

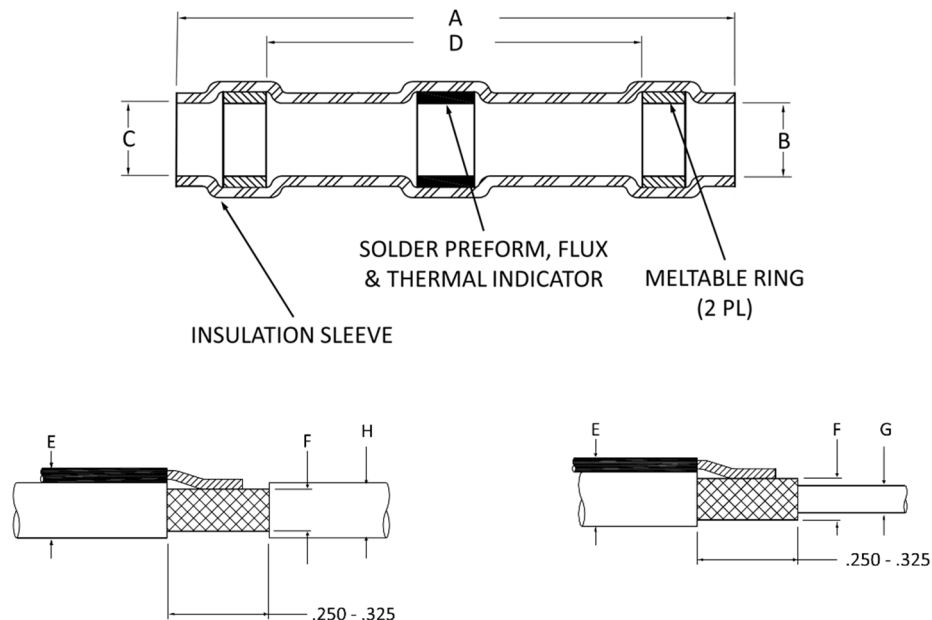
RATIONALE

INITIAL RELEASE FOR A SHIELD TERMINATION FOR HIGHER OPERATING TEMPERATURE REQUIREMENTS.

AS83519/6 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS83519.



CABLE DIAMETER RANGE AND PREPARATION MEASUREMENTS

FIGURE 1

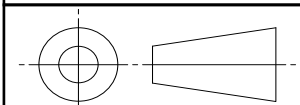
TABLE 1 - CONSTRUCTION DETAILS 1/

PART NUMBER	MARKING CODE	A ± .070	B DIA MINIMUM	C DIA MINIMUM	D MINIMUM	E MAXIMUM	F DIA MINIMUM	G DIA MINIMUM	H DIA MINIMUM	WEIGHT LBS NOMINAL
M83519/6-1	S2101X	.650	.075	.105	.325	.105	.035	.020	.075	.00040
M83519/6-2	S2102X	.650	.105	.145	.325	.145	.055	.030	.105	.00050
M83519/6-3	S2103X	.650	.170	.200	.325	.200	.085	.050	.170	.00080
M83519/6-4	S2104X	.750	.235	.255	.325	.255	.130	.070	.235	.00135
M83519/6-5	S2105X	.750	.275	.300	.325	.300	.170	.100	.275	.00150

1/ ALL DIMENSIONS ARE IN INCHES.

For more information on this standard, visit
<https://www.sae.org/standards/content/AS83519/6/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C2

PROCUREMENT SPECIFICATION: AS83519



AEROSPACE STANDARD

SHIELD TERMINATION, SOLDER STYLE, INSULATED, HEAT-SHRINKABLE, ENVIRONMENT RESISTANT FOR CABLES HAVING NI PLATED SHIELDS, 200 °C, ROHS, CLASS I

AS83519™/6
SHEET 1 OF 2

Documents

QUALIFICATION: FOR QUALIFICATION PERIODIC TESTING CABLES SHALL BE IN ACCORDANCE WITH TABLE 2. THE TERMINATIONS SHALL BE INSTALLED PER THE "ASSEMBLY TO CABLE" PARAGRAPH IN AS83519 USING THE APPLICABLE CONVECTION AND INFRARED HEAT SOURCES.

MATERIAL: INSULATION SLEEVE: HEAT-SHRINKABLE, MODIFIED ETFE FLUOROPOLYMER.

SOLDER PREFORM AND FLUX: SN96.5AG4 PER ANSI/J-STD-006; ROM1 PER ANSI/J-STD-004.

THERMAL INDICATOR: COLOR TO COLORLESS.

MELTABLE RINGS: ENVIRONMENT RESISTANT MODIFIED THERMOPLASTIC FLUOROELASTOMER

TEMPERATURE RATING: -65 TO +200 °C.

COMPATIBLE CABLE JACKETS: THESE TERMINATIONS WILL PROVIDE ENVIRONMENTAL RESISTANCE WHEN INSTALLED ON CABLES CONFORMING TO:

1. NEMA-WC27500 JACKET TYPES: 05, 08, 09, 11, 12, 14, 15, 23 AND THEIR DOUBLE JACKET EQUIVALENTS.

NOTES

1. WHEN PERFORMING END STRIPPED CABLE SEALING THE BEST RESULTS ARE OBTAINED WHEN THE SMALLEST SIZE TERMINATION FOR THE CABLE/LEAD WIRE COMBINED IS USED. SEALABILITY ON CABLES WITH MORE THAN THREE PRIMARIES OF WIRE SIZE 22 AND LARGER REQUIRES SPECIAL PRECAUTIONS.
2. THE SPLICE IS RECOMMENDED FOR CABLES RATED AT 150 °C, IF SPECIAL PRECAUTIONS ARE TAKEN TO ISOLATE THE HEAT SOURCE FROM THE INSULATION.
3. REVISION INDICATOR: A CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT, INCLUDING TECHNICAL REVISIONS. CHANGE BARS AND (R) ARE NOT USED IN ORIGINAL PUBLICATIONS, NOR IN DOCUMENTS THAT CONTAIN EDITORIAL CHANGES ONLY.

TABLE 2 - QUALIFICATION TEST CABLES

PART NUMBER	MINIMUM	MAXIMUM
M83519/6-1	M27500-30SB1S23 30NK1S05	M27500-26SB1S23 26NK1S11
M83519/6-2	24SB1S23 24NK1S05	18SB1S23 18NK1S11
M83519/6-3	20SB3S23 20NK3S05	18SB1S23 18NK1S11
M83519/6-4	22SB4S23 22NK4S05	16SB4S23 16NK4S11
M83519/6-5	18SB4S23 M27500-18NK4S05	16SB6S23 M27500-16NK6S11

	AEROSPACE STANDARD	AS83519™/6	
	SHIELD TERMINATION, SOLDER STYLE, INSULATED, HEAT-SHRINKABLE, ENVIRONMENT RESISTANT FOR CABLES HAVING NI PLATED SHIELDS, 200 °C, ROHS, CLASS I	SHEET 2 OF 3	



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