

SECURING CABLE AND WIRE
LADDER TYPE RACK WITH CABLE RETAINING BRACKETS

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1. GENERAL

1.1 Scope of Section

1.1.1 This section covers the details and requirements concerned with securing cables on ladder type rack with cable retaining brackets.

1.2 General Information Pertaining to Arrangement of Tools, Precautions, Verification, Specs and Drawings and Figures

1.2.1 Refer to Section 1 of this handbook for information pertaining to these items.

2. INSTALLING EQUIPMENT

2.1 The tools and supplies generally used for operations covered in this section are covered in Section 300 of this handbook.

3. SECURING CABLES IN CABLE RETAINING BRACKETS ON LADDER TYPE RACK

3.1 Placing Unsecured Cables

3.1.1 Cables on horizontal resting runs, including up to 45° inclined resting runs, on ladder type cable racks having retaining brackets used to separate high and low level transmission leads in

carrier systems, should not be otherwise secured except at turn-off points where cables should be sewed to other cables, retaining brackets or stringers if they cannot be made to lie reasonably flat on the rack.

3.2 Conditions Requiring Sewing

3.2.1 While the cable retaining brackets reduce the securing of cables by other methods, some sewing under conditions such as the following may be found necessary. (See Paragraph 4 for method of temporarily securing cables).

3.2.1.1 Sew cables to at least one cable support on the frame or rack before stripping them. The pull of the stripper may otherwise pull the cable out of position in the brackets.

3.2.1.2 Cables on the top of a run which are likely to become displaced should be tied to supports or to other cables at sufficiently frequent intervals along the run to hold them in their respective positions.

3.2.1.3 Sew cables at one side of turns where necessary to hold them in their normal position on the cable rack cross straps.

3.2.2 When sewing portions of runs secured with cable retaining brackets follow the requirements and methods outlined in Section 320 of this handbook, using R-2916 Twine.

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4. TEMPORARY SECURING WHILE RUNNING CABLES

4.1 At Turns or Breakoff Points

4.11 Temporarily secure cables in horns or brackets at turns or at points where the cables break off the run, as each layer is completed using web straps, R-2712 to hold the cables in place while running in additional cables. Additional straps may be used on long runs as necessary.

4.111 As subsequent layers are run in, remove the straps and replace them over these layers.

4.112 The strap may also be used to hold cables temporarily until a stitch can be taken where the cables break off the run.

4.113 Do not remove straps after all cables are run in until all turn-offs on runs have been secured, when required.

5. VERIFICATION

VERIFICATION ITEMS AND BRIEF STATEMENT OF REQUIREMENTS	REFERENCE		
	Sec. No.	Par. No.	Fig. No.
5.1 Cables with high and low transmission leads and separated with cable retaining brackets, not otherwise secured except at turn off points where cables are sewed to other cables or to the retaining brackets.	330	3.11	
5.2 Sew cables to at least one cable support on the frame or rack before stripping them.	330	3.211	
5.3 Cables and wires on top of run likely to become displaced tied to supports or to other cables.	330	3.212	
5.4 Sew cables at one side of turns where necessary to hold them in their normal position on the cable rack cross straps.	330	3.213	

→ Indicates new or changed information

[Vertical lines at side of paragraph indicates requirements.

Engineering Planning Manager
(Installation)

Reason for Reissue:
Delete reference to No. 12 Twine.