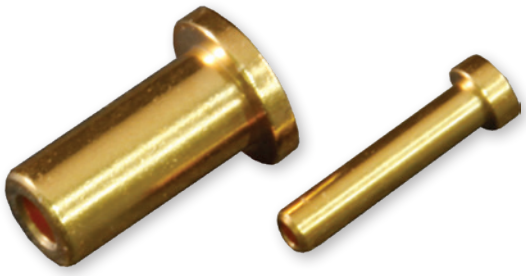
Glenair®

859-015
Wire Barrel Reducer Bushing
For Use with Crimp Contacts

Wire Barrel Reducer Bushing



859-015 - Basic Part Number

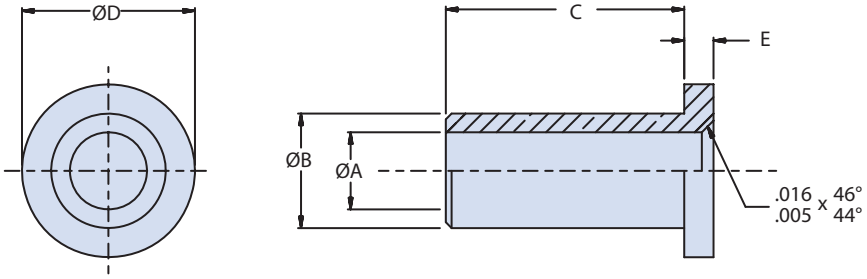
"To" Wire Accommodation
See completed part numbers for list of available combinations.

Design Option
See Table I for option availability

859-015 **Z2** - **8** - **10** - **X**

Available Finishes
Z2 - Gold Plate
Z3 - Silver Plate

"From" Contact Wire Barrel Size
0, 4, 6, 8, 10, 12, 16, 20, 22, 22D



WARNING: Using smaller wire may not meet wire sealing requirement in environment resisting assemblies. The bushing may cause crimp barrel to bulge after crimping and may prevent the use of insertion/removal tool.

Contact Size	Standard Wire Accommodation (AWG) Without Bushing
0	0
4	4
6	6
8	8
10	10
12	12-14
16	16-20
20	20-24
22	22-26
22D	22-28

Material and Finish

Copper alloy per AS39029

Finish code Z2:
Bushings: gold plated per ASTM B488, Type II, Code C, .0000050 min thick over nickel plated per AMS-QQ-N-290, Class 2, .000030/.000150 inch thick.

Finish code Z3:
Bushings: silver plated per ASTM B700, Grade A, Class N, thickness .0002000 min inch thisch over nickel plated per AMS-QQ-N-290 Class 2 .000030/.000150 inch thick.

Notes

1. Bushing must be installed into contact before crimping.
2. Bushings are designed to reduce the barrel size of reference AS39029 contacts to accommodate smaller wire size.
3. For proper environmental sealing of the grommet, use a shrink sleeve or potting may be required.
4. These bushings "to" wire (-28) can be used for both 28 AWG and 30 AWG wires.
5. Use the same Crimp Selector No. as intended for barrel wire size without bushing. For example: 859-015XXX-16-22, use the same selector as it is for 16 AWG wire size. User should verify crimpability on specific wire size/type.
6. for -16-28, use selector No. 6 for 28 AWG wire and selector No. 5 for 30 AWG wire on crimp tool M22520/1-01.
7. Operating Temperature: -55°C to +200°C.

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Table I: Contact Reference						
PART NUMBER	ø A	ø B	C MAX	ø D	E	REFERENCE TO USE WITH:
859-015**-10-12-1	.103 (2.62) .098 (2.49)	.130 (3.30) .125 (3.18)	.287 (7.29) .254 (6.45)	.186 (4.72) .154 (3.91)	.036 (0.91) .026 (0.66)	EQUIVALENT TO MS39029/112
859-015**-8-10	.138 (3.51) .133 (3.38)	.175 (4.44) .170 (4.32)	.397 (10.08) .364 (9.25)	.266 (6.76) .234 (5.94)	.036 (0.91) .026 (0.66)	
859-015**-6-10L	.138 (3.51) .133 (3.38)	.227 (5.77) .222 (5.64)	.717 (18.21) .684 (17.37)	.313 (7.95) .281 (7.14)	.036 (0.91) .026 (0.66)	ONLY FOR M39029/48 & 49- EQUIVALENT TO MS39029/112
859-015**-6-9L	.157 (3.99) .152 (3.86)	.227 (5.77) .222 (5.64)	.717 (18.21) .684 (17.37)	.313 (7.95) .281 (7.14)	.036 (0.91) .026 (0.66)	
859-015**-6-8L	.187 (4.75) .182 (4.62)	.277 (7.04) .222 (5.64)	.717 (18.21) .684 (17.37)	.313 (7.95) .281 (7.14)	.036 (0.91) .026 (0.66)	
859-015**-4-8L	.187 (4.75) .182 (4.62)	.274 (6.96) .269 (6.83)	.717 (18.21) .684 (17.37)	.360 (9.14) .328 (8.33)	.036 (0.91) .026 (0.66)	
859-015**-4-6	.227 (5.77) .222 (5.64)	.274 (6.96) .269 (6.83)	.397 (10.08) .364 (9.25)	.360 (9.14) .328 (8.33)	.036 (0.91) .026 (0.66)	EQUIVALENT TO MS39029/112
859-015**-4-6L	.227 (5.77) .222 (5.64)	.274 (6.96) .269 (6.83)	.717 (18.21) .684 (17.37)	.360 (9.14) .328 (8.33)	.036 (0.91) .026 (0.66)	
859-015**-4-5L	.252 (6.40) .247 (6.27)	.274 (6.96) .269 (6.83)	.717 (18.21) .684 (17.37)	.360 (9.14) .328 (8.33)	.036 (0.91) .026 (0.66)	
859-015**-1-6L	.227 (5.77) .222 (5.64)	.398 (10.11) .393 (9.98)	.717 (18.21) .684 (17.37)	.532 (13.51) .500 (12.70)	.036 (0.91) .026 (0.66)	
859-015**-1-2L	.361 (9.17) .356 (9.04)	.398 (10.11) .393 (9.98)	.717 (18.21) .684 (17.37)	.532 (13.51) .500 (12.70)	.036 (0.91) .026 (0.66)	
859-015**-0-2	.361 (9.17) .356 (9.04)	.446 (11.33) .441 (11.20)	.553 (14.05) .520 (13.21)	.532 (13.51) .500 (12.70)	.036 (0.91) .026 (0.66)	EQUIVALENT TO MS39029/112
859-015**-4/0-2/0L	.502 (12.75) .497 (12.62)	.631 (16.03) .626 (15.90)	.717 (18.21) .684 (17.37)	.735 (18.67) .703 (17.86)	.036 (0.91) .026 (0.66)	ONLY FOR M39029/48 & 49- EQUIVALENT TO MS39029/112
859-015**-22D-30	.017 (0.43) .013 (0.33)	.033 (0.84) .029 (0.74)	.135 (3.43) .130 (3.30)	.046 (1.17) .042 (1.07)	.030 (0.76) .020 (0.51)	FOR M39029/29, 30, 56, 57, 58,117,118,121&122 (Continues on following page) See Note 6
859-015**-20-28	.023 (0.58) .015 (0.38)	.046 (1.17) .042 (1.07)	.204 (5.18) .199 (5.05)	.068 (1.73) .064 (1.63)	.030 (0.76) .020 (0.51)	
859-015**-20-26	.028 (0.71) .020 (0.51)	.046 (1.17) .042 (1.07)	.204 (5.18) .199 (5.05)	.068 (1.73) .064 (1.63)	.030 (0.76) .020 (0.51)	
859-015**-16-22	.038 (0.97) .030 (0.76)	.066 (1.68) .062 (1.57)	.204 (5.18) .199 (5.05)	.101 (2.57) .097 (2.46)	.030 (0.76) .020 (0.51)	
859-015**-16-20	.059 (1.50) .039 (0.99)	.066 (1.68) .062 (1.57)	.204 (5.18) .199 (5.05)	.122 (3.10) .082 (2.08)	.030 (0.76) .020 (0.51)	
859-015**-16-24	.033 (0.84) .025 (0.64)	.066 (1.68) .062 (1.57)	.204 (5.18) .199 (5.05)	.101 (2.57) .097 (2.46)	.030 (0.76) .020 (0.51)	
859-015**-16-26	.028 (0.71) .020 (0.51)	.066 (1.68) .062 (1.57)	.204 (5.18) .199 (5.05)	.101 (2.57) .097 (2.46)	.030 (0.76) .020 (0.51)	
859-015**-16-28	.023 (0.58) .015 (0.38)	.066 (1.68) .062 (1.57)	.204 (5.18) .199 (5.05)	.101 (2.57) .097 (2.46)	.030 (0.76) .020 (0.51)	
859-015**-12-16	.071 (1.80) .063 (1.60)	.098 (2.49) .094 (2.39)	.204 (5.18) .199 (5.05)	.148 (3.76) .144 (3.66)	.030 (0.76) .020 (0.51)	
859-015**-12-18	.060 (1.52) .052 (1.32)	.098 (2.49) .094 (2.39)	.204 (5.18) .199 (5.05)	.148 (3.76) .144 (3.66)	.030 (0.76) .020 (0.51)	
859-015**-12-20	.051 (1.30) .043 (1.09)	.098 (2.49) .094 (2.39)	.204 (5.18) .199 (5.05)	.148 (3.76) .144 (3.66)	.030 (0.76) .020 (0.51)	
859-015**-12-22	.038 (0.97) .030 (0.76)	.098 (2.49) .094 (2.39)	.204 (5.18) .199 (5.05)	.148 (3.76) .144 (3.66)	.030 (0.76) .020 (0.51)	
859-015**-12-28	.023 (0.58) .015 (0.38)	.098 (2.49) .094 (2.39)	.204 (5.18) .199 (5.05)	.148 (3.76) .144 (3.66)	.030 (0.76) .020 (0.51)	
859-015**-10-12	.104 (2.64) .096 (2.44)	.134 (3.40) .130 (3.30)	.350 (8.89) .345 (8.76)	.177 (4.50) .173 (4.39)	.030 (0.76) .020 (0.51)	

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PART NUMBER	ø A	ø B	C MAX	ø D	E	REFERENCE TO USE WITH:
859-015**-10-16	.071 (1.80) .063 (1.60)	.134 (3.40) .130 (3.30)	.350 (8.89) .345 (8.76)	.177 (4.50) .173 (4.39)	.030 (0.76) .020 (0.51)	FOR M39029/29, 30, 56, 57, 58,117,118,121&122
859-015**-10-20	.051 (1.30) .043 (1.09)	.134 (3.40) .130 (3.30)	.350 (8.89) .345 (8.76)	.177 (4.50) .173 (4.39)	.030 (0.76) .020 (0.51)	
859-.015**-20-30	.017 (0.43) .013 (0.33)	.041 (1.04) .039 (0.99)	.142 (3.61) .138 (3.51)	.068 (1.73) .064 (1.63)	.030 (0.76) .020 (0.51)	FOR M39029/4, 5, 63, & 64
859-015**-20-28-1	.022 (0.56) .016 (0.41)	.041 (1.04) .039 (0.99)	.142 (3.61) .138 (3.51)	.068 (1.73) .064 (1.63)	.030 (0.76) .020 (0.51)	
859-015**-20-26-1	.027 (0.69) .021 (0.53)	.041 (1.04) .039 (0.99)	.142 (3.61) .138 (3.51)	.068 (1.73) .064 (1.63)	.030 (0.76) .020 (0.51)	
859-015**-16-22-1	.0355 (0.90) .0335 (0.85)	.062 (1.57) .057 (1.45)	.128 (3.25) .124 (3.15)	.101 (2.57) .091 (2.31)	.030 (0.76) .020 (0.51)	FOR M39029/22
859-015**-12-16-1	.068 (1.73) .066 (1.68)	.093 (2.36) .088 (2.24)	.164 (4.17) .159 (4.04)	.147 (3.73) .137 (3.48)	.030 (0.76) .020 (0.51)	
859-015**-12-20-1	.048 (1.22) .046 (1.17)	.093 (2.36) .088 (2.24)	.164 (4.17) .159 (4.04)	.147 (3.73) .137 (3.48)	.030 (0.76) .020 (0.51)	
859-015**-16-22-2	.0355 (0.90) .0335 (0.85)	.062 (1.57) .057 (1.45)	.185 (4.70) .180 (4.57)	.101 (2.57) .091 (2.31)	.030 (0.76) .020 (0.51)	FOR ARINC 404
859-015**-12-16-2	.068 (1.73) .066 (1.68)	.093 (2.36) .088 (2.24)	.185 (4.70) .180 (4.57)	.147 (3.73) .137 (3.48)	.030 (0.76) .020 (0.51)	
859-015**-12-20-2	.048 (1.22) .046 (1.17)	.093 (2.36) .088 (2.24)	.185 (4.70) .180 (4.57)	.147 (3.73) .137 (3.48)	.030 (0.76) .020 (0.51)	
859-015**-16-22-3	.0355 (0.90) .0335 (0.85)	.057 (1.45) .052 (1.32)	.145 (3.68) .140 (3.56)	.091 (2.31) .081 (2.06)	.030 (0.76) .020 (0.51)	FOR M39029/16, 17 &18
859-015**-12-16-3	.068 (1.73) .066 (1.68)	.093 (2.36) .088 (2.24)	.169 (4.29) .164 (4.17)	.147 (3.73) .137 (3.48)	.030 (0.76) .020 (0.51)	
859-015**-12-20-3	.048 (1.22) .046 (1.17)	.093 (2.36) .088 (2.24)	.169 (4.29) .164 (4.17)	.147 (3.73) .137 (3.48)	.030 (0.76) .020 (0.51)	
859-015**-8-10-1	.138 (3.51) .133 (3.38)	.175 (4.44) .170 (4.32)	.412 (10.46) .407 (10.34)	.262 (6.65) .252 (6.40)	.036 (0.91) .026 (0.66)	FOR M39029/16, 17 &18 FOR M39029/29 & M39029/30
859-015**-8-12	.102 (2.59) .098 (2.49)	.175 (4.44) .170 (4.32)	.412 (10.46) .407 (10.34)	.262 (6.65) .252 (6.40)	.036 (0.91) .026 (0.66)	
859-015**-8-16	.068 (1.73) .066 (1.68)	.175 (4.44) .170 (4.32)	.412 (10.46) .407 (10.34)	.262 (6.65) .252 (6.40)	.036 (0.91) .026 (0.66)	
859-015**-8-20	.048 (1.22) .046 (1.17)	.175 (4.44) .170 (4.32)	.412 (10.46) .407 (10.34)	.262 (6.65) .252 (6.40)	.036 (0.91) .026 (0.66)	
859-015**-4-6-1	.227 (5.77) .222 (5.64)	.274 (6.96) .269 (6.83)	.412 (10.46) .407 (10.34)	.360 (9.14) .350 (8.89)	.036 (0.91) .026 (0.66)	
859-015**-4-8	.187 (4.75) .182 (4.62)	.274 (6.96) .269 (6.83)	.412 (10.46) .407 (10.34)	.360 (9.14) .350 (8.89)	.036 (0.91) .026 (0.66)	
859-015**-0-8	.185 (4.70) .175 (4.44)	.446 (11.33) .441 (11.20)	.500 (12.70) .495 (12.57)	.532 (13.51) .522 (13.26)	.036 (0.91) .026 (0.66)	
859-015**-0-4	.283 (7.19) .279 (7.09)	.446 (11.33) .441 (11.20)	.500 (12.70) .495 (12.57)	.532 (13.51) .522 (13.26)	.036 (0.91) .026 (0.66)	
859-015**-0-2-1	.361 (9.17) .356 (9.04)	.446 (11.33) .441 (11.20)	.500 (12.70) .495 (12.57)	.532 (13.51) .522 (13.26)	.036 (0.91) .026 (0.66)	

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