

REV.
C

AS7928™/10

RATIONALE

LIMITED SCOPE REQUIRED TO CORRECT SPLICE CRIMP TOOLS IN TABLE 2.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS7928. FOR U.S. NAVY AND AIR FORCE DEPARTMENTS, AS7928/10 SHALL NOT BE USED (REFER TO AS81824).

SAE Executive Standards Committee 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.

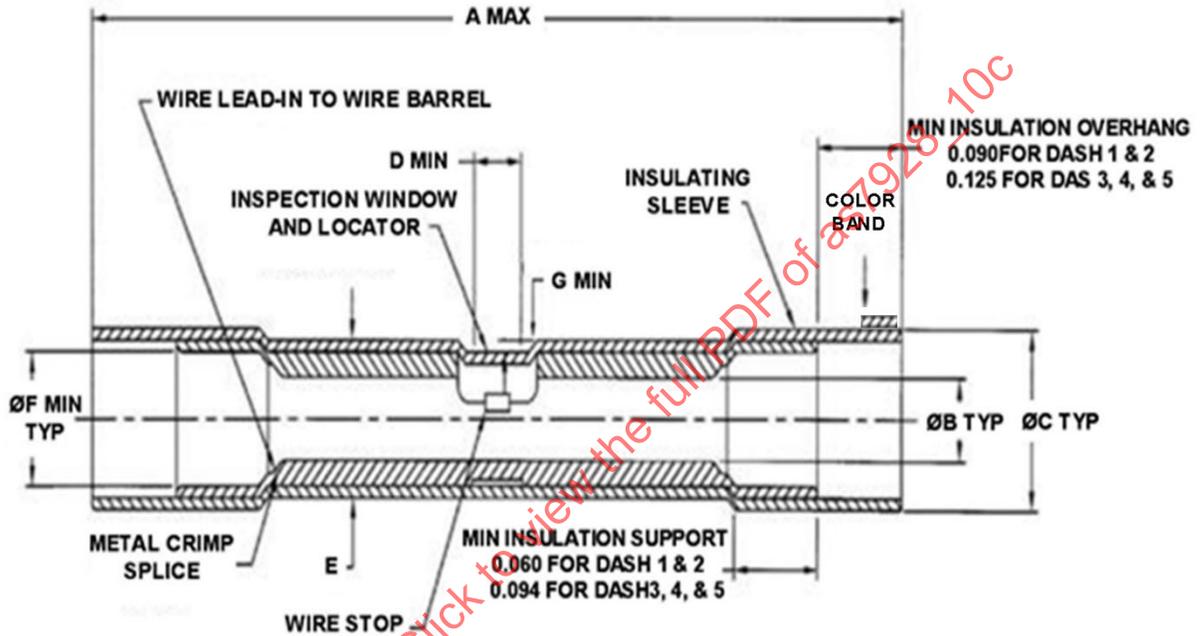
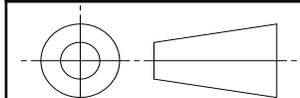


FIGURE 1 - SPLICE CONSTRUCTION

For more information on this standard, visit
<https://www.sae.org/standards/content/AS7928/10C/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C2

PROCUREMENT SPECIFICATION: AS7928



AEROSPACE STANDARD

TERMINALS, LUG AND SPLICES, CONDUCTOR, CRIMP STYLE, SPLICE, ELECTRIC, TIN WHISKER RESISTANT (PERMANENT, TYPE II, CLASS 1) FOR 105 °C TOTAL CONDUCTOR TEMPERATURE

AS7928™/10
SHEET 1 OF 3

REV.
C

TABLE 1 - DIMENSION

DASH NO.	WIRE RANGE	A MAX	B	C	D MIN	E	F MIN	G MIN	INSULATING SLEEVE TRANSPARENT COLOR
-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 (25.4)	.030 (0.76)	CLEAR
-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 (4.07/4.57)	.080 (2.03)	.250/.180 (6.25/4.57)	.140 (3.56)	.050 (1.27)	BLUE
-5	12-10	1.700 (43.18)	.139/.129 (3.53/3.28)	.320/.250 (8.13/6.25)	.110 (2.79)	.300/.250 (7.62/6.25)	.200 (5.08)	.050 (1.27)	YELLOW

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS7928.

1. CONFIGURATION:

DIMENSIONS ARE IN INCHES (SEE TABLE 1). METRIC UNITS SHOWN IN PARENTHESES ARE BASED ON 25.4 MM PER INCH. IN THE EVENT OF A CONFLICT, ENGLISH UNITS TAKE PRECEDENCE.

DIMENSION B IS DETERMINED AS THE AVERAGE OF TWO DIAMETERS MEASURED AT RIGHT ANGLES.

CONTOUR MAY VARY FROM THAT SHOWN, WITHIN SPECIFIED DIMENSIONS, BUT WIRE LEAD-IN TO WIRE BARREL SHALL BE PROVIDED.

INSULATION SUPPORT AND METAL CRIMP SPLICE MAY BE MULTIPLE PIECE CONSTRUCTION.

THE INSPECTION WINDOW AND LOCATOR SHALL PROVIDE A POSITIVE MEANS OF POSITIONING SPLICE IN THE APPLICABLE CRIMPING TOOL.

THE COLOR BLUE BAND SHALL BE LOCATED CIRCUMFERENTIALLY ON THE SPLICE WIRE SLEEVE NEAR THE END AS SHOWN IN FIGURE 1. THE BAND SHALL BE A MINIMUM .06 INCH WIDE AND SHALL WRAP AROUND THE SLEEVE A MINIMUM OF 150°.

2. MATERIALS:

METAL CRIMP SPLICE AND INSULATION SUPPORT DEVICE SHALL BE A COPPER OR COPPER ALLOY MATERIAL, SHALL HAVE ADEQUATE ELECTRICAL CONDUCTIVITY, AND SHALL BE SUFFICIENTLY STRONG TO RESIST CRACKING AFTER FORMING AND CRIMPING (REFER TO AS7928).

INSULATING SLEEVE MATERIAL SHALL BE AS SPECIFIED IN AS7928.

TIN PLATED FINISH SHALL BE ASTM B545 TIN MATERIAL ALLOYED WITH 3% BY WEIGHT MINIMUM LEAD. PLATING THICKNESS SHALL BE .0002 INCH MINIMUM (REFER TO AS7928 AND GEIA-STD-0005-2 FOR MORE DETAILS).

3. IDENTIFICATION OF PRODUCT:

IDENTIFICATION OF PRODUCT SHALL BE IN ACCORDANCE WITH AS7928. MANUFACTURER TRADEMARK OR SYMBOL SHALL BE LISTED IN AIR1351.

PART NUMBER:

