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AS83519™/1

RATIONALE

REVISION IS REQUIRED TO CORRECT EDITORIAL ERRORS AND ADDITION OF METRIC REFERENCES.

NOTICE

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

FEDERAL SUPPLY CLASS
5940

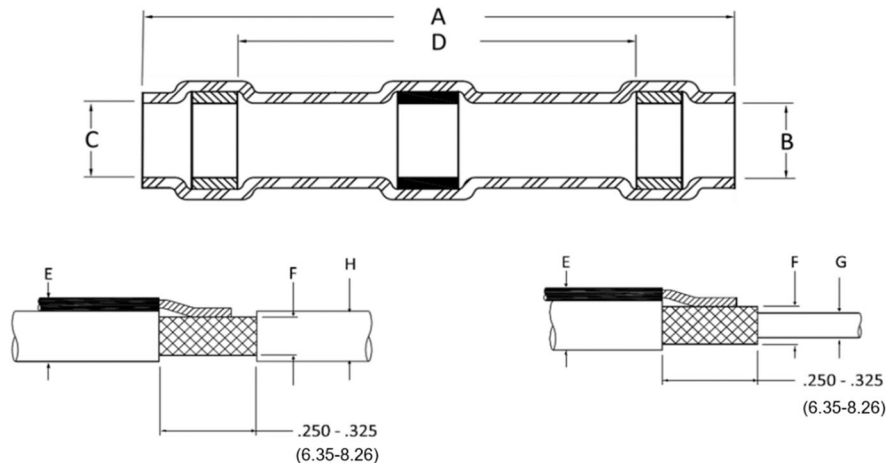


FIGURE 1 - CABLE DIAMETER RANGE AND PREPARATION MEASUREMENTS

TABLE 1 - CONSTRUCTION DETAILS 1/

PART NUMBER	MARKING CODE	A ±.070	B MIN	C MIN	D MIN	E MAX	F MIN	G MIN	H MAX	WEIGHT LB NOMINAL
M83519/1-1	S0101X	.650 (16.51)	.075 (1.91)	.105 (2.67)	.325 (8.26)	.105 (2.67)	.035 (0.89)	.020 (0.51)	.075 (1.91)	.0004 (0.181)
M83519/1-2	S0102X	.650 (16.51)	.105 (2.67)	.145 (3.68)	.325 (8.26)	.145 (3.68)	.055 (1.40)	.030 (0.76)	.105 (2.67)	.0005 (0.227)
M83519/1-3	S0103X	.650 (16.51)	.170 (4.32)	.200 (5.08)	.325 (8.26)	.200 (5.08)	.085 (2.16)	.050 (1.27)	.170 (4.32)	.0008 (0.363)
M83519/1-4	S0104X	.750 (19.05)	.235 (5.97)	.255 (6.48)	.325 (8.26)	.255 (6.48)	.130 (3.30)	.070 (1.78)	.235 (5.97)	.0014 (0.612)
M83519/1-5	S0105X	.750 (19.05)	.275 (6.99)	.300 (7.62)	.325 (8.26)	.300 (7.62)	.170 (4.32)	.100 (2.54)	.275 (6.99)	.0015 (0.680)

1/ ALL DIMENSIONS ARE IN INCHES. METRIC DIMENSIONS IN MILLIMETERS AND WEIGHTS IN GRAMS IN PARENTHESES ARE FOR REFERENCE ONLY.

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

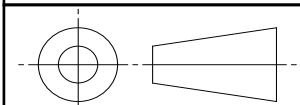
MATERIAL: INSULATION SLEEVE: HEAT-SHRINKABLE, TRANSPARENT POLYVINYLIDENE FLUORIDE. SOLDER PREFORM AND FLUX: TYPE SN 63SRMAP PER IPC J-STD-006. THERMAL INDICATOR: COLOR TO COLORLESS.

TEMPERATURE RATING: -55 TO +150 °C.

For more information on this standard, visit

<https://www.sae.org/standards/content/AS83519/1B/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C2

PROCUREMENT SPECIFICATION: AS83519



AEROSPACE STANDARD

SHIELD TERMINATION, SOLDER STYLE, INSULATED, HEAT-SHRINKABLE, ENVIRONMENT RESISTANT FOR CABLES HAVING TIN OR SILVER PLATED SHIELDS (CLASS I)

AS83519™/1
SHEET 1 OF 2

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Documents

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

1. NEMA-WC27500 JACKET TYPES: 05, 08, 09, 10, 11, 12, 14, 15, 23, AND THEIR DOUBLE JACKET EQUIVALENTS.
2. NEMA-WC27500 /1, /3, /8, /9, /10.

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 22 AWG AND LARGER REQUIRES SPECIAL PRECAUTIONS.
2. THE SPLICE IS RECOMMENDED FOR CABLES RATED AT 105 °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
M83519/1-1	M2750030SB1T23	M2750026SB1T23
	30TG1T14	26TG1T14
	30NK1T05	26NK1T11
M83519/1-2	24SB1T23	18SB1T23
	24TG1T14	18TG1T14
	24NK1T05	18NK1T11
M83519/1-3	18SB1T23	20SB3T23
	18TG1T14	20TG3T14
	18NK1T05	20NK3T11
M83519/1-4	22SB4T23	16SB4T23
	22TG4T14	16TG4T14
	22NK4T05	16NK4T11
M83519/1-5	18SB4T23	16SB6T23
	18TG4T14	16TG6T14
	M2750018NK4T05	M2750016NK6T11

TABLE 3 - SUPERSESION AND CROSS-REFERENCE

PART NUMBER	CAGE 1/ 06090	NAS	MIL-K-81786 2/
M83519/1-1	D-142-83	NAS1744-1	
	D-144-25	NAS1745-1	
	D-144-15	NAS1745-13	
		NAS1746-1	
M83519/1-2	D-100-00	NAS1744-2	M81786/7-1
	D-142-50	NAS1745-2	M81786/8-1
	D-144-00	NAS1745-14	
	D-144-12	NAS-1746-2	
M83519/1-3	D-101-00	NAS1744-3	M81786/7-2
	D-142-51	NAS1745-3	M81786/8-2
	D-144-01	NAS1745-15	
	D-144-13	NAS1746-3	
M83519/1-4	D-107-00	NAS1745-17	
	D-142-56	NAS1745-23	
	D-144-46	NAS1746-9	
M83519/1-5	D-103-00	NAS1744-4	M81786/7-3
	D-142-52	NAS1745-4	M81786/8-3
	D-144-02	NAS1745-16	
	D-144-14	NAS1746-4	

1/ COMMERCIAL AND GOVERNMENT ENTITY CODE FOR MANUFACTURERS IN ACCORDANCE WITH SUPPLY HANDBOOK H4-1 AND H4-2.

2/ CANCELLED WITHOUT REPLACEMENT PER NOTICE 1 ON 13 AUGUST 1997.

	AEROSPACE STANDARD	AS83519™/1 SHEET 2 OF 3	REV. B
	SHIELD TERMINATION, SOLDER STYLE, INSULATED, HEAT-SHRINKABLE, ENVIRONMENT RESISTANT FOR CABLES HAVING TIN OR SILVER PLATED SHIELDS (CLASS I)		



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