

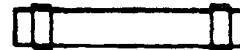
INCH-POUND

MIL-S-81824/5  
31 January 1990

## MILITARY SPECIFICATION SHEET

SPLICES, ELECTRIC, PERMANENT, CRIMP STYLE, COPPER, INSULATED,  
ENVIRONMENT RESISTANT, KIT, SHIELDED CABLE, CLASS IThis specification is approved for use by all Departments and  
Agencies of the Department of Defense.The kits covered by this specification sheet consist of one shield splice in  
accordance with MIL-S-81824/4 and one or more primary wire splices in accord-  
ance with MIL-S-81824/1. The contents of the kits shall be in accordance with  
Table I.

SHIELD SPLICE PER M81824/4



CONDUCTOR SPLICE PER M81824/1

FIGURE 1. Splices.TABLE I. Dimensions.

Part Number	Cable Parameters		Kit Components		
	Number of Conductors	Conductor Size Range	Conductor Splice Part No.	(Qty)	Shield Splice Part No.
M81824/5-1	1	26-24-22-20	M81824/1-1	(1)	M81824/-1
-2	1	20-18-16	-2	(1)	-2
-3	1	16-14-12	-3	(1)	-3
-4	2	26-24-22-20	-1	(2)	-4
-5	2	18-16	-2	(2)	-5
-6	2	14	-3	(2)	-6
-7	2	12	-3	(2)	-7
-8	3 or 4	26-24	-1	(4)	-4
-9	3 or 4	22-20	-1	(4)	-5
-10	3 or 4	18-16	-2	(4)	-6
-11	3 or 4	14-12	-3	(4)	-7

AMSC N/A

FSC 5940

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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REQUIREMENTS:

All requirements shall be as specified except the following:

1. Voltage Drop: Test current shall be 1 ampere. Voltage drop shall not exceed that measured across an equal length of the shield of the minimum size cable.
2. Insulation Resistance: 100 megohms, minimum.
3. Tensile Strength: 20 pounds, minimum. Breakage of cable shield below 20 pounds shall constitute passing.

NOTES:

1. Material and dimensional requirements shall be as listed in M81824/1 and M81824/4.
2. Assembly instructions shall be furnished by the vendor with each splice acquired under this specification. The instruction sheet shall be approved by the qualification activity.
3. These shielded cable splice kits are intended for use with shielded and jacketed cable as specified in Table 1. The assembly shall provide an environmental seal.
4. Each kit shall be individually packaged. The package shall include one assembly instruction.

Custodians:

Army - ER  
Navy - AS  
Air Force - 85

Preparing Activity:

Navy - AS  
(Project No. 5940-1003)

Review Activities:

Army - AV  
Air Force - 11, 99  
DSA - GS

User Activities:

Army - MI  
Navy - EC, MC, SH, OS