

GROUNDING HARNESES DESCRIPTION

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1. GENERAL

1.01 This practice provides information on the various Type GH Grounding Harnesses and the GHT-1 Grounding Harness Compression Tool. This practice is reissued to delete reference to the Type GH-4 grounding harness, to add the Type GH-8 grounding harness and ordering information for the grounding harnesses and compression tool.

1.02 Type GH grounding harnesses are used for grounding and interconnecting shields of plastic insulated, plastic jacketed wires and cables.

2. ORDERING INFORMATION

2.01 Use the following catalog numbers when ordering grounding harnesses and/or the compression tool through local purchasing channels:

- a. Type GH-1 Grounding Harness: CTS #90-51-001-0.

b. Type GH-2 Grounding Harness: CTS #90-51-002-0.

c. Type GH-3 Grounding Harness: CTS #90-51-003-8.

d. Type GH-7 Grounding Harness: CTS #90-51-007-1.

e. Type GH-8 Grounding Harness: CTS #90-51-006-2.

f. Type GHT-1 Grounding Harness Compression Tool: CTS #74-88-471-9.

3. GROUNDING HARNESES

3.01 Type GH-1: Used for grounding the shields of direct buried cables at pedestal and pole mounted terminals. Consists of a tinned, Termi-foil connector crimped to one end of a No. 14 AWG solid tinned copper conductor insulated with green PVC. The overall length is 16-1/2 inches. The stripped end of the conductor is placed to the grounding connector provided in the terminal. See Figure 1.

3.02 Type GH-2: Used for interconnecting the shields of cables that have encapsulated or taped splices. Consists of two tinned Termi-foil connectors crimped to a No. 14 AWG tinned strand copper conductor insulated with green PVC. The overall length is 20 inches. See Figure 2.

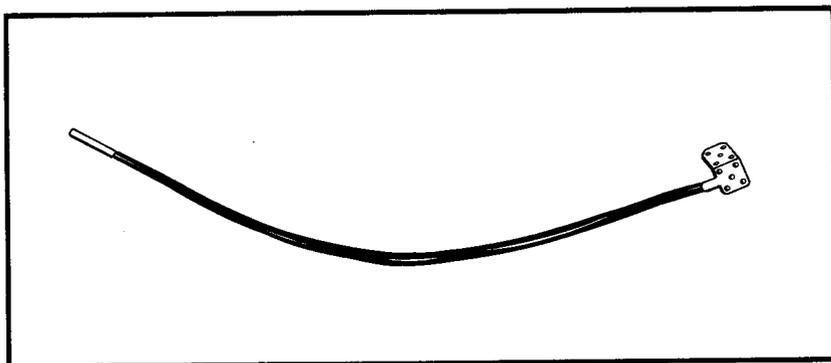


FIGURE 1. Type GH-1 Grounding Harness

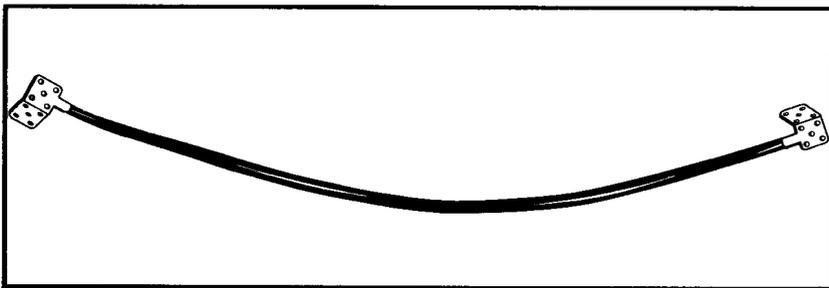


FIGURE 2. Type GH-2 Grounding Harness

3.03 Type GH-3: Used for interconnecting and grounding the shields of aerial cables where ready access type enclosures are used. Consists of two tinned Termi-foil connectors and a tinned spade clip, all crimped to a No. 14 AWG tinned stranded copper conductor insulated with green PVC. The spade clip is attached to the terminal frame by means of a terminal frame bolt. The spade clip to one Termi-foil is 7-1/2 inches long; the spade clip to the other Termi-foil is 21 inches long. See Figure 3.

3.04 Type GH-7: Used for interconnecting the shield of buried service wire to the grounding connector at station protectors. Consists of a tinned

Termi-foil connector crimped to one end of a No. 14 AWG solid tinned copper conductor insulated with green PVC. The spade end of the harness wire and the ground wire (connected to ground rod, water system, etc.) are connected directly to the station protector lug. The overall length of the grounding harness is 3 inches. See Figure 4.

3.05 Type GH-8: Used for interconnecting the shields of APFSP cables in buried splices. Consists of four tinned Termi-foil connectors crimped to No. 14 AWG tinned stranded copper conductors insulated with green PVC. The overall length is 6 inches. See Figure 5.

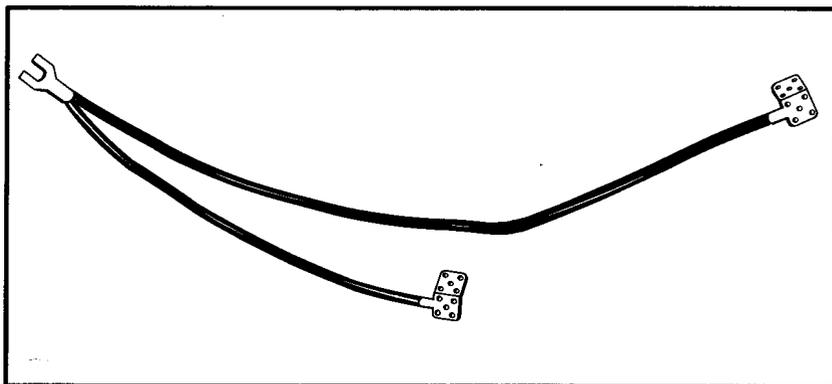


FIGURE 3. Type GH-3 Grounding Harness

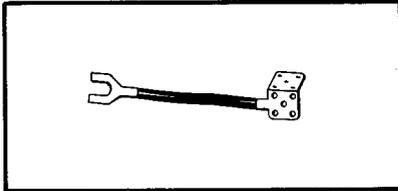


FIGURE 4. Type GH-7 Grounding Harness

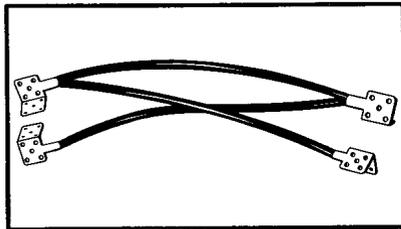


FIGURE 5. Type GH-8 Grounding Harness

4. COMPRESSION TOOL

4.01 The Type GHT-1 grounding harness compression tool is used to connect the grounding harness to the shield. The tool is equipped with a special ratchet and will not release until the proper compression pressure is reached at the connection. See Figure 6.

NOTE: The use of pliers or similar tools in place of the compression tool is not recommended.

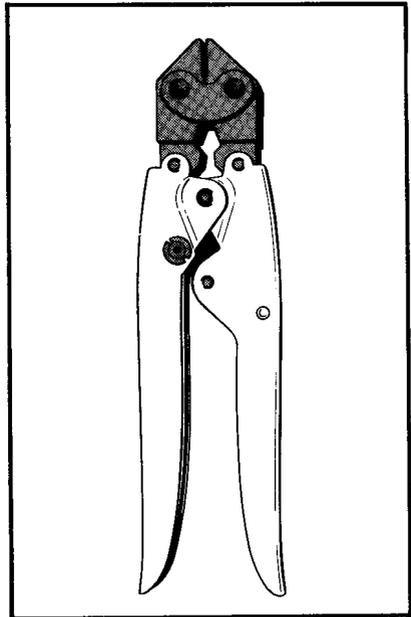


FIGURE 6. Type GHT-1 Compression Tool