FEDERAL SUPPLY CLASS
5940

RATIONALE

LIMITED SCOPE REVISION REQUIRED TO CHANGE NICKEL FINISH CONDUCTOR TO TIN FINISH CONDUCTOR FOR QUALIFICATION TESTING.

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).

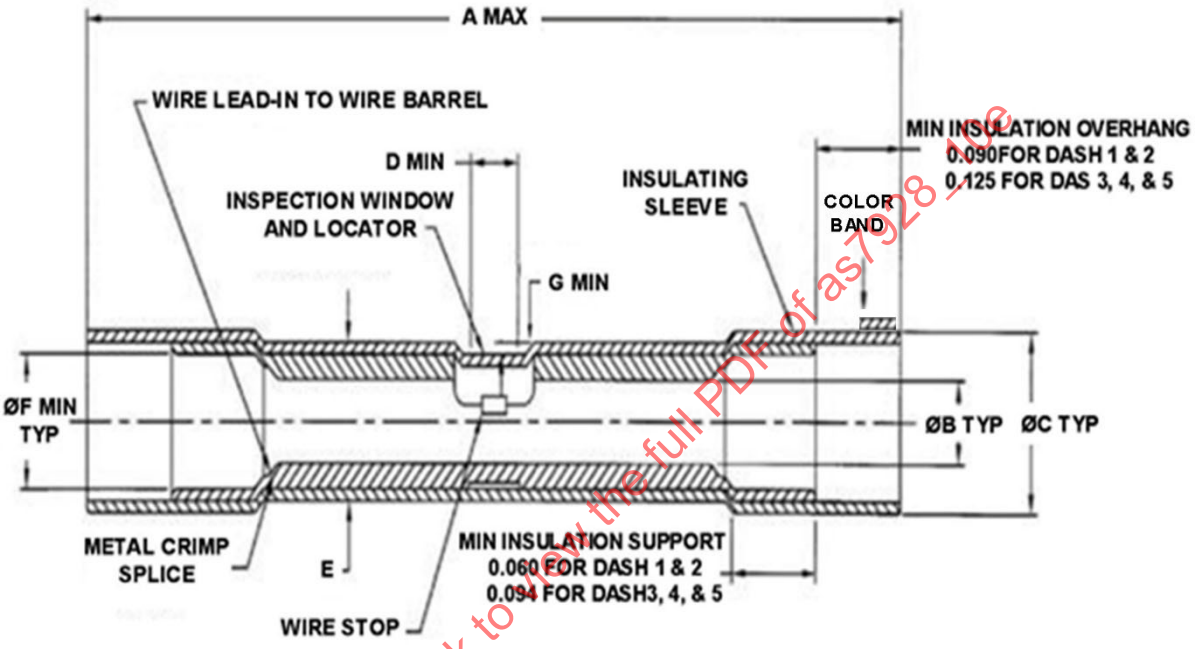
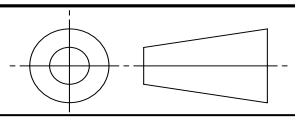


FIGURE 1 - SPLICE CONSTRUCTION

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

THIRD ANGLE PROJECTION



ISSUED 2007-09 REAFFIRMED 2012-08 STABILIZED 2023-07 REVISED 2024-03

CUSTODIAN: AE-8C2

PROCUREMENT SPECIFICATION: AS7928

SAE INTERNATIONAL

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

TABLE 1 - DIMENSIONS

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 EQUIVALENTS IN PARENTHESES ARE FOR GENERAL INFORMATION ONLY AND ARE BASED ON 1 INCH = 25.4 MM. 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.

4. PART NUMBER: