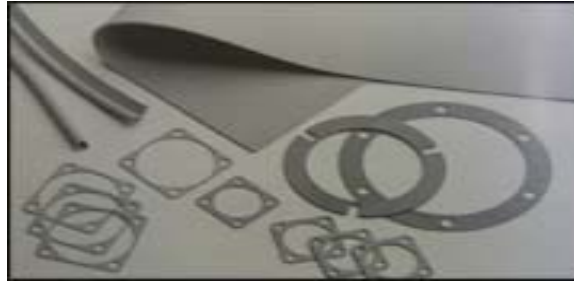


EAST COAST SHIELDING

CONDUCTIVE ELASTOMERS: SERIES 110



East Coast Shielding's Conductive Elastomers consist of silicone or fluorosilicone binders with a conductive filler of silver-plated copper, silver-plated aluminum, silver-plated glass, silver, nickel or nickel plated graphite. East Coast Shielding offers a complete line of conductive elastomers meeting the requirements of MIL-G-83528. Also available are materials that meet the requirements for commercial applications.

APPLICATIONS:

Conductive Elastomers are used in applications requiring maximum shielding in a severe environment. These applications typically include all military and aerospace requirements. These materials can also be applied economically to meet commercial requirements.

AVAILABLE CONFIGURATIONS:

Conductive Elastomers are available die-cut, molded or extruded to your specifications or as sheet stock. The materials listed can also be compounded to meet the requirements for any commercial application. In addition to conductive elastomers, East Coast Shielding also offers a complete line of conductive adhesives and sealants.

AVAILABLE SHEET SIZES AND THICKNESSES

SHEET SIZES

10.00" x 10.00"
12.00" x 12.00"
10.00" x 20.00"
12.00" x 18.00"
15.00" x 20.00"
17.80" x 20.50"

SHEET THICKNESSES

.020" Thick
.030" Thick
.032" Thick
.040" Thick
.060" Thick
.062" Thick
.093" Thick
.125" Thick

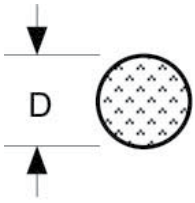
CONDUCTIVE ELASTOMER SPECIFICATIONS: 110 SERIES

Series	Carbon 1000	Nickel Graphite 2000	Nickel Graphite 2000F	Silver Low D. 3000	Silver Nickel 4000	Silver Nickel 4000F	Silver Aluminum 5000	Silver Aluminum 5000F
Elastomer	Silicone	Silicone	Fluoro- silicone	Silicone	Silicone	Fluoro- silicone	Silicone	Fluoro- silicone
Color	Black	Dark Gray	Dark Gray	Tan	Tan	Tan	Blue*	Blue*
Specific Gravity, gm/cc	1.2	1.95	1.95	1.7	4.0	4.4	2.0	2.0
Durometer Shore A	70	30-70	65	45	75	70	65	70
Volume Resistivity, Ohm-cm	7.0	0.10	0.10	0.010	0.005	0.012	0.008	0.012
Operating Temperature: Min C	-55°	-55°	-55°	-55°	-55°	-55°	-55°	-55°
Operating Temperature: Max C	200°	150°	150°	160°	125°	160°	160°	160°
Compression Deflection % Min.	3.5	3.5	3.0	8.0	3.5	3.5	3.5	3.5
Tensile Strength, P.S.I.	650	150	150	150	200	180	200	180
Elongation % Min.	100%	100%	100%	50%	100%	60%	100%	60%
Elongation % Max.	-	-	-	250%	300%	260%	300%	260%
Compression Set %	40	35	25	35	32	30	32	30
Tear Strength lb./in.	40	40	35	20	30	35	30	35
Shielding Effectiveness (100 Mhz)	80	100	100	100	120	120	120	120
Shielding Effectiveness (500 Mhz)	80	100	100	100	120	120	120	120
Shielding Effectiveness (2 Ghz)	60	100	100	90	120	115	115	115
Shielding Effectiveness (10 Ghz)	50	100	100	90	110	110	115	115

Series	Silver Glass	Silver Glass	Silver Pure	Silver Pure	Silver Pure	Silver Copper	Silver Copper	Silver Copper	Silver Copper
	6000	6000F	7000	7000F	7000SS	8000	8000F	8000	8000
Elastomer	Silicone	Fluoro-silicone	Silicone	Fluoro-silicone	Silver Silicone	Silicone	Fluoro-silicone	Silicone	Silicone
Color	Tan	Tan	Tan	Tan	Tan	Tan	Tan	Tan	Tan
Specific Gravity, gm/cc	1.9	1.9	3.5	4.0	4.0	3.5	4.0	4.8	3.5
Durometer Shore A	65	65	65	75	80	65	75	80	85
Volume Resistivity, Ohm-cm	0.006	0.006	0.002	0.002	0.005	0.004	0.010	0.007	0.005
Operating Temperature: Min C	-55°	-55°	-55°	-65°	-55°	-55°	-55°	-45°	-45°
Operating Temperature: Max C	160°	160°	160°	160°	160°	125°	125°	125°	125°
Compression Deflection % Min.	3.5	3.5	2.5	3.5	2.5	3.5	3.5	2.5	2.5
Tensile Strength, P.S.I.	200	200	300	250	400	200	180	600	400
Elongation % Min.	100%	100%	200%	100%	90%	100%	100%	20%	100%
Elongation % Max.	300%	300%	500%	300%	290%	300%	300%	N/A	300%
Compression Set %	30	30	45	60	60	32	35	N/A	35
Tear Strength lb./in.	30	30	50	40	60	25	35	70	40
Shielding Effectiveness (100 Mhz)	100	100	120	120	120	120	120	120	120
Shielding Effectiveness (500 Mhz)	100	90	120	120	120	120	120	120	120
Shielding Effectiveness (2 Ghz)	90	90	120	120	120	120	120	120	120
Shielding Effectiveness (10 Ghz)	90	90	120	120	120	120	115	120	120

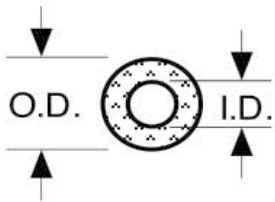
AVAILABLE STANDARD CROSS SECTIONS

ROUND



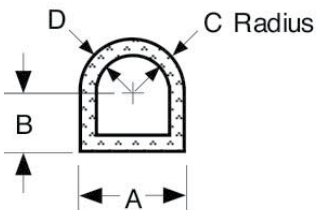
D	PART NO.	D	PART NO.	D	PART NO.
.040	110-001	.103	110-007	.150	110-013
.053	110-002	.112	110-008	.160	110-014
.062	110-003	.119	110-009	.188	110-015
.070	110-004	.125	110-010	.216	110-016
.080	110-005	.130	110-011	.250	110-017
.093	110-006	.139	110-012		

HOLLOW ROUND



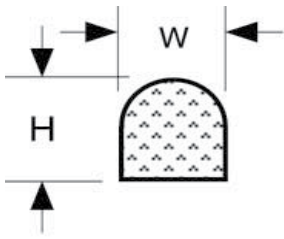
O.D. (in.)	I.D. (in.)	PART NO.
.070	.025	110-018
.093	.035	110-019
.103	.040	110-020
.125	.045	110-022
.125	.062	110-023
.156	.050	110-024
.177	.079	110-025
.250	.125	110-026
.312	.192	110-027
.375	.250	110-028
.437	.250	110-029

HOLLOW



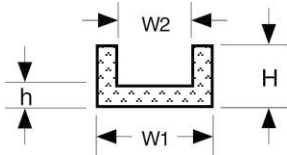
A	B	C	D	PART NO.
.156	.045	.078	.045	110-030
.156	.078	.078	.045	110-031
.187	.093	.093	.050	110-032
.250	.125	.125	.065	110-021
.312	.156	.156	.062	110-033
.487	.244	.244	.080	110-034

SOLID D



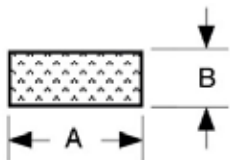
H	W	PART NO.
.064	.055	110-035
.068	.062	110-036
.078	.094	110-037
.089	.078	110-038
.094	.094	110-039
.100	.062	110-040
.110	.150	110-041
.131	.122	110-042
.136	.124	110-043
.156	.118	110-044
.156	.156	110-045
.175	.178	110-046
.188	.188	110-047
.250	.250	110-048

U CHANNEL



H	h	W1	W2	PART NO.
.100	.033	.100	.034	110-049
.110	.050	.126	.026	110-050
.156	.047	.156	.062	110-052
.156	.075	.175	.047	110-053
.225	.075	.126	.020	110-054
.235	.115	.327	.062	110-055

RECTANGULAR SOLID



A	B	PART NO.
.032	.032	110-056
.060	.080	110-057
.063	.042	110-058
.095	.062	110-059
.120	.075	110-060
.125	.062	110-061
.156	.062	110-062
.250	.062	110-051
.500	.075	110-063
.500	.125	110-064
.500	.188	110-065
.750	.062	110-066
.880	.062	110-067
1.000	.250	110-068
1.180	.062	110-069

HOW TO ORDER 110 SERIES

110 - XXX - X - F			
110 Series	Sequential Part Number	Conducting Material	Fluorosilicone
		1 Carbon (1000)	Add "F" if desired
		2 Nickel Graphite (2000)	
		3 Silver Low Density (3000)	
		4 Silver Nickel (4000)	
		5 Silver Aluminum (5000)	
		6 Silver Plated Glass (6000)	
		7 Pure Silver (7000)	
		8 Silver Plated Copper (8000)	

~ Please specify conducting material when ordering~