

**REV.
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AS81714™/12

RATIONALE

REVISION REQUIRED FOR CLARIFICATION OF MARKING.

NOTICE

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

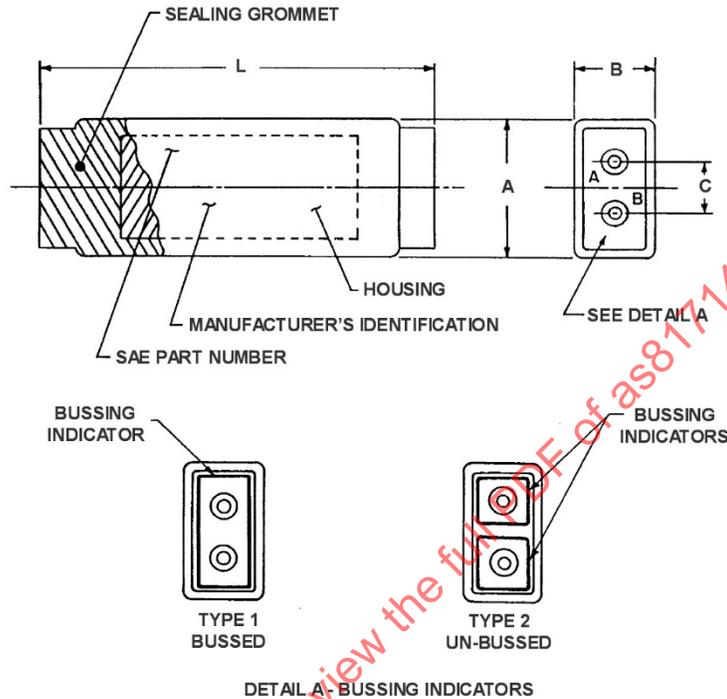
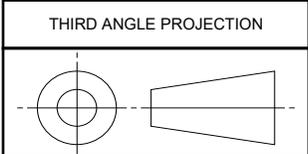


FIGURE 1 - WIRE IN-LINE JUNCTION DOUBLE BODY - CONTACT SIZES 22, 20, 16, AND 12

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/AS81714/12D>



CUSTODIAN: AE-8C2

PROCUREMENT SPECIFICATION: AS81714



AEROSPACE STANDARD

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

AS81714™/12
SHEET 1 OF 3

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ISSUED 1998-07 REAFFIRMED 2015-12 REVISED 2023-07

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

CONFIGURATION:

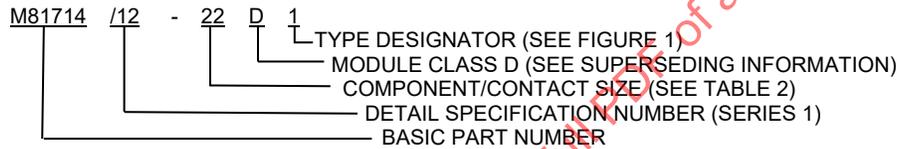
1. DIMENSIONS SHALL BE IN INCHES AND TOLERANCES AS SPECIFIED. METRIC EQUIVALENTS (TO THE NEAREST 0.01 MM) IN TABLE 1 ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MM.
2. IN-LINE DOUBLE JUNCTION SHALL BE CONFIGURED IN ACCORDANCE WITH FIGURE 1 AND TABLE 1. BUSSING ARRANGEMENT 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. MARKING SHALL BE AS REQUIRED IN AS81714 PARAGRAPHS 3.6.1 AND 3.6.2.
2. COLOR CODING: JUNCTION HOUSING SHALL BE BLACK AND GROMMET SHALL BE BLUE. REFER TO AS81714 PARAGRAPH 3.6.3.
3. 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	M81969/14-03 M81969/8-08
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	M81969/14-04 M81969/8-10
							M81969/8-309 M81969/8-209	M81969/8-310 M81969/8-210