

Specialty small ropes

This category includes wire ropes in sizes as small as 1/32" in diameter. They're used in a variety of applications, including control cables, window and door closures, different kinds of remote control systems, boat rigging and others.

They can be made of galvanized or stainless steel aircraft wire.

Each of these products is carefully engineered and fabricated to uniform size and quality. For example, 1/16" 7 x 19 contains 133 separate wires, making the wires approximately the diameter of a human hair. Yet the rope has high strength, bendability and fatigue resistance.

These ropes are produced for the most common applications in the market. Utility grade is made to ASTM A1023. These cables have historically been called "aircraft" cable. Since most applications do not require that designation, we changed the name to "utility" cable. We are on the Qualified Producers List (QPL) and can provide these ropes to the MIL-DTL-83420 "aircraft" specifications on request. They require special lubrication, internal marking and fatigue testing.

MINIMUM BREAKING FORCE AND WEIGHTS FOR 7 X 7 UTILITY CABLE - GALVANIZED OR STAINLESS

Diameter (in.)	Approx. wt./100 ft. (lb.)	Minimum breaking force (lb.)	
		GALVANIZED	STAINLESS
1/32*	0.16	110	110
3/64	0.42	270	270
1/16	0.75	480	480
5/64	1.1	650	650
3/32	1.6	920	920
7/64	2.2	1,260	1,260
1/8	2.8	1,700	1,700
5/32	4.3	2,600	2,400
3/16	6.2	3,700	3,700
7/32	8.3	4,800	4,800
1/4	10.6	6,100	6,100
9/32	13.4	7,600	7,600
5/16	16.7	9,200	9,000
3/8	23.6	13,100	12,000

*1/32 is made in 3 x 7 construction.

MINIMUM BREAKING FORCE AND WEIGHTS FOR 7 X 19 UTILITY CABLE - GALVANIZED OR STAINLESS

Diameter (in.)	Approx. wt./100 ft. (lb.)	Minimum breaking force (lb.)	
		GALVANIZED	STAINLESS
1/16	0.75	480	480
3/32	1.7	1,000	920
7/64	2.2	1,400	1,260
1/8	2.9	2,000	1,760
5/32	4.5	2,800	2,400
3/16	6.5	4,200	3,700
7/32	8.6	5,600	5,000
1/4	11.0	7,000	6,400
9/32	13.9	8,000	7,800
5/16	17.3	9,800	9,000
11/32	20.7	12,500	-
3/8	24.3	14,400	12,000

