

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.

REV.
C

AS81714™/12

FEDERAL SUPPLY CLASS
5940

RATIONALE

REVISION IS REQUIRED TO REMOVE THE M81969/14-02 TOOL FROM TABLE 2, TO REMOVE THE REDUNDANT FOOTNOTE FROM TABLE 2, TO CORRECT THE PART NUMBER IMAGE FORMAT, TO ADD THE METRIC EQUIVALENTS TO TABLE 1, AND TO REMOVE TABLE 3.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS81714.

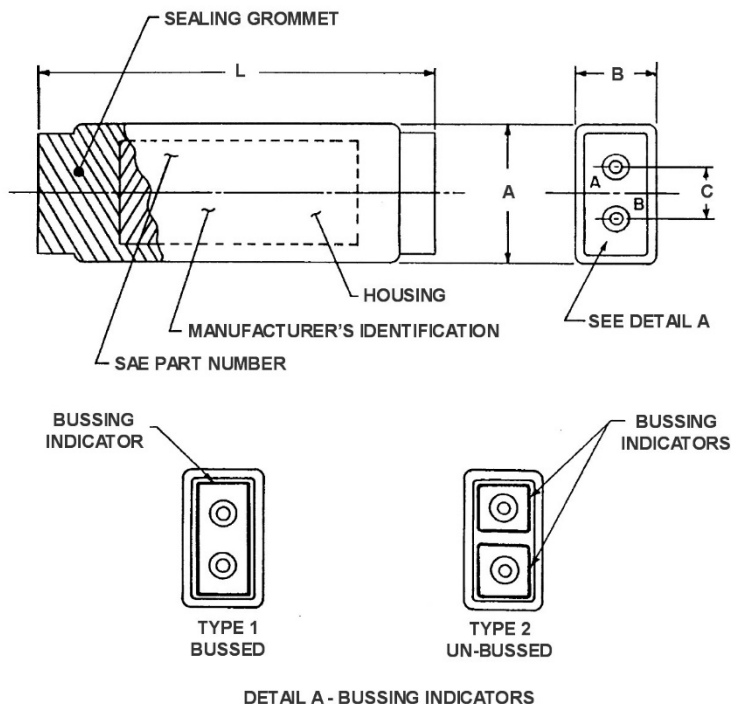


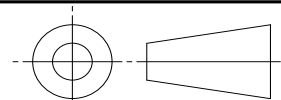
FIGURE 1 - WIRE IN-LINE JUNCTION DOUBLE BODY - CONTACT SIZES 22, 20, 16, AND 12

TABLE 1 - WIRE IN-LINE JUNCTION DOUBLES DIMENSIONS

SAE PART NUMBER	A DIA MAX	B DIA MAX	C ± .01	L MAX
M81714/12-22D-1 & -2	.400 (10.16)	.275 (6.99)	.13 (3.30)	1.552 (39.42)
M81714/12-20D-1 & -2	.400 (10.16)	.275 (6.99)	.13 (3.30)	1.552 (39.42)
M81714/12-16D-1 & -2	.500 (12.70)	.300 (7.62)	.18 (4.57)	1.922 (48.82)
M81714/12-12D-1 & -2	.620 (15.75)	.370 (9.40)	.25 (6.35)	1.922 (48.82)

For more information on this standard, visit
<https://www.sae.org/standards/content/AS81714/12C/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C2

PROCUREMENT SPECIFICATION: AS81714



AEROSPACE STANDARD

(R) TERMINAL JUNCTION SYSTEM,
TERMINAL JUNCTION BLOCKS, SECTIONAL,
WIRE IN-LINE JUNCTIONS, DOUBLE, SERIES I

AS81714™/12
SHEET 1 OF 3

REV.
C

Documents

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS81714.

CONFIGURATION:

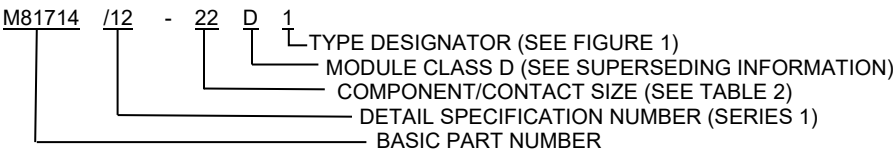
- 1. DIMENSIONS SHALL BE IN INCHES AND TOLERANCES AS SPECIFIED. METRIC EQUIVALENTS (TO THE NEAREST 0.01 MM) IN TABLE 1 ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MM.
- 2. IN-LINE DOUBLE JUNCTION SHALL BE CONFIGURED IN ACCORDANCE WITH FIGURE 1 AND TABLE 1. BUSSING ARRANGEMENT SHALL BE AS SHOWN IN DETAIL A (SEE PART NUMBER).
- 3. CONTACT SOCKETS FOR TYPE 1 AND TYPE 2 CAVITIES SHALL BE IN ACCORDANCE WITH AS81714. TYPE 1 SOCKETS A AND B SHALL BE INTERNALLY CONNECTED.
- 4. THE CONTACT MATING END RETENTION SYSTEM AND GROMMET WIRE SEALING SHALL BE IN ACCORDANCE WITH AS81714.

MATERIALS:

- 1. JUNCTION HOUSING, GROMMET, AND INTERNAL PARTS SHALL BE IN ACCORDANCE WITH AS81714.

MARKING:

- 1. JUNCTION HOUSING SHALL BE BLACK AND GROMMET SHALL BE BLUE.
- 2. PART IDENTIFICATION NUMBER:



TOOLS:

- 1. THE AS81969 TOOLS FOR CONTACT INSERTING/REMOVAL ARE AS SPECIFIED IN TABLE 2 AND SHALL BE ORDERED SEPARATELY.
- 2. CONTACTS AND SEALING PLUGS:

THE AS39029 MATING CONTACT AND MS27488 GROMMET SEAL PLUGS ARE AS SPECIFIED IN TABLE 2. MINIMUM QUANTITIES SHALL BE PROVIDED THE SAME AS THAT SPECIFIED IN AS81714 FOR A FEED THRU TERMINAL BLOCK.

TABLE 2 - ACCESSORY PART NUMBERS

PART NUMBER	SIZE	CONTACT CONFIGURATION		CONDUCTOR RANGE	CONTACT	GROMMET SEAL PLUG	INSTALLING TOOL	REMOVAL TOOL
		MATE END	WIRE BARREL					
M81714/12-22D-1 M81714/12-22D-2	22	16	22	26-22	M39029/1-100	MS27488-20-2	M81969/14-11 M81969/8-05	M81969/14-11 M81969/8-06
M81714/12-20D-1 M81714/12-20D-2	20	16	20	24-20	M39029/1-101		M81969/8-305 M81969/8-205	M81969/8-306 M81969/8-206
M81714/12-16D-1 M81714/12-16D-2	16	14	16	20-16	M39029/1-102	MS27488-16-2	M81969/14-03 M81969/8-07 M81969/8-307 M81969/8-207	M81969/14-03 M81969/8-08 M81969/8-308 M81969/8-208
M81714/12-12D-1 M81714/12-12D-2	12	12	12	12-14	M39029/1-103	MS27488-12-2	M81969/14-04 M81969/8-09 M81969/8-309 M81969/8-209	M81969/14-04 M81969/8-10 M81969/8-310 M81969/8-210