MS27488 SEALING PLUGS



Step'n Components specializes in the manufacturing and distribution of metal and composite components for the connector industry. We deliver precision components on time and to specification. The management team at Step'n Components has more than 50 years of innovation and engineering experience in the composite marketplace. Our experienced team delivers a high level of customer care to clients of all sizes.

Step'n Components' products are engineered to withstand demanding physical and environmental requirements. Our products offer exceptional performance in applications requiring mechanical endurance and they consistently achieve the goals of minimum weight, maximum durability and best value for our customers.



Step'n Components



MS27488 SEALING PLUGS





		A Dia.	B Dia.	C Dia.
Revision N	Color	Min/Max	Min/Max	Min/Max
MS27488-22-2	Black	.058/.066	.038/.045	.438/.500
MS27488-20-2	Red	.080/.090	.048/.058	.755/.805
MS27488-16-3	Blue	.120/.130	.069/.079	1.422/1.472
MS27488-16-2	Green	.120/.130	.069/.079	.822/.872
MS27488-12-3	Yellow	.160/.170	.115/.125	1.391/1.441
MS27488-12-2	Orange	.160/.170	.115/.125	.791/.841
MS27488-8-3	Red	.305/.315	.165/.175	1.139/1.189
MS27488-4-3	Blue	.404/.414	.273/.283	1.139/1.189
MS27488-0-3	Yellow	.596/.606	.416/.431	1.021/1.071

		A Dia.	B Dia.	C Dia.
Revision M	Color	Min/Max	Min/Max	Min/Max
MS27488-22-1	Black	.058/.066	.038/.045	.746/.796
MS27488-20-1	Red	.080/.090	.048/.058	.755/.805
MS27488-16-1	Blue	.120/.130	.069/.079	1.422/1.472
MS27488-12-1	Yellow	.160/.170	.115/.125	1.391/1.441
MS27488-8-1	Red	.305/.315	.165/.175	1.139/1.189
MS27488-4-1	Blue	.404/.414	.273/.283	1.139/1.189
MS27488-0-1	Yellow	.596/.606	.416/.431	1.021/1.071

Revision L	Color	A Dia. Min/Max	B Dia. Min/Max	C Dia. Min/Max
MS27488-22	Black	.058/.068	.035/.045	.438/.500
MS27488-20	Red	.085/.100	.045/.065	.544/.584
MS27488-16	Blue	.128./138	.073/.093	.544/.584
MS27488-12	Yellow	.166/.176	.111/.131	.544/.584
MS27488-8	Red	.310/.320	.175/.195	.460/.480
MS27488-4	Blue	.410/.420	.300/.320	.460/.480
MS27488-0	Yellow	.600/.610	.430/.450	.990/1.010

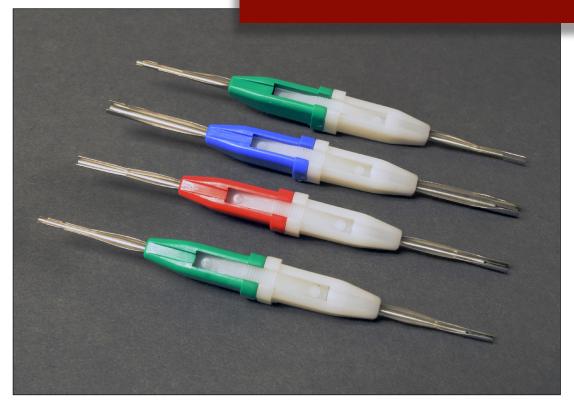


Step'n Components



M81969/1

INSTALLING AND REMOVAL TOOLS



OPL APPROVED - 04344113.AA/11- 26-13

		Color Code				
Part Number	Contact Size	Installing Tip	Removal Tip			
M81969/1- 01	22	GREEN	WHITE			
M81969/1- 02	20	RED	WHITE			
M81969/1- 03	16	BLUE	WHITE			
M81969/1- 04	22D	GREEN	WHITE			

Tools are used to install and remove contacts from MIL-DTL-24308, sizes 22D and 20 and AS81659 connectors, series 2 AS81969/1 supersedes MIL-I-81969/1 which superseded MS3156 (Navy) and MIL-C-24308/18

Step'n Components designs, manufactures and markets highly engineered products and systems principally for the aerospace and defense connector markets. Step'n Components has a long established role as a top supplier. We are known for design excellence and commitment to quality and reliability. Our products are used on thousands of aerospace, military, rail and high- end industrial applications worldwide in the most severe environments.

The M81969/1 is a plastic double-ended insertion & removal tool with metal tips designed for rear release connectors.



Step'n Components



M81969/14







Radius added to edge to prevent wires from being cut

QPL APPROVED - 04344113.AA/11- 26- 13

		Color Code				
Part Number	Contact Size	Installing Tip	Removal Tip			
M81969/14-01 /1	22D, 22N	GREEN	WHITE			
M81969/14-03 /1	16	BLUE	WHITE			
M81969/14-04 /1	12	YELLOW	WHITE			
M81969/14-06 /2	8	N/A	RED			
M81969/14-07 /2	4	N/A	BLUE			
M81969/14-08 /2	0	N/A	YELLOW			
M81969/14-10 /1	20	RED	ORANGE			
M81969/14-11 /2	20	RED	WHITE			
M81969/14-12 /1	8	N/A	GREEN			

/1 MIL-DTL-55302/68, /69, MIL-DTL-38999, MIL-DTL-24308 (SIZE 22D), MIL-DTL-83733 (SIZE 22D), AS81714 (SIZE 22D)

/2 MIL-DTL-26482 SERIES II, AS81703 SERIES III, MIL-DTL-83733 (EXCEPT 22D), MIL-DTL-83723 SERIES II & III, AS50151, AS81714 (EXCEPT 22D)

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The M81969/14 is an all plastic insertion & removal tool designed for rear release connectors.



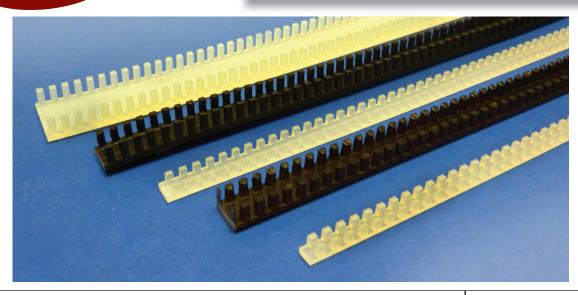
Step'n Components



MS21266 / BACG20Z

CATERPILLAR GROMMET

Short Lead Time on Cut Sizes!



NASM	SHEET THICKNESS RANGE			
MS21266-1(*)	BACG20Z-A	BACG20Z-M	STC 21266-1(*)	.015052
MS21266-2(*)	BACG20Z-B	BACG20Z-N	STC 21266-2(*)	.052085
MS21266-3(*)	BACG20Z-C	BACG20Z-P	STC 21266-3(*)	.085128
MS21266-4(*)	BACG20Z-D	BACG20Z-Q	STC 21266-4(*)	.128192
MS21266-5(*)	BACG20Z-E	BACG20Z-R	STC 21266-5(*)	.192255
MS21266-6(*)	BACG20Z-F	BACG20Z-S	STC 21266-6(*)	.255318
MS21266-7(*)	BACG20Z-G	BACG20Z-T	STC 21266-7(*)	.318380
MS21266-8(*)	BACG20Z-H	BACG20Z-U	STC 21266-8(*)	.380510

Materials (*):

- (N) Nylon 6/6 per ASTM D4066
- (T) PTFE (Teflon) per AMS 3652 and ASTM D4895
- (F) FEP per ASTM D2116

Boeing

A - H Nylon

M - U Teflon

Length:

- Nylon 12.75"
- Teflon 12.75" (NASM), 19.00" (Boeing)
- FEP 12.75"
- . Bulk coils and custom cut lengths

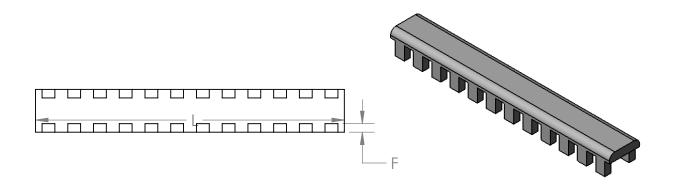
AS9100 Rev C Certified

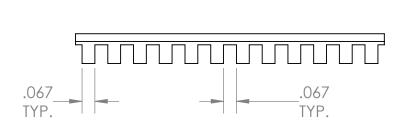
Teflon parts available with or without etch on Boeing and Stepnco part numbers



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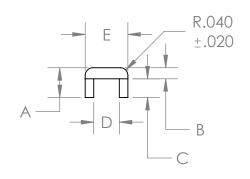


TABLE 1

PART NUMBER	A ±.010	<i>B</i> ±.010	C ±.0075	D ±.0075	<i>E</i> ±.0075	<i>F</i> ±.010	FOR MATERIAL THICKNESS
-1				.0585	.1525	.047	.015052
-2	.155	.060	.1025	.0925	.1775	.042	.052085
-3				.1335	.2225	.044	.085128
-4	.230	.075	.1625	.1975	.3275	.065	.128192
-5	.240	.073	.1725	.2625	.3875		.192255
-6				.3225	.4475	.062	.255318
-7	.255	.080	.1825	.3925	.5175	.062	.318380
-8				.5175	.6425		.380510

NOTES:

STANDARD LENGTH: 1.

MS21266/STC 21266 NYLON 12.750" + .000 / - .130 TEFLON 12.750" +/- .030

BAGC20Z NYLON 12.750" + .000 / - .130 TEFLON 19.000" +/- .030

CUT LENGTHS < 3.000" ± .015 CUT LENGTHS > 3.000" ±.030 2.

3. MATERIAL:

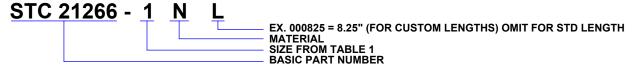
N - NYLON 6/6 PER ASTM D4066 OR ASTM D6779 T - PTFE PER AMS3656 OR AMS 3660

TE - PTFE WITH ETCHING F - FEP per ASTM D2116

4.

TEMPERATURE: H - APPLICATIONS UP TO 275°F T/TE - APPLICATIONS UP TO 500°F

SAMPLE STC PART NUMBER:



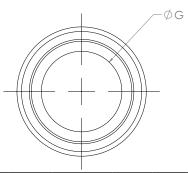


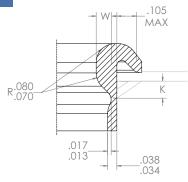
NAS1368

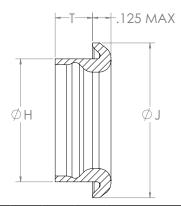
FLIP GROMMET



Material: Nylon 6/6 PER L-P-410 Self-extinguishing without fillers Color: Natural







		Structure		I	Н			T Length ±.005								
Dash	G Dia.	Hole Dia	W	D	ia.	J Dia.	К				Length	1 Code				Nom. Wt.
Number	Nom.	(Ref) +.010 /	±.003			±.005	Approx.									# / 1000
		005		Min	Max			Α	В	С	D	F	Н	K	L	
3	.188	.313		.302	.308	.505										1.1
4	.250	.375	.058	.364	.370	.567										1.3
6	.375	.500	.000	.489	.495	.692										1.8
8	.500	.625		.610	.620	.815	.100	.235	.295	.360	.420					2.2
10	.625	.781		.766	.776	.971										3.0
12	.750	.906	.083	.891	.901	1.096										3.6
14	.875	1.031		1.016	1.026	1.221										4.3
16	1.000	1.188		1.173	1.183	1.378		075	225	400	400					5.7
18	1.125	1.313		1.298	1.308	1.503		.275	.335	.400	.460					6.4
20	1.250	1.438		1.423	1.433	1.628										7.2
22	1.375	1.563	.104	1.538	1.558	1.748	.120									7.7
24	1.500	1.688		1.663	1.683	1.873						.275	.335	.400	.460	8.3
28	1.750	1.938		1.913	1.933	2.123										9.7
32	2.000	2.188		2.163	2.183	2.373										10.7

Nominal Structure Thicknes (Ref.)										
-3 To -18 -20 To -32										
Α	В	С	D	F	Н	K	L			
.025 TO .080	.081 TO .140	.141 TO .200	.201 TO .250	.025 TO .040	.041 TO .091	.092 TO .160	.161 TO .220			



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