

REV.
E

AS39029™/1

FEDERAL SUPPLY CLASS
5999

RATIONALE

A LIMITED SCOPE REVISION IS REQUIRED TO REMOVE THE AS81969/14-04 INSERTION/REMOVAL TOOL FROM TABLE 4, BIN CODE 507, IT IS NOT APPLICABLE.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS39029.

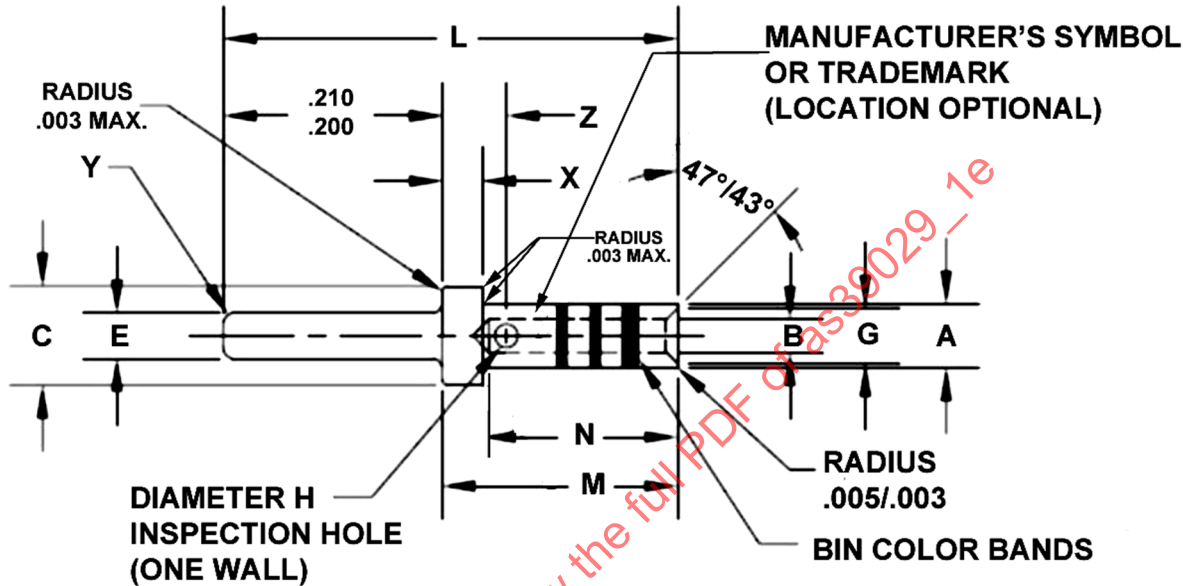


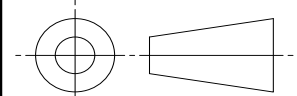
FIGURE 1 - AS39029/1 PIN CONTACT WITH SIZE 20 WIRE BARREL (BIN 101)

TABLE 1 - FIGURE 1 METRIC EQUIVALENTS

INCH	MILLIMETER	INCH	MILLIMETER
.003	0.076	.200	5.08
.005	0.127	.210	5.33

For more information on this standard, visit
<https://www.sae.org/standards/content/AS39029/1E/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS39029

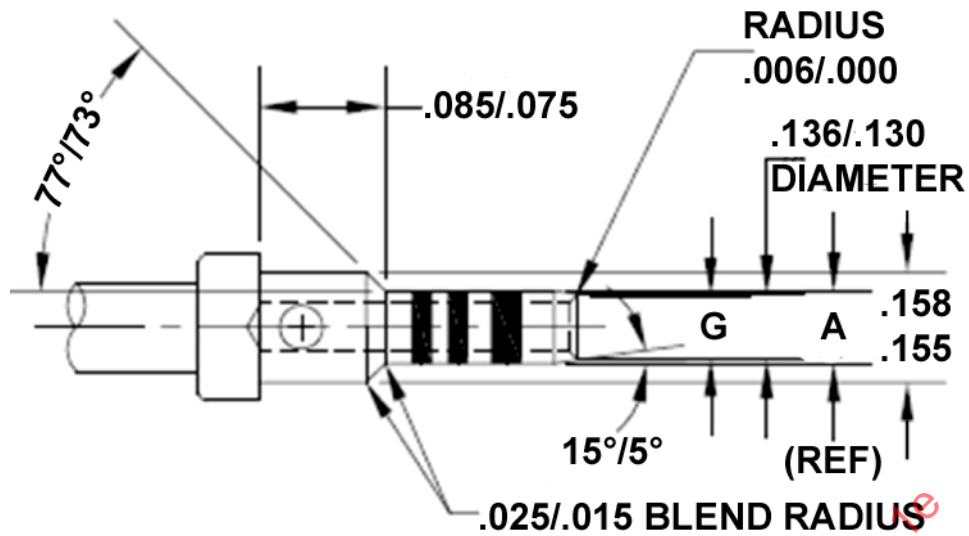


AEROSPACE STANDARD

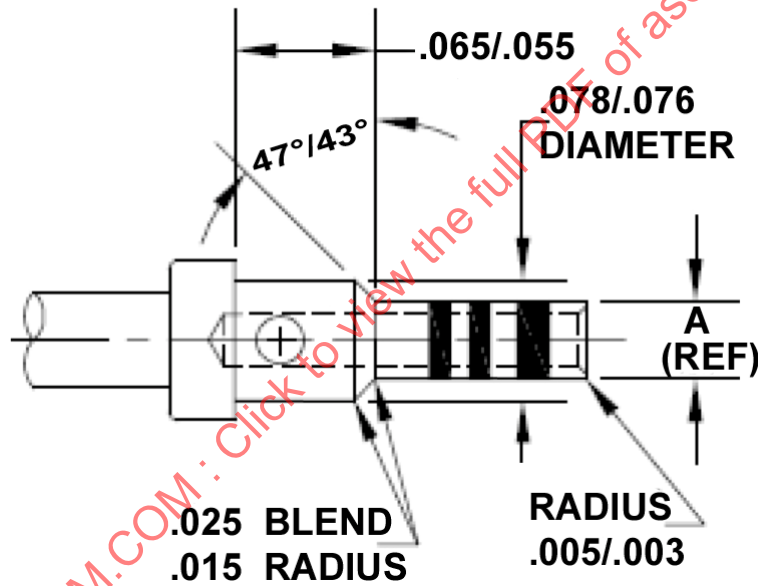
CONTACTS, ELECTRICAL CONNECTOR, PIN,
CRIMP REMOVABLE (FOR AS81714 TERMINAL
JUNCTION SYSTEM)

AS39029™/1
SHEET 1 OF 5

REV.
E



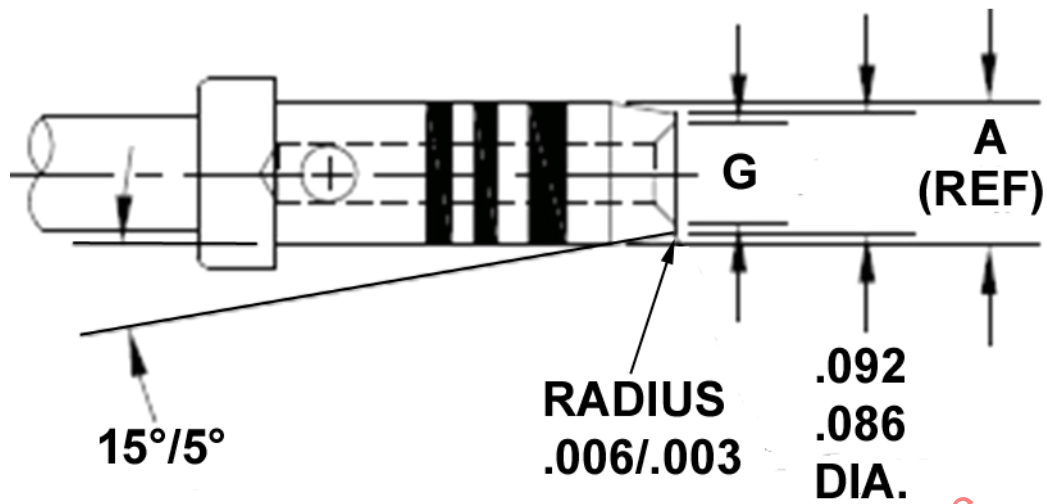
SIZE 12 WIRE BARREL (BIN 103)



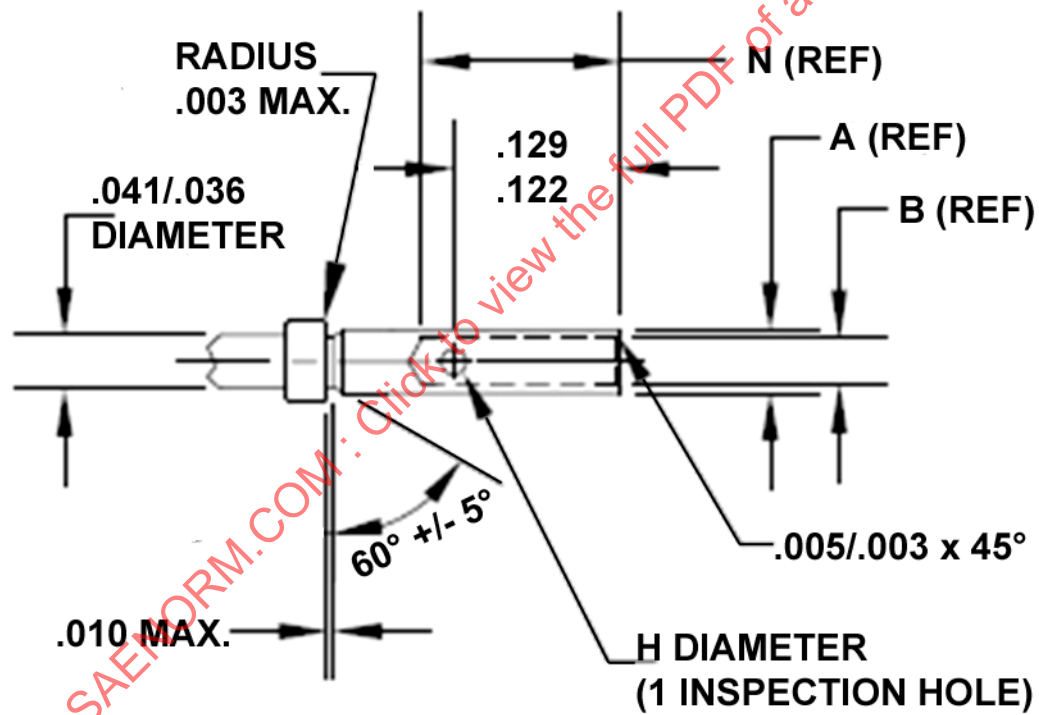
WIRE BARREL SIZE 22 (BIN 100)

FIGURE 1 - AS39029/1 PIN CONTACT WITH SIZE 20 WIRE BARREL (BIN 101) (CONTINUED)

	AEROSPACE STANDARD		AS39029™/1 SHEET 2 OF 5	REV. E
	CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE (FOR AS81714 TERMINAL JUNCTION SYSTEM)			



WIRE BARREL SIZE 16 (BIN 102)



WIRE BARREL SIZE 22D (BIN 507)

FIGURE 1 - AS39029/1 PIN CONTACT WITH SIZE 20 WIRE BARREL (BIN 101) (CONTINUED)

	AEROSPACE STANDARD		AS39029™/1 SHEET 3 OF 5	REV. E
	CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE (FOR AS81714 TERMINAL JUNCTION SYSTEM)			

TABLE 2 - CONTACT DIMENSIONS

BIN CODE	A DIA	B DIA	C DIA	E DIA	G DIA	H DIA	L (REF)	M	N	X	Y RAD	Z
100	.051	.037	.103	.063	.046	.022	.418 (10.62)	.215	.186	.033	.025	.063
	(1.30)	(0.94)	(2.62)	(1.60)	(1.17)	(0.56)		(5.46)	(4.72)	(0.84)	(0.64)	(1.60)
	.048	.035	.100	.061	.042	.018		.211	.157	.029	.015	.057
101	(1.22)	(0.89)	(2.54)	(1.55)	(1.07)	(0.46)	(5.36)	(3.99)	(0.74)	(0.38)	(1.45)	
	.078	.050	.103	.063	.064	.032		.215	.186	.033	.025	.063
	(1.98)	(1.27)	(2.62)	(1.60)	(1.63)	(0.81)		(5.46)	(4.72)	(0.84)	(0.64)	(1.60)
102	.076	.048	.100	.061	.060	.026	(10.62)	.211	.157	.029	.015	.057
	(1.93)	(1.22)	(2.54)	(1.55)	(1.52)	(0.66)		(5.36)	(3.99)	(0.74)	(0.38)	(1.45)
	.105	.068	.133	.078	.090	.042	.501 (12.73)	.298	.281	.048	.035	.079
	(2.67)	(1.73)	(3.38)	(1.98)	(2.29)	(1.07)		(7.57)	(7.14)	(1.22)	(0.89)	(2.01)
	.101	.066	.130	.076	.080	.036		.294	.250	.044	.025	.073
103	(2.57)	(1.68)	(3.30)	(1.93)	(2.03)	(0.91)	(7.47)	(6.35)	(1.12)	(0.64)	(1.85)	
	.153	.102	.190	.095	.125	.042	.501 (12.73)	.298	.281	.048	.045	.079
	(3.87)	(2.59)	(4.83)	(2.41)	(3.18)	(1.07)		(7.57)	(7.14)	(1.22)	(1.14)	(2.01)
507	.147	.098	.187	.093	.115	.036	(12.73)	.294	.250	.044	.035	.073
	(3.73)	(2.49)	(4.75)	(2.36)	(2.92)	(0.91)		(7.47)	(6.35)	(1.12)	(0.89)	(1.85)
	.048	.0355	.062	.041	N/A	.022	.456 (11.58)	.253	.157	.033	.025	N/A
	(1.22)	(0.90)	(1.57)	(1.04)		(0.56)		(6.43)	(3.99)	(0.84)	(0.64)	
	.046	.0335	.060	.039		.018		.249	.141	.029	.015	
	(1.17)	(0.85)	(1.52)	(0.99)		(0.46)		(6.32)	(3.58)	(0.74)	(0.38)	

TABLE 3 - MARKING AND DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			MATING END SIZE	WIRE BARREL SIZE	TYPE	CLASS
	1ST	2ND	3RD				
100	BROWN	BLACK	BLACK	16	22	A	B
101	BROWN	BLACK	BROWN	16	20		
102	BROWN	BLACK	RED	14	16		
103	BROWN	BLACK	ORANGE	12	12		
507	GREEN	BLACK	VIOLET	20	22D		

1/ BIN CODE 102 SHALL MEET ALL THE REQUIREMENTS OF SIZE 16-16 IN AS39029.

TABLE 4 - TOOL REQUIREMENTS

BIN CODE	BASIC CRIMPING TOOL	POSITIONER	INSTALLING TOOL (REF) 1/	REMOVAL TOOL (REF) 1/
-100	M22520/2-01	M22520/2-11	M81969/14-11 M81969/8-05 M81969/8-205 M81969/8-305	M81969/14-11 M81969/8-06 M81969/8-206 M81969/8-306
-101	M22520/1-01	M22520/1-02 RED		
	M22520/2-01	M22520/2-11		
-102	M22520/1-01	M22520/1-02 BLUE	M81969/14-03 M81969/8-07 M81969/8-207 M81969/8-307	M81969/14-03 M81969/8-08 M81969/8-208 M81969/8-308
-103	M22520/1-01	M22520/1-02 YELLOW	M81969/14-04 M81969/8-09 M81969/8-209 M81969/8-309	M81969/14-04 M81969/8-10 M81969/8-210 M81969/8-310
-507	M22520/2-01	M22520/2-32	M81969/14-01 M81969/8-01 M81969/8-301	M81969/14-01 M81969/8-02 M81969/8-302

1/ SEE THE APPLICATION NOTE FOR THE APPLICABLE PRODUCT SPECIFICATION.

	AEROSPACE STANDARD		AS39029™/1 SHEET 4 OF 5	REV. E
	CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE (FOR AS81714 TERMINAL JUNCTION SYSTEM)			