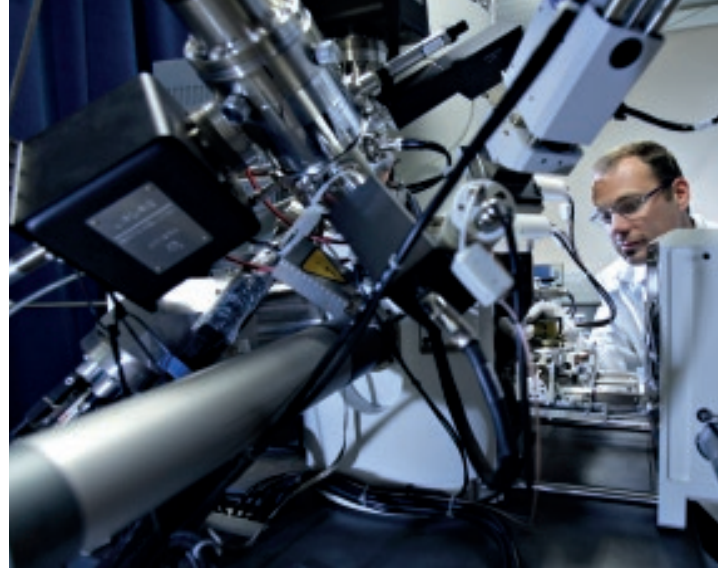


YOUR VITAL PARTNER FOR LIFE-CHANGING SOLUTIONS

EXERA™ FINE MEDICAL WIRE AND WIRE BASED COMPONENTS FOR MEDICAL APPLICATIONS





DESIGNING MEDICAL DEVICES? LET US INSPIRE YOU

At Sandvik we develop, manufacture and refine precision medical wire under the brand name EXERA™. We also develop the wire-based components you need, based on decades of expertise and fresh, innovative minds. We undertake the research and development of new and existing materials and offer a high level of competence spanning the entire value chain.

A DOSE OF INSPIRATION FROM A CREATIVE PARTNER

Take advantage of our creativity and let us become an integral part of your research and development process. We can help you conceive and implement innovative solutions that make a drastic difference to the lives of those who utilize your devices.

Naturally you want the best possible materials and at Sandvik quality is paramount. We leverage time-tested procedures to maintain the highest standards for our EXERA™ fine medical wire products. We also understand the importance of agility in our design process as we continually implement lean initiatives to increase quality and decrease variability.

As your partner in the design process, we strive to integrate operations and maintain responsive and comprehensive interaction with you. Together, we can design a process and product that cannot be found anywhere else in the world. Let us inspire your product innovation.

FROM MELTING POT TO MEDICAL



As one of the world's leading metal producers and metallurgy pioneers we have strict control over our supply chain. This also means that advances and adaptations occur fast here. In other words, at Sandvik, innovation literally begins from the ground up.

DIAMOND PRECISION



EXERA™ ultra high quality wires are a result of quality diamond dies. Our in-house die craftsmen and women utilize a combined experience of over 100 years to put the precise art of die making at your service. It's this type of painstaking attention to detail that makes Sandvik unique.

COMPLETE SERVICE PROVIDER



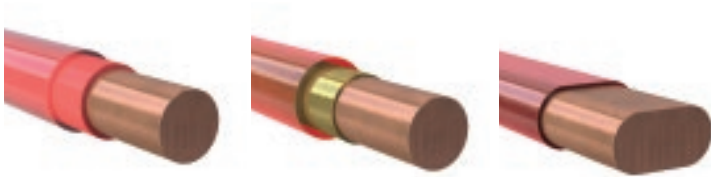
We seek to provide value at every step of the medical device design and manufacturing process. From precision tolerance coating, to multi-filar micro cables, we strive to provide you with not only a supplier, but a business partner.



EXERA™ CUSTOM WIRE SOLUTIONS FOR UNIQUE APPLICATIONS

SINGLE WIRE CONFIGURATIONS

All alloys can be provided in single strand form, with or without coating, and plated with custom thicknesses of gold or nickel.



Multilayer including Bond Coating

Electroplated and Polymer Finish

Coated Ribbon Wire



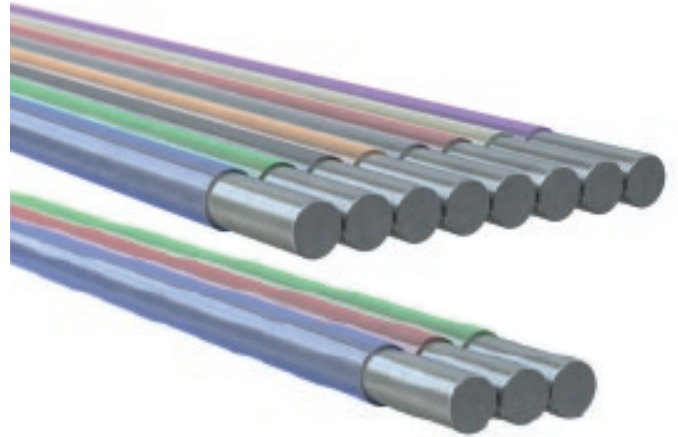
Multilayer including Bond Coating Round, flat, square wire configurations.



Pure PTFE Coating

MULTI-FILAR ARRANGEMENTS

Single strand wire configurations can also be formed into multi-filar or microcable arrangements.



Multi-Filar Configurations

CABLE CONFIGURATIONS

Single strand and multi-filar cables can then be manipulated into different cable configurations. Coatings, such as PTFE or polymer can be applied to any cable arrangement.



Stranded Coated Wire



Stranded Coated Wire With Overcoat Finish



Stranded Bare Wire



Coated Finished Cable



Twisted Multi-Filar Cables

VALUE ADDED OPERATIONS

Value added coiling operations such as lead finishing, where wire is stripped and formed, are important components of our service portfolio.



Multi-Filar Coils



Single Strand Coils



PTFE Coils



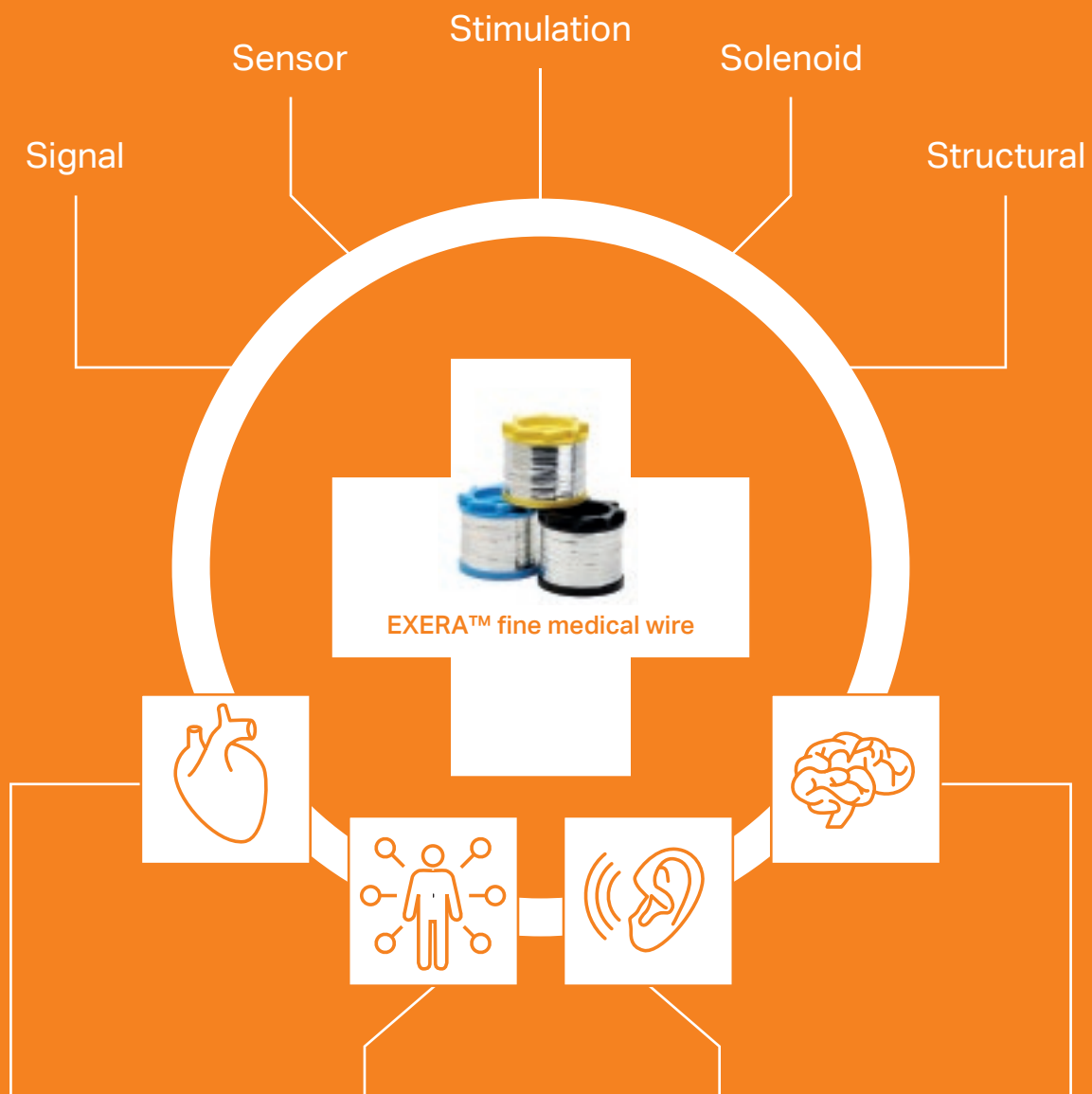
Free-Standing Coils

Depictions show only our most popular offerings. Please visit our website or talk to a representative for more information.

WHERE MATERIALS CAN IMPROVE THE QUALITY OF LIFE

We currently partner with many large and small OEM's and universities to design and develop the products of the future, taking advantage of the unique properties of our EXERA™ fine medical wire. As a starting point for your concept development, here are some key areas where we already provide value.

Vision – Applications / Ideas / Concepts



VASCULAR THERAPY

Wire for heart solutions, including guide wires, catheter applications and pacing leads.

SENSING SOLUTIONS

Solutions for information gathering, including pressure, glucose and thermal.

COCHLEAR REMEDIATION

Solutions for middle ear implants for sensorineural hearing loss.

STIMULATION THERAPY

Wire for deep brain, spine, and other stimulation applications.

AMPLIFYING YOUR POSSIBILITIES

As your development and business partner we will have a vested interest in the success of your process and products. This is why we strive to offer a uniquely diverse portfolio of manufacturing capabilities. We invite you to collaborate directly with our engineers and manipulate and modify our capabilities to exceed your needs.

WIRE REFINEMENT



REDUCTION
Drawing



ALLOY COMPOSITION
Uniform and Cored



FORMING
Round and Rectangular



SIZE AND TOLERANCE
Size: 0.0004" to 0.032" / 0.01 mm to 0.82 mm
Tolerance up to: 0.000025 in / 0.000635 mm

SURFACE TREATMENT



WIRE COATING
Standard and Custom



REEL TO REEL PLATING
Nickel and Gold



ANODIZING
Aluminum

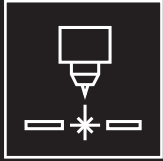


ELECTROPOLISHING
Premium Surface Finishes

VALUE ADDED OPERATIONS



SPECIAL HANDLING
Clean Room Processing



CUT TO LENGTH
Single Strand and Cable



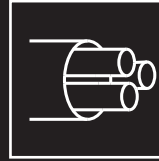
COILING
Freestanding and Spring



PACKAGING
Spools and Bobbins



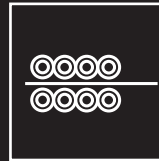
MECHANICAL ASSEMBLY
Single Strand and Cable



LEAD FINISHING
Stripping and Forming

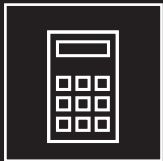


TWISTING AND STRANDING
Custom Cable Solutions



STRAIGHTENING
Mechanical or Thermal Treatment

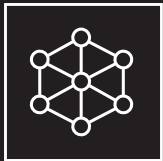
OPERATIONAL SERVICES



RESEARCH AND DEVELOPMENT
Custom Process/
Product Development



INVENTORY MANAGEMENT
Safety Stock Programs



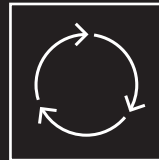
METALLURGY CONSULTING
Materials Selection Assistance



NEW PROCEDURE DEVELOPMENT
Spools and Bobbins



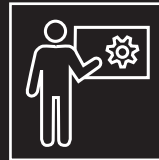
LAB TESTING
Unique Procedural Competance



LEAN PROCESS OPTIMIZATION
Kanban Applications

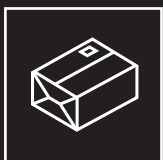


RAPID PROTOTYPING
Custom Cable Solutions



TECHINCAL TRAINING
Mechanical or Thermal Treatment

SAMPLES



SAMPLE PACKAGE
Round and Rectangular



DEVELOPER KIT
Round and Rectangular

ESSENTIAL RESOURCES FOR TODAY'S MEDICAL SOLUTIONS

PRIMARY ALLOYS

MEDICAL GRADE/STAINLESS STEELS

MP35N™
MP35N™ Composite Wire
304V
316LV
Sandvik 11R51 / 11R51HV (EN 1.431)
Sandvik 12R10 / 12R10HV (EN 1.431)
Sandvik 1RK91 (ASTM A693, F899)

PRECIOUS METALS

Gold
Silver
Platinum
Platinum Iridium
Platinum Tungsten
Gold Plated Copper
Platinum Clad Tantalum

SENSOR ALLOYS

Constantan
Copper

KANTHAL® RESISTANCE ALLOYS

Nikrothal® 80	80%Ni/20%Cr
Nikrothal® 60	60%Ni/16%/balance iron
Nikrothal® 40	35%Ni/20%/2% silicone balance iron
Nikrothal® LX	20%Cr/75%Ni
Kanthal® A-1	22%Cr/5,8%Al/balance iron
Kanthal® AE	22%Cr/5,3%Al/balance iron
Kanthal® AF	22%Cr/5,3%Al/balance iron
Kanthal® D	22%Cr/4,8%Al/balance iron
Alkrothal™	15%Cr/4,3%Al/balance iron
Cuprothal® 49	44%Ni balance copper
Cuprothal® 30	23%Ni balance copper
Cuprothal® 15	11%Ni balance copper
Cuprothal® 10	6%Ni balance copper
Cuprothal® 5	2.2%Ni balance copper
Nifethal™ 70	30%Ni/balance iron
Nifethal™ 36	36%Ni/balance iron

COATING MATERIALS

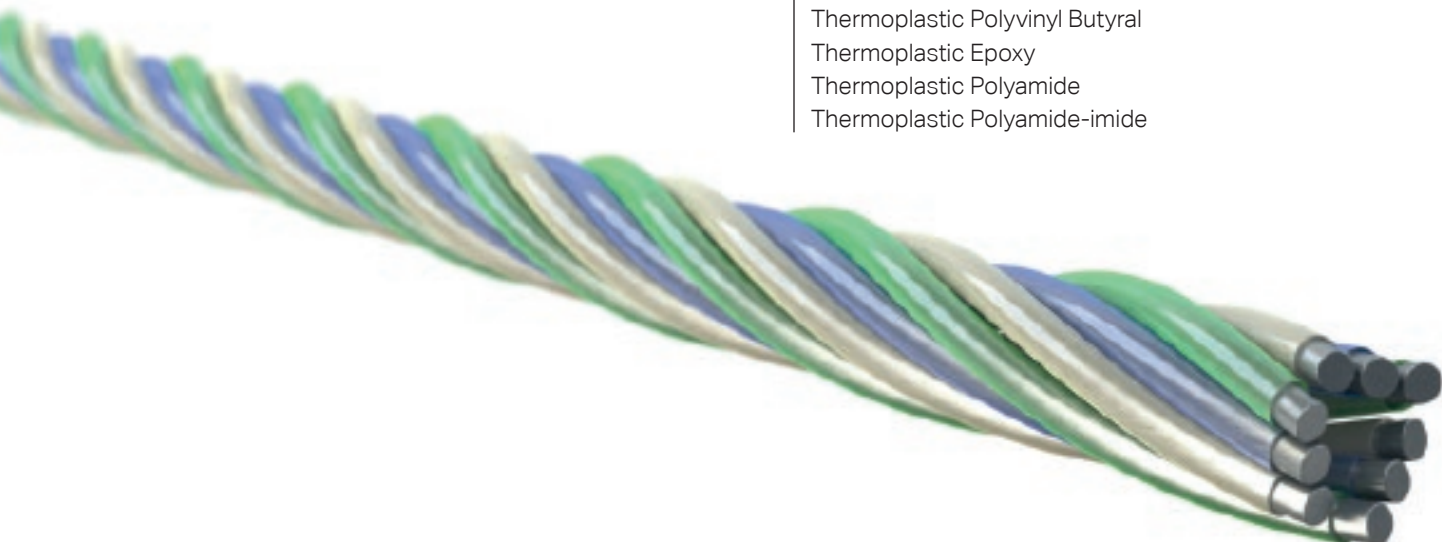
COATINGS FOR USE AS PERMANENT AND TEMPORARY IMPLANT

Polyurethanes
Polyesterimide
PTFE
Polyester-imides
FEP
Nylon (top coat)
Aminide
Polyesters
Polyimide
LARC SI Polyimide

THERMAL BONDCOATS

THERMOPLASTIC COATINGS FOR BONDING WIRES TOGETHER AS MULTI-FILAR OR FREE STANDING COILS

Thermoplastic Polyvinyl Butyral
Thermoplastic Epoxy
Thermoplastic Polyamide
Thermoplastic Polyamide-imide





NEMA MW 1000: DIMENSIONAL STANDARDS

INSULATED ROUND MAGNET WIRE

AWG	BARE WIRE DIAMETER (INCHES)			SINGLE BUILD INSULATION			HEAVY BUILD INSULATION			TRIPLE BUILD INSULATION		
	Minimum	Nominal	Maximum	Min. Increase in Diameter	Nominal Thickness	Maximum Thickness	Min. Increase in Diameter	Nominal Thickness	Maximum Thickness	Min. Increase in Diameter	Nominal Thickness	Maximum Thickness
21	0.0282	0.0285	0.0288	0.0011	0.0298	0.0303	0.0022	0.0309	0.0314	0.0033	0.0321	0.0326
22	0.0250	0.0253	0.0256	0.0011	0.0266	0.0270	0.0021	0.0276	0.0281	0.0032	0.0288	0.0293
23	0.0224	0.0226	0.0228	0.0010	0.0239	0.0243	0.0020	0.0249	0.0253	0.0030	0.0259	0.0264
24	0.0199	0.0201	0.0203	0.0010	0.0213	0.0217	0.0019	0.0223	0.0227	0.0029	0.0233	0.0238
25	0.0177	0.0179	0.0181	0.0009	0.0190	0.0194	0.0018	0.0199	0.0203	0.0027	0.0209	0.0214
26	0.0157	0.0159	0.0161	0.0009	0.0170	0.0173	0.0017	0.0178	0.0182	0.0026	0.0188	0.0193
27	0.0141	0.0142	0.0143	0.0008	0.0153	0.0156	0.0016	0.0161	0.0164	0.0024	0.0169	0.0173
28	0.0125	0.0126	0.0127	0.0008	0.0137	0.0140	0.0016	0.0144	0.0147	0.0023	0.0152	0.0156
29	0.0112	0.0113	0.0114	0.0007	0.0123	0.0126	0.0015	0.0130	0.0133	0.0022	0.0138	0.0142
30	0.0099	0.0100	0.0101	0.0007	0.0109	0.0112	0.0014	0.0116	0.0119	0.0021	0.0124	0.0128
31	0.0088	0.0089	0.0090	0.0006	0.0097	0.0100	0.0013	0.0105	0.0108	0.0017	0.0110	0.0114
32	0.0079	0.0080	0.0081	0.0006	0.0088	0.0091	0.0012	0.0095	0.0098	0.0016	0.0099	0.0103
33	0.0070	0.0071	0.0072	0.0005	0.0078	0.0081	0.0011	0.0085	0.0088	0.0014	0.0088	0.0092
34	0.0062	0.0063	0.0064	0.0005	0.0070	0.0072	0.0010	0.0075	0.0078	0.0013	0.0079	0.0082
35	0.0055	0.0056	0.0057	0.0004	0.0062	0.0064	0.0009	0.0067	0.0070	0.0012	0.0071	0.0074
36	0.0049	0.0050	0.0051	0.0004	0.0056	0.0058	0.0008	0.0060	0.0063	0.0011	0.0064	0.0067
37	0.0044	0.0045	0.0046	0.0003	0.0050	0.0052	0.0008	0.0055	0.0057	0.0010	0.0057	0.0060
38	0.0039	0.0040	0.0041	0.0003	0.0045	0.0047	0.0007	0.0049	0.0051	0.0009	0.0051	0.0054
39	0.0034	0.0035	0.0036	0.0002	0.0039	0.0041	0.0006	0.0043	0.0045	0.0008	0.0045	0.0048
40	0.0030	0.0031	0.0032	0.0002	0.0035	0.0037	0.0006	0.0038	0.0040	0.0008	0.0041	0.0043
41	0.0027	0.0028	0.0029	0.0002	0.0031	0.0033	0.0005	0.0034	0.0036	0.0007	0.0037	0.0039
42	0.0024	0.0025	0.0026	0.0002	0.0028	0.0030	0.0004	0.0030	0.0032	0.0007	0.0033	0.0035
43	0.0021	0.0022	0.0023	0.0002	0.0025	0.0026	0.0004	0.0027	0.0029	0.0006	0.0030	0.0032
44	0.0019	0.0020	0.0021	0.0001	0.0022	0.0024	0.0004	0.0025	0.0027	0.0006	0.0027	0.0029
45	0.00169	0.00176	0.0018	0.00010	0.0019	0.00205	0.00030	0.00215	0.00230			
46	0.00151	0.00157	0.0016	0.00010	0.0017	0.00185	0.00030	0.00196	0.00210			
47	0.00135	0.00140	0.0015	0.00010	0.0016	0.00170	0.00030	0.00178	0.00190			
48	0.00119	0.00124	0.0013	0.00010	0.0014	0.00150	0.00020	0.00155	0.00170			
49	0.00107	0.00111	0.0012	0.00010	0.0012	0.00130	0.00020	0.00139	0.00150			
50	0.00095	0.00099	0.00103	0.00010	0.0011	0.00120	0.00020	0.00128	0.00140			
51	0.00085	0.00088	0.00092	0.00010	0.0010	0.00110	0.00020	0.00117	0.00129			
52	0.00075	0.00078	0.00081	0.00010	0.0009	0.00100	0.00020	0.00105	0.00115			
53	0.00067	0.00070	0.00073	0.00005	0.0008	0.00085	0.00013	0.00092	0.00103			
54	0.00060	0.00062	0.00065	0.00005	0.0007	0.00075	0.00013	0.00084	0.00095			
55	0.00053	0.00055	0.00057	0.00005	0.0006	0.00070	0.00013	0.00077	0.00087			
56	0.00047	0.00049	0.00051	0.00005	0.0006	0.00065	0.00013	0.00071	0.00081			
57	0.00042	0.00044	0.00046	0.00004	0.0005	0.00056						
58	0.00038	0.00039	0.00041	0.00004	0.0005	0.00051						

Sizes finer than 44 AWG based on the theoretical resistance (10.371 Ohms-Circular Mil/foot) of a copper conductor.

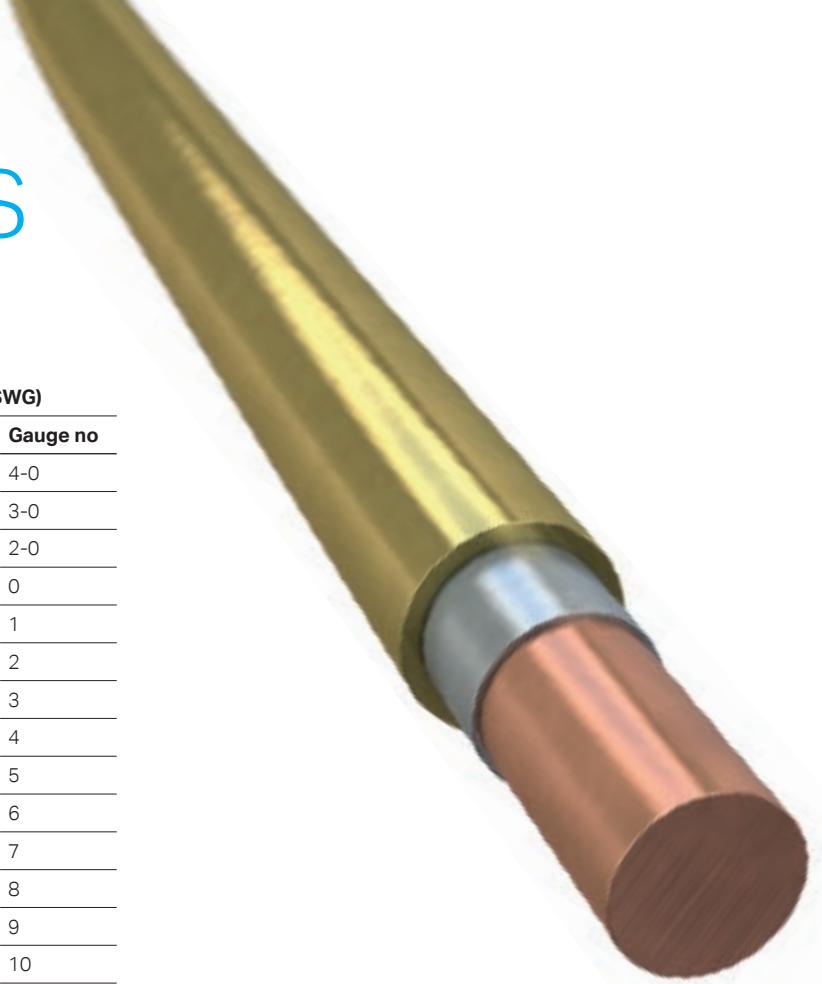
The nominal coated wire thickness is based on the average of the minimum coating thickness increase on a minimum bare wire diameter and the maximum coated wire thickness.

SINGLE BUILD SELF-BONDING WIRE

AWG	BARE WIRE NOMINAL DIAMETER		MAXIMUM INCREASE IN DIAMETER INSULATION		MINIMUM INCREASE IN DIAMETER THERMOPLASTIC		MAXIMUM OVERALL DIAMETER	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
21	0.02850	0.7240	0.0011	0.0280	0.00050	0.0130	0.03140	0.7980
22	0.02530	0.6430	0.0011	0.0280	0.00050	0.0130	0.02810	0.7140
23	0.02260	0.5740	0.0010	0.0250	0.00050	0.0130	0.02530	0.6430
24	0.02010	0.5110	0.0010	0.0250	0.00050	0.0130	0.02270	0.5770
25	0.01790	0.4550	0.0009	0.0230	0.00050	0.0130	0.02030	0.5160
26	0.01590	0.4040	0.0009	0.0230	0.00050	0.0130	0.01820	0.4620
27	0.01420	0.3610	0.0008	0.0200	0.00050	0.0130	0.01640	0.4170
28	0.01260	0.3200	0.0008	0.0200	0.00050	0.0130	0.01470	0.3730
29	0.01130	0.2870	0.0007	0.0180	0.00040	0.0100	0.01330	0.3380
30	0.01000	0.2540	0.0007	0.0180	0.00040	0.0100	0.01190	0.3020
31	0.00890	0.2260	0.0006	0.0150	0.00040	0.0100	0.01080	0.2740
32	0.00800	0.2030	0.0006	0.0150	0.00040	0.0100	0.00980	0.2490
33	0.00710	0.1800	0.0005	0.0130	0.00040	0.0100	0.00880	0.2240
34	0.00630	0.1600	0.0005	0.0130	0.00030	0.0080	0.00780	0.1980
35	0.00560	0.1420	0.0004	0.0100	0.00030	0.0080	0.00700	0.1780
36	0.00500	0.1270	0.0004	0.0100	0.00030	0.0080	0.00630	0.1600
37	0.00450	0.1140	0.0003	0.0080	0.00030	0.0080	0.00570	0.1450
38	0.00400	0.1020	0.0003	0.0080	0.00020	0.0050	0.00510	0.1300
39	0.00350	0.0890	0.0002	0.0050	0.00020	0.0050	0.00450	0.1140
40	0.00310	0.0790	0.0002	0.0050	0.00020	0.0050	0.00400	0.1020
41	0.00280	0.0710	0.0002	0.0050	0.00020	0.0050	0.00360	0.0910
42	0.00250	0.0640	0.0002	0.0050	0.00020	0.0050	0.00320	0.0810
43	0.00220	0.0560	0.0002	0.0050	0.00010	0.0025	0.00290	0.0740
44	0.00200	0.0510	0.0001	0.0025	0.00010	0.0025	0.00270	0.0690
45	0.00176	0.0447	0.0001	0.0025	0.00010	0.0025	0.00230	0.0584
46	0.00157	0.0399	0.0001	0.0025	0.00010	0.0025	0.00210	0.0533
47	0.00140	0.0356	0.0001	0.0025	0.00010	0.0025	0.00190	0.0483
48	0.00124	0.0315	0.0001	0.0025	0.00010	0.0025	0.00170	0.0432
49	0.00111	0.0282	0.0001	0.0025	0.00010	0.0025	0.00150	0.0381
50	0.00099	0.0251	0.0001	0.0025	0.00010	0.0025	0.00140	0.0356
51	0.00088	0.0224	0.0001	0.0025	0.00010	0.0025	0.00130	0.0330
52	0.00078	0.0198	0.0001	0.0025	0.00005	0.0013	0.00115	0.0292
53	0.00070	0.0178	0.0001	0.0025	0.00005	0.0013	0.00107	0.0271
54	0.00060	0.0152	0.0001	0.0025	0.00005	0.0013	0.000995	0.0253
55	0.00050	0.0127	0.0001	0.0025	0.00005	0.0013	0.000985	0.0250
56	0.00040	0.0102	0.0001	0.0025	0.00005	0.0013	0.000975	0.0248

- Sizes finer than 44 AWG based on the theoretical resistance (10.371 Ohms-Circular Mil/foot) of a copper conductor.
- AWG sizes 53 to 56 are not standard NEMA dimensions.

WIRE GAUGES



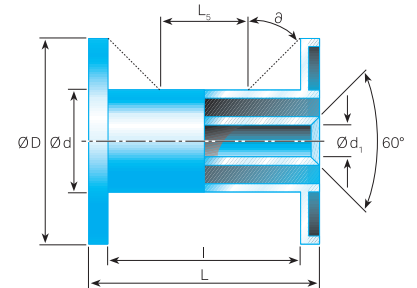
Wire Gauges (AWG or B&S)			Standard Wire Gauge (SWG)		
Gauge no	inch	mm	inch	mm	Gauge no
4-0	0.460	11.68	0.400	10.16	4-0
3-0	0.410	10.40	0.372	9.45	3-0
2-0	0.365	9.27	0.348	8.84	2-0
0	0.325	8.25	0.324	8.23	0
1	0.289	7.35	0.300	7.62	1
2	0.258	6.54	0.276	7.01	2
3	0.229	5.83	0.252	6.40	3
4	0.204	5.19	0.232	5.89	4
5	0.182	4.62	0.212	5.38	5
6	0.162	4.11	0.192	4.88	6
7	0.144	3.67	0.176	4.47	7
8	0.129	3.26	0.160	4.06	8
9	0.114	2.91	0.144	3.66	9
10	0.102	2.59	0.128	3.25	10
11	0.0907	2.30	0.116	2.95	11
12	0.0808	2.05	0.104	2.64	12
13	0.0720	1.83	0.0920	2.34	13
14	0.0641	1.63	0.0800	2.03	14
15	0.0571	1.45	0.0720	1.83	15
16	0.0508	1.29	0.0640	1.63	16
17	0.0453	1.15	0.0560	1.42	17
18	0.0403	1.02	0.0480	1.22	18
19	0.0359	0.912	0.0400	1.02	19
20	0.0320	0.812	0.0360	0.914	20
21	0.0285	0.723	0.0320	0.813	21
22	0.0254	0.644	0.0280	0.711	22
23	0.0226	0.573	0.0240	0.610	23
24	0.0201	0.511	0.0220	0.559	24
25	0.0179	0.455	0.0200	0.508	25
26	0.0159	0.405	0.0180	0.457	26
27	0.0142	0.361	0.0164	0.417	27
28	0.0126	0.321	0.0148	0.376	28
29	0.0113	0.286	0.0136	0.345	29
30	0.0100	0.255	0.0124	0.315	30
31	0.00893	0.227	0.0116	0.295	31
32	0.00795	0.202	0.0108	0.274	32
33	0.00708	0.180	0.0100	0.254	33
34	0.00631	0.160	0.00920	0.234	34
35	0.00562	0.143	0.00840	0.213	35
36	0.00500	0.127	0.00760	0.193	36
37	0.00445	0.113	0.00680	0.173	37
38	0.00397	0.101	0.00600	0.152	38

Wire Gauges (AWG or B&S)			Standard Wire Gauge (SWG)		
Gauge no	inch	mm	inch	mm	Gauge no
39	0.00353	0.0897	0.00520	0.132	39
40	0.00315	0.0799	0.00480	0.122	40
41	0.00280	0.0711	0.00440	0.112	41
42	0.00249	0.0633	0.00400	0.102	42
43	0.00222	0.0564	0.00360	0.0914	43
44	0.00198	0.0502	0.00320	0.0813	44
45	0.00176	0.0447	0.00280	0.0711	45
46	0.00157	0.0398	0.00240	0.0610	46
47	0.00140	0.0355	0.00200	0.0508	47
48	0.00124	0.0316	0.00160	0.0406	48
49	0.00111	0.0281	0.00120	0.0305	49
50	0.000986	0.0250	0.00100	0.0254	50
51	0.000800	0.0203	0.000878	0.0223	51
52	0.000600	0.0152	0.000782	0.0199	52
53	0.000500	0.0127	0.000697	0.0177	53
54	0.000400	0.0102	0.000620	0.0157	54
55	0.000300	0.00762	0.000552	0.0140	55
56			0.000492	0.0125	56
57			0.000438	0.0111	57
58			0.000390	0.00991	58
59			0.000347	0.00881	59
60			0.000309	0.00785	60

SPOOLS

AMERICAN STANDARD

SPOOL TYPE	D in	d in	d1 in	L in	l in	WIRE TYPE
2.125" Flange	2.125	1.375	5/8	1.375	1	0.0005 – 0.002
2.5" Flange	2.5	1.76	5/8	3.376	3	0.007 – 0.0031
3.15" Flange	3.15	1.97	5/8	3.15	2.52	0.002 – 0.0063
3.5" Flange	3.5	2.125	2.125	2.438	2.125	
5" Flange	5	3	5/8	4.11	3.5	0.0035 – 0.113
6" Flange	6	3.5	5/8	4.11	3.5	0.005 – 0.0253
PT 4 Tapered	5.5 & 4.875	4.375 & 3.875	1	7.875	6.688	0.003 – 0.008
PT10 Tapered	7.087 X 6.300	4.331 X 3.780	1	9	7.875	0.004 – 0.010
12" Reel	11.75	8	2	3.938	3.62	
Anodized Band Spool	2.24	1.98	1.93	1.1	1	Bonding wire



METRIC

SPOOL TYPE	D mm	d mm	d1 mm	L mm	l mm	WIRE SIZE, mm ø	NORMAL NET WEIGHT, kg
C 1/4	64	44	16	61	51	<0.030	0.05 – 0.25
C 1/2	64	44	16	86	76	0.030 – 0.099	0.5
B 1	75	40	16	120	100	0.1 – 0.199	1.0
B 2	90	40	16	120	100	0.20 – 0.25	2.0
B 4	120	50	16	120	100	0.26 – 0.50	4.0

STANDARD DIN SPOOLS

SPOOL TYPE	D mm	d mm	d1 mm	L mm	l mm	WIRE SIZE, mm ø	NORMAL NET WEIGHT, kg
DIN 50	50	32	11	50	38	0.015 – 0.04	0.10
DIN 63	63	40	11	63	49	0.015 – 0.04	0.20
DIN 80	80	50	16	80	64	0.05 – 0.099	0.75
DIN 100	100	63	16	100	80	0.10 – 0.50	1.5
DIN 125	125	80	16	125	100	0.15 – 0.80	3.0
DIN 160	160	100	22	160	128	0.25 – 0.71	5.0
DIN 200	200	125	36	200	160	0.4 – 0.81	10.0
DIN 250	250	160	36	200	160	0.4 – 1.5	20
DIN 355	355	225	36	200	162	1.0 – 3.0	40
SK 460	460	318	305	105	91	0.25 – 1.8	45

STEEGER BOBBINS

Sizes D / d x l

40 / 30 x 26 mm

40 / 16 x 26 mm

43 / 25 x 26 mm

Other spool options available





A HISTORY RICH IN METALLURGICAL INNOVATION

For over 150 years, Sandvik has maintained a world-leading position in materials engineering and manipulation. Our operations are based on unique expertise in molecular technology and extensive insight into industrial processes. We invest substantially in research and development and maintain close cooperation with our customers and suppliers. From our beginning as a pioneer in malleable steel with the perfecting of the Bessemer method, to our commitment to high value-added products in advanced steels and special alloys, we continue to set the industry standard.

ONE-STOP-SHOPPING FOR WORLD-CLASS QUALITY

In addition to offering your team a dose of inspiration, we have the capability to fulfill all your needs in terms of the highest quality fine medical wire. We have control of the entire value chain, from meltshop to end-product.

ALL YOU NEED FROM ONE PARTNER

Source all you need from one reliable supplier. It saves time and reduces costs. As an innovative niche producer of EXERA™ fine medical wire and wire based components for advanced medical applications, we offer a comprehensive program of the highest quality fine wire custommade to meet your design needs.

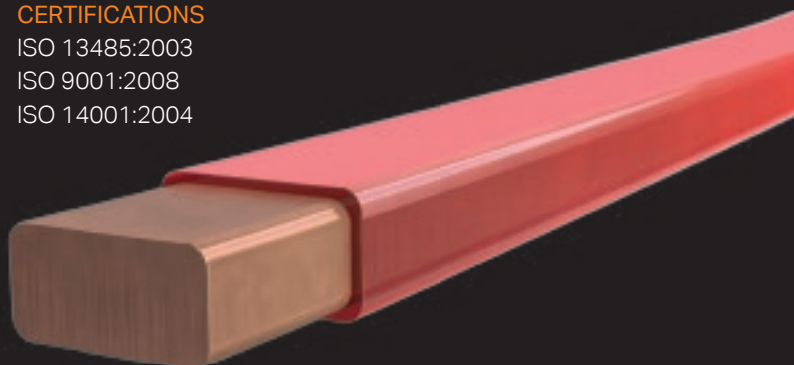
EXERA™ fine medical wire comes in different grades of stainless steel, precious metals and a range of other materials. The wire is available with a wide selection of coatings and surface treatments, such as anodizing and electroplating.

SANDVIK VALUE

- EXERA™ fine medical wire with highest precision and quality
- Friendly and responsive customer service
- Flexible lead times
- Highest quality medical coatings
- Partnering with world-class OEMs

CERTIFICATIONS

ISO 13485:2003
ISO 9001:2008
ISO 14001:2004



EIGHT GOOD REASONS TO CHOOSE SANDVIK

- 1 AN INNOVATIVE PARTNER**
It pays to choose a supplier with innovative thinking to be your joint research and development partner who also can play a vital role in your team.
- 2 MATERIAL SCIENCE EXPERTISE**
Let your projects benefit from our unmatched expertise in metallurgy and medical wire production. We have extensive research and development and materials capabilities and offer a comprehensive product portfolio.
- 3 A RESPONSIVE SUPPLIER**
Your business deserves a flexible partner who will adjust to your design and production schedules and provide excellent customer service with short lead times.
- 4 FINANCIALLY STRONG**
You can benefit from a financially strong single-source partner for medical wire and wire-based medical components who can help you achieve long-term sustainable growth.
- 5 STRICT QUALITY ASSURANCE**
There are major quality benefits for your business if, like us, your supplier has control of the entire value chain, from meltshop to end-product.
- 6 LEAN STATE OF MIND**
We are leading the way in process improvement and continually strive to increase quality, while decreasing waste and variability.
- 7 WITH US, SIZE DOES NOT MATTER**
Whatever the size of your order or organization, large or small, we want to work closely with you, from the development stage through to mass production.
- 8 VALUE ADDED CAPABILITIES**
We can also give you added value in the form of cut-to-length orders, twisted leads, micro cables, thermocouple sensors, coils, and more.

Over 150 years of experience at your service

With Sandvik you get the advantage of working with a small, agile, custom, precision wire manufacturer in the Palm Coast production unit, and the backing of the globally integrated and resource rich Sandvik Group.



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