

***ZEB Staples - T: 908-687-7200, F: 908-687-7201, sales@zebstaples.com***

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The Main **Catalog** Page is the primary product page.  
All others are support pages to help with definitions and abbreviations.  
[Click this link to go to the Catalog Page](#)

### **How to use the Catalog page:**

The Excel Autofilter is ON. That's what all of the grey boxes with the black down arrows are. This is under Data/Filter/Autofilter

### **Simple Filtering:**

Let's say you wanted only Products with Material Code S (stainless steel). See the Material Tab for other Material Codes.

Choose the filter for Matl column F. Click on the down arrow and select the "S".

Now only the products that we typically sell with that material code are shown. Notice that the Arrow is now **blue** indicating an active filter.

This does not mean that we do not make other products with the same material code, only that they are not typical.

To remove the Filter you must select the filter again and at the top select All.

Alternatively you could customize your toolbar to include the **Show All** command. Click on Tools/Customize. Make sure the Commands tab is selected, then click on Data at left. Left click on and drag the **Show All** icon to your toolbar and let go. Then close the dialog box. Now whenever you have any filter on, you don't need to look for the blue down arrows, just click on "Show All". Also, if you have multiple filters turned on, you don't need to remember which ones or look for the blue down arrows, since **Show All** will remove all filters.

### **Complex Filtering:**

You can set up multiple filters. For example: say you wanted to see which products we make in a 0.465 crown width ID but with leg lengths only 1/2" and longer.

First select the Crown Width ID of 0.465. Now you have all products with that dimension.

Next Select the "Leg , in." column (not the column with the fractions), and click on Custom. Then on the left select "is greater than or equal to" and on the right side either type in 0.5 or make the 0.5 selection. Typing is useful when you want to choose something not listed.

Now you have it narrowed down the way you wanted.  
Click on **Show All** to remove all filters with one click.

That's it! For feedback about this file, or to place an order, please contact us at:

***ZEB Staples, a division of ZEB Manufacturing, Inc.***

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## Columns

Here is a listing of each column on the Catalog Page and a brief meaning of the content. If there is a hyperlink you can go to that page for more detail. For your convenience, all but the main catalog have hyperlinks to return you back to this page or to the catalog.

B	<a href="#">Parent</a>	This is the OEM that our product is similar to.
C	Product	This is the main product series.
D	Prod, Sec	This is a product modifier, usually denoting leg length.
E	Prod, Tert	This is an additional product modifier used only when needed.
F	<a href="#">Point</a>	Denotes the point type.
G	<a href="#">Matl</a>	Denotes the Material used.
H	<a href="#">Finish</a>	Denotes the Finish used
I	<a href="#">Coating</a>	Denotes the coating used, if any.
J	<a href="#">Leg, Frac</a>	Shows the leg length as a fraction
K	<a href="#">Leg, in.</a>	Shows the leg length as a decimal
L	M/ Box	Indicates how many thousand staples are in a box.
M	Boxes/Case	Indicates how many boxes are in a case.
N	R - Retail Price, \$/box	ZEB's retail price per box.
O	Crown Width, in. ID	Mean staple ID
P	Approx Rolled thk, mils	Thickness of the staple through the crown or through the leg wall.
Q	Approx Rolled length, mils	Length of the staple in the direction of the strip length
R	Crown width, frac. OD	Mean staple OD
S	Approx weight, Lbs per box	
T	Weight per Case, lbs	
U	Hump Crown ?	A "Y" in this column indicates that the product is a hump crown.

Prices are all in US Dollars and current as of 3 June 08. Prices for alloys (Bronze, Monel, Stainless, Aluminum) must be confirmed at order due to excessive volatility.

Payment terms are established at the time of the first sale following credit approval (a credit application is on the Contact Us page), or prepaid via check, or via credit card from Google Checkout. See the Orders page on our web site for more details.

Shortages and concealed damage must be reported within two weeks after shipment.

Any returns must be approved and are subject to a 20% inspection and restocking charge.

Prices are FOB our dock in West Orange, NJ. We ship via UPS or motor freight, or your chosen carrier. The carrier is responsible for loss or damage, so an acceptance at the customer means that the goods were received in good order unless you note it on the freight bill with a clear description of the damage.

We will gladly quote on other special requests, such as alloys (Monel, bronze, stainless, etc.) or odd leg lengths. Special orders are not returnable.

We process paint staples upon request. This means we paint the staples as they are being made, which results in a much better coating. Add \$0.60 per thousand staples to arrive at the painted staple price. There is a 40 box minimum order for painted staples. Since this is a special order, these are not returnable.

We will replace product or issue a product credit on any merchandise found to be defective.

	OLEM	Product	prods ec	prodert	Point	Matl	Fin	Coat	Leg. Frac	Leg. in.	M/Bx	Bx /Cs	Retail Price	Crown Width, in. ID	Rolled thk, mils	calc length result, mils	Crown width, frac. OD	weight Lbs wire /box	Weight/c ase, lbs	Hump Y
	AC	L38			N	C	E	X	3/8	0.375	5	50	\$ 5.92	0.47	18	16.3	1/2	0.505	27	
	AM	AMW-1/2X050			C	H	E	X	1/2	0.5	5	20	\$ 19.98	0.506	25	50.3	17/32	2.678	56	
	AM	AMW-1/2X075			C	H	E	X	1/2	0.5	5	20	\$ 26.26	0.506	25	75.3	17/32	3.822	78	
	AM	AMW-3/8X050			C	H	E	X	3/8	0.375	5	20	\$ 18.74	0.506	25	50.3	17/32	2.233	47	
	AM	AMW-3/8X075			C	H	E	X	3/8	0.375	5	20	\$ 23.92	0.506	25	75.3	17/32	3.188	66	
	AR	JT21			D	C	E	X	1/4	0.25	1	90	\$ 2.42	0.41	20	26.5	7/16	0.137	14	
	AR	JT21			D	C	E	X	5/16	0.3125	1	90	\$ 2.48	0.41	20	26.5	7/16	0.156	16	
	AR	P22			B	C	E	X	1/4	0.25	5	100	\$ 6.04	0.43	18	20.2	7/16	0.478	50	
	AR	P22			C	C	E	X	5/16	0.3125	5	100	\$ 6.18	0.43	18	20.2	7/16	0.542	56	
	AR	P35			C	C	E	X	1/4	0.25	5	20	\$ 11.46	0.439	19	45.0	15/32	1.136	25	
	AR	P35			C	C	E	X	3/8	0.375	5	20	\$ 12.58	0.439	19	45.0	15/32	1.439	31	
	AR	T32			D	C	E	X	3/16	0.1875	5	40	\$ 9.62	0.43	20	26.5	15/32	0.605	26	
	AR	T32			D	C	E	X	1/4	0.25	5	40	\$ 9.86	0.43	20	26.5	15/32	0.699	30	
	AR	T32			D	C	E	X	5/16	0.3125	5	40	\$ 10.12	0.43	20	26.5	15/32	0.793	34	
	AR	T32			D	C	E	X	3/8	0.375	5	25	\$ 10.48	0.43	20	26.5	15/32	0.886	24	
	AR	T50			C	H	E	X	1/4	0.25	5	20	\$ 12.08	0.38	23	44.3	13/32	1.267	27	
	AR	T50			C	X	E	X	1/4	0.25	5	20	\$ 12.58	0.38	23	44.3	13/32	1.267	27	
	AR	T50			D	H	E	X	1/4	0.25	5	20	\$ 12.58	0.38	23	44.3	13/32	1.267	27	
	AR	T50			D	X	E	X	1/4	0.25	5	20	\$ 13.08	0.38	23	44.3	13/32	1.267	27	
	AR	T50			C	H	E	X	5/16	0.3125	5	20	\$ 12.82	0.38	22	46.3	13/32	1.447	31	
	AR	T50			C	X	E	X	5/16	0.3125	5	20	\$ 13.32	0.38	22	46.3	13/32	1.447	31	
	AR	T50			D	H	E	X	5/16	0.3125	5	20	\$ 13.32	0.38	22	46.3	13/32	1.447	31	
	AR	T50			D	X	E	X	5/16	0.3125	5	20	\$ 13.80	0.38	22	46.3	13/32	1.447	31	
	AR	T50			C	H	E	X	3/8	0.375	5	20	\$ 13.32	0.38	23	44.3	13/32	1.627	35	
	AR	T50			C	X	E	X	3/8	0.375	5	20	\$ 13.94	0.38	23	44.3	13/32	1.627	35	
	AR	T50			C	X	E	X	1/2	0.5	5	20	\$ 15.28	0.38	23	44.3	13/32	1.988	42	
	AR	T50			D	H	E	X	3/8	0.375	5	20	\$ 13.68	0.38	23	44.3	13/32	1.627	35	
	AR	T50			D	X	E	X	3/8	0.375	5	20	\$ 14.30	0.38	23	44.3	13/32	1.627	35	
	AR	T50			D	B	X	X	3/8	0.375	5	20	\$ 59.08	0.38	23	44.3	13/32	1.627	35	
	AR	T50			C	H	E	X	1/2	0.5	5	20	\$ 14.68	0.38	23	44.3	13/32	1.988	42	
	AR	T50			D	H	E	X	1/2	0.5	5	20	\$ 15.16	0.38	23	44.3	13/32	1.988	42	
	AR	T50			D	X	E	X	1/2	0.5	5	20	\$ 15.78	0.38	23	44.3	13/32	1.988	42	
	AR	T50			C	H	E	X	9/16	0.5625	5	20	\$ 15.28	0.38	23	44.3	13/32	2.168	45	
	AR	T50			C	X	E	X	9/16	0.5625	5	20	\$ 16.02	0.38	23	44.3	13/32	2.168	45	
	AR	T50			D	H	E	X	9/16	0.5625	5	20	\$ 16.02	0.38	23	44.3	13/32	2.168	45	
	AR	T50			D	X	E	X	9/16	0.5625	5	20	\$ 16.64	0.38	23	44.3	13/32	2.168	45	
	BA	H30			C	C	E	X	1/4	0.25	5	40	\$ 9.26	0.439	20	26.5	15/32	0.705	30	
	BA	H30			D	C	E	X	1/4	0.25	5	40	\$ 9.38	0.439	20	26.5	15/32	0.705	30	
	BA	H30			C	C	E	X	5/16	0.3125	5	40	\$ 9.62	0.439	20	26.5	15/32	0.799	34	
	BA	H30			C	C	E	X	3/8	0.375	5	40	\$ 9.86	0.439	20	26.5	15/32	0.893	38	
	BA	H30			D	C	E	X	3/8	0.375	5	40	\$ 10.00	0.439	20	26.5	15/32	0.893	38	
	BA	H30			C	C	E	X	1/2	0.5	5	20	\$ 10.48	0.439	20	26.5	15/32	1.081	24	
	BA	H30			D	C	E	X	1/2	0.5	5	20	\$ 10.86	0.439	20	26.5	15/32	1.081	24	
	BA	H50			C	H	E	X	3/8	0.375	5	20	\$ 12.58	0.439	20	50.9	15/32	1.712	36	
	BA	H50			C	H	E	X	1/2	0.5	5	20	\$ 13.94	0.439	20	50.9	15/32	2.072	43	
	BA	H50			C	H	E	X	9/16	0.5625	5	20	\$ 14.54	0.439	20	50.9	15/32	2.253	47	
	BA	L19			N	C	E	X	1/4	0.25	5	100	\$ 7.58	0.445	18	16.3	15/32	0.391	41	
	BA	L19			N	C	E	X	3/8	0.375	5	50	\$ 8.02	0.445	18	16.3	15/32	0.495	27	
	BA	L19			N	C	E	X	1/2	0.5	5	50	\$ 8.38	0.445	18	16.3	15/32	0.598	32	
	BO	SB103X020			C	C	E	X	3/8	0.375	2.5	20	\$ 14.54	0.465	20	100.3	1/2	1.686	36	
	BO	SB103X020			C	C	E	X	1/2	0.5	2.5	15	\$ 16.02	0.465	20	100.3	1/2	2.033	33	
	BO	SB103X020			C	C	E	X	9/16	0.5625	2.5	15	\$ 16.76	0.465	20	100.3	1/2	2.207	35	
	BO	SB103X020			C	C	E	X	5/8	0.625	2.5	15	\$ 17.50	0.465	20	100.3	1/2	2.380	38	
	BO	SB3020			C	C	E	X	3/8	0.375	5	20	\$ 10.12	0.465	20	26.5	1/2	0.913	20	
	BO	SB5019			C	H	E	X	1/4	0.25	5	20	\$ 12.08	0.465	22	46.3	1/2	1.390	30	
	BO	SB5019			C	H	E	X	3/8	0.375	5	20	\$ 13.44	0.465	21	48.5	1/2	1.750	37	
	BO	SB5019			C	H	E	X	1/2	0.5	5	15	\$ 14.54	0.465	21	48.5	1/2	2.110	34	
	BO	SB5019			C	H	E	X	9/16	0.5625	5	15	\$ 15.28	0.465	21	48.5	1/2	2.290	36	
	BO	SB5019			C	H	E	X	5/8	0.625	5	15	\$ 16.02	0.465	21	48.5	1/2	2.470	39	
	BO	SB7050			D	H	E	T	3/4	0.75	1	20	\$ 11.84	0.465	50	67.5	9/16	1.789	38	
	BO	SBNK4023			C	H	L	X	1/4	0.25	5	20	\$ 14.80	0.433	22	38.9	15/32	1.129	25	

	OEM	Product	prods ec	prodert	Point	Matl	Fin	Coat	Leg. Frac	Leg. in.	M/Bx	Bx /Cs	Retail Price	Crown Width, in. ID	Rolled thk, mils	calc length result, mils	Crown width, frac. OD	weight Lbs wire /box	Weight/c ase, lbs	Hump Y
	BO	SCCR103X020			C	C	E	X	1/4	0.25	2.5	20	\$ 14.80	0.488	20	100.3	1/2	1.371	29	Y
	BO	SCCR103X020			C	C	E	X	3/8	0.375	2.5	20	\$ 14.80	0.488	20	100.3	1/2	1.718	36	Y
	BO	SCCR103X020			C	C	E	X	1/2	0.5	2.5	15	\$ 16.52	0.488	20	100.3	1/2	2.065	33	Y
	BO	SCCR103X020			C	C	E	X	9/16	0.5625	2.5	15	\$ 17.26	0.488	20	100.3	1/2	2.239	36	Y
	BO	SCCR25			C	H	E	X	1/4	0.25	5	30	\$ 12.34	0.488	22	24.1	17/32	0.742	24	Y
	BO	SCCR25			C	H	E	X	3/8	0.375	5	20	\$ 13.44	0.488	22	24.1	17/32	0.930	21	Y
	BO	SCCR25			C	C	E	X	1/2	0.5	5	20	\$ 17.26	0.488	22	24.1	17/32	1.118	24	Y
	BO	SCCR25			C	C	E	X	9/16	0.5625	5	20	\$ 20.96	0.488	22	24.1	17/32	1.212	26	Y
	BO	SCCR5019			C	H	E	X	3/16	0.1875	5	20	\$ 16.02	0.488	20	50.9	1/2	1.243	27	Y
	BO	SCCR5019			C	H	E	X	1/4	0.25	5	20	\$ 16.64	0.488	20	50.9	1/2	1.423	30	Y
	BO	SCCR5019			C	H	E	X	3/8	0.375	5	20	\$ 18.00	0.488	20	50.9	1/2	1.783	38	Y
	BO	SCCR5019			C	H	E	X	1/2	0.5	5	20	\$ 19.24	0.488	20	50.9	1/2	2.143	45	Y
	BO	SCCR5019			C	H	E	X	9/16	0.5625	5	15	\$ 19.98	0.488	20	50.9	1/2	2.323	37	Y
	BO	SCCR5025			C	H	E	X	1/4	0.25	5	20	\$ 17.50	0.488	25	50.3	17/32	1.757	37	Y
	BO	SCCR5025			C	H	E	X	3/8	0.375	5	20	\$ 18.98	0.488	25	50.3	17/32	2.201	46	Y
	BO	SCCR5025			C	H	E	X	1/2	0.5	5	20	\$ 20.46	0.488	25	50.3	17/32	2.646	55	Y
	BO	SCCR5025			C	H	E	X	9/16	0.5625	5	20	\$ 21.32	0.488	25	50.3	17/32	2.868	59	Y
	BO	SH5019			C	H	E	X	1/4	0.25	5	20	\$ 15.78	0.417	20	50.9	7/16	1.321	28	
	BO	SH5019			C	H	E	X	3/8	0.375	5	20	\$ 17.02	0.417	20	50.9	7/16	1.681	36	
	BO	SH5019			C	H	E	X	1/2	0.5	5	20	\$ 18.36	0.417	20	50.9	7/16	2.041	43	
	BO	SHCR103X020			C	H	E	X	3/8	0.375	2.5	20	\$ 16.02	0.362	20	100.3	3/8	1.543	33	Y
	BO	SHCR5019			C	H	E	X	1/4	0.25	5	20	\$ 11.96	0.362	20	50.9	3/8	1.241	27	Y
	BO	SHCR5019			C	X	E	X	1/4	0.25	5	20	\$ 12.46	0.362	20	50.9	3/8	1.241	27	Y
	BO	SHCR5019			D	H	E	X	1/4	0.25	5	20	\$ 12.46	0.362	20	50.9	3/8	1.241	27	Y
	BO	SHCR5019			D	X	E	X	1/4	0.25	5	20	\$ 12.82	0.362	20	50.9	3/8	1.241	27	Y
	BO	SHCR5019			C	H	E	X	3/8	0.375	5	20	\$ 13.32	0.362	20	50.9	3/8	1.602	34	Y
	BO	SHCR5019			C	X	E	X	3/8	0.375	5	20	\$ 14.06	0.362	20	50.9	3/8	1.602	34	Y
	BO	SHCR5019			D	H	E	X	3/8	0.375	5	20	\$ 14.06	0.362	20	50.9	3/8	1.602	34	Y
	BO	SHCR5019			D	X	E	X	3/8	0.375	5	20	\$ 14.54	0.362	20	50.9	3/8	1.602	34	Y
	BO	SK19			C	C	E	X	1/4	0.25	10	100	\$ 22.32	0.198	18	16.3	7/32	0.578	60	
	BO	SK5019	-SPEC		C	C	E	X	19/64	0.295	10	25	\$ 34.16	0.198	20	50.9	7/32	2.270	59	
	BO	SK5019			C	B	X	X	3/16	0.1875	5	35	\$ 71.08	0.198	20	50.9	7/32	0.825	31	
	BO	SK5019			C	H	E	X	3/16	0.1875	5	25	\$ 14.68	0.198	20	50.9	7/32	0.825	23	
	BO	SK5019			C	H	E	X	1/4	0.25	5	25	\$ 14.68	0.198	20	50.9	7/32	1.005	27	
	BO	SK5019			C	H	E	X	5/16	0.3125	5	25	\$ 15.28	0.198	20	50.9	7/32	1.185	32	
	BO	SK5019			C	H	E	X	3/8	0.375	5	25	\$ 15.90	0.198	20	50.9	7/32	1.365	36	
	BO	SK5019			C	H	E	X	1/2	0.5	5	25	\$ 17.26	0.198	20	50.9	7/32	1.725	45	
	BO	SP19			C	A	X	X	1/4	0.25	5	100	\$ 19.32	0.333	18	16.3	11/32	0.345	36	
	BO	SP19			C	C	E	X	1/4	0.25	5	100	\$ 10.36	0.333	18	16.3	11/32	0.345	36	
	BO	SP19			C	M	X	X	1/4	0.25	5	100	\$ 83.50	0.333	18	16.3	11/32	0.345	36	
	BO	SP2619			C	C	E	X	1/4	0.25	5	50	\$ 11.96	0.333	19	22.8	11/32	0.511	28	
	BO	SPN5019			C	H	E	X	1/4	0.25	5	25	\$ 15.90	0.333	20	50.9	11/32	1.200	32	
	BO	SPN5019			C	H	E	X	3/8	0.375	5	20	\$ 17.14	0.333	20	50.9	11/32	1.560	33	
	BO	SPN5019			C	H	E	X	1/2	0.5	5	20	\$ 18.50	0.333	20	50.9	11/32	1.920	40	
	BO	SPS25			C	C	E	X	3/16	0.1875	5	50	\$ 9.26	0.333	23	23.1	3/8	0.532	29	
	BO	SPS25			C	C	E	X	1/4	0.25	5	50	\$ 9.62	0.333	23	23.1	3/8	0.626	33	
	BO	SPS25			C	X	E	X	1/4	0.25	5	50	\$ 9.86	0.333	23	23.1	3/8	0.626	33	
	BO	SPS25			D	C	E	X	1/4	0.25	5	50	\$ 9.86	0.333	23	23.1	3/8	0.626	33	
	BO	SPS25			D	X	E	X	1/4	0.25	5	50	\$ 10.12	0.333	23	23.1	3/8	0.626	33	
	BO	SPS25			C	C	E	X	5/16	0.3125	5	50	\$ 9.86	0.333	23	23.1	3/8	0.720	38	
	BO	SPS25			C	X	E	X	5/16	0.3125	5	50	\$ 10.12	0.333	23	23.1	3/8	0.720	38	
	BO	SPS25			D	C	E	X	5/16	0.3125	5	50	\$ 10.12	0.333	23	23.1	3/8	0.720	38	
	BO	SPS25			D	X	E	X	5/16	0.3125	5	50	\$ 10.60	0.333	23	23.1	3/8	0.720	38	
	BO	STCR2619			C	C	E	X	1/4	0.25	5	20	\$ 9.86	0.417	20	21.7	7/16	0.563	13	Y
	BO	STCR2619			D	C	E	X	1/4	0.25	5	20	\$ 10.36	0.417	20	21.7	7/16	0.563	13	Y
	BO	STCR2619			C	C	E	X	5/16	0.3125	5	30	\$ 10.12	0.417	20	21.7	7/16	0.639	21	Y
	BO	STCR2619			C	C	E	X	3/8	0.375	5	30	\$ 10.48	0.417	20	21.7	7/16	0.716	23	Y
	BO	STCR2619			D	C	E	X	3/8	0.375	5	30	\$ 10.86	0.417	20	21.7	7/16	0.716	23	Y
	BO	STCR2619			C	C	E	X	1/2	0.5	5	20	\$ 11.10	0.417	20	21.7	7/16	0.870	19	Y
	BO	STCR2619			D	C	E	X	1/2	0.5	5	20	\$ 11.34	0.417	20	21.7	7/16	0.870	19	Y
	BO	STCR5019			C	H	E	X	1/4	0.25	5	20	\$ 12.20	0.417	20	50.9	7/16	1.321	28	Y

	OEM	Product	prods ec	prod ert	P-oint	Matl	Fin	Coat	Leg. Frac	Leg. in.	M/ Bx	Bx /Cs	Retail Price	Crown Width, in. ID	Rolled thk, mils	calc length result, mils	Crown width, frac. OD	weight Lbs wire /box	Weight/c ase, lbs	Hump Y
	BO	STCR5019			C	X	E	X	1/4	0.25	5	20	\$ 12.82	0.417	20	50.9	7/16	1.321	28	Y
	BO	STCR5019			D	H	E	X	1/4	0.25	5	20	\$ 12.82	0.417	20	50.9	7/16	1.321	28	Y
	BO	STCR5019			D	X	E	X	1/4	0.25	5	20	\$ 13.32	0.417	20	50.9	7/16	1.321	28	Y
	BO	STCR5019			C	H	E	X	5/16	0.3125	5	20	\$ 12.94	0.417	20	50.9	7/16	1.501	32	Y
	BO	STCR5019			C	H	E	X	3/8	0.375	5	20	\$ 13.56	0.417	20	50.9	7/16	1.681	36	Y
	BO	STCR5019			C	X	E	X	3/8	0.375	5	20	\$ 14.30	0.417	20	50.9	7/16	1.681	36	Y
	BO	STCR5019			D	H	E	X	3/8	0.375	5	20	\$ 14.30	0.417	20	50.9	7/16	1.681	36	Y
	BO	STCR5019			C	H	E	X	1/2	0.5	5	20	\$ 14.80	0.417	20	50.9	7/16	2.041	43	Y
	BO	STCR5019			C	X	E	X	1/2	0.5	5	20	\$ 15.90	0.417	20	50.9	7/16	2.041	43	Y
	BO	STCR5019			D	H	E	X	1/2	0.5	5	20	\$ 15.90	0.417	20	50.9	7/16	2.041	43	Y
	BO	STCR5019			D	X	E	X	1/2	0.5	5	20	\$ 16.52	0.417	20	50.9	7/16	2.041	43	Y
	BO	STCR5019			C	H	E	X	9/16	0.5625	5	20	\$ 15.54	0.417	20	50.9	7/16	2.221	46	Y
	BO	STCR5019			C	M	X	X	9/16	0.5625	5	20	\$ 292.56	0.417	20	50.9	7/16	2.221	46	Y
	BO	STCR5019			C	X	E	X	9/16	0.5625	5	20	\$ 16.64	0.417	20	50.9	7/16	2.221	46	Y
	BO	STCR5019			D	H	E	X	9/16	0.5625	5	20	\$ 16.64	0.417	20	50.9	7/16	2.221	46	Y
	BO	STCR5019			D	X	E	X	9/16	0.5625	5	20	\$ 17.14	0.417	20	50.9	7/16	2.221	46	Y
	BO	STH19			C	C	E	X	1/4	0.25	10	20	\$ 15.24	0.417	18	16.3	7/16	0.759	17	Y
	BO	STH19			C	C	E	X	3/8	0.375	10	20	\$ 15.98	0.417	18	16.3	7/16	0.966	21	Y
	BO	STH2619			C	C	E	X	1/4	0.25	5	36	\$ 9.86	0.417	20	21.7	7/16	0.563	22	Y
	BO	STH2619			C	C	E	X	3/8	0.375	5	30	\$ 10.48	0.417	20	21.7	7/16	0.716	23	Y
	BO	STH5019			C	C	E	X	1/4	0.25	5	20	\$ 12.20	0.417	19	53.6	7/16	1.321	28	Y
	BO	STH5019			C	C	E	X	3/8	0.375	5	20	\$ 13.56	0.417	19	53.6	7/16	1.681	36	Y
	CR	148			C	C	E	X	5/16	0.3125	5	20	\$ 8.88	0.47	19	22.8	1/2	0.672	15	
	DU	10	12		C	H	E	X	3/8	0.375	2.5	20	\$ 14.68	0.45	20	100.3	15/32	1.666	35	
	DU	10	16		C	H	E	X	1/2	0.5	2.5	20	\$ 16.16	0.45	20	100.3	15/32	2.013	42	
	DU	10	18		C	H	E	X	9/16	0.5625	2.5	16	\$ 16.88	0.45	20	100.3	15/32	2.186	37	
	DU	18	12		C	C	E	T	3/8	0.375	5	16	\$ 14.80	0.142	38	43.7	3/16	2.098	36	
	DU	18	14		C	C	E	T	7/16	0.4375	5	16	\$ 15.42	0.142	38	43.7	3/16	2.391	40	
	DU	18	16		C	C	E	T	1/2	0.5	5	16	\$ 16.02	0.142	38	43.7	3/16	2.685	45	
	DU	18	20		C	H	E	T	5/8	0.625	5	10	\$ 17.50	0.142	38	43.7	3/16	3.273	35	
	DU	18	20		C	X	E	T	5/8	0.625	5	10	\$ 19.10	0.142	38	43.7	3/16	3.273	35	
	DU	18	24		C	H	E	T	3/4	0.75	5	10	\$ 19.48	0.142	38	43.7	3/16	3.861	41	
	DU	18	24		C	X	E	T	3/4	0.75	5	10	\$ 21.44	0.142	38	43.7	3/16	3.861	41	
	DU	18	28		C	H	E	T	7/8	0.875	5	10	\$ 21.32	0.142	38	43.7	3/16	4.449	46	
	DU	18	28		C	X	E	T	7/8	0.875	5	10	\$ 23.78	0.142	38	43.7	3/16	4.449	46	
	DU	18	32		C	H	E	T	1	1	5	10	\$ 23.18	0.142	38	43.7	3/16	5.037	52	
	DU	18	32		C	X	E	T	1	1	5	10	\$ 25.88	0.142	38	43.7	3/16	5.037	52	
	DU	18	36		C	H	E	T	1-1/8	1.125	5	10	\$ 25.02	0.142	38	43.7	3/16	5.625	58	
	DU	18	36		C	X	E	T	1-1/8	1.125	5	10	\$ 27.86	0.142	38	43.7	3/16	5.625	58	
	DU	18	40		C	H	E	T	1-1/4	1.25	5	8	\$ 26.86	0.142	38	43.7	3/16	6.213	52	
	DU	18	40		C	X	E	T	1-1/4	1.25	5	8	\$ 30.20	0.142	38	43.7	3/16	6.213	52	
	DU	18	48		C	H	E	T	1-1/2	1.5	2.9	10	\$ 20.96	0.142	38	43.7	3/16	4.285	45	
	DU	30	05		C	H	E	X	5/32	0.15625	5	25	\$ 8.64	0.445	20	26.5	15/32	0.569	16	
	DU	30	06		C	H	E	X	3/16	0.1875	5	25	\$ 8.64	0.445	20	26.5	15/32	0.616	17	
	DU	30	06		D	H	E	X	3/16	0.1875	5	25	\$ 9.00	0.445	20	26.5	15/32	0.616	17	
	DU	30	08		C	B	X	X	1/4	0.25	5	25	\$ 66.52	0.445	20	26.5	15/32	0.710	20	
	DU	30	08		C	H	E	X	1/4	0.25	5	25	\$ 8.88	0.445	20	26.5	15/32	0.710	20	
	DU	30	08		D	H	E	X	1/4	0.25	5	25	\$ 9.20	0.445	20	26.5	15/32	0.710	20	
	DU	30	10		C	H	E	X	5/16	0.3125	5	25	\$ 9.26	0.445	20	26.5	15/32	0.804	22	
	DU	30	10		D	H	E	X	5/16	0.3125	5	25	\$ 9.62	0.445	20	26.5	15/32	0.804	22	
	DU	30	10		D	X	E	X	5/16	0.3125	5	25	\$ 10.60	0.445	20	32.1	15/32	0.973	26	
	DU	30	12		C	B	X	X	3/8	0.375	5	25	\$ 50.52	0.445	20	26.5	15/32	0.898	24	
	DU	30	12		C	H	E	X	3/8	0.375	5	25	\$ 9.74	0.445	20	26.5	15/32	0.898	24	
	DU	30	12		D	H	E	X	3/8	0.375	5	25	\$ 10.12	0.445	20	26.5	15/32	0.898	24	
	DU	30	14		C	H	E	X	7/16	0.4375	5	20	\$ 10.00	0.445	20	26.5	15/32	0.992	22	
	DU	30	14		D	H	E	X	7/16	0.4375	5	20	\$ 10.36	0.445	20	26.5	15/32	0.992	22	
	DU	30	16		C	H	E	X	1/2	0.5	5	20	\$ 10.24	0.445	20	26.5	15/32	1.086	24	
	DU	30	16		D	H	E	X	1/2	0.5	5	20	\$ 10.48	0.445	20	26.5	15/32	1.086	24	
	DU	30	18		C	H	E	X	9/16	0.5625	5	20	\$ 10.60	0.445	20	26.5	15/32	1.179	26	
	DU	30	18		D	H	E	X	9/16	0.5625	5	20	\$ 10.98	0.445	20	26.5	15/32	1.179	26	
	DU	33	06		C	C	E	X	3/16	0.1875	10	20	\$ 14.80	0.267	22	27.0	19/64	1.079	24	

	OEM	Product	prods ec	prod ert	P-oint	Matl	Fin	Coat	Leg. Frac	Leg. in.	M/Bx	Bx /Cs	Retail Price	Crown Width, in. ID	Rolled thk, mils	calc length result, mils	Crown width, frac. OD	weight Lbs wire /box	Weight/c ase, lbs	Hump Y
	DU	33	08		C	H	E	X	1/4	0.25	10	20	\$ 15.78	0.267	22	27.0	19/64	1.289	28	
	DU	33	08		D	H	E	X	1/4	0.25	10	20	\$ 16.28	0.267	22	27.0	19/64	1.289	28	
	DU	33	12		C	H	E	X	3/8	0.375	10	20	\$ 17.02	0.267	22	27.0	19/64	1.709	36	
	DU	33	12		D	H	E	X	3/8	0.375	10	20	\$ 17.50	0.267	22	27.0	19/64	1.709	36	
	DU	33	16		C	H	E	X	1/2	0.5	10	20	\$ 18.62	0.267	22	27.0	19/64	2.130	45	
	DU	33	16		D	H	E	X	1/2	0.5	10	20	\$ 18.98	0.267	22	27.0	19/64	2.130	45	
	DU	33	18		C	H	E	X	9/16	0.5625	10	20	\$ 19.48	0.267	22	27.0	19/64	2.340	49	
	DU	33	18		D	H	E	X	9/16	0.5625	10	20	\$ 19.98	0.267	22	27.0	19/64	2.340	49	
	DU	33	20		C	H	E	X	5/8	0.625	10	20	\$ 20.22	0.267	22	27.0	19/64	2.550	53	
	DU	33	20		D	H	E	X	5/8	0.625	10	20	\$ 20.96	0.267	22	27.0	19/64	2.550	53	
	DU	34	06		C	H	E	X	3/16	0.1875	10	35	\$ 14.54	0.135	20	26.5	5/32	0.766	29	
	DU	34	08		C	H	E	X	1/4	0.25	10	35	\$ 14.80	0.135	20	26.5	5/32	0.954	35	
	DU	34	08		D	H	E	X	1/4	0.25	10	35	\$ 15.42	0.135	20	26.5	5/32	0.954	35	
	DU	34	12		C	H	E	X	3/8	0.375	5	35	\$ 8.64	0.135	20	26.5	5/32	0.665	25	
	DU	34	12		C	M	X	X	3/8	0.375	5	35	\$ 82.12	0.135	20	26.5	5/32	0.665	25	
	DU	34	12		D	H	E	X	3/8	0.375	5	35	\$ 9.26	0.135	20	26.5	5/32	0.665	25	
	DU	34	16		C	B	X	X	1/2	0.5	5	35	\$ 49.42	0.135	20	26.5	5/32	0.853	32	
	DU	34	16		C	H	E	X	1/2	0.5	5	35	\$ 9.38	0.135	20	26.5	5/32	0.853	32	
	DU	34	16		C	X	E	X	1/2	0.5	10	35	\$ 20.22	0.135	20	32.1	5/32	2.063	74	
	DU	34	16		D	H	E	X	1/2	0.5	5	35	\$ 9.86	0.135	20	26.5	5/32	0.853	32	
	DU	34	18		D	C	E	X	9/16	0.5625	5	25	\$ 10.86	0.135	20	26.5	5/32	0.947	26	
	DU	34	20		C	X	E	X	5/8	0.625	5	25	\$ 12.08	0.135	20	32.1	5/32	1.259	33	
	DU	50	04		C	C	E	X	1/8	0.125	5	25	\$ 11.46	0.445	21	48.5	15/32	1.001	27	
	DU	50	05		C	C	E	X	5/32	0.15625	5	25	\$ 11.46	0.445	21	48.5	15/32	1.091	29	
	DU	50	06		C	H	E	X	3/16	0.1875	5	25	\$ 12.08	0.445	21	48.5	15/32	1.181	32	
	DU	50	06		D	H	E	X	3/16	0.1875	5	25	\$ 12.46	0.445	21	48.5	15/32	1.181	32	
	DU	50	06		D	M	X	X	3/16	0.1875	5	20	\$ 179.40	0.445	21	48.5	15/32	1.181	26	
	DU	50	08		C	H	E	X	1/4	0.25	5	20	\$ 12.46	0.445	21	48.5	15/32	1.361	29	
	DU	50	08		C	X	E	X	1/4	0.25	5	20	\$ 12.82	0.445	21	48.5	15/32	1.361	29	
	DU	50	08		D	H	E	X	1/4	0.25	5	20	\$ 12.82	0.445	21	48.5	15/32	1.361	29	
	DU	50	08		D	S	X	X	1/4	0.25	5	20	\$ 54.52	0.445	21	48.5	15/32	1.361	29	
	DU	50	08		D	X	E	X	1/4	0.25	5	20	\$ 13.32	0.445	21	48.5	15/32	1.361	29	
	DU	50	08		O	C	E	X	1/4	0.25	5	20	\$ 16.16	0.445	21	48.5	15/32	1.361	29	
	DU	50	10		C	B	X	X	5/16	0.3125	5	20	\$ 60.72	0.445	21	48.5	15/32	1.541	33	
	DU	50	10		C	H	E	X	5/16	0.3125	5	20	\$ 13.08	0.445	21	48.5	15/32	1.541	33	
	DU	50	10		C	M	X	X	5/16	0.3125	5	20	\$ 218.04	0.445	21	48.5	15/32	1.541	33	
	DU	50	10		C	X	E	X	5/16	0.3125	5	20	\$ 13.56	0.445	21	48.5	15/32	1.541	33	
	DU	50	10		D	H	E	X	5/16	0.3125	5	20	\$ 13.56	0.445	21	48.5	15/32	1.541	33	
	DU	50	10		D	X	E	X	5/16	0.3125	5	20	\$ 14.06	0.445	21	48.5	15/32	1.541	33	
	DU	50	10		D	A	X	X	5/16	0.3125	5	20	\$ 23.46	0.445	21	48.5	15/32	0.529	13	
	DU	50	10		O	C	E	X	5/16	0.3125	5	20	\$ 16.76	0.445	21	48.5	15/32	1.541	33	
	DU	50	12		C	H	E	X	3/8	0.375	5	20	\$ 13.68	0.445	21	48.5	15/32	1.721	36	
	DU	50	12		C	M	X	X	3/8	0.375	5	20	\$ 237.36	0.445	21	48.5	15/32	1.721	36	
	DU	50	12		C	X	E	X	3/8	0.375	5	20	\$ 14.42	0.445	21	48.5	15/32	1.721	36	
	DU	50	12		D	H	E	X	3/8	0.375	5	20	\$ 14.42	0.445	21	48.5	15/32	1.721	36	
	DU	50	12		D	X	E	X	3/8	0.375	5	20	\$ 14.80	0.445	21	48.5	15/32	1.721	36	
	DU	50	12		O	H	E	X	3/8	0.375	5	20	\$ 17.38	0.445	21	48.5	15/32	1.721	36	
	DU	50	14		C	C	E	X	7/16	0.4375	5	20	\$ 15.04	0.445	21	48.5	15/32	1.901	40	
	DU	50	14		D	C	E	X	7/16	0.4375	5	20	\$ 15.78	0.445	21	48.5	15/32	1.901	40	
	DU	50	16		C	H	E	X	1/2	0.5	5	20	\$ 15.04	0.445	21	48.5	15/32	2.081	44	
	DU	50	16		C	X	E	X	1/2	0.5	5	20	\$ 15.78	0.445	21	48.5	15/32	2.081	44	
	DU	50	16		D	H	E	X	1/2	0.5	5	20	\$ 15.54	0.445	21	48.5	15/32	2.081	44	
	DU	50	16		D	X	E	X	1/2	0.5	5	20	\$ 16.02	0.445	21	48.5	15/32	2.081	44	
	DU	50	16		O	H	E	X	1/2	0.5	5	20	\$ 18.74	0.445	21	48.5	15/32	2.081	44	
	DU	50	18		C	H	E	X	9/16	0.5625	5	16	\$ 15.66	0.445	21	48.5	15/32	2.261	38	
	DU	50	18		C	X	E	X	9/16	0.5625	5	16	\$ 16.40	0.445	21	48.5	15/32	2.261	38	
	DU	50	18		D	H	E	X	9/16	0.5625	5	16	\$ 16.40	0.445	21	48.5	15/32	2.261	38	
	DU	50	18		D	X	E	X	9/16	0.5625	5	16	\$ 16.88	0.445	21	48.5	15/32	2.261	38	
	DU	54	06		C	H	E	X	3/16	0.1875	10	25	\$ 19.72	0.135	20	50.9	5/32	1.469	39	
	DU	54	06		C	X	E	X	3/16	0.1875	10	25	\$ 20.70	0.135	20	50.9	5/32	1.469	39	
	DU	54	06		D	C	E	X	3/16	0.1875	10	25	\$ 20.70	0.135	20	50.9	5/32	1.469	39	

	OEM	Product	prods ec	prod ert	P-oint	Matl	Fin	Coat	Leg. Frac	Leg. in.	M/ Bx	Bx /Cs	Retail Price	Crown Width, in. ID	Rolled thk, mils	calc length result, mils	Crown width, frac. OD	weight Lbs wire /box	Weight/c ase, lbs	Hump Y
	DU	54	08		C	H	E	X	1/4	0.25	5	25	\$ 10.86	0.135	20	50.9	5/32	0.915	25	
	DU	54	08		C	X	E	X	1/4	0.25	5	25	\$ 11.34	0.135	20	50.9	5/32	0.915	25	
	DU	54	08		D	H	E	X	1/4	0.25	5	25	\$ 11.34	0.135	20	50.9	5/32	0.915	25	
	DU	54	08		D	M	X	X	1/4	0.25	5	25	\$ 148.36	0.135	22	46.3	5/32	0.915	25	
	DU	54	08		D	X	E	X	1/4	0.25	5	25	\$ 11.84	0.135	20	50.9	5/32	0.915	25	
	DU	54	10		C	C	E	X	5/16	0.3125	5	25	\$ 11.60	0.135	20	50.9	5/32	1.095	29	
	DU	54	10		D	C	E	X	5/16	0.3125	5	25	\$ 12.08	0.135	20	50.9	5/32	1.095	29	
	DU	54	12		C	B	X	X	3/8	0.375	5	25	\$ 84.60	0.135	20	50.9	5/32	1.275	34	
	DU	54	12		C	H	E	X	3/8	0.375	5	25	\$ 12.20	0.135	20	50.9	5/32	1.275	34	
	DU	54	12		C	X	E	X	3/8	0.375	5	25	\$ 12.82	0.135	20	50.9	5/32	1.275	34	
	DU	54	12		D	B	X	X	3/8	0.375	5	25	\$ 87.36	0.135	20	50.9	5/32	1.275	34	
	DU	54	12		D	H	E	X	3/8	0.375	5	25	\$ 12.82	0.135	20	50.9	5/32	1.275	34	
	DU	54	12		D	X	E	X	3/8	0.375	5	25	\$ 13.32	0.135	20	50.9	5/32	1.275	34	
	DU	54	14		C	C	E	X	7/16	0.4375	5	20	\$ 12.82	0.135	20	50.9	5/32	1.455	31	
	DU	54	16		C	H	E	X	1/2	0.5	5	20	\$ 13.44	0.135	20	50.9	5/32	1.635	35	
	DU	54	16		C	X	E	X	1/2	0.5	5	20	\$ 13.94	0.135	20	50.9	5/32	1.635	35	
	DU	54	16		D	H	E	X	1/2	0.5	5	20	\$ 13.94	0.135	20	50.9	5/32	1.635	35	
	DU	54	16		D	X	E	X	1/2	0.5	5	20	\$ 14.54	0.135	20	50.9	5/32	1.635	35	
	DU	54	18		C	B	X	X	9/16	0.5625	5	20	\$ 103.24	0.135	20	50.9	5/32	1.815	38	
	DU	54	18		C	H	E	X	9/16	0.5625	5	20	\$ 13.68	0.135	20	50.9	5/32	1.815	38	
	DU	54	18		C	X	E	X	9/16	0.5625	5	20	\$ 14.68	0.135	20	50.9	5/32	1.815	38	
	DU	54	18		D	B	X	X	9/16	0.5625	5	20	\$ 106.00	0.135	20	50.9	5/32	1.815	38	
	DU	54	18		D	H	E	X	9/16	0.5625	5	20	\$ 14.68	0.135	20	50.9	5/32	1.815	38	
	DU	54	18		D	X	E	X	9/16	0.5625	5	20	\$ 15.16	0.135	20	50.9	5/32	1.815	38	
	DU	54	18		D	S	X	X	9/16	0.5625	5	20	\$ 53.50	0.135	20	50.9	5/32	1.815	38	
	DU	54	20		C	H	E	X	5/8	0.625	5	20	\$ 16.02	0.135	20	50.9	5/32	1.995	42	
	DU	54	20		D	H	E	X	5/8	0.625	5	20	\$ 16.64	0.135	20	50.9	5/32	1.995	42	
	DU	54	24		C	H	E	X	3/4	0.75	5	20	\$ 17.38	0.135	20	50.9	5/32	2.355	49	
	DU	54	24		D	H	E	X	3/4	0.75	5	20	\$ 18.00	0.135	20	50.9	5/32	2.355	49	
	DU	64	12		C	C	E	X	3/8	0.375	5	20	\$ 16.76	0.117	27	51.3	5/32	1.700	36	
	DU	64	16		C	C	E	X	1/2	0.5	5	20	\$ 18.36	0.117	27	51.3	5/32	2.190	46	
	DU	64	18		C	C	E	X	9/16	0.5625	5	20	\$ 19.10	0.117	27	51.3	5/32	2.435	51	
	DU	64	20		C	H	E	X	5/8	0.625	5	20	\$ 24.16	0.117	27	51.3	5/32	2.680	56	
	DU	64	20		D	H	E	X	5/8	0.625	5	20	\$ 24.90	0.117	27	51.3	5/32	2.680	56	
	DU	64	24		C	H	E	X	3/4	0.75	5	10	\$ 25.64	0.117	27	51.3	5/32	3.170	34	
	DU	64	24		C	M	X	X	3/4	0.75	5	10	\$ 397.44	0.117	27	51.3	5/32	3.170	34	
	DU	64	24		D	H	E	X	3/4	0.75	5	10	\$ 26.38	0.117	27	51.3	5/32	3.170	34	
	DU	64	28		C	H	E	X	7/8	0.875	5	10	\$ 27.36	0.117	27	51.3	5/32	3.660	39	
	DU	64	28		D	H	E	X	7/8	0.875	5	10	\$ 28.22	0.117	27	51.3	5/32	3.660	39	
	DU	64	32		C	H	E	X	1	1	5	10	\$ 28.96	0.117	27	51.3	5/32	4.150	43	
	DU	64	32		D	H	E	X	1	1	5	10	\$ 29.82	0.117	27	51.3	5/32	4.150	43	
	DU	65	16		C	H	E	X	1/2	0.5	5	16	\$ 25.26	0.43	27	51.3	15/32	2.803	47	
	DU	65	20		C	H	E	X	5/8	0.625	5	16	\$ 27.00	0.43	27	51.3	15/32	3.293	55	
	DU	75	08		C	H	E	X	1/4	0.25	5	20	\$ 12.94	0.415	25	50.3	7/16	1.627	35	
	DU	75	08		D	H	E	X	1/4	0.25	5	20	\$ 13.56	0.415	25	50.3	7/16	1.627	35	
	DU	75	10		C	H	E	X	5/16	0.3125	5	20	\$ 13.68	0.415	25	50.3	7/16	1.849	39	
	DU	75	10		D	H	E	X	5/16	0.3125	5	20	\$ 14.30	0.415	25	50.3	7/16	1.849	39	
	DU	75	12		C	H	E	X	3/8	0.375	5	20	\$ 14.30	0.415	25	50.3	7/16	2.071	43	
	DU	75	12		D	H	E	X	3/8	0.375	5	20	\$ 14.92	0.415	25	50.3	7/16	2.071	43	
	DU	75	16		C	H	E	X	1/2	0.5	5	20	\$ 16.02	0.415	25	50.3	7/16	2.516	52	
	DU	75	16		D	H	E	X	1/2	0.5	5	20	\$ 16.76	0.415	25	50.3	7/16	2.516	52	
	DU	75	18		C	H	E	X	9/16	0.5625	5	16	\$ 16.76	0.415	25	50.3	7/16	2.738	46	
	DU	75	18		D	H	E	X	9/16	0.5625	5	16	\$ 17.50	0.415	25	50.3	7/16	2.738	46	
	HA	8	04		C	H	E	X	5/32	0.15625	5	20	\$ 9.62	0.45	23	35.0	15/32	0.868	19	
	HA	8	05		C	H	E	X	3/16	0.1875	5	20	\$ 9.62	0.45	23	35.0	15/32	0.939	21	
	HA	8	05		D	H	E	X	3/16	0.1875	5	20	\$ 10.12	0.45	23	35.0	15/32	0.939	21	
	HA	8	06		C	H	E	X	1/4	0.25	5	20	\$ 10.12	0.45	23	35.0	15/32	1.081	24	
	HA	8	06		D	H	E	X	1/4	0.25	5	20	\$ 10.36	0.45	23	35.0	15/32	1.081	24	
	HA	8	08		C	H	E	X	5/16	0.3125	5	20	\$ 10.60	0.45	23	35.0	15/32	1.223	26	
	HA	8	08		D	H	E	X	5/16	0.3125	5	20	\$ 10.98	0.45	23	35.0	15/32	1.223	26	
	HA	8	10		C	H	E	X	3/8	0.375	5	20	\$ 11.10	0.45	23	35.0	15/32	1.366	29	

	OEM	Product	prods ec	prod ert	P-oint	Matl	Fin	Coat	Leg. Frac	Leg. in.	M/ Bx	Bx /Cs	Retail Price	Crown Width, in. ID	Rolled thk, mils	calc length result, mils	Crown width, frac. OD	weight Lbs wire /box	Weight/c ase, lbs	Hump Y
	HA	8	10		D	H	E	X	3/8	0.375	5	20	\$ 11.72	0.45	23	35.0	15/32	1.366	29	
	HA	8	12		C	H	E	X	1/2	0.5	5	20	\$ 12.08	0.45	23	35.0	15/32	1.650	35	
	HA	8	12		D	H	E	X	1/2	0.5	5	20	\$ 12.46	0.45	23	35.0	15/32	1.650	35	
	HA	8	14		C	H	E	X	9/16	0.5625	5	20	\$ 12.58	0.45	23	35.0	15/32	1.792	38	
	HA	8	14		D	H	E	X	9/16	0.5625	5	20	\$ 12.94	0.45	23	35.0	15/32	1.792	38	
	HA	14	04		C	H	E	X	5/32	0.15625	10	20	\$ 18.50	0.347	23	25.8	3/8	1.108	24	
	HA	14	05		C	H	E	X	3/16	0.1875	10	20	\$ 18.98	0.347	23	25.8	3/8	1.214	26	
	HA	14	06		C	H	E	X	1/4	0.25	10	20	\$ 19.72	0.347	23	25.8	3/8	1.424	30	
	HA	14	06		D	H	E	X	1/4	0.25	10	20	\$ 20.22	0.347	23	25.8	3/8	1.424	30	
	HA	14	08		C	H	E	X	5/16	0.3125	10	20	\$ 20.58	0.347	23	25.8	3/8	1.634	35	
	HA	14	08		C	M	X	X	5/16	0.3125	10	20	\$ 231.16	0.347	23	25.8	3/8	1.634	35	
	HA	14	08		D	H	E	X	5/16	0.3125	10	20	\$ 20.96	0.347	23	25.8	3/8	1.634	35	
	HA	14	10		C	H	E	X	3/8	0.375	10	20	\$ 21.32	0.347	23	25.8	3/8	1.844	39	
	HA	14	10		D	H	E	X	3/8	0.375	10	20	\$ 21.82	0.347	23	25.8	3/8	1.844	39	
	HA	14	12		C	H	E	X	1/2	0.5	5	20	\$ 11.96	0.347	23	25.8	3/8	1.132	25	
	HA	14	12		D	H	E	X	1/2	0.5	5	20	\$ 12.58	0.347	23	25.8	3/8	1.132	25	
	HA	14	14		C	H	E	X	9/16	0.5625	5	20	\$ 12.34	0.347	23	25.8	3/8	1.237	27	
	HA	14	14		D	H	E	X	9/16	0.5625	5	20	\$ 12.94	0.347	23	25.8	3/8	1.237	27	
	HA	18	03		C	C	E	X	1/8	0.125	5	25	\$ 12.58	0.45	20	26.5	15/32	0.526	15	
	HA	18	06		C	H	E	X	1/4	0.25	10	20	\$ 23.66	0.45	20	26.5	15/32	1.427	31	
	HA	18	06		D	H	E	X	1/4	0.25	10	20	\$ 24.16	0.45	20	26.5	15/32	1.427	31	
	HA	18	08		C	H	E	X	5/16	0.3125	10	20	\$ 24.16	0.45	20	26.5	15/32	1.615	34	
	HA	18	08		D	H	E	X	5/16	0.3125	10	20	\$ 24.66	0.45	20	26.5	15/32	1.615	34	
	HA	18	10		C	H	E	X	3/8	0.375	10	20	\$ 24.90	0.45	20	26.5	15/32	1.803	38	
	HA	18	10		D	H	E	X	3/8	0.375	10	20	\$ 25.40	0.45	20	26.5	15/32	1.803	38	
	HA	18	12		C	H	E	X	1/2	0.5	10	20	\$ 26.00	0.45	20	26.5	15/32	2.179	46	
	HA	18	12		D	H	E	X	1/2	0.5	10	20	\$ 26.50	0.45	20	26.5	15/32	2.179	46	
	HA	40	06		C	H	E	X	1/4	0.25	5	20	\$ 9.26	0.135	23	35.0	5/32	0.723	16	
	HA	40	06		D	H	E	X	1/4	0.25	5	20	\$ 9.50	0.135	23	35.0	5/32	0.723	16	
	HA	40	08		C	H	E	X	5/16	0.3125	5	20	\$ 9.74	0.135	23	35.0	5/32	0.865	19	
	HA	40	08		D	H	E	X	5/16	0.3125	5	20	\$ 10.12	0.135	23	35.0	5/32	0.865	19	
	HA	40	10		C	H	E	X	3/8	0.375	5	20	\$ 10.36	0.135	23	35.0	5/32	1.007	22	
	HA	40	10		D	H	E	X	3/8	0.375	5	20	\$ 10.72	0.135	23	35.0	5/32	1.007	22	
	HA	40	12		C	M	X	X	3/8	0.375	5	20	\$ 157.32	0.135	23	35.0	5/32	1.007	22	
	HA	40	12		C	H	E	X	1/2	0.5	5	20	\$ 11.34	0.135	23	35.0	5/32	1.292	28	
	HA	40	12		D	H	E	X	1/2	0.5	5	20	\$ 11.72	0.135	23	35.0	5/32	1.292	28	
	HA	40	14		C	H	E	X	9/16	0.5625	5	20	\$ 11.84	0.135	23	35.0	5/32	1.434	31	
	HA	40	14		D	H	E	X	9/16	0.5625	5	20	\$ 12.20	0.135	23	35.0	5/32	1.434	31	
	HA	40	16		C	H	E	X	5/8	0.625	5	20	\$ 12.34	0.135	23	35.0	5/32	1.576	34	
	HA	60	12		C	H	E	X	1/2	0.5	5	10	\$ 15.66	0.142	38	43.7	3/16	2.685	29	
	HA	60	12		D	H	E	X	1/2	0.5	5	10	\$ 16.16	0.142	38	43.7	3/16	2.685	29	
	HA	60	15		C	H	E	X	5/8	0.625	5	10	\$ 17.68	0.142	38	43.7	3/16	3.273	35	
	HA	60	15		D	H	E	X	5/8	0.625	5	10	\$ 18.12	0.142	38	43.7	3/16	3.273	35	
	HA	60	18		C	H	E	X	3/4	0.75	5	10	\$ 19.94	0.142	38	43.7	3/16	3.861	41	
	HA	60	18		D	H	E	X	3/4	0.75	5	10	\$ 20.24	0.142	38	43.7	3/16	3.861	41	
	HA	60	20		C	H	E	X	13/16	0.8125	5	10	\$ 21.94	0.142	38	43.7	3/16	4.155	44	
	HA	60	20		D	H	E	X	13/16	0.8125	5	10	\$ 22.40	0.142	38	43.7	3/16	4.155	44	
	HA	60	25		C	H	E	X	1	1	5	10	\$ 23.76	0.142	38	43.7	3/16	5.037	52	
	HA	60	25		D	H	E	X	1	1	5	10	\$ 24.06	0.142	38	43.7	3/16	5.037	52	
	HA	60	28		C	H	E	X	1-1/8	1.125	5	10	\$ 25.12	0.142	38	43.7	3/16	5.625	58	
	HA	60	28		D	H	E	X	1-1/8	1.125	5	10	\$ 25.44	0.142	38	43.7	3/16	5.625	58	
	HA	60	30		C	H	E	X	1-1/4	1.25	5	10	\$ 26.62	0.142	38	43.7	3/16	6.213	64	
	HA	60	30		D	H	E	X	1-1/4	1.25	5	10	\$ 27.36	0.142	38	43.7	3/16	6.213	64	
	HE	A0020			C	H	E	X	1/4	0.25	5	20	\$ 16.52	0.395	25	50.3	7/16	1.591	34	
	HE	A0020			D	H	E	X	1/4	0.25	5	20	\$ 17.02	0.395	25	50.3	7/16	1.591	34	
	HE	B0021			C	H	E	X	5/16	0.3125	5	20	\$ 17.26	0.395	25	50.3	7/16	1.814	38	
	HE	B0021			D	H	E	X	5/16	0.3125	5	20	\$ 17.76	0.395	25	50.3	7/16	1.814	38	
	HE	C0023			C	H	E	X	3/8	0.375	5	20	\$ 17.88	0.395	25	50.3	7/16	2.036	43	
	HE	C0023			D	H	E	X	3/8	0.375	5	20	\$ 18.36	0.395	25	50.3	7/16	2.036	43	
	HE	E0024			C	H	E	X	7/16	0.4375	5	20	\$ 18.62	0.395	25	50.3	7/16	2.258	47	
	HE	WC0076			C	H	E	X	3/8	0.375	2.5	20	\$ 12.70	0.395	20	100.3	13/32	1.589	34	

	OLEM	Product	prods ec	prodert	P:oint	Matl	Fin	Coat	Leg. Frac	Leg. in.	M/ Bx	Bx /Cs	Retail Price	Crown Width, in. ID	Rolled thk, mils	calc length result, mils	Crown width, frac. OD	weight Lbs wire /box	Weight/c ase, lbs	Hump Y
	HE	WE0077			C	H	E	X	7/16	0.4375	2.5	20	\$ 13.44	0.395	20	100.3	13/32	1.763	37	
	HE	WG0079			C	H	E	X	17/32	0.53125	2.5	20	\$ 14.54	0.395	20	100.3	13/32	2.023	42	
	IN	375			C	H	E	X	1/4	0.25	5	20	\$ 14.54	0.38	22	36.6	13/32	1.001	22	
	IN	375			C	H	E	X	5/16	0.3125	5	20	\$ 15.16	0.38	22	36.6	13/32	1.144	25	
	IN	375			C	H	E	X	3/8	0.375	5	20	\$ 15.66	0.38	22	36.6	13/32	1.286	28	
	KL	33	C		C	C	E	X	3/16	0.1875	5	40	\$ 8.64	0.465	20	26.5	1/2	0.631	27	
	KL	33	T		D	C	E	X	3/16	0.1875	5	40	\$ 9.00	0.465	20	26.5	1/2	0.631	27	
	KL	34	C		C	C	E	X	1/4	0.25	5	40	\$ 9.00	0.465	20	26.5	1/2	0.725	31	
	KL	34	T		D	C	E	X	1/4	0.25	5	40	\$ 9.38	0.465	20	26.5	1/2	0.725	31	
	KL	35	C		C	C	E	X	5/16	0.3125	5	40	\$ 9.38	0.465	20	26.5	1/2	0.819	35	
	KL	35	T		D	C	E	X	5/16	0.3125	5	40	\$ 9.74	0.465	20	26.5	1/2	0.819	35	
	KL	36	C		C	C	E	X	3/8	0.375	5	20	\$ 9.74	0.465	20	26.5	1/2	0.913	20	
	KL	36	T		D	C	E	X	3/8	0.375	5	20	\$ 10.12	0.465	20	26.5	1/2	0.913	20	
	KL	38	C		C	C	E	X	1/2	0.5	5	20	\$ 10.48	0.465	20	26.5	1/2	1.101	24	
	KL	38	T		D	C	E	X	1/2	0.5	5	20	\$ 10.86	0.465	20	26.5	1/2	1.101	24	
	KL	32-1/2			C	C	E	X	5/32	0.15625	5	40	\$ 8.64	0.465	20	26.5	1/2	0.584	25	
	MA	L3A	SHORT		C	H	E	X	5/32	0.15625	5	20	\$ 12.08	0.395	20	50.9	13/32	1.019	22	
	MA	L3A			C	H	E	X	1/4	0.25	5	20	\$ 12.08	0.395	20	50.9	13/32	1.289	28	
	MA	L3A			C	X	E	X	1/4	0.25	5	20	\$ 12.58	0.395	20	50.9	13/32	1.289	28	
	MA	L3A			D	H	E	X	1/4	0.25	5	20	\$ 12.58	0.395	20	50.9	13/32	1.289	28	
	MA	L3A			D	X	E	X	1/4	0.25	5	20	\$ 13.08	0.395	20	50.9	13/32	1.289	28	
	MA	L3B			C	H	E	X	5/16	0.3125	5	20	\$ 12.82	0.395	20	50.9	13/32	1.469	31	
	MA	L3B			C	X	E	X	5/16	0.3125	5	20	\$ 13.32	0.395	20	50.9	13/32	1.469	31	
	MA	L3B			D	H	E	X	5/16	0.3125	5	20	\$ 13.32	0.395	20	50.9	13/32	1.469	31	
	MA	L3B			D	X	E	X	5/16	0.3125	5	20	\$ 13.80	0.395	20	50.9	13/32	1.469	31	
	MA	L3C			C	H	E	X	3/8	0.375	5	20	\$ 13.44	0.395	20	50.9	13/32	1.649	35	
	MA	L3C			C	X	E	X	3/8	0.375	5	20	\$ 14.06	0.395	20	50.9	13/32	1.649	35	
	MA	L3C			D	H	E	X	3/8	0.375	5	20	\$ 14.06	0.395	20	50.9	13/32	1.649	35	
	MA	L3C			D	X	E	X	3/8	0.375	5	20	\$ 14.68	0.395	20	50.9	13/32	1.649	35	
	MA	L3D			C	H	E	X	1/2	0.5	5	20	\$ 14.80	0.395	20	50.9	13/32	2.009	42	
	MA	L3D			C	M	X	X	1/2	0.5	5	20	\$ 273.24	0.395	20	50.9	13/32	2.009	42	
	MA	L3D			C	X	E	X	1/2	0.5	5	20	\$ 15.42	0.395	20	50.9	13/32	2.009	42	
	MA	L3D			D	H	E	X	1/2	0.5	5	20	\$ 15.42	0.395	20	50.9	13/32	2.009	42	
	MA	L3D			D	X	E	X	1/2	0.5	5	20	\$ 16.16	0.395	20	50.9	13/32	2.009	42	
	MA	L3M			C	H	E	X	7/16	0.4375	5	20	\$ 14.68	0.395	20	50.9	13/32	1.829	39	
	MA	L3M			C	X	E	X	7/16	0.4375	5	20	\$ 15.42	0.395	20	50.9	13/32	1.829	39	
	MA	L3M			D	H	E	X	7/16	0.4375	5	20	\$ 15.42	0.395	20	50.9	13/32	1.829	39	
	MA	L3M			D	X	E	X	7/16	0.4375	5	20	\$ 16.16	0.395	20	50.9	13/32	1.829	39	
	MA	L4A	SHORT		C	H	E	X	5/32	0.15625	5	40	\$ 9.38	0.395	20	21.7	13/32	0.434	19	
	MA	L4A			C	H	E	X	1/4	0.25	5	40	\$ 9.38	0.395	20	21.7	13/32	0.549	24	
	MA	L4A			D	H	E	X	1/4	0.25	5	40	\$ 9.86	0.395	20	21.7	13/32	0.549	24	
	MA	L4C			C	H	E	X	3/8	0.375	5	40	\$ 10.36	0.395	20	21.7	13/32	0.703	30	
	MA	L4C			D	H	E	X	3/8	0.375	5	40	\$ 10.60	0.395	20	21.7	13/32	0.703	30	
	MA	L4D			C	H	E	X	1/2	0.5	5	40	\$ 10.98	0.395	18	24.1	13/32	0.856	36	
	MA	L4D			C	M	X	X	1/2	0.5	5	40	\$ 140.76	0.395	18	24.1	13/32	0.856	36	
	MA	L4D			D	H	E	X	1/2	0.5	5	40	\$ 11.34	0.395	20	21.7	13/32	0.856	36	
	MA	P3A			C	C	E	X	1/4	0.25	5	20	\$ 11.34	0.395	19	45.0	13/32	1.083	24	Y
	MA	P3C			C	C	E	X	3/8	0.375	5	20	\$ 12.34	0.395	19	45.0	13/32	1.386	30	Y
	MA	P3C			C	M	X	X	3/8	0.375	5	20	\$ 229.78	0.395	20	50.9	13/32	1.649	35	Y
	MA	P3C			D	M	X	X	3/8	0.375	5	20	\$ 235.30	0.395	20	50.9	13/32	1.649	35	Y
	MA	P4A			C	C	E	X	1/4	0.25	5	36	\$ 9.86	0.395	18	24.1	13/32	0.549	22	Y
	MA	P4C			C	C	E	X	3/8	0.375	5	20	\$ 10.60	0.395	18	24.1	13/32	0.703	16	Y
	MA	RBB			C	H	E	X	5/16	0.3125	5	20	\$ 13.56	0.395	20	50.9	13/32	1.469	31	
	MA	RBA			C	H	E	X	1/4	0.25	5	20	\$ 13.26	0.395	20	50.9	13/32	1.289	28	
	NE	A	-1000		C	C	E	X	1/4	0.25	10	20	\$ 17.76	0.41	20	21.7	7/16	1.117	24	
	NE	B			C	H	E	X	1/4	0.25	5	20	\$ 14.18	0.41	20	50.9	7/16	1.311	28	
	NE	B	-3/8		C	H	E	X	5/16	0.3125	5	20	\$ 14.92	0.41	20	50.9	7/16	1.491	32	
	NE	B			C	H	E	X	1/2	0.5	5	20	\$ 16.76	0.41	20	50.9	7/16	2.031	43	
	NE	DJ340			C	C	E	X	7/32	0.21875	5	100	\$ 9.86	0.38	18	16.3	13/32	0.338	36	
	NE	L	-1000		C	C	E	X	5/16	0.3125	10	20	\$ 18.36	0.41	20	21.7	7/16	1.270	27	
	PA	GSN18			C	H	E	X	3/8	0.375	5	10	\$ 13.56	0.12	38	43.7	3/16	2.046	22	

	OLEM	Product	prods ec	prodt ert	P-oint	Matl	Fin	Coat	Leg. Frac	Leg. in.	M/ Bx	Bx /Cs	Retail Price	Crown Width, in. ID	Rolled thk, mils	calc length result, mils	Crown width, frac. OD	weight Lbs wire /box	Weight/c ase, lbs	Hump Y
	PA	GSN18			D	H	E	X	3/8	0.375	5	10	\$ 14.06	0.12	38	43.7	3/16	2.046	22	
	PA	GSN18			C	H	E	X	1/2	0.5	5	10	\$ 15.28	0.12	38	43.7	3/16	2.634	28	
	PA	GSN18			D	H	E	X	1/2	0.5	5	10	\$ 15.78	0.12	38	43.7	3/16	2.634	28	
	PA	GSN18			C	H	E	X	5/8	0.625	5	10	\$ 17.68	0.12	38	43.7	3/16	3.222	34	
	PA	GSN18			D	H	E	X	5/8	0.625	5	10	\$ 17.82	0.12	38	43.7	3/16	3.222	34	
	PA	GSN18			C	H	E	X	3/4	0.75	5	10	\$ 19.94	0.12	38	43.7	3/16	3.809	40	
	PA	GSN18			D	H	E	X	3/4	0.75	5	10	\$ 20.24	0.12	38	43.7	3/16	3.809	40	
	PA	GSN18			C	H	E	X	7/8	0.875	5	10	\$ 22.08	0.12	38	43.7	3/16	4.397	46	
	PA	GSN18			D	H	E	X	7/8	0.875	5	10	\$ 22.24	0.12	38	43.7	3/16	4.397	46	
	PA	GSN18			C	H	E	X	1	1	5	10	\$ 23.46	0.12	38	43.7	3/16	4.985	52	
	PA	GSN18			C	H	E	X	1-1/8	1.125	5	10	\$ 24.98	0.12	38	43.7	3/16	5.573	58	
	PA	GSN18			C	H	E	X	1-1/4	1.25	5	10	\$ 26.68	0.12	38	43.7	3/16	6.161	64	
	PA	PN30			C	H	E	X	3/16	0.1875	10	20	\$ 15.16	0.159	22	27.0	3/16	0.898	20	
	PA	PN30			C	X	E	X	3/16	0.1875	10	20	\$ 15.78	0.159	23	27.9	3/16	0.971	21	
	PA	PN30			D	H	E	X	3/16	0.1875	10	20	\$ 15.54	0.159	22	27.0	3/16	0.898	20	
	PA	PN30			D	X	E	X	3/16	0.1875	10	20	\$ 16.28	0.159	23	27.9	3/16	0.971	21	
	PA	PN30			C	H	E	X	1/4	0.25	10	20	\$ 16.02	0.159	22	27.0	3/16	1.108	24	
	PA	PN30			C	X	E	X	1/4	0.25	10	20	\$ 16.76	0.159	23	27.9	3/16	1.198	26	
	PA	PN30			D	H	E	X	1/4	0.25	10	20	\$ 16.28	0.159	22	27.0	3/16	1.108	24	
	PA	PN30			D	X	E	X	1/4	0.25	10	20	\$ 17.26	0.159	23	27.9	3/16	1.198	26	
	PA	PN30			C	H	E	X	5/16	0.3125	10	20	\$ 16.76	0.159	22	27.0	3/16	1.318	28	
	PA	PN30			C	X	E	X	5/16	0.3125	10	20	\$ 17.76	0.159	23	27.9	3/16	1.425	31	
	PA	PN30			D	H	E	X	5/16	0.3125	10	20	\$ 17.26	0.159	22	27.0	3/16	1.318	28	
	PA	PN30			D	X	E	X	5/16	0.3125	10	20	\$ 18.24	0.159	23	27.9	3/16	1.425	31	
	PA	PN30			C	H	E	X	3/8	0.375	10	20	\$ 17.62	0.159	22	27.0	3/16	1.528	33	
	PA	PN30			C	X	E	X	3/8	0.375	10	20	\$ 18.74	0.159	23	27.9	3/16	1.653	35	
	PA	PN30			D	H	E	X	3/8	0.375	10	20	\$ 18.12	0.159	22	27.0	3/16	1.528	33	
	PA	PN30			D	X	E	X	3/8	0.375	10	20	\$ 19.24	0.159	23	27.9	3/16	1.653	35	
	PA	PN30			C	H	E	X	1/2	0.5	10	20	\$ 19.24	0.159	22	27.0	3/16	1.948	41	
	PA	PN30			C	X	E	X	1/2	0.5	10	20	\$ 20.58	0.159	23	27.9	3/16	2.107	44	
	PA	PN30			D	H	E	X	1/2	0.5	10	20	\$ 19.84	0.159	22	27.0	3/16	1.948	41	
	PA	PN30			D	X	E	X	1/2	0.5	10	20	\$ 21.20	0.159	23	27.9	3/16	2.107	44	
	PA	PN30			C	H	E	X	9/16	0.5625	10	20	\$ 20.10	0.159	22	27.0	3/16	2.158	45	
	PA	PN30			C	X	E	X	9/16	0.5625	10	20	\$ 21.44	0.159	23	27.9	3/16	2.334	49	
	PA	PN30			D	H	E	X	9/16	0.5625	10	20	\$ 20.70	0.159	22	27.0	3/16	2.158	45	
	PA	PN30			D	X	E	X	9/16	0.5625	10	20	\$ 22.06	0.159	23	27.9	3/16	2.334	49	
	PA	PN30			C	H	E	X	5/8	0.625	10	20	\$ 20.84	0.159	22	27.0	3/16	2.368	49	
	PA	PN30			C	X	E	X	5/8	0.625	10	20	\$ 22.44	0.159	23	27.9	3/16	2.562	53	
	PA	PN30			D	H	E	X	5/8	0.625	10	20	\$ 21.20	0.159	22	27.0	3/16	2.368	49	
	PA	PN30			D	X	E	X	5/8	0.625	10	20	\$ 23.06	0.159	23	27.9	3/16	2.562	53	
	PA	PN50			C	H	E	X	3/16	0.1875	10	20	\$ 16.52	0.159	23	44.3	3/16	1.538	33	
	PA	PN50			C	X	E	X	3/16	0.1875	10	20	\$ 17.26	0.159	23	44.3	3/16	1.538	33	
	PA	PN50			D	H	E	X	3/16	0.1875	10	20	\$ 17.26	0.159	23	44.3	3/16	1.538	33	
	PA	PN50			D	X	E	X	3/16	0.1875	10	20	\$ 18.12	0.159	23	44.3	3/16	1.538	33	
	PA	PN50			C	H	E	X	1/4	0.25	10	20	\$ 17.88	0.159	23	44.3	3/16	1.898	40	
	PA	PN50			C	X	E	X	1/4	0.25	10	20	\$ 18.62	0.159	23	44.3	3/16	1.898	40	
	PA	PN50			D	H	E	X	1/4	0.25	10	20	\$ 18.62	0.159	23	44.3	3/16	1.898	40	
	PA	PN50			D	X	E	X	1/4	0.25	10	20	\$ 19.36	0.159	23	44.3	3/16	1.898	40	
	PA	PN50			C	H	E	X	5/16	0.3125	10	20	\$ 19.10	0.159	23	44.3	3/16	2.258	47	
	PA	PN50			C	X	E	X	5/16	0.3125	10	20	\$ 19.98	0.159	23	44.3	3/16	2.258	47	
	PA	PN50			D	H	E	X	5/16	0.3125	10	20	\$ 19.98	0.159	23	44.3	3/16	2.258	47	
	PA	PN50			D	X	E	X	5/16	0.3125	10	20	\$ 20.96	0.159	23	44.3	3/16	2.258	47	
	PA	PN50			C	H	E	X	3/8	0.375	10	20	\$ 20.46	0.159	23	44.3	3/16	2.618	54	
	PA	PN50			C	M	X	X	3/8	0.375	10	20	\$ 336.72	0.159	23	44.3	3/16	2.618	54	
	PA	PN50			C	X	E	X	3/8	0.375	10	20	\$ 21.32	0.159	23	44.3	3/16	2.618	54	
	PA	PN50			D	H	E	X	3/8	0.375	10	20	\$ 21.32	0.159	23	44.3	3/16	2.618	54	
	PA	PN50			D	X	E	X	3/8	0.375	10	20	\$ 22.18	0.159	23	44.3	3/16	2.618	54	
	PA	PN50			C	B	X	X	1/2	0.5	5	20	\$ 62.10	0.159	23	44.3	3/16	1.669	35	
	PA	PN50			C	H	E	X	1/2	0.5	5	20	\$ 12.94	0.159	23	44.3	3/16	1.669	35	
	PA	PN50			C	M	X	X	1/2	0.5	5	20	\$ 193.20	0.159	23	44.3	3/16	1.669	35	
	PA	PN50			C	X	E	X	1/2	0.5	5	20	\$ 13.56	0.159	23	44.3	3/16	1.669	35	

OLEM	Product	prods ec	prodert	P:oint	Matl	Fin	Coat	Leg. Frac	Leg. in.	M/Bx	Bx /Cs	Retail Price	Crown Width, in. ID	Rolled thk, mils	calc length result, mils	Crown width, frac. OD	weight Lbs wire /box	Weight/c ase, lbs	Hump Y
PA	PN50			D	H	E	X	1/2	0.5	5	20	\$ 12.94	0.159	23	44.3	3/16	1.669	35	
PA	PN50			D	X	E	X	1/2	0.5	5	20	\$ 13.56	0.159	23	44.3	3/16	1.669	35	
PA	PN50			C	H	E	X	5/8	0.625	5	20	\$ 14.30	0.159	23	44.3	3/16	2.029	43	
PA	PN50			C	X	E	X	5/8	0.625	5	20	\$ 14.92	0.159	23	44.3	3/16	2.029	43	
PA	PN50			D	H	E	X	5/8	0.625	5	20	\$ 14.92	0.159	23	44.3	3/16	2.029	43	
PA	PN50			D	X	E	X	5/8	0.625	5	20	\$ 15.66	0.159	23	44.3	3/16	2.029	43	
PA	PN50			C	H	E	X	3/4	0.75	5	20	\$ 17.26	0.159	23	44.3	3/16	2.389	50	
PA	PS30			C	H	E	X	3/16	0.1875	10	20	\$ 16.02	0.283	22	27.0	5/16	1.106	24	
PA	PS30			C	X	E	X	3/16	0.1875	10	20	\$ 16.76	0.283	23	27.9	5/16	1.196	26	
PA	PS30			D	H	E	X	3/16	0.1875	10	20	\$ 16.52	0.283	22	27.0	5/16	1.106	24	
PA	PS30			D	X	E	X	3/16	0.1875	10	20	\$ 17.26	0.283	23	27.9	5/16	1.196	26	
PA	PS30			C	H	E	X	1/4	0.25	10	20	\$ 16.76	0.283	22	27.0	5/16	1.316	28	
PA	PS30			C	X	E	X	1/4	0.25	10	20	\$ 17.76	0.283	23	27.9	5/16	1.423	30	
PA	PS30			D	H	E	X	1/4	0.25	10	20	\$ 17.26	0.283	22	27.0	5/16	1.316	28	
PA	PS30			D	X	E	X	1/4	0.25	10	20	\$ 18.24	0.283	23	27.9	5/16	1.423	30	
PA	PS30			C	H	E	X	5/16	0.3125	10	20	\$ 17.62	0.283	22	27.0	5/16	1.526	33	
PA	PS30			C	X	E	X	5/16	0.3125	10	20	\$ 18.74	0.283	23	27.9	5/16	1.651	35	
PA	PS30			D	H	E	X	5/16	0.3125	10	20	\$ 18.50	0.283	22	27.0	5/16	1.526	33	
PA	PS30			D	X	E	X	5/16	0.3125	10	20	\$ 19.24	0.283	23	27.9	5/16	1.651	35	
PA	PS30			C	H	E	X	3/8	0.375	10	20	\$ 18.36	0.283	22	27.0	5/16	1.736	37	
PA	PS30			C	X	E	X	3/8	0.375	10	20	\$ 19.60	0.283	23	27.9	5/16	1.878	40	
PA	PS30			D	H	E	X	3/8	0.375	10	20	\$ 19.10	0.283	22	27.0	5/16	1.736	37	
PA	PS30			D	X	E	X	3/8	0.375	10	20	\$ 20.10	0.283	23	27.9	5/16	1.878	40	
PA	PS30			C	H	E	X	1/2	0.5	10	20	\$ 19.98	0.283	22	27.0	5/16	2.156	45	
PA	PS30			C	M	X	X	1/2	0.5	10	20	\$ 273.24	0.283	22	27.0	5/16	2.156	45	
PA	PS30			C	X	E	X	1/2	0.5	10	20	\$ 21.44	0.283	23	27.9	5/16	2.332	49	
PA	PS30			D	H	E	X	1/2	0.5	10	20	\$ 20.84	0.283	22	27.0	5/16	2.156	45	
PA	PS30			D	X	E	X	1/2	0.5	10	20	\$ 22.18	0.283	23	27.9	5/16	2.332	49	
PA	PS30			C	H	E	X	9/16	0.5625	10	20	\$ 20.84	0.283	22	27.0	5/16	2.367	49	
PA	PS30			C	X	E	X	9/16	0.5625	10	20	\$ 22.44	0.283	23	27.9	5/16	2.560	53	
PA	PS30			D	H	E	X	9/16	0.5625	10	20	\$ 21.70	0.283	22	27.0	5/16	2.367	49	
PA	PS30			D	X	E	X	9/16	0.5625	10	20	\$ 23.18	0.283	23	27.9	5/16	2.560	53	
PA	PS30			C	H	E	X	5/8	0.625	10	20	\$ 21.58	0.283	22	27.0	5/16	2.577	54	
PA	PS30			C	X	E	X	5/8	0.625	10	20	\$ 23.42	0.283	23	27.9	5/16	2.787	58	
PA	PS30			D	H	E	X	5/8	0.625	10	20	\$ 22.32	0.283	22	27.0	5/16	2.577	54	
PA	PS30			D	X	E	X	5/8	0.625	10	20	\$ 24.04	0.283	23	27.9	5/16	2.787	58	
PA	PS50			C	H	E	X	3/16	0.1875	5	20	\$ 10.36	0.283	23	44.3	5/16	0.948	21	
PA	PS50			C	X	E	X	3/16	0.1875	5	20	\$ 10.86	0.283	23	44.3	5/16	0.948	21	
PA	PS50			D	H	E	X	3/16	0.1875	5	20	\$ 10.86	0.283	23	44.3	5/16	0.948	21	
PA	PS50			D	X	E	X	3/16	0.1875	5	20	\$ 11.34	0.283	23	44.3	5/16	0.948	21	
PA	PS50			C	B	X	X	1/4	0.25	5	20	\$ 58.66	0.283	23	44.3	5/16	1.128	25	
PA	PS50			C	H	E	X	1/4	0.25	5	20	\$ 10.98	0.283	23	44.3	5/16	1.128	25	
PA	PS50			C	X	E	X	1/4	0.25	5	20	\$ 11.60	0.283	23	44.3	5/16	1.128	25	
PA	PS50			D	H	E	X	1/4	0.25	5	20	\$ 11.60	0.283	23	44.3	5/16	1.128	25	
PA	PS50			D	X	E	X	1/4	0.25	5	20	\$ 12.08	0.283	23	44.3	5/16	1.128	25	
PA	PS50			C	H	E	X	5/16	0.3125	5	20	\$ 11.72	0.283	23	44.3	5/16	1.308	28	
PA	PS50			C	X	E	X	5/16	0.3125	5	20	\$ 12.34	0.283	23	44.3	5/16	1.308	28	
PA	PS50			D	H	E	X	5/16	0.3125	5	20	\$ 12.34	0.283	23	44.3	5/16	1.308	28	
PA	PS50			D	X	E	X	5/16	0.3125	5	20	\$ 12.94	0.283	23	44.3	5/16	1.308	28	
PA	PS50			C	H	E	X	3/8	0.375	5	20	\$ 12.34	0.283	23	44.3	5/16	1.488	32	
PA	PS50			C	X	E	X	3/8	0.375	5	20	\$ 12.94	0.283	23	44.3	5/16	1.488	32	
PA	PS50			D	H	E	X	3/8	0.375	5	20	\$ 12.94	0.283	23	44.3	5/16	1.488	32	
PA	PS50			D	X	E	X	3/8	0.375	5	20	\$ 13.56	0.283	23	44.3	5/16	1.488	32	
PA	PS50			C	H	E	X	1/2	0.5	5	20	\$ 13.56	0.283	23	44.3	5/16	1.848	39	
PA	PS50			C	X	E	X	1/2	0.5	5	20	\$ 14.30	0.283	23	44.3	5/16	1.848	39	
PA	PS50			D	H	E	X	1/2	0.5	5	20	\$ 14.30	0.283	23	44.3	5/16	1.848	39	
PA	PS50			D	X	E	X	1/2	0.5	5	20	\$ 14.80	0.283	23	44.3	5/16	1.848	39	
PA	PS50			C	H	E	X	9/16	0.5625	5	20	\$ 14.30	0.283	23	44.3	5/16	2.028	43	
PA	PS50			C	X	E	X	9/16	0.5625	5	20	\$ 15.04	0.283	23	44.3	5/16	2.028	43	
PA	PS50			D	H	E	X	9/16	0.5625	5	20	\$ 15.04	0.283	23	44.3	5/16	2.028	43	
PA	PS50			D	X	E	X	9/16	0.5625	5	20	\$ 15.42	0.283	23	44.3	5/16	2.028	43	

	OLEM	Product	prods ec	prodt ert	P-oint	Matl	Fin	Coat	Leg. Frac	Leg. in.	M/ Bx	Bx /Cs	Retail Price	Crown Width, in. ID	Rolled thk, mils	calc length result, mils	Crown width, frac. OD	weight Lbs wire /box	Weight/c ase, lbs	Hump Y
	PA	PS50			C	H	E	X	5/8	0.625	5	20	\$ 15.04	0.283	23	44.3	5/16	2.208	46	
	PA	PS50			C	X	E	X	5/8	0.625	5	20	\$ 15.66	0.283	23	44.3	5/16	2.208	46	
	PA	PS50			D	H	E	X	5/8	0.625	5	20	\$ 15.66	0.283	23	44.3	5/16	2.208	46	
	PA	PS50			D	X	E	X	5/8	0.625	5	20	\$ 16.28	0.283	23	44.3	5/16	2.208	46	
	PA	PW30			C	H	E	X	3/16	0.1875	10	20	\$ 17.26	0.465	22	27.0	1/2	1.412	30	
	PA	PW30			C	X	E	X	3/16	0.1875	10	20	\$ 18.12	0.465	23	27.9	1/2	1.527	33	
	PA	PW30			D	H	E	X	3/16	0.1875	10	20	\$ 18.12	0.465	22	27.0	1/2	1.412	30	
	PA	PW30			D	X	E	X	3/16	0.1875	10	20	\$ 18.62	0.465	23	27.9	1/2	1.527	33	
	PA	PW30			C	H	E	X	1/4	0.25	10	20	\$ 18.00	0.465	22	27.0	1/2	1.622	34	
	PA	PW30			C	X	E	X	1/4	0.25	10	20	\$ 19.10	0.465	23	27.9	1/2	1.754	37	
	PA	PW30			D	H	E	X	1/4	0.25	10	20	\$ 19.10	0.465	22	27.0	1/2	1.622	34	
	PA	PW30			D	X	E	X	1/4	0.25	10	20	\$ 19.72	0.465	23	27.9	1/2	1.754	37	
	PA	PW30			C	H	E	X	5/16	0.3125	10	20	\$ 18.74	0.465	22	27.0	1/2	1.832	39	
	PA	PW30			C	X	E	X	5/16	0.3125	10	20	\$ 19.98	0.465	23	27.9	1/2	1.982	42	
	PA	PW30			D	H	E	X	5/16	0.3125	10	20	\$ 19.98	0.465	22	27.0	1/2	1.832	39	
	PA	PW30			D	X	E	X	5/16	0.3125	10	20	\$ 20.70	0.465	23	27.9	1/2	1.982	42	
	PA	PW30			C	H	E	X	3/8	0.375	10	20	\$ 19.60	0.465	22	27.0	1/2	2.042	43	
	PA	PW30			C	X	E	X	3/8	0.375	10	20	\$ 20.96	0.465	23	27.9	1/2	2.209	46	
	PA	PW30			D	H	E	X	3/8	0.375	10	20	\$ 20.96	0.465	22	27.0	1/2	2.042	43	
	PA	PW30			D	X	E	X	3/8	0.375	10	20	\$ 21.58	0.465	23	27.9	1/2	2.209	46	
	PA	PW30			C	H	E	X	1/2	0.5	10	20	\$ 21.20	0.465	22	27.0	1/2	2.462	51	
	PA	PW30			C	X	E	X	1/2	0.5	10	20	\$ 22.80	0.465	23	27.9	1/2	2.663	55	
	PA	PW30			D	H	E	X	1/2	0.5	10	20	\$ 22.80	0.465	22	27.0	1/2	2.462	51	
	PA	PW30			D	X	E	X	1/2	0.5	10	20	\$ 23.42	0.465	23	27.9	1/2	2.663	55	
	PA	PW50			C	H	E	X	3/16	0.1875	5	20	\$ 11.34	0.465	23	44.3	1/2	1.210	26	
	PA	PW50			C	X	E	X	3/16	0.1875	5	20	\$ 11.96	0.465	23	44.3	1/2	1.210	26	
	PA	PW50			D	H	E	X	3/16	0.1875	5	20	\$ 11.96	0.465	23	44.3	1/2	1.210	26	
	PA	PW50			D	X	E	X	3/16	0.1875	5	20	\$ 12.46	0.465	23	44.3	1/2	1.210	26	
	PA	PW50			C	H	E	X	1/4	0.25	5	20	\$ 12.08	0.465	22	46.3	1/2	1.390	30	
	PA	PW50			C	X	E	X	1/4	0.25	5	20	\$ 12.58	0.465	22	46.3	1/2	1.390	30	
	PA	PW50			D	H	E	X	1/4	0.25	5	20	\$ 12.58	0.465	22	46.3	1/2	1.390	30	
	PA	PW50			D	X	E	X	1/4	0.25	5	20	\$ 13.08	0.465	22	46.3	1/2	1.390	30	
	PA	PW50			C	H	E	X	5/16	0.3125	5	20	\$ 12.70	0.465	23	44.3	1/2	1.570	33	
	PA	PW50			C	X	E	X	5/16	0.3125	5	20	\$ 13.32	0.465	23	44.3	1/2	1.570	33	
	PA	PW50			D	H	E	X	5/16	0.3125	5	20	\$ 13.32	0.465	23	44.3	1/2	1.570	33	
	PA	PW50			D	S	X	X	5/16	0.3125	5	20	\$ 91.08	0.465	23	44.3	1/2	1.570	33	
	PA	PW50			D	X	E	X	5/16	0.3125	5	20	\$ 13.80	0.465	23	44.3	1/2	1.570	33	
	PA	PW50			C	H	E	X	3/8	0.375	5	20	\$ 13.44	0.465	23	44.3	1/2	1.750	37	
	PA	PW50			C	X	E	X	3/8	0.375	5	20	\$ 13.94	0.465	23	44.3	1/2	1.750	37	
	PA	PW50			D	H	E	X	3/8	0.375	5	20	\$ 13.80	0.465	23	44.3	1/2	1.750	37	
	PA	PW50			D	S	X	X	3/8	0.375	5	20	\$ 93.84	0.465	23	44.3	1/2	1.750	37	
	PA	PW50			D	X	E	X	3/8	0.375	5	20	\$ 14.54	0.465	23	44.3	1/2	1.750	37	
	PA	PW50			C	H	E	X	1/2	0.5	5	15	\$ 14.54	0.465	23	44.3	1/2	2.110	34	
	PA	PW50			C	X	E	X	1/2	0.5	5	15	\$ 15.42	0.465	23	44.3	1/2	2.110	34	
	PA	PW50			D	H	E	X	1/2	0.5	5	15	\$ 15.42	0.465	23	44.3	1/2	2.110	34	
	PA	PW50			D	S	X	X	1/2	0.5	5	15	\$ 104.88	0.465	23	44.3	1/2	2.110	34	
	PA	PW50			D	X	E	X	1/2	0.5	5	15	\$ 16.02	0.465	23	44.3	1/2	2.110	34	
	PA	PW50			C	H	E	X	9/16	0.5625	5	15	\$ 15.28	0.465	23	44.3	1/2	2.290	36	
	PA	PW50			C	X	E	X	9/16	0.5625	5	15	\$ 16.02	0.465	23	44.3	1/2	2.290	36	
	PA	PW50			D	H	E	X	9/16	0.5625	5	15	\$ 16.02	0.465	23	44.3	1/2	2.290	36	
	PA	PW50			D	X	E	X	9/16	0.5625	5	15	\$ 16.76	0.465	23	44.3	1/2	2.290	36	
	PA	W60			C	H	E	X	1/4	0.25	5	20	\$ 19.72	0.465	23	60.2	1/2	1.892	40	
	PA	W60			C	H	E	X	3/8	0.375	5	20	\$ 21.44	0.465	23	60.2	1/2	2.382	50	
	PA	W60			C	H	E	X	1/2	0.5	5	16	\$ 23.18	0.465	23	60.2	1/2	2.872	48	
	RA	13	/4		C	C	E	X	5/32	0.15625	5	35	\$ 7.28	0.38	23	23.1	13/32	0.520	20	
	RA	13	/6		C	C	E	X	1/4	0.25	5	35	\$ 7.28	0.38	23	23.1	13/32	0.661	25	
	RO	10	-110		C	H	E	X	3/8	0.375	5	20	\$ 13.32	0.38	21	48.5	13/32	1.627	35	
	RO	10	-111		C	H	E	X	5/16	0.3125	5	20	\$ 12.82	0.38	22	46.3	13/32	1.447	31	
	RO	10	-210		D	H	E	X	3/8	0.375	5	20	\$ 13.68	0.38	21	48.5	13/32	1.627	35	
	RO	10	-211		D	H	E	X	5/16	0.3125	5	20	\$ 13.32	0.38	22	46.3	13/32	1.447	31	
	RO	37-041			C	H	E	X	5/16	0.3125	5	20	\$ 8.88	0.47	19	22.8	1/2	0.672	15	

	OEM	Product	prods ec	prod ert	P-oint	Matl	Fin	Coat	Leg. Frac	Leg. in.	M/ Bx	Bx /Cs	Retail Price	Crown Width, in. ID	Rolled thk, mils	calc length result, mils	Crown width, frac. OD	weight Lbs wire /box	Weight/c ase, lbs	Hump Y
		SE 3 (B)			C	H	E	X	3/16	0.1875	5	20	\$ 9.38	0.465	20	26.5	1/2	0.631	15	
		SE 3 (B)			D	H	E	X	3/16	0.1875	5	20	\$ 9.74	0.465	20	26.5	1/2	0.631	15	
		SE 3 (B)	-14	A	C	H	E	X	1/4	0.25	10	20	\$ 18.74	0.465	20	26.5	1/2	1.450	31	
		SE 3 (B)			C	H	E	X	1/4	0.25	5	20	\$ 9.74	0.465	20	26.5	1/2	0.725	16	
		SE 3 (B)	-14	A	D	H	E	X	1/4	0.25	10	20	\$ 19.72	0.465	20	26.5	1/2	1.450	31	
		SE 3 (B)			D	H	E	X	1/4	0.25	5	20	\$ 10.00	0.465	20	26.5	1/2	0.725	16	
		SE 3 (B)			C	H	E	X	5/16	0.3125	5	20	\$ 10.00	0.465	20	26.5	1/2	0.819	18	
		SE 3 (B)	-516	A	C	H	E	X	5/16	0.3125	10	20	\$ 19.48	0.465	20	26.5	1/2	1.638	35	
		SE 3 (B)			D	H	E	X	5/16	0.3125	5	20	\$ 10.24	0.465	20	26.5	1/2	0.819	18	
		SE 3 (B)	.516	A	D	H	E	X	5/16	0.3125	10	20	\$ 20.22	0.465	20	26.5	1/2	1.638	35	
		SE 3 (B)	-38	A	C	H	E	X	3/8	0.375	10	20	\$ 19.84	0.465	20	26.5	1/2	1.825	39	
		SE 3 (B)	-38	A	D	H	E	X	3/8	0.375	10	20	\$ 20.34	0.465	20	26.5	1/2	1.825	39	
		SE 3 (B)	-12	A	C	H	E	X	1/2	0.5	10	20	\$ 21.08	0.465	20	26.5	1/2	2.201	46	
		SE 3 (B)	-12	A	D	H	E	X	1/2	0.5	10	20	\$ 21.82	0.465	20	26.5	1/2	2.201	46	
		SE 3 (C)	-532	G	D	H	E	X	5/32	0.15625	10	20	\$ 17.02	0.315	20	26.5	11/32	0.943	21	
		SE 3 (C)	-316	G	C	H	E	X	3/16	0.1875	10	20	\$ 17.26	0.315	20	26.5	11/32	1.037	23	
		SE 3 (C)	-316	G	D	H	E	X	3/16	0.1875	10	20	\$ 17.76	0.315	20	26.5	11/32	1.037	23	
		SE 3 (C)	-732	G	D	H	E	X	7/32	0.21875	9.7	20	\$ 17.50	0.315	20	26.5	11/32	1.097	24	
		SE 3 (C)	-14	G	C	H	E	X	1/4	0.25	10	20	\$ 17.88	0.315	20	26.5	11/32	1.225	26	
		SE 3 (C)	-14	G	D	H	E	X	1/4	0.25	10	20	\$ 18.36	0.315	20	26.5	11/32	1.225	26	
		SE 3 (C)	-516	G	C	H	E	X	5/16	0.3125	10	20	\$ 18.50	0.315	20	26.5	11/32	1.412	30	
		SE 3 (C)	-516	G	D	H	E	X	5/16	0.3125	10	20	\$ 18.86	0.315	20	26.5	11/32	1.412	30	
		SE 3 (C)	-38	G	C	H	E	X	3/8	0.375	10	20	\$ 19.24	0.315	20	26.5	11/32	1.600	34	
		SE 3 (C)	-38	G	D	H	E	X	3/8	0.375	10	20	\$ 19.72	0.315	20	26.5	11/32	1.600	34	
		SE 3 (C)	-12	G	C	H	E	X	1/2	0.5	10	20	\$ 20.34	0.315	20	26.5	11/32	1.976	42	
		SE 3 (C)	-12	G	D	H	E	X	1/2	0.5	10	20	\$ 20.70	0.315	20	26.5	11/32	1.976	42	
		SE 3 (C)	-58	G	C	H	E	X	5/8	0.625	10	20	\$ 21.58	0.315	20	26.5	11/32	2.351	49	
		SE 3 (C)	-58	G	D	H	E	X	5/8	0.625	10	20	\$ 21.94	0.315	20	26.5	11/32	2.351	49	
		SE 4 (H)	-14	H	C	H	E	X	1/4	0.25	5	20	\$ 12.08	0.38	21	48.5	13/32	1.267	27	
		SE 4 (H)	-14	H	D	H	E	X	1/4	0.25	5	20	\$ 12.58	0.38	21	48.5	13/32	1.267	27	
		SE 4 (H)	-516	H	C	H	E	X	5/16	0.3125	5	20	\$ 12.82	0.38	22	46.3	13/32	1.447	31	
		SE 4 (H)	-516	H	D	H	E	X	5/16	0.3125	5	20	\$ 13.32	0.38	22	46.3	13/32	1.447	31	
		SE 4 (H)	-38	H	C	H	E	X	3/8	0.375	5	20	\$ 13.32	0.38	21	48.5	13/32	1.627	35	
		SE 4 (H)	-38	H	D	H	E	X	3/8	0.375	5	20	\$ 13.68	0.38	21	48.5	13/32	1.627	35	
		SE 45 (G)	-14	G	C	H	E	X	1/4	0.25	5	20	\$ 10.50	0.315	21	38.3	11/32	0.927	21	
		SE 45 (G)	-14	G	D	H	E	X	1/4	0.25	5	20	\$ 10.66	0.315	21	38.3	11/32	0.927	21	
		SE 45 (G)	-516	G	C	H	E	X	5/16	0.3125	5	20	\$ 10.96	0.315	21	38.3	11/32	1.070	23	
		SE 45 (G)	-516	G	D	H	E	X	5/16	0.3125	5	20	\$ 11.10	0.315	21	38.3	11/32	1.070	23	
		SE 45 (G)	-38	G	C	H	E	X	3/8	0.375	5	20	\$ 11.44	0.315	21	38.3	11/32	1.212	26	
		SE 45 (G)	-38	G	D	H	E	X	3/8	0.375	5	20	\$ 11.60	0.315	21	38.3	11/32	1.212	26	
		SE 45 (G)	-12	G	C	H	E	X	1/2	0.5	5	20	\$ 12.20	0.315	21	38.3	11/32	1.496	32	
		SE 45 (G)	-12	G	D	H	E	X	1/2	0.5	5	20	\$ 12.66	0.315	21	38.3	11/32	1.496	32	
		SE 5 (F)			C	H	E	X	1/4	0.25	5	25	\$ 12.08	0.465	22	46.3	1/2	1.390	37	
		SE 5 (F)			C	X	E	X	1/4	0.25	5	20	\$ 12.58	0.465	22	46.3	1/2	1.390	30	
		SE 5 (F)			D	H	E	X	1/4	0.25	5	20	\$ 12.58	0.465	22	46.3	1/2	1.390	30	
		SE 5 (F)			D	X	E	X	1/4	0.25	5	20	\$ 13.08	0.465	22	46.3	1/2	1.390	30	
		SE 5 (F)			C	H	E	X	5/16	0.3125	5	20	\$ 12.70	0.465	20	50.9	1/2	1.570	33	
		SE 5 (F)			C	X	E	X	5/16	0.3125	5	20	\$ 13.32	0.465	20	50.9	1/2	1.570	33	
		SE 5 (F)			D	H	E	X	5/16	0.3125	5	20	\$ 13.32	0.465	20	50.9	1/2	1.570	33	
		SE 5 (F)			D	S	X	X	5/16	0.3125	5	20	\$ 91.08	0.465	20	50.9	1/2	1.570	33	
		SE 5 (F)			D	X	E	X	5/16	0.3125	5	20	\$ 13.80	0.465	20	50.9	1/2	1.570	33	
		SE 5 (F)			C	H	E	X	3/8	0.375	5	20	\$ 13.44	0.465	20	50.9	1/2	1.750	37	
		SE 5 (F)			C	X	E	X	3/8	0.375	5	20	\$ 13.94	0.465	20	50.9	1/2	1.750	37	
		SE 5 (F)			D	H	E	X	3/8	0.375	5	20	\$ 13.80	0.465	20	50.9	1/2	1.750	37	
		SE 5 (F)			D	X	E	X	3/8	0.375	5	20	\$ 14.54	0.465	20	50.9	1/2	1.750	37	
		SE 5 (F)			C	H	E	X	1/2	0.5	5	20	\$ 14.54	0.465	20	50.9	1/2	2.110	44	
		SE 5 (F)			C	X	E	X	1/2	0.5	5	20	\$ 15.42	0.465	20	50.9	1/2	2.110	44	
		SE 5 (F)			D	H	E	X	1/2	0.5	5	20	\$ 15.42	0.465	20	50.9	1/2	2.110	44	
		SE 5 (F)			D	X	E	X	1/2	0.5	5	20	\$ 16.02	0.465	20	50.9	1/2	2.110	44	
		SE 75 (J)			C	H	E	X	3/8	0.375	5	20	\$ 17.38	0.43	20	76.7	15/32	2.440	51	
		SE 75 (J)			C	H	E	X	1/2	0.5	5	20	\$ 19.36	0.43	20	76.7	15/32	2.957	61	

	OEM	Product	prods ec	prodt ert	P-oint	Matl	Fin	Coat	Leg. Frac	Leg. in.	M/ Bx	Bx /Cs	Retail Price	Crown Width, in. ID	Rolled thk, mils	calc length result, mils	Crown width, frac. OD	weight Lbs wire /box	Weight/c ase, lbs	Hump Y
	SE	75 (J)			C	H	E	X	5/8	0.625	5	20	\$ 21.32	0.43	20	76.7	15/32	3.474	71	
	SE	G4450 (M)			C	H	E	X	1/2	0.5	5	10	\$ 16.76	0.315	38	43.7	3/8	3.092	33	
	SE	G4450 (M)			C	H	E	X	5/8	0.625	5	10	\$ 18.62	0.315	38	43.7	3/8	3.680	39	
	SE	G4450 (M)			C	H	E	X	3/4	0.75	5	10	\$ 21.64	0.315	38	43.7	3/8	4.268	45	
	SE	G4450 (M)			C	H	E	X	7/8	0.875	5	10	\$ 23.14	0.315	38	43.7	3/8	4.856	51	
	SE	G4450 (M)			C	H	E	X	1	1	2.5	10	\$ 16.02	0.315	38	43.7	3/8	2.722	29	
	SE	N3 (A)			C	H	E	X	3/16	0.1875	10	20	\$ 17.88	0.142	20	26.5	5/32	0.777	18	
	SE	N3 (A)			C	X	E	X	3/16	0.1875	10	20	\$ 19.24	0.142	21	30.6	5/32	0.940	21	
	SE	N3 (A)			D	H	E	X	3/16	0.1875	10	20	\$ 19.24	0.142	20	26.5	5/32	0.777	18	
	SE	N3 (A)			D	X	E	X	3/16	0.1875	10	20	\$ 19.98	0.142	21	30.6	5/32	0.940	21	
	SE	N3 (A)			C	H	E	X	1/4	0.25	10	20	\$ 18.50	0.142	20	26.5	5/32	0.965	21	
	SE	N3 (A)			C	X	E	X	1/4	0.25	10	20	\$ 20.10	0.142	21	30.6	5/32	1.167	25	
	SE	N3 (A)			D	H	E	X	1/4	0.25	10	20	\$ 20.10	0.142	20	26.5	5/32	0.965	21	
	SE	N3 (A)			D	X	E	X	1/4	0.25	10	20	\$ 20.96	0.142	21	30.6	5/32	1.167	25	
	SE	N3 (A)			C	H	E	X	3/8	0.375	5	20	\$ 10.24	0.142	20	26.5	5/32	0.670	15	
	SE	N3 (A)			C	X	E	X	3/8	0.375	5	20	\$ 11.34	0.142	21	30.6	5/32	0.811	18	
	SE	N3 (A)			D	H	E	X	3/8	0.375	5	20	\$ 11.34	0.142	20	26.5	5/32	0.670	15	
	SE	N3 (A)			D	X	E	X	3/8	0.375	5	20	\$ 11.84	0.142	21	30.6	5/32	0.811	18	
	SE	N3 (A)			B	H	E	X	1/2	0.5	5	20	\$ 10.86	0.142	20	26.5	5/32	0.858	19	
	SE	N3 (A)			B	X	E	X	1/2	0.5	4.3	20	\$ 11.72	0.142	21	30.6	5/32	0.893	20	
	SE	N3 (A)			D	H	E	X	1/2	0.5	5	20	\$ 11.72	0.142	20	26.5	5/32	0.858	19	
	SE	N3 (A)			D	X	E	X	1/2	0.5	5	20	\$ 12.82	0.142	21	30.6	5/32	1.038	23	
	SE	N3045 (K)			C	H	E	X	1/2	0.5	5	10	\$ 17.88	0.142	29	43.3	3/16	2.031	22	
	SE	N3045 (K)			C	H	E	X	5/8	0.625	5	10	\$ 19.24	0.142	29	43.3	3/16	2.475	27	
	SE	N3045 (K)			D	H	E	X	5/8	0.625	5	10	\$ 19.72	0.142	29	43.3	3/16	2.475	27	
	SE	N3045 (K)			C	H	E	X	3/4	0.75	5	10	\$ 20.70	0.142	29	43.3	3/16	2.920	31	
	SE	N3045 (K)			D	H	E	X	3/4	0.75	5	10	\$ 21.20	0.142	29	43.3	3/16	2.920	31	
	SE	N3045 (K)			C	H	E	X	7/8	0.875	5	10	\$ 22.18	0.142	29	43.3	3/16	3.364	36	
	SE	N3045 (K)			D	H	E	X	7/8	0.875	5	10	\$ 22.80	0.142	29	43.3	3/16	3.364	36	
	SE	N3045 (K)			C	H	E	X	1	1	5	10	\$ 23.78	0.142	29	43.3	3/16	3.809	40	
	SE	N3045 (K)			D	H	E	X	1	1	5	10	\$ 24.40	0.142	29	43.3	3/16	3.809	40	
	SE	N3045 (K)			C	H	E	X	1-1/8	1.125	5	10	\$ 25.26	0.142	29	43.3	3/16	4.253	45	
	SE	N3045 (K)			D	H	E	X	1-1/8	1.125	5	10	\$ 26.14	0.142	29	43.3	3/16	4.253	45	
	SE	N4450 (L)			C	C	E	X	5/16	0.3125	5	28	\$ 13.56	0.142	38	43.7	3/16	1.804	53	
	SE	N4450 (L)			C	H	E	X	5/16	0.3125	5	28	\$ 14.18	0.142	38	43.7	3/16	1.804	53	
	SE	N4450 (L)			C	H	E	X	3/8	0.375	10	20	\$ 27.74	0.142	38	43.7	3/16	4.195	86	
	SE	N4450 (L)			D	H	E	X	3/8	0.375	10	20	\$ 28.34	0.142	38	43.7	3/16	4.195	86	
	SE	N4450 (L)			C	H	E	X	1/2	0.5	5	10	\$ 15.54	0.142	38	43.7	3/16	2.685	29	
	SE	N4450 (L)			D	H	E	X	1/2	0.5	5	10	\$ 16.16	0.142	38	43.7	3/16	2.685	29	
	SE	N4450 (L)			C	H	E	X	5/8	0.625	5	10	\$ 17.88	0.142	38	43.7	3/16	3.273	35	
	SE	N4450 (L)			C	X	E	X	5/8	0.625	5	10	\$ 19.24	0.142	38	43.7	3/16	3.273	35	
	SE	N4450 (L)			D	H	E	X	5/8	0.625	5	10	\$ 19.24	0.142	38	43.7	3/16	3.273	35	
	SE	N4450 (L)			D	X	E	X	5/8	0.625	5	10	\$ 19.98	0.142	38	43.7	3/16	3.273	35	
	SE	N4450 (L)			C	H	E	X	3/4	0.75	5	10	\$ 19.64	0.142	38	43.7	3/16	3.861	41	
	SE	N4450 (L)			C	X	E	X	3/4	0.75	5	10	\$ 21.44	0.142	38	43.7	3/16	3.861	41	
	SE	N4450 (L)			D	H	E	X	3/4	0.75	5	10	\$ 20.10	0.142	38	43.7	3/16	3.861	41	
	SE	N4450 (L)			D	X	E	X	3/4	0.75	5	10	\$ 22.18	0.142	38	43.7	3/16	3.861	41	
	SE	N4450 (L)			C	H	E	X	7/8	0.875	5	10	\$ 21.64	0.142	38	43.7	3/16	4.449	46	
	SE	N4450 (L)			C	X	E	X	7/8	0.875	5	10	\$ 23.66	0.142	38	43.7	3/16	4.449	46	
	SE	N4450 (L)			D	H	E	X	7/8	0.875	5	10	\$ 22.08	0.142	38	43.7	3/16	4.449	46	
	SE	N4450 (L)			D	X	E	X	7/8	0.875	5	10	\$ 24.40	0.142	38	43.7	3/16	4.449	46	
	SE	N4450 (L)			C	H	E	X	1	1	5	10	\$ 23.00	0.142	38	43.7	3/16	5.037	52	
	SE	N4450 (L)			C	X	E	X	1	1	5	10	\$ 25.88	0.142	38	43.7	3/16	5.037	52	
	SE	N4450 (L)			C	H	E	X	1-1/8	1.125	5	10	\$ 25.14	0.142	38	43.7	3/16	5.625	58	
	SE	N4450 (L)			C	X	E	X	1-1/8	1.125	5	10	\$ 27.86	0.142	38	43.7	3/16	5.625	58	
	SE	N4450 (L)			C	H	E	X	1-1/4	1.25	5	8	\$ 27.00	0.142	38	43.7	3/16	6.213	52	
	SE	N4450 (L)			C	X	E	X	1-1/4	1.25	5	8	\$ 29.82	0.142	38	43.7	3/16	6.213	52	
	SE	N5 (E)			C	H	E	X	3/16	0.1875	10	20	\$ 21.94	0.142	20	50.9	5/32	1.489	32	
	SE	N5 (E)			C	X	E	X	3/16	0.1875	10	20	\$ 22.56	0.142	20	50.9	5/32	1.489	32	
	SE	N5 (E)			D	H	E	X	3/16	0.1875	10	20	\$ 22.56	0.142	20	50.9	5/32	1.489	32	
	SE	N5 (E)			D	X	E	X	3/16	0.1875	10	20	\$ 23.18	0.142	20	50.9	5/32	1.489	32	

	OEM	Product	prods ec	prodt ert	P-oint	Matl	Fin	Coat	Leg. Frac	Leg. in.	M/ Bx	Bx /Cs	Retail Price	Crown Width, in. ID	Rolled thk, mils	calc length result, mils	Crown width, frac. OD	weight Lbs wire /box	Weight/c ase, lbs	Hump Y
	SE	N5 (E)			C	H	E	X	1/4	0.25	10	20	\$ 23.18	0.142	20	50.9	5/32	1.849	39	
	SE	N5 (E)			C	X	E	X	1/4	0.25	10	20	\$ 23.78	0.142	20	50.9	5/32	1.849	39	
	SE	N5 (E)			D	H	E	X	1/4	0.25	10	20	\$ 23.78	0.142	20	50.9	5/32	1.849	39	
	SE	N5 (E)			D	X	E	X	1/4	0.25	10	20	\$ 24.40	0.142	20	50.9	5/32	1.849	39	
	SE	N5 (E)			C	H	E	X	3/8	0.375	10	20	\$ 25.64	0.142	20	50.9	5/32	2.569	53	
	SE	N5 (E)			C	X	E	X	3/8	0.375	10	20	\$ 26.62	0.142	20	50.9	5/32	2.569	53	
	SE	N5 (E)			D	H	E	X	3/8	0.375	10	20	\$ 26.62	0.142	20	50.9	5/32	2.569	53	
	SE	N5 (E)			D	X	E	X	3/8	0.375	10	20	\$ 27.60	0.142	20	50.9	5/32	2.569	53	
	SE	N5 (E)			C	H	E	X	1/2	0.5	10	20	\$ 28.34	0.142	20	50.9	5/32	3.289	68	
	SE	N5 (E)			C	X	E	X	1/2	0.5	10	20	\$ 29.58	0.142	20	50.9	5/32	3.289	68	
	SE	N5 (E)			D	H	E	X	1/2	0.5	10	20	\$ 29.58	0.142	20	50.9	5/32	3.289	68	
	SE	N5 (E)			D	X	E	X	1/2	0.5	10	20	\$ 30.44	0.142	20	50.9	5/32	3.289	68	
	SE	N5 (E)			C	H	E	X	5/8	0.625	5	20	\$ 19.72	0.142	20	50.9	5/32	2.005	42	
	SE	N5 (E)			C	X	E	X	5/8	0.625	5	20	\$ 20.46	0.142	20	50.9	5/32	2.005	42	
	SE	N5 (E)			D	H	E	X	5/8	0.625	5	20	\$ 20.46	0.142	20	50.9	5/32	2.005	42	
	SE	N5 (E)			D	X	E	X	5/8	0.625	5	20	\$ 21.20	0.142	20	50.9	5/32	2.005	42	
	SP	38	04		C	H	E	X	1/2	0.5	5	20	\$ 16.76	0.1	38	43.7	5/32	2.587	54	
	SP	38	04		D	H	E	X	1/2	0.5	5	20	\$ 17.06	0.1	38	43.7	5/32	2.587	54	
	SP	38	05		C	H	E	X	5/8	0.625	5	20	\$ 18.50	0.1	38	43.7	5/32	3.174	65	
	SP	38	05		D	H	E	X	5/8	0.625	5	20	\$ 19.24	0.1	38	43.7	5/32	3.174	65	
	SP	38	06		C	H	E	X	3/4	0.75	5	10	\$ 20.42	0.1	38	43.7	5/32	3.762	40	
	SP	38	06		D	H	E	X	3/4	0.75	5	10	\$ 20.86	0.1	38	43.7	5/32	3.762	40	
	SP	38	07		C	H	E	X	7/8	0.875	5	10	\$ 22.18	0.1	38	43.7	5/32	4.350	46	
	SP	38	07		D	H	E	X	7/8	0.875	5	10	\$ 22.80	0.1	38	43.7	5/32	4.350	46	
	SP	38	08		C	H	E	X	1	1	5	10	\$ 24.28	0.1	38	43.7	5/32	4.938	51	
	SP	38	08		D	H	E	X	1	1	5	10	\$ 24.90	0.1	38	43.7	5/32	4.938	51	
	SP	38	09		C	H	E	X	1-1/8	1.125	5	10	\$ 26.14	0.1	38	43.7	5/32	5.526	57	
	SP	44			C	H	E	X	1/2	0.5	5	20	\$ 16.76	0.1	38	43.7	5/32	2.587	54	
	SP	44			D	H	E	X	1/2	0.5	5	20	\$ 17.06	0.1	38	43.7	5/32	2.587	54	
	SP	55			C	H	E	X	5/8	0.625	5	20	\$ 18.50	0.1	38	43.7	5/32	3.174	65	
	SP	55			D	H	E	X	5/8	0.625	5	20	\$ 19.36	0.1	38	43.7	5/32	3.174	65	
	SP	66			C	H	E	X	3/4	0.75	5	10	\$ 20.42	0.1	38	43.7	5/32	3.762	40	
	SP	66			D	H	E	X	3/4	0.75	5	10	\$ 20.86	0.1	38	43.7	5/32	3.762	40	
	SP	77			D	H	E	X	13/16	0.8125	5	10	\$ 22.18	0.1	38	43.7	5/32	4.056	43	
	SP	77			C	H	E	X	7/8	0.875	5	10	\$ 22.18	0.1	38	43.7	5/32	4.350	46	
	SP	77			D	H	E	X	7/8	0.875	5	10	\$ 23.42	0.1	38	43.7	5/32	4.350	46	
	SP	88			C	H	E	X	1	1	5	10	\$ 23.92	0.1	38	43.7	5/32	4.938	51	
	SP	88			D	H	E	X	1	1	5	10	\$ 24.66	0.1	38	43.7	5/32	4.938	51	
	SP	99			C	H	E	X	1-1/8	1.125	5	10	\$ 26.50	0.1	38	43.7	5/32	5.526	57	
	ST	STD			B	C	E	X	1/4	0.25	5	100	\$ 3.58	0.47	18	16.3	1/2	0.402	42	
	ST	STD			B	C	L	X	1/4	0.25	5	100	\$ 6.42	0.47	18	16.3	1/2	0.402	42	
	ST	STD			B	S	X	X	1/4	0.25	5	100	\$ 22.22	0.47	18	16.3	1/2	0.402	42	
	ST	STD			B	M	X	X	1/4	0.25	5	100	\$ 57.28	0.47	18	16.3	1/2	0.402	42	
	ST	STD			N	C	E	X	1/4	0.25	5	100	\$ 6.18	0.47	18	16.3	1/2	0.402	42	
	ST	STD			N	M	X	X	1/4	0.25	5	100	\$ 79.36	0.47	18	16.3	1/2	0.402	42	
	ST	STD			C	C	E	X	5/16	0.3125	5	50	\$ 5.84	0.47	18	16.3	1/2	0.453	25	
	SW	101			D	C	E	X	1/4	0.25	1	100	\$ 3.34	0.465	20	26.5	1/2	0.145	16	
	SW	101			D	C	E	X	5/16	0.3125	1	100	\$ 3.46	0.465	20	26.5	1/2	0.164	18	
	SW	316			C	C	E	X	3/16	0.1875	5	40	\$ 9.00	0.465	20	26.5	1/2	0.631	27	
	SW	316			D	C	E	X	3/16	0.1875	5	40	\$ 9.12	0.465	20	26.5	1/2	0.631	27	
	SW	416			C	C	E	X	1/4	0.25	5	40	\$ 9.00	0.465	20	26.5	1/2	0.725	31	
	SW	416			D	C	E	X	1/4	0.25	5	40	\$ 9.38	0.465	20	26.5	1/2	0.725	31	
	SW	516			C	C	E	X	5/16	0.3125	5	40	\$ 9.62	0.465	20	26.5	1/2	0.819	35	
	SW	516			D	C	E	X	5/16	0.3125	5	40	\$ 9.86	0.465	20	26.5	1/2	0.819	35	
	SW	904			C	H	E	X	1/4	0.25	5	20	\$ 12.08	0.465	22	46.3	1/2	1.390	30	
	SW	904			D	H	E	X	1/4	0.25	5	20	\$ 12.58	0.465	22	46.3	1/2	1.390	30	
	SW	905			C	H	E	X	5/16	0.3125	5	20	\$ 12.70	0.465	20	50.9	1/2	1.570	33	
	SW	905			D	H	E	X	5/16	0.3125	5	20	\$ 13.32	0.465	20	50.9	1/2	1.570	33	
	SW	906			C	H	E	X	3/8	0.375	5	20	\$ 13.44	0.465	20	50.9	1/2	1.750	37	
	SW	906			D	H	E	X	3/8	0.375	5	20	\$ 13.80	0.465	20	50.9	1/2	1.750	37	
	SW	908			C	H	E	X	1/2	0.5	5	20	\$ 14.54	0.465	20	50.9	1/2	2.110	44	

	OEM	Product	prods ec	prodt ert	Point	Matl	Fin	coat	Leg, Frac	Leg, in.	M/ Bx	Bx /Cs	Retail Price	Crown Width, in. ID	Rolled thk, mils	calc length result, mils	Crown width, frac. OD	weight Lbs wire /box	Weight/c ase, lbs	Hump Y
	SW	908			D	H	E	X	1/2	0.5	5	20	\$ 15.42	0.465	20	50.9	1/2	2.110	44	
	SW	909			C	H	E	X	9/16	0.5625	5	16	\$ 15.28	0.465	20	50.9	1/2	2.290	39	
	SW	909			D	H	E	X	9/16	0.5625	5	16	\$ 16.02	0.465	20	50.9	1/2	2.290	39	
	SW	SF13			C	H	E	X	1/4	0.25	5	30	\$ 9.86	0.465	20	26.5	1/2	0.725	24	
	SW	SF13			C	H	E	X	3/8	0.375	5	30	\$ 10.48	0.465	20	26.5	1/2	0.913	29	
	SW	SF13			C	X	E	X	3/8	0.375	5	30	\$ 11.72	0.465	20	32.1	1/2	1.104	35	
	SW	SF13			C	H	E	X	1/2	0.5	5	30	\$ 11.10	0.465	20	26.5	1/2	1.101	35	

Code	Parent Type	<a href="#">Instr</a>	<a href="#">Cat</a>
AC	ACE-type Product		
AM	AMERICAN-type Product		
AR	ARROW-type Product		
AT	ATRO-type Product		
BA	BATES-type Product		
BE	BEA-type Product		
BO	BOSTITCH-type Product		
CR	CRAIN-type Product		
DU	DUO-FAST-type Product		
HA	HAUBOLD-type Product		
HE	HELLER-type Product		
IN	INDUSTRIA-type Product		
JK	JK-type Product		
KL	KLINGTITE-type Product		
MA	MARKWELL-type Product		
NE	NEVA-CLOG-type Product		
PA	PASLODE-type Product		
RA	RAPID-type Product		
RO	ROBERTS-type Product		
SE	SENCO-type Product		
SP	SPOTNAIL-type Product		
ST	STANDARD-type Product		
SW	SWINGLINE-type Product		

Leg, in.	32nds	In.	Leg, in.	mm	<a href="#">Instr</a>	<a href="#">Cat</a>
1/8	4	0.125	1/8	3.175		
5/32	5	0.15625	5/32	3.96875		
3/16	6	0.1875	3/16	4.7625		
7/32	7	0.21875	7/32	5.55625		
1/4	8	0.25	1/4	6.35		
9/32	9	0.28125	9/32	7.14375		
19/64		0.295	19/64	7.493		
5/16	10	0.3125	5/16	7.9375		
11/32	11	0.34375	11/32	8.73125		
3/8	12	0.375	3/8	9.525		
13/32	13	0.40625	13/32	10.31875		
7/16	14	0.4375	7/16	11.1125		
15/32	15	0.46875	15/32	11.90625		
1/2	16	0.5	1/2	12.7		
17/32	17	0.53125	17/32	13.49375		
9/16	18	0.5625	9/16	14.2875		
19/32	19	0.59375	19/32	15.08125		
5/8	20	0.625	5/8	15.875		
21/32	21	0.65625	21/32	16.66875		
11/16	22	0.6875	11/16	17.4625		
23/32	23	0.71875	23/32	18.25625		
3/4	24	0.75	3/4	19.05		
25/32	25	0.78125	25/32	19.84375		
13/16	26	0.8125	13/16	20.6375		
27/32	27	0.84375	27/32	21.43125		
7/8	28	0.875	7/8	22.225		
29/32	29	0.90625	29/32	23.01875		
15/16	30	0.9375	15/16	23.8125		
31/32	31	0.96875	31/32	24.60625		
1	32	1	1	25.4		
1-1/32	33	1.03125	1-1/32	26.19375		
1-1/16	34	1.0625	1-1/16	26.9875		
1-3/32	35	1.09375	1-3/32	27.78125		
1-1/8	36	1.125	1-1/8	28.575		
1-5/32	37	1.15625	1-5/32	29.36875		
1-3/16	38	1.1875	1-3/16	30.1625		
1-7/32	39	1.21875	1-7/32	30.95625		
1-1/4	40	1.25	1-1/4	31.75		
1-1/2	48	1.5	1-1/2	38.1		

<u>Code</u>	<u>Point Description</u>	<u>Instr</u>	<u>Cat</u>
B	Blunt		
C	Chisel		
D	Divergent		
O	Outside Chisel		
N	Needle (Sharp) Divergent Point		

Code	Material Description	Derivation	#/cuft
C	Steel, Carbon, AISI 1005/6	<b>C</b> arbon soft	489
N	Steel, Carbon, AISI 1010	<b>N</b> ormal	489
H	Steel, High Carbon, AISI 1018	<b>H</b> igh	489
X	Steel, Extra High Carbon, AISI 1038	e <b>X</b> tra	489
R	Stainless Steel, 316	<b>R</b>	489
S	Stainless Steel, 304	<b>S</b> tainless	489
M	Monel, Alloy 400	<b>M</b> onel	550
B	Bronze, Phosphor, Alloy 510	<b>B</b> ronze	517
A	Aluminum, Alloy 5650	<b>A</b> luminum	168

[Instr](#)

[Cat](#)

<u>Code</u>	<u>Finish Description</u>	<u><a href="#">Instr</a></u>	<u><a href="#">Cat</a></u>
G	Galvanized		
E	Electrogalvanized		
L	Liquor Finish		
X	None		

<u>Code</u>	<u>Coating Description</u>	<u><a href="#">Instr</a></u>	<u><a href="#">Cat</a></u>
X	No other paint or coating		
R	Red Paint		
W	White Paint		
B	Black Paint		
L	Blue Paint		
T	Thermoplastic Grip Coating		