

Telecommunications market

Telecom Aerial Installation Solutions

Lashing Wire

Messenger strand





Why choose Bekaert for messenger strand and lashing wire?

The telecommunications industry uses numerous types of wire products. Some, like fiber optic cables, transmit data. Steel wires, like messenger strands, support data-transmitting aerial cables. Messenger strands keep cables that transmit data in place. Stabilizing those cables is essential for the longevity of any system.

Systems that use support strands require lashing wire – another external wire used to secure the fiber optic cable to the messenger strand. The telecom industry uses stainless steel lashing wire to secure or lash the messenger strand and fiber optic cable together.

Bekaert is more than a messenger strand and lashing wire supplier. With industry-leading expertise and comprehensive customer service, we can connect you with the messenger strand and lashing wire you need for your project

1. Messenger Strand

Effective Coatings

Quality coatings enable our strands to perform well in harsh conditions. Specifically, our zinc-coated wire has impressive corrosion resistance. At Bekaert, we offer three classes of zinc galvanized: Class A, Class B, and Class C.

We've also developed Bezinal®, our unique zinc-aluminum alloy coating for enhanced corrosion resistance.

Reliable Strength

Standardized strength means that our messenger strands are safer and more reliable. Their steel cores add to the wires' strength, making strands with Bezinal® coatings an ideal solution for special conditions. Inclement weather like high winds and ice can contribute to tension and ice loading. Those events can cause messenger strand to rust, sag or even break. Prevent this damage with quality fiber optic messenger strand from Bekaert.

2. Lashing wire

Bekaert offers a range of lashing wire grades with varying specifications to suit your project needs. Each selection of lashing wire meets ASTM A580 specifications. We provide three grades of stainless steel lashing wire:

Type 430: low-carbon stainless steel wire with 17% chromium

Type 316: 8-10 stainless steel alloy contains 2.5% molybdenum

Type 302: alloy contains 8% nickel and 18% chromium

Both Type 430 and Type 316 have a 0.045-inch diameter. Type 302 lashing wire comes in two diameters – 0.045 inches and 0.038 inches.



Messenger Strands Datasheet

Bekaert offers the broadest range of steel wire products with a variety of strengths and coatings and specifications including CSA-G12 for the Canada Telecommunications market. As a one-stop shop for telco products, we customize the coating, tensile strength, and offer custom-cut sizes all with color coated end-caps for grade identification, on reels or coils.

Specifications [imperial, per CAN/CSA-G12 (Latest Edition)]

Designated strand size (in)	Nominal strand wire diameter (in)	Nominal wire diameter (in*)	Nominal metallic cross-sectional area of the strand (in ²)	Number of wires	Approx. weight (lb/1000 ft)	Minimum breaking strength, lb				Minimum weight of zinc-coating (oz/ft ²)		
						Grade 110	Grade 160	Grade 180	Grade 220	Class A	Class B	Class C
3/16	0.195	0.065	0.0230	7	79.0	2,400	3,500	4,000	4,800	0.50	1.00	1.50
1/4	0.249	0.083	0.0380	7	129	3,900	5,700	6,400	7,900	0.60	1.20	1.80
9/32	0.285	0.095	0.0500	7	169	5,200	7,500	8,500	10,300	0.70	1.40	2.10
5/16	0.327	0.109	0.0650	7	223	6,800	9,900	11,100	13,600	0.80	1.60	2.40
3/8	0.36	0.12	0.0790	7	270	8,200	12,000	13,500	16,500	0.85	1.70	2.55
7/16	0.432	0.144	0.114	7	389	11,900	17,300	19,500	23,800	0.90	1.80	2.70
1/2	0.495	0.165	0.150	7	511	15,600	22,700	25,500	31,200	0.90	1.80	2.70
9/16	0.564	0.188	0.194	7	664	20,300	29,500	33,200	40,600	1.00	2.00	3.00
5/8	0.621	0.207	0.235	7	813	24,600	35,800	40,200	49,200	1.00	2.00	3.00
9/16	0.569	0.113/0.117	0.191	19	657	18,900	27,500	30,900	37,800	0.80	1.60	2.40
5/8	0.634	0.125/0.134	0.235	19	806	23,000	33,600	37,700	46,100	0.85	1.70	2.55
11/16	0.688	0.136/0.144	0.278	19	954	27,500	40,000	45,000	55,000	0.85/0.90	1.70/1.80	2.55/2.70
3/4	0.762	0.150/0.162	0.339	19	1,163	33,500	48,700	54,800	67,000	0.90	1.80	2.70
13/16	0.815	0.161/0.171	0.389	19	1,338	38,700	56,000	63,100	77,100	0.90	1.80	2.70
7/8	0.894	0.177/0.186	0.470	19	1,613	46,200	67,300	75,700	92,500	0.90	1.80	2.70
15/16	0.94	0.186/0.196	0.519	19	1,784	51,400	74,700	84,100	102,800	0.90/1.00	1.80/2.00	2.70/3.00

*In the construction of 19-wire strands, the smaller nominal wire size applies to the 6 and 12-wire layers and the larger nominal wire size applies to the center wire.



Specifications [SI Units, per CAN/CSA-G12 (Latest Edition)]

Designated strand size (mm)	Nominal strand wire diameter (mm)	Nominal wire diameter (mm*)	Nominal metallic cross-sectional area of the strand (mm ²)	Number of wires	Approx. weight (kg/1000m)	Minimum breaking strength, kN				Minimum weight of zinc-coating (g/m ²)		
						Grade 800	Grade 1100	Grade 1300	Grade 1500	Class A	Class B	Class C
5	5.10	1.70	15.9	7	130	12.0	16.5	19.5	22.5	150	300	450
6	6.30	2.10	24.2	7	190	18.0	25.0	30.0	34.5	150	300	450
7	7.20	2.40	31.7	7	250	24.0	33.0	39.0	45.0	180	360	540
8	8.40	2.80	43.1	7	340	33.0	45.0	53.0	61.5	244	488	730
9	9.00	3.00	49.5	7	390	37.5	52.0	61.0	70.5	244	488	730
10	10.8	3.60	71.3	7	560	54.0	74.5	88.0	102	259	519	780
12	12.6	4.20	97.0	7	760	74.0	101	120	138	275	549	825
14	14.4	2.80/3.20	119	19	930	85.5	118	139	161	244/259	488/519	730/780
16	16.2	3.20/3.40	154	19	1,210	110	152	180	208	259	519	780
18	18.2	3.60/3.80	195	19	1,530	140	193	228	263	259/275	519/549	780/825
20	20.2	4.00/4.20	240	19	1,890	173	238	281	324	275	549	825
22	22.2	4.40/4.60	290	19	2,280	209	287	340	392	275	549	825
24	24.2	4.80/5.00	345	19	2,710	249	342	404	466	305	610	915

*In the construction of 19-wire strands, the smaller nominal wire size applies to the 6 and 12-wire layers and the larger nominal wire size applies to the center wire.





Lashing Wire Datasheet

Bekaert Lashing wire provides flexibility, strength, and corrosion resistance required for supporting fiber optic cables in Outside Plant (OSP) telecommunications projects. The product meets the requirements per ASTM A580 and works with most cable lashers.



Specifications, per ASTM A580

AISI Grade	UNS	W.Nr	Wire Diameter (in)	Weight per coil (lb)	Length per coil (lb)	Average break strength (lb)	Coils per box	Approx. shipping weight per box (lb)
430SS	S43000	1.4016	0.045	6.5	1,200	125	6	40
302SS	S302000	1.4310	0.038	6.3	1,600	115	6	38
302SS	S302000	1.4310	0.045	6.5	1,200	165	6	40
316SS	S31600	1.4401	0.045	6.5	1,200	165	6	40
316SS	S31600	1.4401	0.038	6.3	1,600	115	6	38

Pack specifications

Coil Dimensions

ID	1 5/8" min
OD	5 3/8" max
Height	2" max

Box Dimensions

Coils per box	6
Width	5 1/2"
Length	11"
Height	5 1/2"

Pallet Dimensions

Boxes per pallet	63
Width	33"
Length	42"
Height	26"

Finish: Bright annealed

ISO
9001:2015
certified



Contact us

More
Information?

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