

---

# Conduct-O-Knit Knitted Wire Mesh

## ECS1 Series

---

ECS1 Series Conduct-O-Knit materials consist of an elastomer core with knitted wire mesh or as a knitted wire mesh over. The knitted wire mesh can be fabricated with .0035" (0.089) or .0045" (.114) diameter Monel or SnCuFe (tin-plated, copper-clad steel) Wire or with .005" (.127) diameter Aluminum Wire. The standard wire materials are Monel. Monel is used mostly because of its good aging properties & excellent tensile strength. The elastomer cores are available in Neoprene Sponge, Silicone Sponge, or Solid Silicone Tubing.

### APPLICATIONS

Conduct-O-Knit provides first rate shielding in applications that need more robust gaskets. The wire mesh is perfect for applications that don't require an environmental seal. We suggest Conduct-O-Knit knitted wire mesh over an elastomer core for applications that need a sealing against the environment.

### OPTIONS

We offer continuous length spools or can customize and cut to length based on your needs of your business. Conduct-O-Knit can be manufactured into an unlimited number of configurations.



### Material Specifications

Monel Wire—.0035"/.0045 Diameter

SnCuFe Wire

Aluminum Wire—.005" Diameter

Tin-Plated Phosphor

Bronze Wire—.0045" Diameter

Neoprene Sponge Elastomer

Silicone Sponge Elastomer

Silicone Solid Elastomer

QQ-N-281

ASTM-B-520, 2-3% tin plating, 30-40% copper cladding and balance of weight is steel

Alloy 5056, MAS-4182

Phosphor Bronze Per ASTM B-105

Tin-Plate Per ASTM B-33

MIL-R-6130B Type II Grade A, Condition medium

AMS-3195

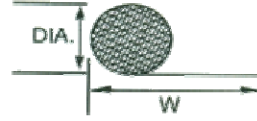
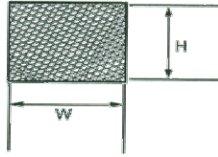
ZZ-R-765 Class 2B, Grade 40



7635 RONSON ROAD • SAN DIEGO, CALIFORNIA 92111 • TEL: 858-278-3270 • FAX: 858-278-2950  
E-MAIL: [sales@sandiegoseal.com](mailto:sales@sandiegoseal.com) • VISIT US AT: [www.sandiegoseal.com](http://www.sandiegoseal.com)

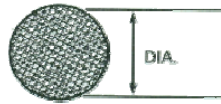
# Conduct-O-Knit Available Configurations

## ECS1 Series



WIDTH (W)	HEIGHT (H)	ECS PART NUMBER	
		MONEL	SnCuFe
0.062 (1.57)	0.062 (1.57)	ECS1-1	ECS1-2
0.062 (1.57)	0.125 (3.18)	ECS1-3	ECS1-4
0.062 (1.57)	0.188 (4.78)	ECS1-4	ECS1-6
0.062 (1.57)	0.250 (6.35)	ECS1-7	ECS1-8
0.062 (1.57)	0.312 (7.92)	ECS1-9	ECS1-10
0.062 (1.57)	0.375 (9.53)	ECS1-11	ECS1-12
0.062 (1.57)	0.500 (12.70)	ECS1-13	ECS1-14
0.062 (1.57)	0.625 (15.88)	ECS1-15	ECS1-16
0.062 (1.57)	0.750 (19.05)	ECS1-17	ECS1-18
0.062 (1.57)	1.000 (25.40)	ECS1-19	ECS1-20
0.093 (2.36)	0.093 (2.36)	ECS1-21	ECS1-22
0.093 (2.36)	0.125 (3.18)	ECS1-23	ECS1-24
0.093 (2.36)	0.188 (4.78)	ECS1-25	ECS1-26
0.093 (2.36)	0.250 (6.35)	ECS1-27	ECS1-28
0.093 (2.36)	0.312 (7.92)	ECS1-29	ECS1-30
0.093 (2.36)	0.375 (9.53)	ECS1-31	ECS1-32
0.093 (2.36)	0.500 (12.70)	ECS1-33	ECS1-34
0.093 (2.36)	0.625 (15.88)	ECS1-35	ECS1-36
0.125 (3.18)	0.125 (3.18)	ECS1-37	ECS1-38
0.125 (3.18)	0.156 (3.96)	ECS1-39	ECS1-40
0.125 (3.18)	0.188 (4.78)	ECS1-41	ECS1-42
0.125 (3.18)	0.250 (6.35)	ECS1-43	ECS1-44
0.125 (3.18)	0.312 (7.92)	ECS1-45	ECS1-46
0.125 (3.18)	0.375 (9.53)	ECS1-47	ECS1-48
0.125 (3.18)	0.500 (12.70)	ECS1-49	ECS1-50
0.125 (3.18)	0.625 (15.88)	ECS1-51	ECS1-52
0.125 (3.18)	0.750 (19.05)	ECS1-53	ECS1-54
0.125 (3.18)	1.000 (25.40)	ECS1-55	ECS1-56
0.188 (4.78)	0.188 (4.78)	ECS1-57	ECS1-58
0.188 (4.78)	0.250 (6.35)	ECS1-59	ECS1-60
0.188 (4.78)	0.312 (7.92)	ECS1-61	ECS1-62
0.188 (4.78)	0.375 (9.53)	ECS1-63	ECS1-64
0.188 (4.78)	0.500 (12.70)	ECS1-65	ECS1-66
0.188 (4.78)	0.625 (15.88)	ECS1-67	ECS1-68
0.188 (4.78)	0.750 (19.05)	ECS1-69	ECS1-70
0.188 (4.78)	1.000 (25.40)	ECS1-71	ECS1-72
0.250 (6.35)	0.250 (6.35)	ECS1-73	ECS1-74
0.250 (6.35)	0.312 (7.92)	ECS1-75	ECS1-76
0.250 (6.35)	0.375 (9.53)	ECS1-77	ECS1-78
0.250 (6.35)	0.500 (12.70)	ECS1-79	ECS1-80
0.250 (6.35)	0.625 (15.88)	ECS1-81	ECS1-82
0.250 (6.35)	0.750 (19.05)	ECS1-83	ECS1-84
0.250 (6.35)	1.000 (25.40)	ECS1-85	ECS1-86
0.312 (7.92)	0.312 (7.92)	ECS1-87	ECS1-88
0.375 (9.53)	0.375 (9.53)	ECS1-89	ECS1-90
0.375 (9.53)	0.625 (15.88)	ECS1-91	ECS1-92

DIA (D)	OVERALL WIDTH (W)	ECS PART NUMBER	
		MONEL	SnCuFe
0.062 (1.57)	0.375 (9.53)	ECS1-93	ECS1-94
0.062 (1.57)	0.500 (12.70)	ECS1-95	ECS1-96
0.062 (1.57)	0.625 (15.88)	ECS1-97	ECS1-98
0.062 (1.57)	0.750 (19.05)	ECS1-99	ECS1-100
0.093 (2.36)	0.375 (9.53)	ECS1-101	ECS1-102
0.093 (2.36)	0.500 (12.70)	ECS1-103	ECS1-104
0.093 (2.36)	0.750 (19.05)	ECS1-105	ECS1-106
0.125 (3.18)	0.375 (9.53)	ECS1-107	ECS1-108
0.125 (3.18)	0.437 (11.11)	ECS1-109	ECS1-110
0.125 (3.18)	0.500 (12.70)	ECS1-111	ECS1-112
0.125 (3.18)	0.562 (14.27)	ECS1-113	ECS1-114
0.125 (3.18)	0.625 (15.88)	ECS1-115	ECS1-116
0.125 (3.18)	0.750 (19.05)	ECS1-117	ECS1-118
0.156 (3.96)	0.500 (12.70)	ECS1-119	ECS1-120
0.156 (3.96)	0.750 (19.05)	ECS1-121	ECS1-122
0.188 (4.78)	0.437 (11.11)	ECS1-123	ECS1-124
0.188 (4.78)	0.500 (12.70)	ECS1-125	ECS1-126
0.188 (4.78)	0.625 (15.88)	ECS1-127	ECS1-128
0.188 (4.78)	0.750 (19.05)	ECS1-129	ECS1-130
0.188 (4.78)	0.875 (22.23)	ECS1-131	ECS1-132
0.250 (6.35)	0.500 (12.70)	ECS1-133	ECS1-134
0.250 (6.35)	0.625 (15.88)	ECS1-135	ECS1-136
0.250 (6.35)	0.750 (19.05)	ECS1-137	ECS1-138
0.250 (6.35)	0.875 (22.23)	ECS1-139	ECS1-140
0.250 (6.35)	1.000 (25.40)	ECS1-141	ECS1-142
0.312 (7.92)	0.625 (15.88)	ECS1-143	ECS1-144
0.312 (7.92)	0.750 (19.05)	ECS1-145	ECS1-146
0.312 (7.92)	0.875 (22.23)	ECS1-147	ECS1-148
0.375 (9.53)	0.625 (15.88)	ECS1-149	ECS1-150
0.375 (9.53)	0.750 (19.05)	ECS1-151	ECS1-152
0.375 (9.53)	0.875 (22.23)	ECS1-153	ECS1-154
0.375 (9.53)	1.000 (25.40)	ECS1-155	ECS1-156
0.437 (11.11)	0.750 (19.05)	ECS1-157	ECS1-158
0.437 (11.11)	0.875 (22.23)	ECS1-159	ECS1-160
0.437 (11.11)	1.000 (25.40)	ECS1-161	ECS1-162
0.500 (12.70)	0.750 (19.05)	ECS1-163	ECS1-164
0.500 (12.70)	0.875 (22.23)	ECS1-165	ECS1-166
0.500 (12.70)	1.000 (25.40)	ECS1-167	ECS1-168



**ROUND MESH**

DIA (D)	ECS PART NUMBER	
	MONEL	SnCuFe
0.062 (1.57)	ECS1-169	ECS1-170
0.093 (2.36)	ECS1-171	ECS1-172
0.125 (3.18)	ECS1-173	ECS1-174
0.156 (3.96)	ECS1-175	ECS1-176
0.188 (4.78)	ECS1-177	ECS1-178
0.250 (6.35)	ECS1-179	ECS1-180
0.312 (7.92)	ECS1-181	ECS1-182
0.375 (9.53)	ECS1-183	ECS1-184
0.437 (11.11)	ECS1-185	ECS1-186
0.500 (12.70)	ECS1-187	ECS1-188

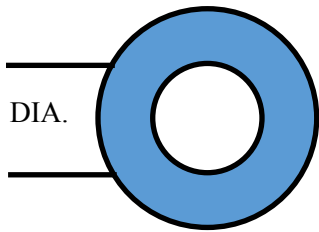


---

# Conduct-O-Knit Round Tubing Core

## ECS1 Series

---



CORE DIA.*	ECS PART NUMBER	
	SILICONE SOLID TUBE	
	MONEL	SnCuFe
0.188 (4.78)	ECS1-189	ECS1-190
0.250 (6.35)	ECS1-191	ECS1-192
0.375 (9.53)	ECS1-193	ECS1-194
0.500 (12.70)	ECS1-195	ECS1-196

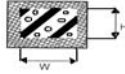
\* These dimensions are for the elastomer core. Add 0.032" (0.81)  
for outside dimensions or diameters.



7635 RONSON ROAD • SAN DIEGO, CALIFORNIA 92111 • TEL: 858-278-3270 • FAX: 858-278-2950  
E-MAIL: [sales@sandiegoseal.com](mailto:sales@sandiegoseal.com) • VISIT US AT: [www.sandiegoseal.com](http://www.sandiegoseal.com)

# Conduct-O-Knit Available Configurations

## ECS1 Series



RECTANGULAR WITH SPONGE CORE

CORE HEIGHT(H)	CORE WIDTH (W)	PART NUMBER			
		NEOPRENE SPONGE		SILICONE SPONGE	
		MONEL	SnCuFe	MONEL	SnCuFe
0.125 (3.18)	0.125 (3.18)	ECS1-197	ECS1-198	ECS1-199	ECS1-200
0.125 (3.18)	0.156 (3.96)	ECS1-201	ECS1-202	ECS1-203	ECS1-204
0.125 (3.18)	0.188 (4.78)	ECS1-205	ECS1-206	ECS1-207	ECS1-208
0.125 (3.18)	0.250 (6.35)	ECS1-209	ECS1-210	ECS1-211	ECS1-212
0.188 (4.78)	0.188 (4.78)	ECS1-213	ECS1-214	ECS1-215	ECS1-216
0.250 (6.35)	0.250 (6.35)	ECS1-217	ECS1-218	ECS1-219	ECS1-220
0.250 (6.35)	0.375 (9.53)	ECS1-221	ECS1-222	ECS1-223	ECS1-224
0.250 (6.35)	0.500 (12.70)	ECS1-225	ECS1-226	ECS1-227	ECS1-228
0.375 (9.53)	0.500 (12.70)	ECS1-229	ECS1-230	ECS1-231	ECS1-232
0.375 (9.53)	0.625 (15.88)	ECS1-233	ECS1-234	ECS1-235	ECS1-236
0.500 (12.70)	0.500 (12.70)	ECS1-237	ECS1-238	ECS1-239	ECS1-240
0.500 (12.70)	0.750 (19.05)	ECS1-241	ECS1-242	ECS1-243	ECS1-244



ROUND WITH FIN AND SPONGE CORE

CORE DIA. (D)	OVERALL WIDTH (W)	PART NUMBER			
		NEOPRENE SPONGE		SILICONE SPONGE	
		MONEL	SnCuFe	MONEL	SnCuFe
0.125 (3.18)	0.500 (12.70)	ECS1-245	ECS1-246	ECS1-247	ECS1-248
0.125 (3.18)	0.625 (15.88)	ECS1-249	ECS1-250	ECS1-251	ECS1-252
0.125 (3.18)	0.750 (19.05)	ECS1-253	ECS1-254	ECS1-255	ECS1-256
0.188 (4.78)	0.500 (12.70)	ECS1-257	ECS1-258	ECS1-259	ECS1-260
0.188 (4.78)	0.625 (15.88)	ECS1-261	ECS1-262	ECS1-263	ECS1-264
0.188 (4.78)	0.750 (19.05)	ECS1-265	ECS1-266	ECS1-267	ECS1-268
0.250 (6.35)	0.625 (15.88)	ECS1-269	ECS1-270	ECS1-271	ECS1-272
0.250 (6.35)	0.750 (19.05)	ECS1-273	ECS1-274	ECS1-275	ECS1-276
0.250 (6.35)	1.000 (25.40)	ECS1-278	ECS1-279	ECS1-280	ECS1-281
0.500 (12.70)	1.000 (25.40)	ECS1-282	ECS1-283	ECS1-284	ECS1-285
0.625 (15.88)	1.375 (34.93)	ECS1-286	ECS1-287	ECS1-288	ECS1-289



ROUND WITH SPONGE CORE

CORE DIA. (D)	PART NUMBER			
	NEOPRENE SPONGE		SILICONE SPONGE	
	MONEL	SnCuFe	MONEL	SnCuFe
0.062 (1.57)	ECS1-290	ECS1-291	ECS1-292	ECS1-293
0.125 (3.18)	ECS1-294	ECS1-295	ECS1-296	ECS1-297
0.188 (4.78)	ECS1-298	ECS1-299	ECS1-300	ECS1-301
0.250 (6.35)	ECS1-302	ECS1-303	ECS1-304	ECS1-305
0.312 (7.92)	ECS1-306	ECS1-307	ECS1-308	ECS1-309
0.375 (9.53)	ECS1-310	ECS1-311	ECS1-312	ECS1-313
0.437 (11.11)	ECS1-314	ECS1-315	ECS1-316	ECS1-317
0.500 (12.70)	ECS1-318	ECS1-319	ECS1-320	ECS1-321

OTHER CROSS SECTIONS AVAILABLE UPON REQUEST

