

Clip Selection Guide

Choosing the Right Clip

Clip Length – the first 2 or 3 digits of a Vertex clip part number indicate the clip length; for example, in our part number 80F23S, the length of the clip is .80"; for 110E25S, the length is 1.10" and so on. To determine the proper clip length, you will need to know the thickness of both of the wires that you will be clipping. Once you know the thickness of these wires, you can use the Vertex Clip Selection Chart to determine the proper length for the clip.

Clip Width – once the clip length is determined, you will need to select the clip width. The clip width in the Vertex part number is the letter immediately following the clip length; for example, in our part number 80F23S, the "F" indicates the clip width. Clip widths range from 7/16" to 7/8". Several factors need to be considered in determining which clip width is right for your application:

1. Cost – more material is needed to manufacture wider clips, so narrow clips will cost less.
2. Strength – the wider the clip, the stronger the clip. However, the stress that the clip will come under must be considered.
3. Space constraints – is there enough room for the width of the clip? This becomes very critical in applications such as securing springs to border wires in innerspring units used in mattress manufacturing. Since the spring has an arc to it, a larger clip sometimes will not close properly.

Clip Opening – the next step is to determine the clip opening size. The clip opening in the Vertex part number is the two numbers following the clip width letter; for example, in our part number 80F23S, the clip width is .023". Most of the time, our clip opening sizes are proportionate to the clip length. However, this may vary if one of the two wires to be clipped is a lot thicker than the other. The clip opening must be large enough to accommodate the thickest wire to be clipped.

Strip or Roll Clip? – Vertex offers clips in both strips and rolls. Strip clips are used in our PC4.5 pneumatic hand-held clipping tool and roll clips are used in our PC5.2 roll clipping tool, which is usually sold as a clipping system. The strip clip tool is extremely portable and agile, since the only limitation is how far your air hose reaches. You "bring the tool to the work." The strip clipping tool is stationary and meant for high-volume applications where you "bring the work to the tool." The designation for strip vs. roll in the Vertex part number is the letter immediately following the clip opening size; for example, in our part number 80F23S, the "S" designates this as a strip clip. If this were an "R," it would be a roll clip.

Clip Material – next, you will need to decide what material you need for the clip. Materials available are:

- "A" Aluminum – for situations where rust is a concern
- "C" Paper lined – when noise from wires rubbing together may be a concern
- "EG" Electro galvanized – for situations where rust is a concern
- "G" Hot-Dipped Galvanized – for situations where rust is a concern
- "L" PVC Vinyl Coated – coated on the inside only, for a tighter clip closure and noise reduction
- "P" Painted – for applications where you do not want the clip to show
- "S" Stainless Steel – for situations where rust is a concern

The clip material in the Vertex part number is the letter(s) that immediate follow the clip roll or strip designation; for example, in our part number 80F23SS, the second "S" would designate stainless steel. The letters above designate the materials for the clip.



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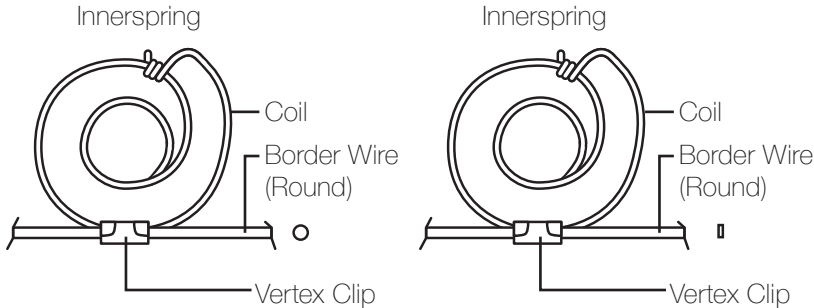
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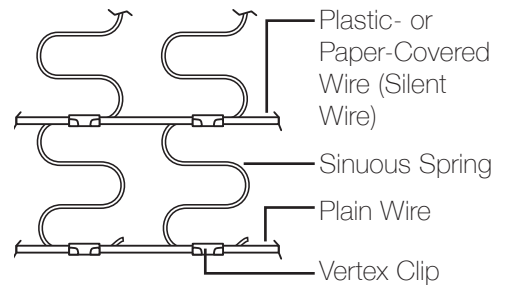
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Clip Guide for Bedding Applications



Clip Guide for Furniture Applications



Steel Wire Gage – US

Gauge (Inches)	Coil Wire Diameter										
	17 (.054)	16-1/2 (.058)	16 (.062)	15-1/2 (.067)	15 (.072)	14-1/2 (.076)	14 (.080)	13-1/2 (.086)	13 (.091)	12-1/2 (.098)	
Round Border Wire Diameter – Gauge (Inches)	9 (.148)	71A18 74F18	71A18 74F18	71A18 74F18	71A18 74F18	71A18 74F18	76A18 74F18	76A18 74F18	76A18 74F18	76A18 74F18	76A18 74F18
	8 (.162)	71A18 74F18	71A18 74F18	71A18 74F18	71A18 74F18	76A18 74F18	76A18 74F18	76A18 74F18	76A18 80F18 80F23	76A18 80F18 80F23	76A18 80F18 80F23
	6 (.192)	85A22 80F23	85A22 80F23	85A22 80F23	85A22 80F23	85A22 80F23	85A22 88F23	88A22 88F23	88A22 88F23	88A22 88F23	88A22 88F23
	5 (.207)	88A22 88F23	88A22 88F23	88A22 88F23	88A22 88F23	88A22 88F23	96A23 91F23	96A23 91F23	96A23 91F23	96A23 95F23	96A23 95F23
	4 (.225)	96A23 91F23	96A23 91F23	96A23 91F23	96A23 91F23	96A23 91F23	96A23 95F23	96A23 95F23	96A23 95F23	96A23 95F23	96A23 95F23
	3 (.244)							102A25	102A25	102A25	102A25

Steel Wire Gage – US

Gauge (Inches)	Sinuous Spring Wire Diameter					
	12 (.106)	11 (.121)	10 (.135)	9 (.148)	8 (.162)	
Plastic- or Paper-Covered Wire	16 (.156)	74F18 80F23	74F18 80F23	74F18 80F23	74F18 80F23	74F18 80F23
	12 (.156)	74F18 80F23	74F18 80F23	74F18 80F23	80F23 90F18	88F23 90F18
Plain Wire	9 (.148)				88F23 or 88H23 90F18 or 90H18	

Metric

Metric	Coil Wire Diameter										
	1.6mm	1.7mm	1.8mm	1.9mm	2.0mm	2.1mm	2.2mm	2.3mm	2.4mm	2.5mm	
Round Border Wire Diameter	4mm	71A18 74F18	71A18 74F18	71A18 74F18	76A18 74F18	76A18 74F18	76A18 74F18	76A18 74F18	76A18 80F18 80F23	76A18 80F18 80F23	76A18 80F18 80F23
	5mm	85A22 80F23	85A22 80F23	85A22 80F23	85A22 88F23	88A22 88F23	88A22 88F23	88A22 88F23	88A22 88F23	88A22 91F23	88A22 91F23
Flat Border Wire Diameter	6MM	96A18	96A18	96A18	96A18	96A18	96A18	96A18	96A18	96A18	96A18
	10mm	110A18	110A18	110A18	110A18	110A18	110A18	110A18	110A18	110A18	110A18

Metric

Wire Diameter	Sinuous Spring Wire Diameter					
	3.86mm	3.66mm	3.25mm	2.95mm	2.65mm	
Silent Wire	4.0mm	80H18 80H23	80H18 80H23	80H18 80H23	80H18 80H23	80H18 80H23
Plain Wire	12 (.156)	90H18 88H23	90H18 88H23	90H18 88H23	90H18 88H23	90H18 88H23

Clip Widths: "A" Series = 11.0mm (maximum value)
"F" Series = 19.0mm (maximum strength)

Note: Please contact Vertex Fasteners prior to ordering for complete technical assistance



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Clip Guide for Bedding Applications

Bottom Wire or Resorte	GA	3 GA		4GA		5GA		6GA		7GA		8GA		9GA		10GA		11GA		12GA		13GA		14GA								
	mm	6.2	6.0	5.8	5.7	5.6	5.4	5.3	5.2	5.0	4.9	4.8	4.6	4.5	4.4	4.2	4.1	4.0	3.8	3.6	3.4	3.2	3.1	3.0	2.8	2.7	2.6	2.4	2.3	2.2	2.0	
	Inch	0.244	0.236	0.228	0.225	0.220	0.213	0.207	0.205	0.197	0.192	0.189	0.181	0.177	0.173	0.165	0.162	0.157	0.148	0.142	0.135	0.126	0.121	0.118	0.110	0.106	0.102	0.094	0.092	0.087	0.080	
14GA	2.0	0.080	99	97	95	94	93	90	89	88	86	85	84	82	81	80	77	77	75	73	71	69	67	65	64	62	61	60	58	57	56	54
	2.2	0.087	101	98	96	95	94	92	90	90	88	86	85	83	82	81	79	78	77	74	73	71	68	67	66	64	63	62	60	59	57	
13GA	2.3	0.092	102	100	97	96	95	93	92	91	89	87	87	84	83	82	80	79	78	75	74	72	69	68	67	65	64	63	61	60		
	2.4	0.094	102	100	98	97	96	93	92	91	89	88	87	85	84	83	81	80	78	76	74	72	70	68	68	66	64	63	61			
	2.6	0.102	104	102	100	99	97	95	94	93	91	90	89	87	86	85	82	82	80	78	76	74	72	70	70	67	66	65				
12GA	2.7	0.106	105	103	100	100	98	96	95	94	92	91	90	88	87	86	83	82	81	79	77	75	73	71	71	68	67					
	2.8	0.110	106	104	101	100	99	97	96	95	93	92	91	89	87	86	84	83	82	80	78	76	74	72	72	69						
	3.0	0.118	107	105	103	102	101	99	97	97	95	93	93	90	89	88	86	85	84	82	80	78	76	74	73							
11GA	3.1	0.121	108	106	104	103	102	100	98	98	95	94	93	91	90	89	87	86	85	82	81	79	76	75								
	3.2	0.126	109	107	105	104	103	101	99	99	97	95	95	92	91	90	88	87	86	83	82	80	78									
10GA	3.4	0.135	111	109	107	106	105	103	101	101	99	97	97	95	93	92	90	89	88	86	84	82										
	3.6	0.142	113	111	109	108	107	105	103	103	100	99	98	96	95	94	92	91	90	87	86											
9GA	3.8	0.148	115	112	110	109	108	106	105	104	102	101	100	98	97	96	94	93	91	89												
	4.0	0.157	117	115	113	112	110	108	107	106	104	103	102	100	99	98	96	95	94													
8GA	4.1	0.162	118	116	114	113	112	110	108	107	105	104	103	101	100	99	97	96														
	4.2	0.165	119	117	114	114	112	110	109	108	106	105	104	102	101	100	98															
	4.4	0.173	121	119	116	116	114	112	111	110	108	107	106	104	103	102																
7GA	4.5	0.177	122	120	117	117	115	113	112	111	109	108	107	105	104																	
	4.6	0.181	123	120	118	118	116	114	113	112	110	109	108	106																		
	4.8	0.189	125	122	120	119	118	116	115	114	112	111	110																			
6GA	4.9	0.192	125	123	121	120	119	117	115	115	113	111																				
	5.0	0.197	127	124	122	121	120	118	117	116	114																					
	5.2	0.205	129	126	124	123	122	120	119	118																						
5GA	5.3	0.207	129	127	125	124	123	121	119																							
	5.4	0.213	130	128	126	125	124	122																								
	5.6	0.220	132	130	128	127	126																									
4GA	5.7	0.225	133	131	129	128																										
	5.8	.228	134	132	130																											
	6.0	0.236	136	134																												
3GA	6.2	0.244	138																													

- Notes: 1. Larger clip required when clip is PVC-coated, kraft-paper tape-lined, or thicker than standard gauge.
2. Use .148" for paper-covered wire.

	Clip Width		Clip Width		Clip Width			
	Inch	MM	Inch	MM	Inch	MM		
52A14	0.430	11	80H18	0.860	22	97H18	0.860	22
64A18	0.430	11	80H23	0.860	22	101H23	0.860	22
68F18	0.735	19	83H18	0.860	22	102A25	0.430	11
68H18	0.860	22	85H18	0.860	22	109H23	0.860	22
71A18	0.430	11	87H18	0.860	22	110H25	0.860	22
72E18	0.680	17	88F23	0.735	19	112D25	0.620	16
74F18	0.735	19	88H23	0.860	22	116F33	0.735	19
74H18	0.860	22	90F18	0.735	19	120H23	0.860	22
76A18	0.430	11	90H18	0.860	22	135H38	0.860	22
80F23	0.735	19	95H23	0.860	22	146H38	0.860	22
80F18	0.735	19	96A23	0.430	11			



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