FEDERAL SUPPLY CLASS
5970

RATIONALE

LIMITED SCOPE REVISION IS REQUIRED TO CORRECT THE DOCUMENT TITLE: IT SHOULD READ “SPLICES, CONDUCTOR, CRIMP STYLE, ELECTRIC (PERMANENT, TYPE II, CLASS 1) FOR 150 °C TOTAL CONDUCTOR TEMPERATURE.”

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS7928.

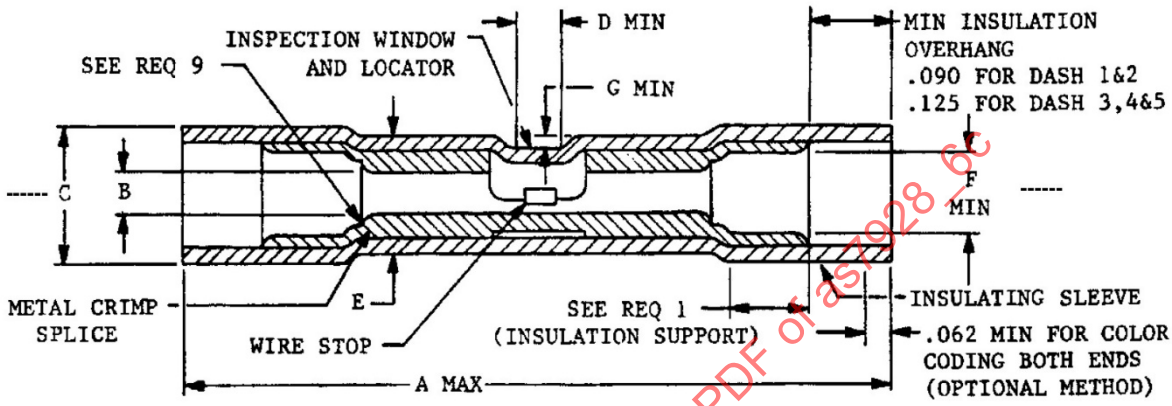


FIGURE 1 - AS7928/6 SPLICE

TABLE 1 - AS7928/6 DIMENSIONS

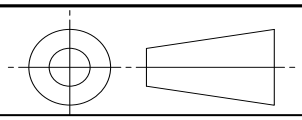
DASH NO.	WIRE RANGE	A MAX	BØ 1/	CØ 1/	D MIN	E	FØ 1/ MIN	G MIN	COLOR IDENTIFICATION
-1	26-24	.890 (22.6)	.033/.027 (0.84/0.69)	.160/.125 (4.07/3.18)	.060 (1.52)	.150/.125 (3.81/3.18)	.070 (1.78)	.025 (0.64)	YELLOW
-2	24-20	1.035 (26.29)	.055/.043 (1.40/1.09)	.170/.135 (4.32/3.43)	.060 (1.52)	.165/.135 (4.19/3.43)	.100 (2.54)	.030 (0.76)	WHITE
-3	22-18	1.300 (33.02)	.073/.052 (1.85/1.32)	.220/.160 (5.59/4.07)	.080 (2.03)	.210/.160 (5.33/4.07)	.110 (2.79)	.050 (1.27)	RED
-4	16-14	1.300 (33.02)	.095/.081 (2.41/2.06)	.260/.180 (6.60/4.57)	.080 (2.03)	.250/.180 (6.35/4.57)	.140 (3.56)	.050 (1.27)	BLUE
-5	12-10	1.700 (43.18)	.139/.129 (3.53/3.28)	.320/.250 (8.13/6.35)	.110 (2.79)	.300/.250 (7.62/6.35)	.200 (5.08)	.050 (1.27)	YELLOW

1/ DIAMETERS ARE THE SAME ON BOTH ENDS OF THE SPLICE.

ISSUED 1999-04 REVISED 2021-12

For more information on this standard, visit
https://www.sae.org/standards/content/AS7928/6C/

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C2

PROCUREMENT SPECIFICATION: AS7928

SAE INTERNATIONAL

AEROSPACE STANDARD

SPLICES, CONDUCTOR, CRIMP STYLE,
ELECTRIC (PERMANENT, TYPE II, CLASS 1)
FOR 150 °C TOTAL CONDUCTOR TEMPERATURE

AS7928™/6
SHEET 1 OF 3

REV. C

TO PLACE A DOCUMENT ORDER: **Tel: 877-606-7323 (inside USA and Canada)** **Tel: +1 724-776-4970 (outside USA)**
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REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS7928.

1. MIN CABLE INSULATION SUPPORT: .060 FOR DASH 1 AND 2
   .094 FOR DASH 3, 4, AND 5

2. MATERIAL: COPPER (SEE ACQUISITION SPECIFICATION) OR COPPER ALLOY. MATERIAL SHALL HAVE ADEQUATE ELECTRICAL CONDUCTIVITY AND SHALL BE SUFFICIENTLY STRONG TO RESIST CRACKING AFTER FORMING AND CRIMPING.

3. INSULATING SLEEVE: REFER TO AS7928.

4. FINISH: METAL, TIN PLATED: REFER TO AS7928.

5. COLOR IDENTIFICATION: INSULATION SHALL BE TRANSPARENT:

   a. COLOR STRIPES: LONGITUDINAL COLOR STRIPES (2 OR MORE) .062 WIDE PER TABLE 1 SHALL BE ADDED UNDER THE INSULATION. STRIPES SHALL RUN THE LENGTH OF THE TUBE. THE STRIPES MUST EXTEND TO WITHIN 1/16 INCH OF THE ENDS OF THE INSULATION.

   b. COLOR RINGS (OPTIONAL METHOD): A COLOR RING, .062 WIDE ON EACH END OF TUBE, PER TABLE 1 SHALL BE ADDED. THE RINGS MUST COVER A MINIMUM OF 315° OF THE CIRCUMFERENCE.

6. DIMENSIONS ARE IN INCHES AND SHALL BE AS SPECIFIED IN TABLE 1 AND FIGURE 1. DIMENSION B SHALL BE DETERMINED AS THE AVERAGE OF TWO DIAMETERS MEASURED IN TWO PLACES VERTICALLY AND HORIZONTALLY OR MEASURED IN TWO LOCATIONS 90° APART. METRIC UNITS SHOWN IN PARENTHESES IS BASED 25.4 MM PER INCH. IN THE EVENT OF A CONFLICT, ENGLISH UNITS TAKE PRECEDENCE.

7. THE INSPECTION WINDOW AND LOCATOR SHALL PROVIDE A POSITIVE MEANS OF POSITIONING SPLICE IN THE APPLICABLE CRIMPING TOOL AND PROVIDE VISIBLE INSPECTION OF STRIPPED WIRE ENDS.

8. CRIMPING TOOLS: CRIMPING TOOLS FOR THE AS7928/6 SPLICES SHALL BE AS SPECIFIED IN TABLE 2.

TABLE 2 - AS7928/6 CRIMP TOOLS

PART NUMBER	WIRE RANGE	CRIMP TOOL AND DIE	CRIMP TOOL AND DIE WITH INSULATION OVERHANG CRIMP
M7928/6-1	26-24	M22520/5-01 AND M22520/5-100 M22520/10-01 AND M22520/10-101 M22520/10-01 AND M22520/10-102	--
M7928/6-2	24-20	M22520/5-01 AND M22520/5-100 M22520/10-01 AND M22520/10-101 M22520/10-01 AND M22520/10-102	--
M7928/6-3	22-18	M22520/5-01 AND M22520-5-100 M22520/10-01 AND M22520/10-101	M22520/5-01 AND M22520/5-106
M7928/6-4	16-14	M22520/5-01 AND M22520-5-100 M22520/10-01 AND M22520/10-101	M22520/5-01 AND M22520/5-107
M7928/6-5	12-10	M22520/5-01 AND M22520/5-100 M22520/10-01 AND M22520/10-100	M22520/5-01 AND M22520/5-108 M22520/41-01

9. INSULATION SUPPORT AND WIRE METAL CRIMP SPLICE MAY BE MULTIPLE PIECE CONSTRUCTION. CONTOUR MAY VARY FROM THAT SHOWN, WITHIN SPECIFIED DIMENSIONS, BUT WIRE LEAD-IN TO WIRE BARREL SHALL BE PROVIDED.

10. FOR QUALIFICATION, USE ONE OF THE FOLLOWING WIRES: AS81044/6, 7, 8, 9, 10, 12, AND 13 AND AS22759/16 THRU /19.

11. FLATTENING OF INSULATION SLEEVE TO FORM LOCATOR MAY CAUSE THE SLEEVE TO EXCEED THE E DIMENSION BY .050 MAX IN THE LOCATOR AREA.

12. PART NUMBER: CONSISTS OF THE LETTER “M,” THE BASIC NUMBER OF THIS SPECIFICATION SHEET, AND A DASH NUMBER SPECIFIED IN TABLE 1.

    EXAMPLE: M7928/6-1 SPLICE FOR 26-24 WIRE RANGE.