

Power Utilities market

Power Utilities Strand Solutions



Guy Strand

Static Wire

Barbed Staples





Why choose Bekaert for power utilities strand solutions?

When power plants generate electricity, that energy has to travel from that site to the utility company's consumers. The electricity grid is a complex system consisting of electricity substations, power lines, utility poles, and other elements. In order to ensure the longevity of the system, it is important to protect and stabilize the power lines, and utility poles by using guy strands and static wires.

Guy strands stabilize utility poles, while static wires protect and redirect energy from lightning strikes and carry the current away from power lines. Barbed staples are also needed to fasten static wires to wood poles and crossbars.

Bekaert is more than steel wires supplier. With comprehensive customer service, we can connect you with industry-leading expertise and the guy strand, static wire and barbed staple you need for your project.

1. Guy Strand

Our strength in guy strand is in our extensive coating range. Prevent rust with the right coating that meets your specifications. Bekaert provides standardized and certified Class A, B and C galvanized wire that meets the ASTM-A475 standard.

For superior corrosion resistance Bekaert offers strands coated with Bezinal®, an advanced zinc aluminum coating that meets the CAN/CSA-G12 standard.

2. Static Wire

Bekaert can manufacture static wires according to your application's unique specifications, including standard CAN/CSA-G12 products. Our multiple manufacturing facilities are flexible, allowing us to produce customized steel static wires near your region. Bekaert engineers and technicians have complete control over the manufacturing processes to ensure the highest quality control standards for your products.

3. Barbed Staples

Bekaert offers premium staples to deliver the strength you need for your work. Our 8-gram Bezinal® coated wire staples are available in plastic buckets of 8 pounds and 50 pounds to meet your project requirements. We offer our barbed utility staples with single or double barbs. If you need an even stronger hold, we also provide 9-gram galvanized knurled staples available in 50-pound buckets.



Guy Strand Datasheet

Steel guy strand comes in a variety of strengths, lengths and wires per strand to secure many of the largest man-made structures, including transmission and distribution systems. At Bekaert, we offer a variety of strengths, coatings, and specifications including ASTM A475 and ASTM A855.

Strand diameter (in)	Wires per strand	Coated wire diameter (in)	Approx. strand weight/1000 ft (lbs)	Minimum Breaking Strength (lbs)					Minimum weight of coating oz/ft ²			
				Utility grades	Common grade	Siemens-Martin Grade	High strength grade	Extra high strength grade	Class A	Class B	Class C	Class Bezinol®
3/16	7	0.062	73	...	1,150	1,900	2,850	3,990	0.50	1.00	1.50	0.50
3/16	7	0.065	80	2,400	...	...	...	...	0.50	1.00	1.50	0.50
7/32	7	0.072	98	...	1,540	2,560	3,850	5,400	0.50	1.00	1.50	0.50
1/4	3	0.120	117	3,150	1,860	3,040	4,730	6,740	0.85	1.70	2.55	0.85
1/4	3	0.120	117	4,500	...	...	...	...	0.85	1.70	2.55	0.85
1/4	7	0.080	121	...	1,900	3,150	4,750	6,650	0.60	1.20	1.80	0.60
9/32	7	0.093	164	4,600	2,570	4,250	6,400	8,950	0.70	1.40	2.10	0.70
5/16	3	0.145	171	6,500	2,490	4,090	6,350	9,100	0.90	1.80	2.70	0.90
5/16	7	0.104	205	...	3,200	5,350	8,000	11,200	0.80	1.60	2.40	0.80
5/16	7	0.109	225	6,000	...	...	...	...	0.80	1.60	2.40	0.80
3/8	3	0.165	220	8,500	3,330	5,560	8,360	11,800	0.90	1.80	2.70	0.90
3/8	7	0.120	273	11,500	4,250	6,950	10,800	15,400	0.85	1.70	2.55	0.85
7/16	7	0.145	399	18,000	5,700	12,100	14,500	20,800	0.90	1.80	2.70	0.90
1/2	7	0.165	517	25,000	7,400	9,350	18,800	26,900	0.90	1.80	2.70	0.90
1/2	19	0.100	504	...	7,620	12,700	19,100	26,700	0.70	1.40	2.10	0.70
9/16	7	0.188	671	...	9,600	15,700	24,500	35,500	1.00	2.00	3.00	1.00
9/16	19	0.113	637	...	9,640	16,100	24,100	33,700	0.80	1.60	2.40	0.80
5/8	7	0.207	813	...	11,600	19,100	29,600	42,400	1.00	2.00	3.00	1.00
5/8	19	0.125	796	...	11,000	18,100	28,100	40,200	0.85	1.70	2.55	0.85
3/4	19	0.150	1,155	...	16,000	26,200	40,800	58,300	0.90	1.80	2.70	0.90
7/8	19	0.177	1,581	...	21,900	35,900	55,800	79,700	0.90	1.80	2.70	0.90
1	19	0.200	2,073	...	28,700	47,000	73,200	104,500	1.00	2.00	3.00	1.00

1x3 Ground Wire, 5/16", Class C Grade BB, ASTM A111 and A475





Static Wire Datasheet

Static wire, or overhead ground wire, is a form of lightning protection for power and transmission lines. Provide reliable support with Bekaert durable and high-quality steel static strand. Bekaert offers a variety of strengths and coatings and specifications including ASTM A363, and ASTM A925.

Specifications, per standard ASTM A363 or A925

Strand diameter (in)	Wires per strand	Coated wire diameter (in)	Approx. strand weight/1000 ft (lbs)	Minimum Breaking Strength (lbs)					Minimum weight of coating oz/ft ²			
				Utility grades	Common grade	Siemens-Martin Grade	High strength grade	Extra high strength grade	Class A	Class B	Class C	Bezinal®
5/16	3	0.145	171	6,500	2,490*	4,090*	6,350*	9,100*	0.90	1.80	2.70	0.90
5/16	7	0.104	205	...	3,200*	5,350*	8,000	11,200	0.80	1.60	2.40	0.80
3/8	7	0.120	273	11,500	4,250*	6,950*	10,800	15,400	0.85	1.70	2.55	0.85
7/16	7	0.145	399	18,000*	5,700*	12,100*	14,500	20,800	0.90	1.80	2.70	0.90
1/2	7	0.165	517	25,000	7,400*	9,350*	18,800	26,900	0.90	1.80	2.70	0.90

(*) These products are not specified in ASTM A363 Table 1 but can be manufactured to the specs as listed for static strand application

Specifications, per non-standard

Strand diameter (in)	Wires per strand	Coated wire diameter (in)	Approx. strand weight/1000 ft (lbs)	Minimum Breaking Strength (lbs)					Minimum weight of coating oz/ft ²			
				Utility grades	Common grade	Siemens-Martin Grade	High strength grade	Extra high strength grade	Class A	Class B	Class C	Bezinal®
3/16	7	0.062	73	...	1,150	1,900	2,850	3,990	0.50	1.00	1.50	0.50
3/16	7	0.065	80	2,400	0.50	1.00	1.50	0.50
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5/16	7	0.109	225	6,000	0.80	1.60	2.40	0.80
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9/16	19	0.113	637	9,640	...	16,100	24,100	33,700	0.80	1.60	2.40	0.80
5/8	7	0.207	813	11,600	...	19,100	29,600	42,400	1.00	2.00	3.00	1.00
5/8	19	0.125	796	11,000	...	18,100	28,100	40,200	0.85	1.70	2.55	0.85
3/4	19	0.150	1,155	16,000	...	26,200	40,800	58,300	0.90	1.80	2.70	0.90
7/8	19	0.177	1,581	21,900	...	35,900	55,800	79,700	0.90	1.80	2.70	0.90
1	19	0.200	2,073	28,700	...	47,000	73,200	104,500	2.00	3.00	1.00	1.00





Barbed Staples Datasheet

Our premium staples for the utilities market have been optimized to secure stranded products such as the ground wire on transmission and distribution lines. Bekaert's staples are available in short length staples for hardwood posts or longer lengths for softwood species.

Description	Part #	Gauge	Class	Packaging
Knurled 1.25"	118323	9	Galvanized	50 lbs boxes
Knurled 1.5"	118324	9	Galvanized	50 lbs boxes
Knurled 1.75"	118325	9	Galvanized	50 lbs boxes
Double barbed 1.5"	187237	8	Bezinal®	8 lbs bucket x 6
Double barbed 1.5"	147613	8	Bezinal®	50 lbs boxes
Double barbed 1.75"	18724 4	8	Bezinal®	8 lbs bucket x 6
Double barbed 1.75"	187260	8	Bezinal®	50 lbs boxes
Double barbed 2"	187246	8	Bezinal®	8 lbs bucket x 6
Double barbed 2"	1628337	8	Bezinal®	50 lbs boxes
Barbed 1.25"	187235	8	Bezinal®	8 lbs bucket x 6
Barbed 1.25"	187255	8	Bezinal®	50 lbs boxes
Non-barbed 1.5"	197594	8	Bezinal®	8 lbs bucket x 6



Contact us

More
Information?

4300 Wildwood Parkway,
Suite 100
Marietta, Georgia 30339, USA
770.514.2219
www.bekaert.com/power-utilities

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