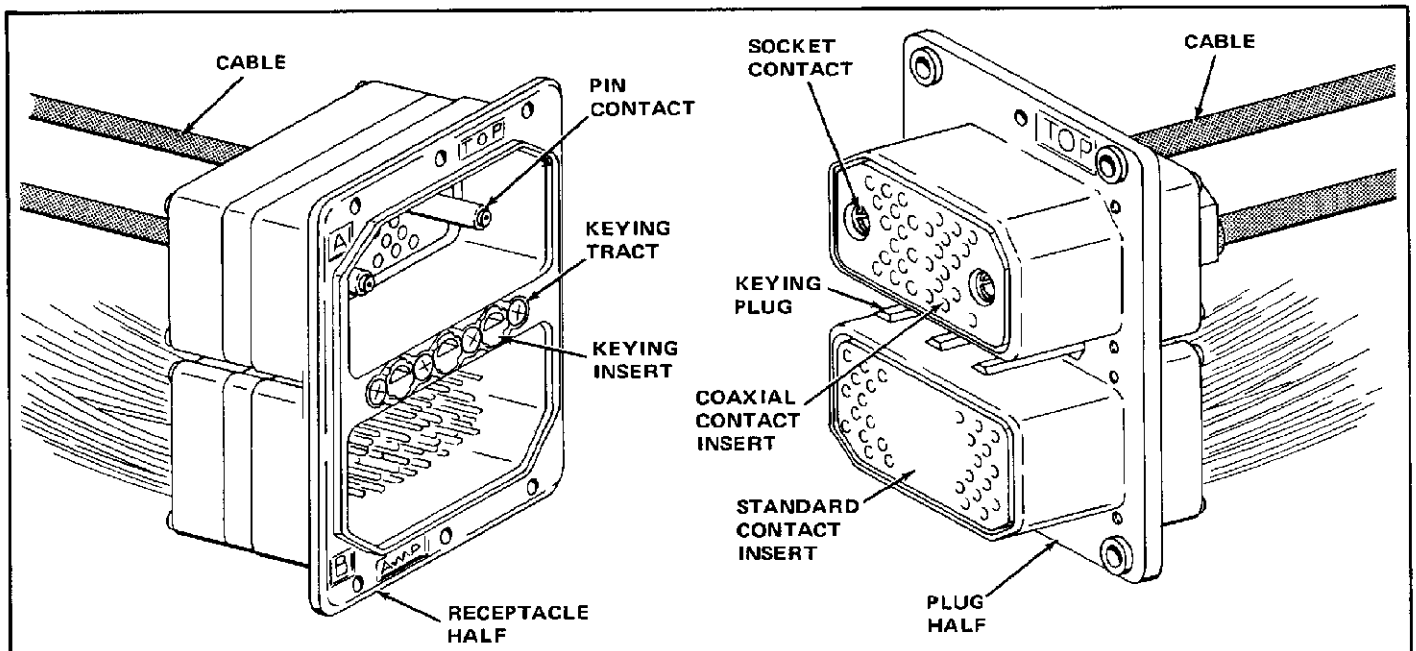
AMP INCORPORATED
HARRISBURG, PA. 17105

AMP★ RM AND RME SERIES CONNECTORS WITH SIZE 5 AND 9 COAXIAL CONTACTS

Instruction Sheet
IS 7540
RELEASED 6-26-74



INSERT TYPE	CONNECTOR SERIES	CONTACT			CABLE SIZE	SEALING BOOT	SEALING PLUG	CENTER CONTACT CRIMPING TOOL		FERRULE CRIMPING TOOL	EXTRACTION TOOL
		SIZE	TYPE	NUMBER				TOOL	POS.		
Snap-in	RME	5	Pin	225790-1	RG 58C	205402-2	205975	AMP† No. 601966-1 MS* No. M22520/2-01	AMP† No. 1-601766-6 MS* No. K345	220066-1	91074-1
				225790-1	RG 223	205402-1					
			Skt	225791-1	RG 58C	205402-2					
				225791-2	RG 223	205402-1					
	RM	9	Pin	225935-1	RG 58C 141 A	NA	NA				
			Skt	225936-1	141 Semi-rigid						
				225936-2	RG 58C 141 A						
				225936-3	RG 174 RG 188 RG 316						

NA = NOT APPLICABLE (SEALING BOOTS ARE NOT AVAILABLE FOR SIZE COAXIAL CONTACTS).

† = TOOL QUALIFIED TO M22520. CAN BE PURCHASED FROM AMP SPECIAL INDUSTRIES, VALLEY FORGE, PA, 19481.

* = TOOL QUALIFIED TO M22520. CAN BE PURCHASED FROM DANIELS MANUFACTURING CORPORATION, 2266 FRANKLIN ROAD, BLOOMFIELD HILLS, MICHIGAN, 48013.

FIGURE 1

1. INTRODUCTION

These instructions cover the installation and removal of AMP Size 5 and 9 Coaxial Contacts used in AMP RM and RME Series, Rack and Panel, ARINC Connectors. Read this material thoroughly.

2. DESCRIPTION

The size 5 and 9 coaxial contacts are designed for snap-in coaxial inserts that are used in ARINC connectors. The contacts can be inserted and extracted without diassembling the connectors. The pin contacts must be inserted into the receptacle half and the socket contacts must be inserted into the plug half. See Figure 1.

Refer to AMP Instruction Sheet IS 7482 for the panel cutout dimensions, keying plug arrangements and various other RM and RME series contact inserts that are available.

3. SEALING CONNECTORS

Standard (RM series) connectors have an interfacial seal that ensures dustproof protection for mated connectors. Environmentally sealed (RME series) connectors have the interfacial seal – PLUG – a wire seal to ensure splashproof protection for the connector.

Sealing boots and sealing plugs have been designed to seal size 5 coaxial contact inserts. Select and install them as follows:

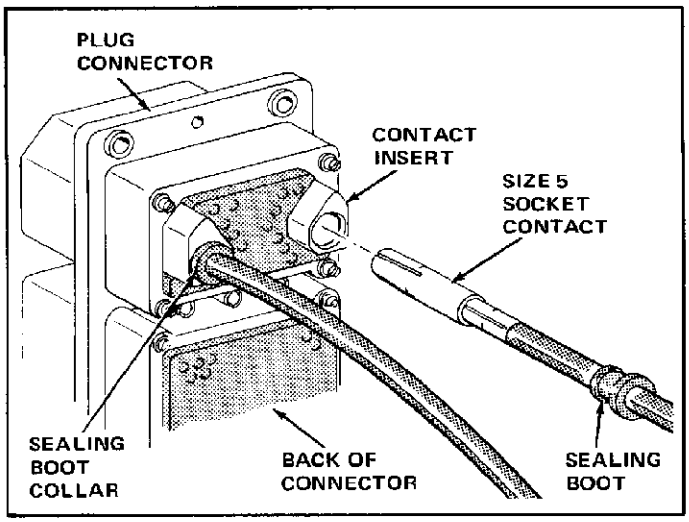


FIGURE 2

A. SEALING BOOT

Determine the cable size to be installed, then select the sealing boot from the chart in Figure 1. Next, slide the sealing boot over the cable BEFORE installing any of the contact components. Finally install the contact according to the instruction sheet packaged with it.

B. SEALING PLUG

Sealing plugs are designed to seal unused size 5 coaxial contact cavities. To do so, align the sealing plug with the BACK of the contact cavity and insert it straight in until it bottoms.

4. CONTACT CRIMPING

Determine the cable size to be terminated, then refer to the chart in Figure 1 and select the applicable contact and crimping tool. The instructions packaged with these tools (IS 2348 for Size 5 contacts and IS 2348-3 for Size 9 contacts) provide the cable strip length and contact crimping procedure. Read the instructions carefully before crimping the contacts.

5. INSERTING CONTACTS

An insertion tool is NOT needed to insert the coaxial contacts into these connectors. To insert a contact, align it with the BACK of the contact cavity and push it straight into the connector until bottomed. Pull back lightly on the cable to make sure the contact is locked in the cavity.

If a sealing boot is used, slide it over the cable and into the contact cavity until the sealing boot collar butts against the insert as shown in Figure 2. Slight rotation of the boot will ease installation.

6. EXTRACTING CONTACTS

AMP Extraction Tool 91047-1 is designed to remove Size 5 and Size 9 coaxial contacts from ARINC connectors.

NOTE

If the contact to be extracted has a sealing boot attached, slide the boot back over the cable a minimum distance of 3.25 in. before extracting the contact. Do NOT cut or otherwise damage the sealing plug.

Proceed as follows:

1. Place the cable over the "V" notch of the extraction tool handle. Then press the cable into the notch. The tool handle will spread open and allow the cable to enter. Make certain the cable is seated in the full length of the tool as shown in Figure 3.

2. Grip the tool handle firmly and insert the tip straight into the contact cavity until it bottoms.

3. Maintain slight inward pressure on the back of the tool handle and pull back on the cable to release the contact.

4. Pull the cable and tool out of the contact cavity.

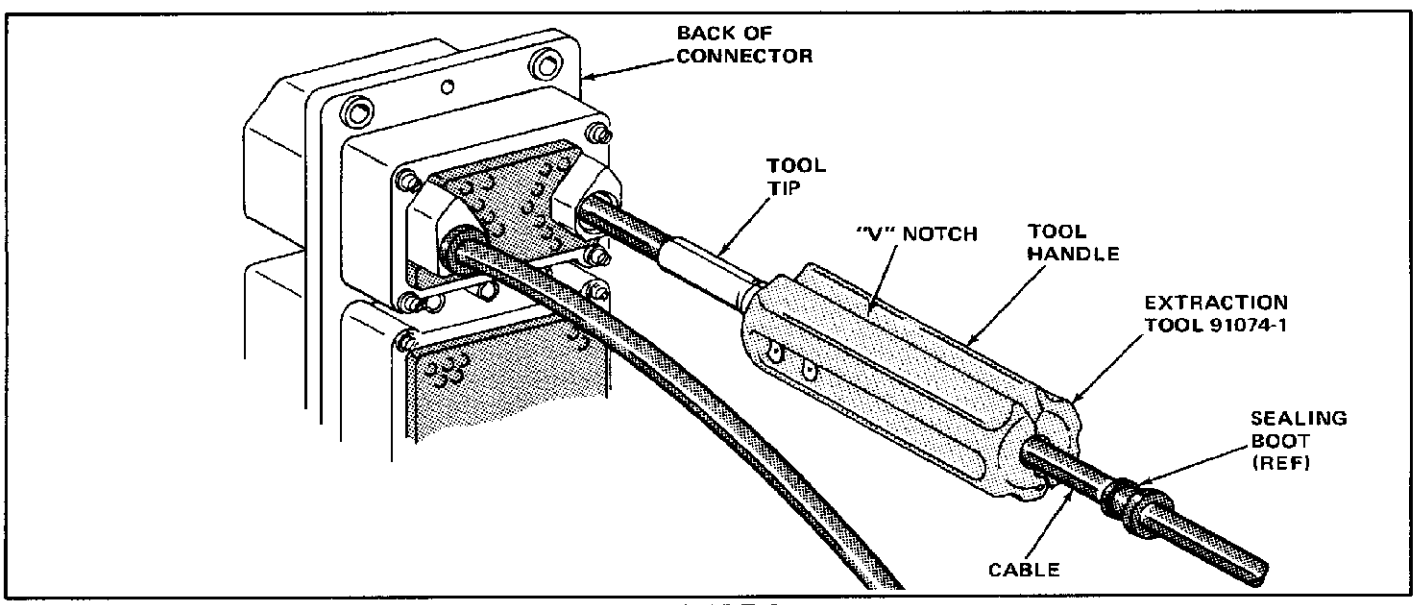


FIGURE 3