

RATIONALE

AS81824/4 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

NOTICE

THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MIL-S-81824/4 AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MIL-S-81824/4. ANY PART NUMBERS ESTABLISHED BY THE ORIGINAL SPECIFICATION REMAIN UNCHANGED.

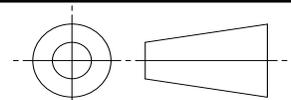
THE ORIGINAL MILITARY SPECIFICATION WAS ADOPTED AS AN SAE STANDARD UNDER THE PROVISIONS OF THE SAE TECHNICAL STANDARDS BOARD (TSB) RULES AND REGULATIONS (TSB 001) PERTAINING TO ACCELERATED ADOPTION OF GOVERNMENT SPECIFICATIONS AND STANDARDS. TSB RULES PROVIDE FOR (A) THE PUBLICATION OF PORTIONS OF UNREVISED GOVERNMENT SPECIFICATIONS AND STANDARDS WITHOUT CONSENSUS VOTING AT THE SAE COMMITTEE LEVEL, AND (B) THE USE OF THE EXISTING GOVERNMENT SPECIFICATION OR STANDARD FORMAT.

UNDER DEPARTMENT OF DEFENSE POLICIES AND PROCEDURES, ANY QUALIFICATION REQUIREMENTS AND ASSOCIATED QUALIFIED PRODUCTS LISTS ARE MANDATORY FOR DOD CONTRACTS. ANY REQUIREMENT RELATING TO QUALIFIED PRODUCTS LISTS (QPL'S) HAS NOT BEEN ADOPTED BY SAE AND IS NOT PART OF THIS TECHNICAL REPORT.

SAENORM.COM : Click to view the full PDF of as81824/4

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS81824/4>

THIRD ANGLE PROJECTION



SAE AS81824/4

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

ISSUED 2004-04 REAFFIRMED 2012-01

CUSTODIAN: AE-8C2

PROCUREMENT SPECIFICATION: MIL-S-81824



AEROSPACE STANDARD

SPLICES, ELECTRIC, PERMANENT, CRIMP STYLE, COPPER, INSULATED, ENVIRONMENT RESISTANT, SPLICE, SHIELD, SOLDER TYPE, INSULATED, CLASS 1

SAE AS81824/4
SHEET 1 OF 3

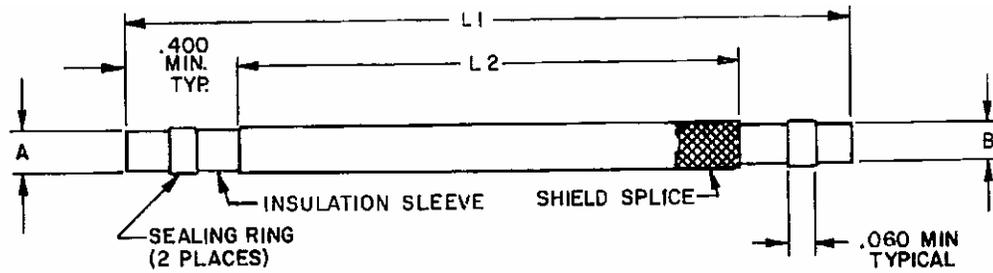


FIGURE 1. SPLICE CONFIGURATION.

TABLE I. DIMENSIONS.

PART NUMBER	SLEEVE DIMENSIONS				USABLE CABLE DIAMETERS SHIELD ^{3/} JACKET	
	A DIA. MAX	B DIA. 1/ 2/	L1 MAX	L2 MAX MIN	MAX MIN	MAX MIN
M81824/4-1	.275	.118 ^{1/} .055 ^{2/}	3.15	2.07 1.87	.108 .060	.118 .055
-2	.350	.157 ^{1/} .075 ^{2/}	3.15	2.07 1.87	.147 .080	.157 .075
-3	.450	.197 ^{1/} .080 ^{2/}	3.15	2.07 1.87	.187 .098	.197 .080
-4	.350	.157 ^{1/} .075 ^{2/}	4.15	3.05 2.85	.147 .080	.157 .075
-5	.450	.197 ^{1/} .080 ^{2/}	4.15	3.05 2.85	.187 .098	.197 .080
-6	.475	.236 ^{1/} .118 ^{2/}	4.15	3.05 2.85	.226 .137	.236 .118
-7	.500	.356 ^{1/} .177 ^{3/}	4.15	3.05 2.85	.346 .190	.356 .177

1/ AS SUPPLIED, MINIMUM.
2/ MAXIMUM UNRESTRICTED RECOVERY. SEALING RINGS WILL RECOVER TO AT LEAST THIS VALUE.
3/ CABLE SHIELD MAY BE FOLDED BACK OVER CABLE JACKET TO MEET MINIMUM SPECIFIED DIAMETER.

INCH	MM	INCH	MM	INCH	MM	INCH	MM
.055	1.397	.147	3.734	.236	5.994	.500	12.7
.060	1.524	.157	3.988	.275	6.985	1.87	47.49
.075	1.905	.177	4.496	.346	8.788	2.07	52.57
.080	2.032	.187	4.750	.350	8.890	2.85	72.39
.098	2.489	.190	4.826	.356	9.042	3.05	77.47
.108	2.743	.197	5.004	.450	11.430	3.10	78.74
.118	2.997	.226	5.740	.475	12.065	4.10	104.39
.137	3.480						