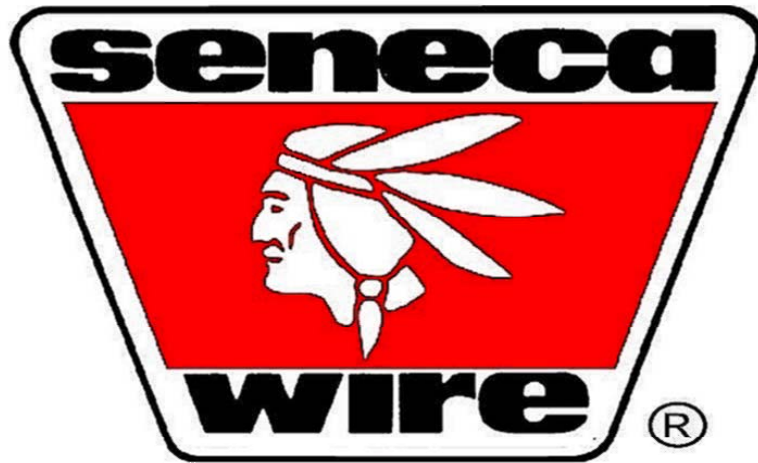


The Seneca Wire & Manufacturing Co.



319 S. Vine Street
Fostoria, Ohio 44830
(419) 435 9261

www.senecawire.com

email address - first.last@senecawire.com

Quality Management System

QS-9000 Certified

Primary Product

Spring Steel Wire

Drawn Wires - Hard Drawn and Music Wire
Tempered Wires - Induction Tempered and Oil Tempered
Die Drawn or Rolled; Rounds, Flats and Shapes

Special Strength Wire SSW®

The
Quality

Chief



Higher Strength
Longer Life
Greater Ductility

In the family of **Special Strength Wires SSW®**, Seneca has developed the 2nd generation of Spring Steel Wire Products!

SSW® Wires have been developed to meet every aspect of ASTM specifications for High Carbon and Chrome Silicon Wires with *one significant exception* :

SSW® Wires have 30 to 40 KSI higher tensile strengths!

SSW® Wires facilitate springs designed to higher loads, higher fatigue limits, using less space, lower material content, less weight and any combination.

Use **SSW® Wires** for solutions to your load, fatigue and/or space challenged applications! *For even higher tensile wires please inquire!*

SSW® Drawn Wires

SSW® Music Wire

Designed for applications requiring high stress and good fatigue properties, the same as conventional Music Wire, **except** engineered to tensile strengths up to 30 KSI above Music Wire produced to ASTM A228 standards.

SSW® Hard Drawn Wire

Designed for applications requiring high static and infrequent dynamic loads, the same as conventional hard drawn wire, **except** engineered to tensile strengths up to 30 KSI above Hard Drawn wires produced to ASTM A679 standards.

SSW® Tempered Wires

SSW® High Carbon Tempered Wire

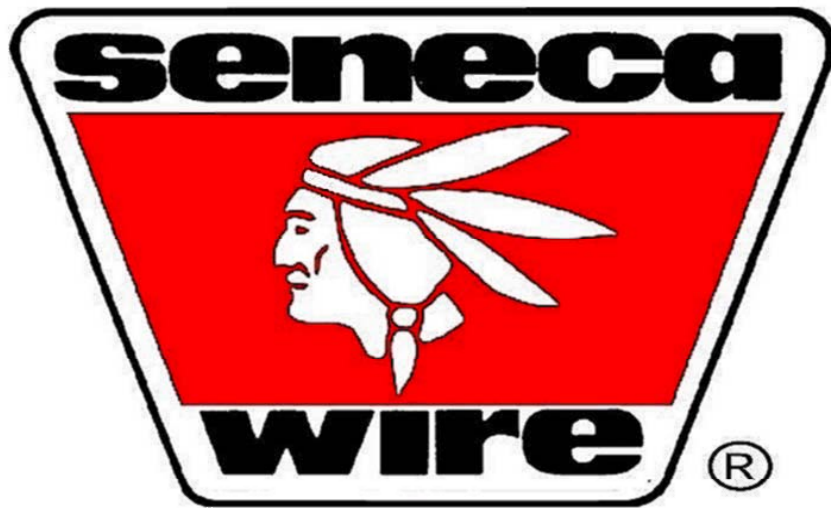
Designed for applications requiring static or low fatigue (ASTM A229) or moderate fatigue (ASTM A1000) or high fatigue (ASTM A230), **except** engineered to tensile strengths up to 35 KSI above High Carbon Oil Tempered wires produced to these ASTM specifications.

SSW® Chrome Silicon Wire

Designed for applications requiring static or low fatigue (ASTM A401) or moderate fatigue (ASTM A1000) or high fatigue (ASTM A877), **except** engineered to tensile strengths up to 35 KSI above Chrome Silicon wires produced to these ASTM standards.

Induction Tempered --- Oil Tempered --- Annealed --- Specialty Hard Drawn
Music Wire --- Chrome Silicon --- Chrome Vanadium
Round Wire --- Rolled & Die Drawn Flat & Shaped Wire

THE SENECA WIRE AND MANUFACTURING COMPANY - FOSTORIA, OHIO
Phone (419) 435 - 9261 / Fax (419) 435-9265 / www.senecawire.com



Tempered Wire

Induction Tempered

Oil Tempered

Tempered Wire

The
Quality
Chief



Since 1905 !

Die Drawn - Rounds & Shapes

Rolled - Flats & Shapes

Seneca has the greatest tempering capability in N. America. Our tempering process technology and know-how extends from conventional oil tempering to induction tempering. This process capability gives Seneca the most diversified range of Tempered Wire products in our industry.

As a result of years of product and process development, Seneca's tempered wire is produced to the least variation in physical properties. Seneca produces tempered wires for every performance level from low to moderate to high fatigue applications including low to medium temperature resistance or any combination.

In addition to producing Tempered Wires for traditional performance levels and standards, Seneca has developed a second generation family of products called **Special Strength Wire SSW®**. **SSW® Tempered Wires** are designed to meet or exceed applicable ASTM standards with one exception, they are designed to a 30 - 40 KSI higher tensile strength. **SSW® Tempered Wires** provide solutions for spring designers in applications challenged by space, weight, load, and fatigue that were not possible before!

Quality System: QS 9000 registered.

Coating: Rust preventative for maximum shelf life.

Steel Grades: All carbon and carbon alloy grades available:
10XX, 15XX, 41XX, 43XX, 51XX, 61XX, 82XX, 92XX

Standards: ASTM A229, A401, A1000, A230, A877
Special Strength Wire SSW®, and Customer Specific

Induction Tempered --- Oil Tempered --- Annealed --- Specialty Hard Drawn
Music Wire --- Chrome Silicon --- Chrome Vanadium
Round Wire --- Rolled & Die Drawn Flat & Shaped Wire

Other
Seneca
Products

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Chrome Silicon Tempered Wire

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Die Drawn - Rounds & Shapes

Rolled - Flats & Shapes

Standards:

ASTM A401, ASTM A1000, QQW 428,
QQW 412, ASTM A877, SAE J157, MS 429,
AS 10, GM 186M, **Special Strength Wires SSW®**
and Customer Specific

Application:

Moderate temperature resistance at low (static)
moderate, or high fatigue based on the standard
selected above to meet the performance of your
particular spring application.

Quality System: QS 9000 registered.

Formability:

Whatever combination of grade and specification,
Seneca's Alloy Tempered wire is produced to
the least variation in size, strength, & ductility
within a coil and coil to coil. Our proprietary
process results in an optimum surface to
maximize formability, and spring performance.

Steel Grades: 9254, customer specific

Induction Tempered --- Oil Tempered --- Annealed --- Specialty Hard Drawn
Music Wire --- Chrome Silicon --- Chrome Vanadium
Round Wire --- Rolled & Die Drawn Flat & Shaped Wire

Other
Seneca
Products

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Chrome Silicon Tempered Wire



Chrome Silicon Alloy

Diameter	
(in)	(mm)
0.041	1.04
0.048	1.22
0.054	1.37
0.060	1.52
0.062	1.57
0.072	1.83
0.080	2.03
0.092	2.34
0.106	2.69
0.120	3.05
0.128	3.25
0.135	3.43
0.148	3.76
0.156	3.96
0.162	4.11
0.177	4.50
0.192	4.88
0.200	5.08
0.207	5.26
0.219	5.56
0.225	5.72
0.244	6.20
0.250	6.35
0.312	7.92
0.375	9.53
0.438	11.13
0.500	12.70
0.562	14.27
0.625	15.88
0.687	17.45

ASTM A401		ASTM A1000		ASTM A877		SSW®	
Low Fatigue & Moderate Temperature Applications		Moderate Fatigue & Moderate Temperature Applications		High Fatigue & Moderate Temperature Applications		High Tensile <u>Special Strength Wire</u> ®	
(KSI)		(KSI)		(KSI)		(KSI)	
Min	Max	Min	Max	Min	Max	Min	Max
298	323	300	325	300	325	326	351
293	318	298	323	298	323	324	349
292	317	297	322	297	322	323	348
291	316	295	320	295	320	321	346
290	315	294	319	294	319	320	345
287	312	292	312	292	317	313	338
285	310	290	310	290	315	311	336
280	305	287	307	286	311	308	333
278	303	284	304	284	309	305	330
275	300	280	300	280	305	301	326
272	297	279	299	279	304	300	325
270	295	278	298	277	302	299	324
268	293	276	296	275	300	297	322
266	291	275	295	272	297	296	321
265	290	274	294	269	294	295	320
260	285	265	285	265	290	286	311
260	283	264	284	264	289	285	310
258	282	263	283	263	288	284	309
257	281	262	282	262	287	283	308
255	278	260	280	261	286	281	306
253	277	259	279	260	285	280	305
251	276	256	276	256	281	277	302
250	275	255	275	255	280	276	301
245	270	250	270	250	275	271	296
240	265	245	265	245	270	270	295
235	260	240	260	x	x	269	294
230	255	235	255	x	x	268	293
228	253	233	253	x	x	267	292
226	251	231	251	x	x	266	291
224	249	x	x	x	x	265	275

Chrome Silicon Tempered Wire



Chrome Silicon Alloy

	ASTM A401		ASTM A1000		ASTM A877	
	Low Fatigue & Moderate Temperature Applications		Moderate Fatigue & Moderate Temperature Applications		High Fatigue & Moderate Temperature Applications	
Max Size Variation & Out-of-Round (in)	.041 -.075	0.0010	.041 -.075	0.0008	.041 -.075	0.0008
	.076 -.438	0.0020	.076 -.148	0.0010	.076 -.148	0.0010
	> .438	0.0030	.149 -.375	0.0015	.149 -.375	0.0015
			> .375	0.0020	> .375	na
Max Total Decarb %	0.75% dia		0.30% dia		Zero @ 100x	
Max Partial Decarb (in)	2.0% dia		1.5% dia		< .192 = .0010"	
					> .192 = .0015"	
Max Surface Defect (in)	smaller of .010" or 3.5% dia		1.0% dia		1.0% dia	
Max Tensile Variation per coil	na		10 KSI		na	
Min Red of Area (%)	< .092 = na		< .105 = na		na	
	.092 -.120 = 45		.106 -.120 = 45			
	.121 -.375 = 40		.156 -.375 = 40			
	.376 -.500 = 35		.376 -.500 = 35			
	.501 -.687 = 30		.501 -.625 = 30			
Wrap Test	.162 & below = 1X		.156 & below = 1X		.162 & below = 1X	
	.163 -.312 = 2X		.157 -.312 = 2X		.163 -.312 = 2X	
	.313 & higher = na		.313 & higher = na		.313 & higher = na	
Twist Test	na		na		na	

High Carbon Tempered Wire

The
Quality
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Since 1905 !

Die Drawn - Rounds & Shapes

Rolled - Flats & Shapes

Standards:

ASTM A229 Class I, II, GM 61M, SAE J316,
ASTM A1000, ASTM A230, Crimping Quality,
Cold Rolling Quality, Customer Specific,
Special Strength Wire SSW®

Applications:

Static / Low fatigue to high fatigue depending on
standard selected above.

**Quality
System:**

QS 9000 registered.

Formability:

Whatever combination of grade and specification,
Seneca's Tempered wire is produced to the
least variation in size, strength, & ductility within
a coil and coil to coil. Our proprietary process
results in an optimum surface to maximize
formability, tool life and fatigue life required for
precision springs and wire forms.

Steel Grades:

All hi-carbon grades; 10XX, 15XX , and many
Customer Specific grades

Induction Tempered --- Oil Tempered --- Annealed --- Specialty Hard Drawn
Music Wire --- Chrome Silicon --- Chrome Vanadium
Round Wire --- Rolled & Die Drawn Flat & Shaped Wire

Other
Seneca
Products

THE SENECA WIRE AND MANUFACTURING COMPANY - FOSTORIA, OHIO
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High Carbon Tempered Wire



Carbon Steel

Diameter (in) (mm)		ASTM A229				ASTM A1000		ASTM A230		SSW®	
		Static or Low Fatigue Applications				Moderate Fatigue Applications		High Fatigue Applications		High Tensile Special Strength Wire®	
		Class I		Class II							
		(KSI)		(KSI)		(KSI)		(KSI)		(KSI)	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
0.041	1.04	266	296	297	327	270	295	245	265	300	325
0.048	1.22	259	289	290	320	267	292	245	265	297	322
0.054	1.37	253	283	284	314	266	291	245	265	296	321
0.060	1.52	248	278	279	309	265	290	245	265	295	320
0.062	1.57	247	277	278	308	264	289	240	260	294	319
0.072	1.83	241	271	272	302	262	287	240	260	292	317
0.080	2.03	235	265	266	296	260	285	240	260	290	315
0.092	2.34	230	260	261	291	257	282	240	260	287	312
0.106	2.69	225	255	256	286	255	275	235	255	285	305
0.120	3.05	220	250	251	281	250	270	235	255	280	300
0.128	3.25	217	247	248	278	247	267	235	255	277	297
0.135	3.43	215	240	241	266	245	265	230	250	275	295
0.148	3.76	210	235	236	261	241	261	230	250	271	291
0.156	3.96	207	232	233	258	240	260	230	250	270	290
0.162	4.11	205	230	231	256	239	259	230	250	269	289
0.177	4.50	200	225	226	251	235	255	224	245	265	285
0.192	4.88	195	220	221	246	232	252	220	240	262	282
0.200	5.08	192	217	218	243	231	251	220	240	261	281
0.207	5.26	190	215	216	241	228	248	220	240	258	278
0.219	5.56	189	214	215	240	225	245	220	240	255	275
0.225	5.72	188	213	214	239	221	241	220	240	251	271
0.244	6.20	187	212	213	238	219	239	215	235	249	269
0.250	6.35	185	210	211	236	215	235	215	235	245	265
0.312	7.92	183	208	209	234	210	230	210	230	240	260
0.375	9.53	180	205	206	231	205	225	210	230	235	255
0.438	11.13	175	200	201	226	202	222	210	230	232	252
0.500	12.70	170	195	196	221	200	220	210	230	230	250
0.562	14.27	165	190	191	216	197	217	x	x	227	247
0.625	15.88	165	190	191	216	195	215	x	x	225	245

High Carbon Tempered Wire



Carbon Steel

	ASTM A229		ASTM A1000		ASTM A230	
	Static or Low Fatigue Applications		Moderate Fatigue Applications		High Fatigue Applications	
Max Size Variation & Out-of-Round (in)	.020 - .028	0.0008	.020 - .075	0.0008	< .062	0.0005
	.029 - .075	0.0010	.076 - .148	0.0010	.062 - .092	0.0008
	.076 - .375	0.0020	.149 - .375	0.0015	.093 - .148	0.0010
	> .375	0.0030	> .375	0.0020	.149 - .177	0.0015
				> .177	0.0020	
Max Total Decarb %	0.75% dia		0.30% dia		Zero @ 100x	
Max Partial Decarb (in)	smaller of 2% dia or .006		1.5% dia		< .192 = .0010"	
					> .192 = .0015"	
Max Surface Defect (in)	smaller of .010" or 3.5% dia		1.0% dia		1.0% dia	
Max Tensile Variation per coil	na		10 KSI		na	
Min Red of Area (%)	na		< .105 = na		< .092 = na	
			.106 - .120 = 45			
			.156 - .375 = 40			
			.376 - .500 = 35			
			.501 - .625 = 30			
Wrap Test	.162 & below = 1X		.156 & below = 1X		.162 & below = 1X	
	.163 - .312 = 2X		.157 - .312 = 2X		.163 & higher = 2X	
	.313 & higher = na		.313 & higher = na			
Twist Test	na		na		4/4 flat break	

Round Tempered Wire Packaging

The
Quality
Chief



Since 1905 !

Die Drawn - Rounds & Shapes

Rolled - Flats & Shapes

Size	Package - Continuous Coils*					Shipping			
(in)	Type	ID (in)	OD (in)	Width (in)	Wt (lbs max)	PKG	Base (in)	Height (in)	Arbor (in)
.041 - .156	Reeless Cores	25.0	44.0	16.0	2500	2 per carrier	45.0	44.0	21.0
.072 - .162	30" Coils	25.0	35.0	7.0	500	4 per carrier	45.0	44.0	31.0
.105 - .250	36" Traverse Wound	36.0	56.0	14.0	4400	1 per carrier	53.0	36.0	32.0
.218 - .250	42" Traverse Wound	42.0	62.0	14.0	4400	1 per carrier	66.0	28.0	36.0
.125 - .206	48" Coils	43.0	56.0	11.5	1600	4 per carrier	56.0	39.0	38.0
.156 - .499	58" Coils	52.0	64.0	13.0	2200	2 per carrier	64.0	34.0	50.0
.343 - .625	60" Coils	60.0	82.0	12.5	4400	1 per carrier	84.0	24.0	57.0
.362 - .687	70" Traverse Wound	70.0	86.0	12.5	4400	1 per carrier	88.0	24.0	67.0

**Straight & Cut lengths available upon request*

Induction Tempered --- Oil Tempered --- Annealed --- Specialty Hard Drawn
Music Wire --- Chrome Silicon --- Chrome Vanadium



THE SENECA WIRE AND MANUFACTURING COMPANY - FOSTORIA, OHIO

Phone (419) 435 - 9261 / Fax (419) 435-9265 / www.senecawire.com

Flat & Shaped Tempered Wire

The
Quality
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Since 1905 !

Die Drawn - Shapes and Profiles

Rolled - Flat and Shapes

Specification:	Flat and shaped wires are typically produced to customer specifications. Seneca's extensive forming and heat treating capabilities allow us to produce a broad range of cold formed or heat treated flat and shaped wires. Seneca has developed Special Strength Wire SSW® having a 30 KSI higher tensile strength above conventional wires. Using SSW® Flat & Shaped Wire , it is now possible to design springs with higher loads and higher fatigue, in less space, than ever before.		
Quality System:	QS 9000 registered.		
Steel Grades:	All carbon, and alloy grades available including customer specific.		
Shapes:	<u>Flat Wire</u> Round and Square Edge Thickness:.018-.350" (4.75 - 8.9mm) Width: .080 - 1.000" (2.03 - 25.4 mm)	<u>Squares</u> .050 - .500" (1.27 - 2.7mm)	<u>Shapes</u> Various Trapezoidal and Hexagonal Shapes and other profiles, please inquire
Tolerance:	Thickness:.0005-.0020" (0.127 - .050mm) Width: .0020 - .0050" (0.050 - .127mm)	.0005 - .0020" Corner Radius Subject to Inquiry, close tolerance available	Dimensional tolerance and corner radius subject to inquiry, close tolerance available
Forming:	Die Drawing, Rolling or Combination		
Heat Treatment:	Annealed, Annealed in Process, Oil Tempered, Induction Tempered		

Induction Tempered --- Oil Tempered --- Annealed --- Specialty Hard Drawn
Music Wire --- Chrome Silicon --- Chrome Vanadium
Round Wire --- Rolled & Die Drawn Flat & Shaped Wire

Other
Seneca
Products

THE SENECA WIRE AND MANUFACTURING COMPANY - FOSTORIA, OHIO
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Flat & Shaped Tempered Wire Packaging

The
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Since 1905 !

Die Drawn - Shapes and Profiles

Rolled - Flat and Shapes

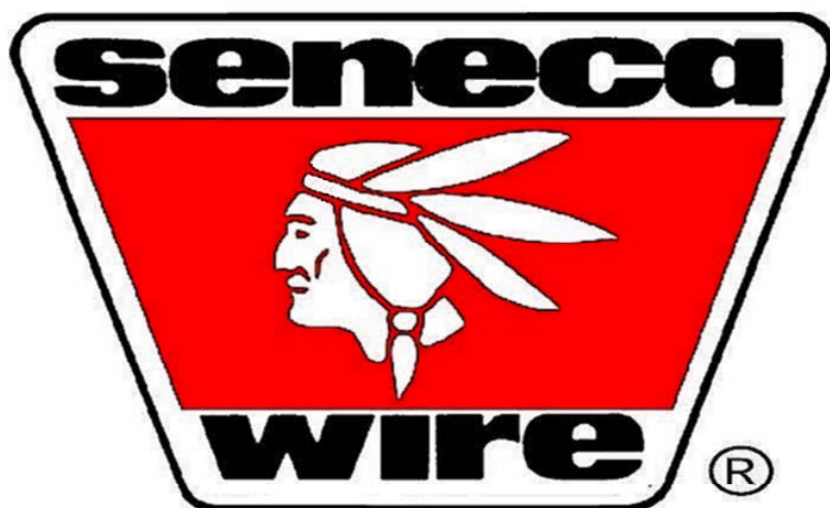
Package - Continuous Coils *					Shipping			
Type	ID (in)	OD (in)	Width (in)	Wt (lbs max)	PKG	Base (in)	Height (in)	Arbor (in)
16" Reeless Cores	16	32	10	1000	3 per carrier	36	44	13
25" Reeless Cores	25	52	16	2000	2 per carrier	45	44	21
36" Traverse Wound	36	56	14	4400	1 per carrier	58	36	32
42" Traverse Wound	42	54	14	4400	1 per carrier	56	28	36
60" Coils	60	82	12.5	4400	1 per carrier	84	24	57
70" Traverse Wound	70	86	12.5	4400	1 per carrier	88	24	67

** Straight & Cut lengths available per request*

Induction Tempered --- Oil Tempered --- Annealed --- Specialty Hard Drawn
Music Wire --- Chrome Silicon --- Chrome Vanadium
Round Wire --- Rolled & Die Drawn Flat & Shaped Wire

Other
Seneca
Products

THE SENECA WIRE AND MANUFACTURING COMPANY - FOSTORIA, OHIO
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Drawn Spring Steel Wire

Hard Drawn Spring Wire

Music Spring Wire

Drawn Wires

The
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Since 1905 !

Die Drawn - Rounds & Shapes

Rolled - Flats & Shapes

Standards: **Music Wire** - ASTM A228, AMS 5112, DIN 17233D,
Hard Drawn Wire - ASTM (A227, A407, A417, A679)
All - **Special Strength Wire SSW®**, Customer Specific

Quality System: QS 9000 registered.

Application: For Springs and Wire Forms not requiring high stress and high fatigue properties choose **Hard Drawn** wires.
For springs and requiring high stress and / or good fatigue properties, **Music Wire** is your choice.

Seneca's **Music Wire** is manufactured from high quality wire rods ordered and produced to our internal specification. Seneca's **Music Wire** is produced to specific internal process standards designed to achieve the maximum formability and consistency. Our proprietary drawing practices are combined with consistent and repeatable work methods that result in a wire with the least variation in properties, suitable for the most demanding applications.

Seneca's **Special Strength Wire SSW®** provides solutions for your space challenged designs; available in both Hard Drawn and Music Wires.

Call on Seneca's technical department to develop a wire specifically designed to excel in your most demanding applications:

Reduced tolerance: size, out-of-round, tensile

High torsional properties

Special Straightness - as requested

Dust free wire for improved housekeeping and work environment!

Induction Tempered --- Oil Tempered --- Annealed --- Specialty Hard Drawn
Music Wire --- Chrome Silicon --- Chrome Vanadium
Round Wire --- Rolled & Die Drawn Flat & Shaped Wire

Other
Seneca
Products

THE SENECA WIRE AND MANUFACTURING COMPANY - FOSTORIA, OHIO
Phone (419) 435 - 9261 / Fax (419) 435-9265 / www.senecawire.com

Music Wire



Diameter	
(in)	(mm)
0.054	1.38
0.062	1.58
0.072	1.84
0.080	2.04
0.092	2.35
0.106	2.70
0.120	3.06
0.135	3.44
0.148	3.77
0.162	4.13
0.177	4.51
0.192	4.90
0.207	5.28
0.225	5.74
0.250	6.38
0.312	7.96
0.375	9.56
0.438	11.17
0.500	12.75
0.562	14.33
0.625	15.94

Music						SSW®	
ASTM A228		AMS 5112		DIN 17233D		High Tensile	
Springs Requiring High Stress Good Fatigue Properties		Springs Requiring High Stress Good Fatigue Properties		Springs for High Static & Medium to High Dynamic Stresses		Springs Requiring High Strength High Stress Good Fatigue Properties	
(KSI)		(KSI)		(KSI)		(KSI)	
Min	Max	Min	Max	Min	Max	Min	Max
x	x	x	x	x	x	331	361
293	324	293	324	299	332	329	362
287	317	287	317	292	323	322	353
282	312	282	312	286	317	316	347
275	304	275	304	279	310	309	340
268	296	268	296	272	302	302	332
263	290	263	290	266	295	296	325
258	285	258	285	259	288	289	318
253	279	253	279	254	283	284	313
249	275	249	275	249	277	279	307
245	270	245	270	245	272	275	302
241	267	241	267	241	269	x	x
238	264	238	264	238	264	x	x
235	260	234	259	233	259	x	x
x	x	x	x	230	255	x	x
x	x	x	x	x	x	x	x
x	x	x	x	x	x	x	x
x	x	x	x	x	x	x	x
x	x	x	x	x	x	x	x
x	x	x	x	x	x	x	x
x	x	x	x	x	x	x	x
x	x	x	x	x	x	x	x
x	x	x	x	x	x	x	x
x	x	x	x	x	x	x	x

Hard Drawn Wire



Hard Drawn

SSW®

ASTM A227

ASTM A679

High Tensile

Springs not subject to high stress and not requiring high fatigue properties

Springs Subject to High Static and Infrequent Dynamic Load

Springs Subject to High Static and Infrequent Dynamic Load

Class I

Class II

Class III

Diameter

(KSI)

(KSI)

(KSI)

(KSI)

(in) (mm)

Min Max

Min Max

Min Max

Min Max

0.062 1.58

237 272

273 308

293 324

323 354

0.072 1.84

232 266

267 301

287 317

317 347

0.080 2.04

227 261

262 296

282 312

312 342

0.092 2.35

220 253

254 287

275 304

305 334

0.106 2.70

216 248

249 281

268 296

298 326

0.120 3.06

210 241

242 273

263 290

293 320

0.135 3.44

206 237

238 269

258 285

288 315

0.148 3.77

203 234

235 266

253 279

283 309

0.162 4.13

200 230

231 261

249 275

279 305

0.177 4.51

195 225

226 256

245 270

275 300

0.192 4.90

192 221

222 251

241 267

271 297

0.207 5.28

190 218

219 243

238 264

268 294

0.225 5.74

186 214

215 243

x x

263 289

0.250 6.38

182 210

211 239

x x

259 286

0.312 7.96

174 200

210 227

x x

x x

0.375 9.56

167 193

194 220

x x

x x

0.438 11.17

165 190

191 216

x x

x x

0.500 12.75

156 180

181 205

x x

x x

0.562 14.33

152 176

177 201

x x

x x

0.625 15.94

147 170

171 194

x x

x x

Drawn Wire Packaging

The
Quality
Chief



Since 1905 !

Die Drawn - Rounds & Shapes

Rolled - Flats & Shapes

Standard Drawn Wire Packaging *

Size (in)	Package Continuous Coils **					Shipping			
	Type	ID (in)	OD (in)	Width (in)	Wt (lbs)	PKG	Base (in)	Height (in)	Arbor (in)
.054 - .092	Steel Reels	14	26	16	1100	Steel Reel on Skid	45	na	n/a
.054 - .092	Reeless Cores	14	25	12	1100	2 Cores per skid or carrier	45	44	21
.091 - .250	Coil on Carrier	26	40	na	2500	Carrier	38	48	20

** Inquire for non-standard packaging*

*** Straight & Cut lengths available per request*



Induction Tempered --- Oil Tempered --- Annealed --- Specialty Hard Drawn
Music Wire --- Chrome Silicon --- Chrome Vanadium
Round Wire --- Rolled & Die Drawn Flat & Shaped Wire

THE SENECA WIRE AND MANUFACTURING COMPANY - FOSTORIA, OHIO
Phone (419) 435 - 9261 / Fax (419) 435-9265 / www.senecawire.com

Straight & Cut to Length

The
Quality
Chief



Since 1905 !

- Tolerance:** Standard Length tolerances plus or minus 1/8 of an inch. Special tolerances are available upon request.
- Package:** Product can be supplied in bundles, boxed bundles and palletized, depending on length.
- Quality System:** QS 9000 registered.
- Capability:** Seneca provides straight & cut to length wire to compliment our full range of wire production.

Wire Diameter				Lengths (ft)		Wire Grades Available					
						Drawn Wires			Tempered Wires		
(in)	(mm)	Min	Max	HD Class I	HD Class II	Music	OTMB Class I	OTMB Class II	CrSi		
0.080	0.162	2.03	4.11	3.0	16.0	Yes	Yes	Yes	Yes	Yes	
0.163	0.185	4.14	4.70	1.5	8.0	Yes	Yes	Yes	Yes	Yes	
0.186	0.316	4.72	8.03	1.5	20.0	Yes	Yes	Yes	Yes	Yes	
0.316	0.550	8.03	13.97	3.0	20.0	Yes	Yes	Yes	Yes	Yes	

For Diameters greater than .550" please inquire.



Induction Heat Treated --- Oil Tempered ---- Annealed --- Specialty Hard Drawn
Music Wire --- Chrome Silicon --- Chrome Vanadium
Round Wire --- Rolled & Die Drawn Flat & Shaped Wire

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