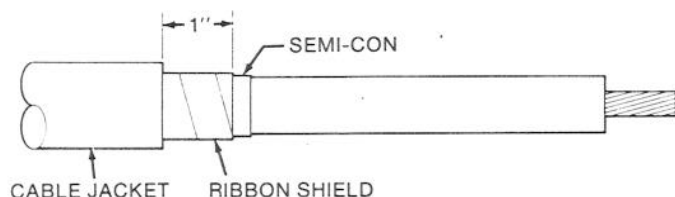


Figure 1

2. Proceed to Step B on back page.

For Wire Shielded Cable

A. Prepare Shielding

1. Wrap two full wraps of Scotch Brand 24 Shielding Tape over shielding wires at jacket edge with front edge of 24 Tape one inch from jacket cut off. Figure 2.

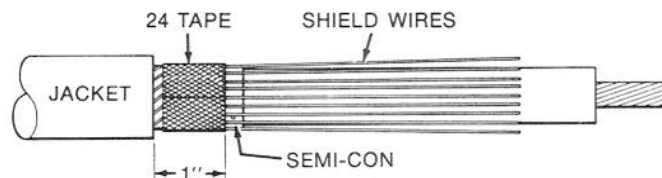


Figure 2

2. Bend shielding wires back over 24 Tape and cut excess off at jacket edge. Figure 3.

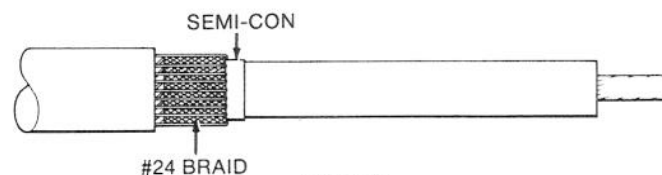


Figure 3

3. Proceed to Step B on back page.

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Issue	Date	Rev.	Ch.
Not to scale			
Dr.	J.F.KRENIK	Ch.	9/2/82
2047 MT29			
Electro-Products Division/3M			
St Paul, MN 55144 Made in U.S.A.			

3M Grounding Strap Assembly
for Shielded Cables

GS-2

For Unishield® Cable

NOTE: The ground strap assembly is not needed. (Wires are usually bent over jacket and serve as grounding).

If Ground Strap Assembly is desired, handle as follows:

A. Prepare Shielding

1. Pull wires out of jacket for distance of one inch. Figure 4.
2. Wrap two full wraps of Scotch 24 Shielding Tape at edge of pull out as shown in Figure 4.

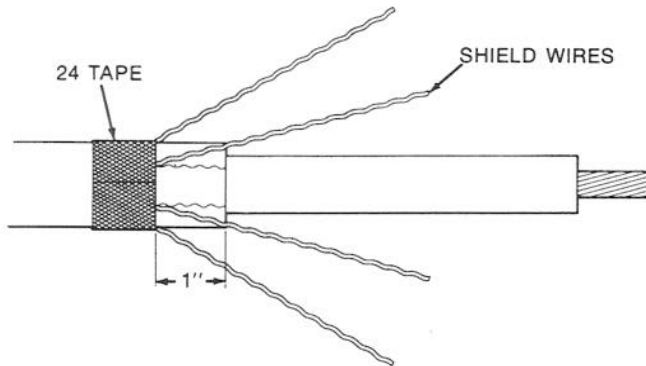


Figure 4

3. Bend wires back over 24 Tape and cut excess off at edge of 24 Tape. Figure 5.

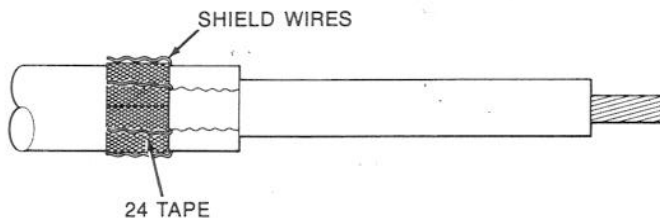


Figure 5

B. Install Ground Strap

1. Unwrap 1 to 2 inches of coil.
2. Lay the ground strap along cable with the extended coil facing downward (away from you). (Figure 6).
NOTE: Coil should be in contact with the cable ribbon shielding or shield wires, and as close as possible to the cable jacket end. On Unishield® cable center over #24 Tape and shield wires.

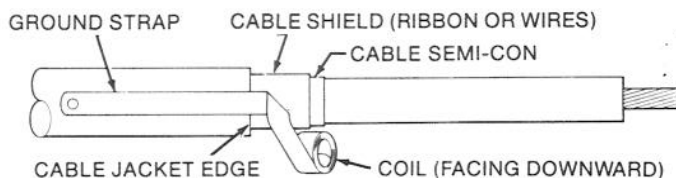


Figure 6

3. Hold the coil in place with thumb. Pull the coil around the cable allowing it to unwrap and rewrap around the shielding and itself. (Figure 7.)
NOTE: Synch (tighten) the applied coil after final wrap.

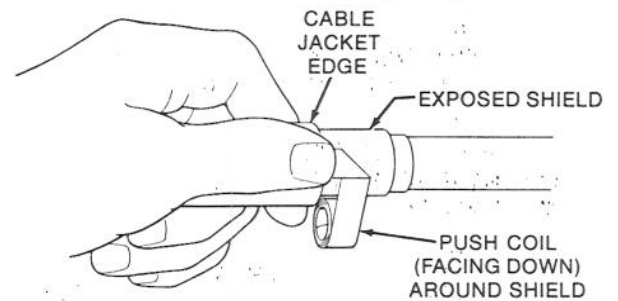


Figure 7

4. Attach ground wire to hole in ground strap.
5. If practice calls for sealing over Ground Strap Assembly, follow steps a and b (after termination device has been installed).
 - a. Apply one wrap of Scotch #130C Tape around ground strap, as close as possible to edge of jacket. (Figure 8.)

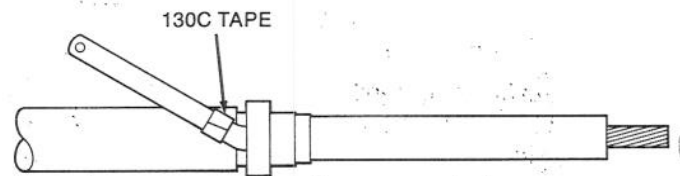


Figure 8

- b. Apply three wraps, highly stretched 130C Tape around the cable and over the 130C Tape just applied around ground strap. (Figure 9.)

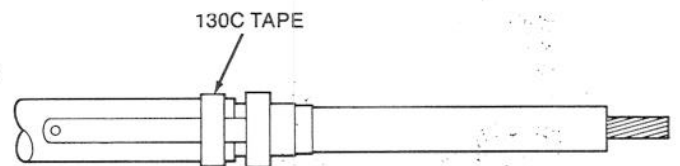


Figure 9

- c. Apply two half-lapped layers of Scotch #33+ around cable, overwrapping the #130C Tape and applied coil.

Litho in U.S.A. with 3M Offset Plates, Film and Chemicals.