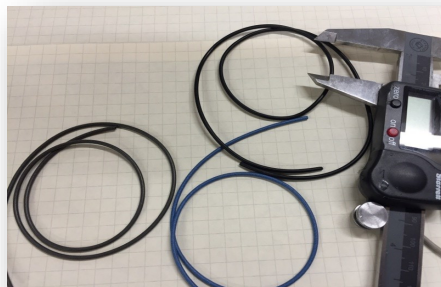


Conduct-O-Elastomer

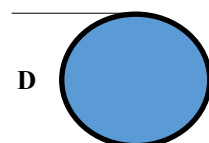
ECS3 Series

ECS has developed a line of conductive silicone elastomers that are designed to meet the requirements outlined for the MIL-G-83528 specification. Our conductive materials are used to produce shielding gaskets for Military, Aerospace, electronics, and communications applications. Our range of conductive silicones has expanded to include materials that are designed to balance requirements for electrical conductivity and cost performance for the commercial sector.



SOLID ROUND

M83528/001

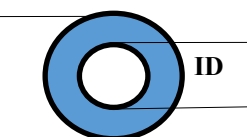


EXTRUSION STANDARD PROFILES

D	PART	M83528/	D	PART	M83528/	D	PART	M83528/
.040	ECS3-10	1/001	.103	ECS3-16	1/007	.150	ECS3-21	N/A
.053	ECS3-11	1/002	.112	ECS3-17	N/A	.160	ECS3-22	N/A
.062	ECS3-12	1/003	.119	ECS3-17	1/008	.188	ECS3-23	1/011
.070	ECS3-13	1/004	.125	ECS3-18	1/009	.216	ECS3-24	1/012
.080	ECS3-14	1/005	.130	ECS3-19	N/A	.250	ECS3-25	1/013
.093	ECS3-15	1/006	.139	ECS3-20	1/010	-	-	-

HOLLOW ROUND

M83528/011



O.D. (in.)	I.D. (in.)	PART NO.	M83528/
.070	.025	ECS3-26	N/A
.093	.035	ECS3-27	N/A
.103	.040	ECS3-28	11/007
.125	.045	ECS3-29	11/001
.125	.062	ECS3-30	11/006
.156	.050	ECS3-31	11/002
.177	.079	ECS3-32	11/008
.250	.125	ECS3-33	11/003
.312	.192	ECS3-34	11/004
.375	.250	ECS3-35	11/005
.437	.250	ECS3-36	N/A

When ordering, please use full product number & material requesting i.e.;

ECS3-10-2000 - 2000 = Nickel Graphite

Please see Material Selection page on the last page (7) of Conduct-O-Elastomer section

Conduct-O-Elastomer

Extrusion Profiles

ECS3 Series

RECTANGULAR SOLID

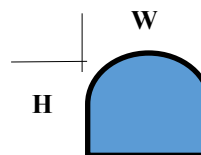
M83528/009



A	B	PART NO.	M83528/
.032	.032	ECS3-36	N/A
.063	.042	ECS3-37	9/001
.095	.062	ECS3-38	9/002
.120	.075	ECS3-39	9/003
.125	.062	ECS3-40	9/004
.156	.062	ECS3-41	9/005
.250	.062	ECS3-42	9/006
.500	.075	ECS3-43	9/007
.500	.125	ECS3-44	9/008
.500	.188	ECS3-45	9/009
.750	.062	ECS3-46	9/010
.880	.062	ECS3-47	9/011
1.000	.250	ECS3-48	9/012
1.180	.062	ECS3-49	9/013
.060	.080	ECS3-50	N/A

SOLID D SHAPE

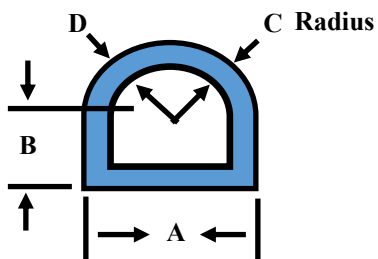
M83528/003



H	W	PART NO.	M83528/
.064	.055	ECS3-51	N/A
.068	.062	ECS3-52	3/001
.068	.062	ECS3-53	N/A
.078	.094	ECS3-54	3/002
.089	.078	ECS3-55	3/003
.094	.094	ECS3-56	3/004
.100	.062	ECS3-57	3/005
.110	.150	ECS3-58	3/006
.131	.122	ECS3-59	N/A
.136	.124	ECS3-60	3/007
.156	.118	ECS3-61	3/008
.156	.156	ECS3-62	3/009
.175	.178	ECS3-63	3/010
.188	.188	ECS3-64	3/011
.250	.250	ECS3-65	3/012

HOLLOW D SHAPE

M83528/007



A	B	C	D	PART NO.	M83528/
.156	.045	.078	.045	ECS3-66	N/A
.156	.078	.078	.045	ECS3-67	7/001 A
.187	.093	.093	.050	ECS3-68	7/002 A
.250	.125	.125	.065	ECS3-69	7/007 A
.312	.156	.156	.062	ECS3-70	7/003 A
.487	.244	.244	.080	ECS3-71	7/004 B
.487	.080	.244	.080	ECS3-72	7/006 A
.312	.200	.112	.062	ECS3-73	7/005 A

Conduct-O-Elastomer

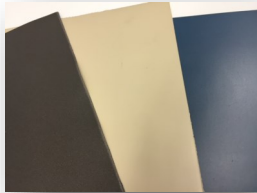
Molded Sheet Part Numbers

ECS3 Series

For ordering convenience please see our full product part number list below. All part numbers are individually numbered to designate material type, durometer, thickness, and mold dimension. Please see the example of our part number system below or simply call direct for assistance.

Keep in mind addition of PSA and custom mold size is available by request as always.

Continuous Roll Stock is also available up to 15" WD



Sheet Thickness & Dimensions ECS Material Durometer (Shore A)



ECS3- _ _ _ _ - _ _ _ - _ _

Series	Thickness	Sheet Dimensions	Material - Durometer
ECS3	.020	15" x 20" 24" x 26"	1000-70
	.032		2000-65
	.040		2000F-60
	.045		5000-65*
	.062		5000F-70*
	.093		6000-65
	.125		7000-65
	.188		8000-65*
	.250		8000-85*

* M83528/015 Certified Material

Conduct-O-Elastomer Specifications

ECS3 Series

	Carbon 1000	Nickel Graphite 2000	Nickel Graphite 2000F	Silver Aluminum 5000*	Silver Aluminum 5000F*	Silver Glass 6000	Silver Copper 8000*
Elastomer	Silicone	Silicone	Fluoro-silicone	Silicone	Fluoro-silicone	Silicone	Silicone
Color	Black	Dark Gray	Dark Gray	Blue*	Blue*	Tan	Tan
Specific Gravity, gm/cc	1.2	1.95	1.95	2.0	2.0	1.9	3.5
Durometer Shore A	70	30-70	65	65	70	65	65
Volume Resistivity, Ohm-cm	7.0	0.10	0.10	0.008	0.012	0.006	0.004
Operating Temperature: Min C	-55°	-55°	-55°	-55°	-55°	-55°	-55°
Operating Temperature: Max C	200°	150°	150°	160°	160°	160°	125°
Compression Deflection % Min.	3.5	3.5	3.0	3.5	3.5	3.5	3.5
Tensile Strength, P.S.I.	650	150	150	200	180	200	200
Elongation % Min.	100%	100%	100%	100%	60%	100%	100%
Elongation % Max.	-	-	-	300%	260%	300%	300%
Compression Set %	40	35	25	32	30	30	32
Tear Strength lb./in.	40	40	35	30	35	30	25
Shielding Effectiveness (100 Mhz)	80	100	100	120	120	100	120
Shielding Effectiveness (500 Mhz)	80	100	100	120	120	100	120
Shielding Effectiveness (2 Ghz)	60	100	100	115	115	90	120
Shielding Effectiveness (10 Ghz)	50	100	100	115	115	90	120

* See next page for actual data (MIL-DTL-83528H Qualifying results for types A, B, D, & K) *

EAST COAST SHIELDING

Qualifying Data for Types A, B, D, & K

	Silver Aluminum 5000-65 (Type B)	Silver Aluminum 5000F-70 (Type D)	Silver Copper 8000-65 (Type A)	Silver Copper 8000-85 (Type K)
Elastomer	Silicone	Fluorosilicone	Silicone	Silicone
Color	Blue	Blue	Tan	Tan
Specific Gravity, g/cc	2.0689	2.1998	3.5976	3.6612
Durometer, Shore A	67.66	70	71.33	81.33
Volume Resistivity, ohm-cm	.00278	.00326	.00107	.00127
Compression Deflection, %	16.66	13.217	12.793	12.793
Tensile Strength, PSI	278.108	330.137	353.004	602.853
Elongation, %	222.282	190.895	254.002	265.042
Compression Set, %	12.74	21.08	25.1533	25.6933
Tear Strength, lb./in.	53.192	66.972	54.837	81.169
Electrical Stability After Break, ohm-cm	.00295	.0072	.00097	.00186
Vibration, Ohm-cm During/After	.00719/.00126	.00213/.00089	.00279/.000413	.00145/.00045
Low Temp. Flex, °C TR10/TR70	-70 °C/-65 °C	-67.6 °C/-61.33 °C	-69 °C/-69 °C	-69.8 °C/-69.8 °C
Life Testing, Ohm-cm	.0046	.00632	.00548	.00616
EMP, Ohm-cm	.0083	.0103	.0053	.005
Fluid Immersion, Survivability	Not Survivable	Survivable	Not Survivable	Not Survivable
Shielding Effectiveness, 100 MHz	125	119	125	127
Shielding Effectiveness, 500 MHz	120	121	131	134
Shielding Effectiveness, 2 GHz	123	123	120	132
Shielding Effectiveness, 10 GHz	122	121	126	128