34

WIRE & WIRE ROPE PRODUCTS



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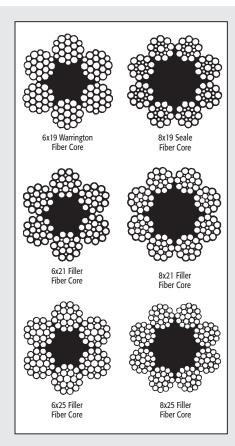
Full line catalog available on request

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Elevator Wire Ropes



Traction Steel Wire Ropes — Fiber Core

	6x19 Warrington	, 6x25 Filler	8x19 Warrington, 8x19 Sea	le, 8x21 Filler, 8x25 Filler
Diameter	Nominal	Weight	Nominal	Weight
Inches	Strength, lbs.	lbs./ft.	Strength, lbs.	lbs./ft.
3/8	8200	.23	8200	.20
7/16	11000	.31	11000	.28
1/2	14500	.40	14500	.36
9/16	18500	.51	18500	.46
5/8	23000	.63	23000	.57
11/16	27000	.76	27000	.69
5/8	32000	.63	32000	.82

^{*} Right Regular Lay or Right Lang Lay available

Extra High Strength Wire Ropes — Fiber Core

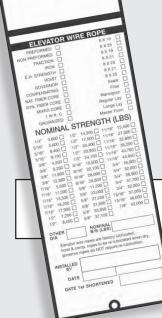
	<u>6x19 Fi</u>	<u>ller</u>	<u>8x19</u>	<u>Seale</u>
Diameter	Nominal	Weight	Nominal	Weight
Inches	Strength, lbs.	lbs./ft.	Strength, lbs.	lbs./ft.
3/8	11600	.23	9900	.20
7/16	15700	.31	13500	.28
1/2	20400	.40	17500	.36
9/16	25700	.51	22100	.46
5/8	31600	.63	27200	.57
11/16	27000	.76	27000	.69

^{*} Larger sizes available upon request

Governor Wire Ropes — Iron

	6x25 F	<u>iller</u>	8x19 Warringt	on, 8x25 Filler
Diameter	Nominal	Weight	Nominal	Weight
Inches	Strength, lbs.	lbs./ft.	Strength, lbs.	lbs./ft.
3/8	5000	.23	4200	.20
7/16	6400	.31	5600	.28
1/2	8400	.40	7200	.36
9/16	10600	.51	9200	.46
5/8	12800	.63	11200	.57





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Elevator Wire Ropes

MasterForm™ Compacted Strand Rope

Fiber Core

		Minimum Breal	king Load (lbs)
Diameter	8x19 Seale	Traction	EHS
Inches	Weight lbs./ft.	Grade	Grade
3/8	.23	9000	11000
7/16	.31	12300	14900
1/2	.40	16000	19400
9/16	.50	20500	24800
5/8	.62	25400	30800
11/16	.75	30700	37200
3/4	.89	36600	44400
7/8	1.20	50000	60500
1	1.57	65400	79000

Messilot's MasterForm™ ropes answer the higher demands needed in applications where the conditions make it impractical to use regular ropes or ropes with steel core. MasterForm™ ropes are 8x19 Seale, right Lang lay ropes, but the strands are compacted during manufacture. This compacting process has many benefits:

- The minimum breaking load is much higher than a regular rope of the same diameter and grade. This means that in the elevator, the load on the rope will be lower as a percentage of the breaking load.
- The outer surface of the strands is smoother than in regular ropes and the surface area is larger. Larger surface area means lower pressure and lower stresses in the wires, resulting in less wear of both rope and sheave, and greatly improved fatigue resistance.

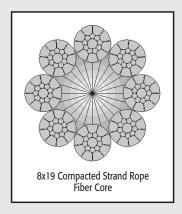
Seale Parallel Laid Rope — Steel Core

-	Minimum
9x17 Seale Weight lbs./ft.	Breaking Load (lbs) Traction Grade
.261	13400
.354	18500
.461	24300
.582	30900
.718	38200
	Weight lbs./ft. .261 .354 .461 .582

The parallel closed steel core maximizes the metallic cross section and also improves the fatigue resistance of the rope because it reduces the internal contact pressure between the outer strands and the core. The breaking force is significantly higher than traditional constructions or combined core ropes. Used on traction drive elevators, especially on high rise installations, high speeds or where the ropes pass over many deflection sheaves. Parallel closed ropes are sensitive to externally induced torque.

During installation care should be taken to avoid twisting the ropes or letting the ropes untwist under their own weight while they hang freely.





Rope Lay Terminology—Wire Direction Right Regular Lay (RRL)

• Wires run down the rope

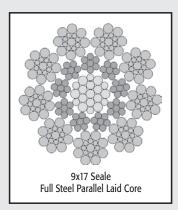
opposite to strands

and Governor ropes

Right Lang Lay (RLL)

- Strands turn to the right Strands turn to the right
- Wires run in the same direction as strands
- Higher metallic surface
 Hoist, Compensating area and flexibility
- · Ideal for basement and side mount traction systems
- Hoist ropes





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Power Cable TEW Type & THHN Type

Power Cable Single Conductor, TEW Type — 600 volt/105°C Rated

	Description/Size	Nominal OD	Net Weight	Current		Jacket Colors
Part Number	of Single Conductor	inches • mm	lbs/kft • kg/km	Rating	Put-ups	(abbrv. below)
18 AWG TEW	16/.01" strand copper • 18 AWG	.11 • 2.79	8 • 12	6 amps	500'	all (see below)
16 AWG TEW	26/.01" strand copper • 16 AWG	.123 • 3.12	11 • 16	8 amps	500'	all
14 AWG TEW	41/.01" strand copper • 14 AWG	.132 • 3.35	18 • 27	15 amps	500'	all
12 AWG TEW	19/.01" strand copper • 12 AWG	.151 • 3.84	25 • 37	20 amps	500'	all

Jacket Colors BL=black **BR**=brown **BU**=blue GN=green GY=grey **RD**=red MR=maroon **OR**=orange **PK**=pink **PU**=purple TN=tan WH=white YW=yellow

Power Cable Single Conductor, THHN Tupe - 600 volt/90°C Rated

ODOL OGDIO	omgio comabotor, n	950	000 10117 00 0 1141	04		
	Description/Size	Nominal OD	Net Weight	Current	Insulation	Jacket Colors
Part Number	of Single Conductor	inches • mm	lbs/kft • kg/km	Rating	Thickness	(abrv. below)
4/0 THHN	19 strand. copper 4/0 AWG • 108 mm2	.63 • 16.0	711 • 1058	260 amps	.05 inches	BL
3/0 THHN	19 strand. copper 3/0 AWG • 84.9 mm2	.57 • 14.5	570 • 848	225 amps	.05 inches	BL
2/0 THHN	19 strand. copper 2/0 AWG • 67.5 mm2	.52 • 13.2	458 • 681	195 amps	.05 inches	BL
1/0 THHN	19 strand. copper 1/0 AWG • 53.4 mm2	.48 • 12.2	369 • 549	170 amps	.05 inches	BL
1 AWG THHN	19 strand. copper 1 AWG • 42.5 mm2	.44 • 11.2	297 • 442	150 amps	.05 inches	BL
2 AWG THHN	19 strand. copper 2 AWG • 33.7 mm2	.38 • 9.7	232 • 345	130 amps	.04 inches	BL, GN
4 AWG THHN	19 strand. copper 4 AWG • 21.2 mm2	.32 • 8.1	151 • 225	95 amps	.04 inches	BL, GN
6 AWG THHN*	19 strand. copper 6 AWG • 13.3 mm2	.25 • 6.4	94 • 140	75 amps	.03 inches	BL, GN, BU RD, WH
8 AWG THHN*	19 strand. copper 8 AWG • 8.3 mm2	.21 • 5.3	62 • 92	55 amps	.03 inches	BL, GN, BU OR, RD, WH
10 AWG THHN*	19 strand. copper 10 AWG • 5.2 mm2	.16 • 4.0	38 • 57	30 amps	.02 inches	all
12 AWG THHN*	19 strand. copper 12 AWG • 3.3 mm2	.13 • 3.3	24 • 36	20 amps	.02 inches	all

Component Specifications

Jacket Colors

BL=black

GN=green

Stranded Conductors Bare soft drawn copper complying with ANSI/ASTM

B174 and ANSI/ASTM B3.

Jacketing

Nylon (polyamide) or its UL listed equivalent.

*6 AWG, 8 AWG, 10 AWG and 12 AWG are suitable for 105° C appliance wiring material (AWM). They also come in a variety of insulation colors and put-ups. See the last column (Jacket Colors) and the abbreviations below. When ordering, be sure to specify the insulation color and put-up you require.

All cables are cut to length. Please specify.

MTW or THHN or THWN-2 conductors shall be UL Type "MTW or THHN or THWN-2," suitable for operations at 600 volts as specified in the National Electrical Code, at conductor temperatures not to exceed 75° C when exposed to oil or coolant, 90° C in wet or dry locations. Conductors shall be annealed copper, insulated with highheat and moisture-resistant PVC, jacketed with abrasion, moisture, gasoline, and oil-resistant nylon or UL-listed equivalent.

Door Lock Wire



Door Lock Wire Single Conductor — 600 Volt/200°C Rated General Purpose SF-2, Hook-up, Hoistway Door, Interlock Wire

	_		•			
	Description/Size	Nominal OD	Net Weight	Current		Jacket Colors
Part Number	of Single Conductor	inches • mm	lbs/kft • kg/km	Rating	Put-ups	(abrv. below)
16 ASF-2	7/.019" tinned copper 16 AWG • 1.3mm2	0.14 • 3.6	15 • 22.3	8 amps	500, 1000'	BL
18 ASF-2 Strand	7/.015" tinned copper	0.13 • 3.3	12 • 17.9	6 amps	500, 1000'	BL & WH/RD

Component Specifications

Stranded Conductors

Bare soft drawn copper complying with ANSI/ASTM B174 and ANSI/ASTM B3.

Solid Conductors

Solid bare soft drawn copper complying with ANSI/ASTM B3.

Tinned Stranded Conductors

As above, with the copper conductor tinned for easier soldering.

Jacket Colors

BL=Black **RD**=Red

ND-Reu

WH/RD=white/red

HOOK UP WIFE — Stranded Tinned Copper, Color Coded PVC Insulation

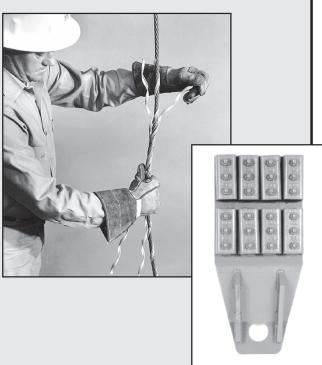
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Gauge	UL Type	Voltage Rating	Nom. O.D.	Put-ups	
24 AWG	UL1007/1569	300	0.057	500, 1000	
22 AWG	UL1007/1569	300	0.064	500, 1000	
20 AWG	UL1007/1569	300	0.072	500, 1000	
18 AWG	UL1007/1569	300	0.082	500, 1000	
16 AWG	UL1007/1569	300	0.095	500, 1000	
14 AWG	UL1007/1569	300	0.11	500, 1000	
24 AWG	UL1015	600	0.088	500, 1000	Jacket Colors
22 AWG	UL1015	600	0.095	500, 1000	Black Blue
20 AWG	UL1015	600	0.102	500, 1000	Brown Violet
18 AWG	UL1015	600	0.112	500, 1000	Red Gray
16 AWG	UL1015	600	0.125	500, 1000	White Orange
14 AWG	UL1015	600	0.142	500, 1000	Green/Yellow
12 AWG	UL1015	600	0.156	500, 1000	
10 AWG	UL1015	600	0.184	500, 1000	
8 AWG	UL3374	600	0.327	500, 1000	
6 AWG	UL3374	600	0.383	As Required	
4 AWG	UL3374	600	0.432	As Required	
1/0 AWG	UL3374	600	0.633	As Required	
2/0 AWG	UL3374	600	0.698	As Required	

^{**}Special Stripes, Twisted Pairs and other value added options available by request.

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Splices, Clamps & Grips

Seizing Wire

Cabling or re-roping an elevator? Repairing a split handle on your shovel? This 22-gauge (0.0286" dia.), steel wire is ideal for lashing, binding, whipping, bailing, seizing and even temporary repairs. One (1) lb. spools in stock. Other sizes and quantities also available.

Part Number 13-200

Reeving Splices

Eliminate the headaches associated with marrying wire ropes. Reeving Splices save up to 30 minutes per application by simplifying the marrying of wire ropes during elevator re-roping operations. The economical disposable tools permit easy passage of married ropes over or under sheaves. Applied in seconds by hand, without tools, Reeving Splices maintain constant, positive grip, even when ropes go slack.

Part Number	Rope Size	Part Number	Rope Size
16-210	1/2"	16-211	9/16"
16-212	5/8"	16-214	3/4"
16-216	⁷ /8"		

Shortening Clamp

Designed to allow the user to pick the car by clamping onto the hoist ropes directly above the hitch plate. Once the shortening clamp is in place a hoist can be attached between it and the crosshead. Slack can then be created in the hoist ropes allowing for easy shortening at the hitchplate. Each rope is gripped with two (2) cast clamps which have a serrated pattern in one groove and is smooth in the other. These serrations allow for more positive gripping of the rope. Each cast clamp is secured to the main bracket by three ½" bolts.

	•		
Part Numbe	r	Part Number	
16-280	6 ropes at 1/2"	16-281	6 ropes at 5/8"
16-285	8 ropes at ½"	16-286	8 ropes at 5%"

Parallel Jaw Grips (Rope Grips)

Here's a great little tool for pulling wire ropes into the hoistway or fastening on to, as in governor pull-thru tests. The long jaws achieve a firm hold, reducing possibility of slippage and damage to rope. The latch helps maintain the rope in the grip jaws and the large eye is ideal for large hooks or quick release clevises. Attaches to ropes 3/4" to 3/4" in diameter. Other sizes available.

	Cable	Max	Jaw	Approx
Part Number	Min/Max	Safe Load	Length	Weight
1685-20	.157/.875"	4500lbs.	2.50"	3lbs.
1671-10	.37/.75"	10,000lbs.	4.325"	5lbs.

Clamps, Clips & Bands

Roebling Clamp

Each of these clamps securely grab two ropes. Rope resists slipping through the clamp because of the spiral ridges cast into the grooves. Includes hardware shown.

Part Number	Size	Part Number	Size
16-050	1/2"	16-051	5/8"



Wire Rope Clips

Want to fasten two pieces of wire rope together with little or no damage to either rope, such as rigging for governor pull-thru tests? The combination bolt and saddle fist grip, make for easy assembly. For more permanent rigging use the familiar wire rope clips. Both style clips are forged steel with hot dipped galvanized finish and include standard full nut. Application data available upon request. Most popular sizes in stock.

A. Fist Grip Style:

Part Number	Size	Part Number	Size
16-002	3/8"	16-004	1/2"
16-006	(5/8'')	16-008	3/4
16-000	5/16"		

B. Wire Rope Clips:

Part Number	Size	Part Number	Size
16-012	(3/8")	16-014	(1/2")
16-016	(5/8")	16-018	(3/4")

C. Double Wire Rope Clips:

C. DOUDIC III	ii c ixopc ci	ינקי	
Part Number	Size	Part Number	Size
16-022	3/8"	16-024	1/2"
16-026	5/8"	16-028	3/4"
16-010	1/4 ''		

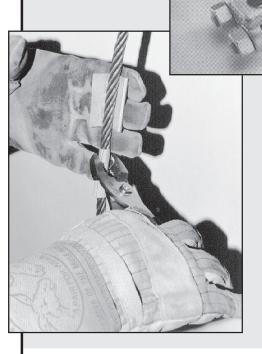
Cable Bands

Easier than double whipping cables with seizing wire. Bands are easily installed with pliers and prevent wire rope from fraying when being cut. Sized for all popular wire rope dimensions.

Part Number	Rope Size	Part Number	Rope Size
16-201	1/4"	16-202	3/8"
16-203	1/2"	16-204	5/8"
16-205	3/4"	16-206	7/8"
16-207	1"	16-208	1 1/4"

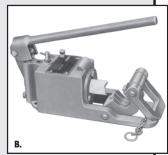




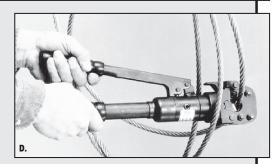


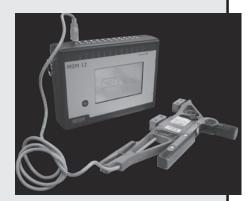
















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Wire Rope Cutters, Gauges, Tension Measuring

Wire Rope Cutters

A. Impact Wire Rope Cutter

Part Number 16-120 An inexpensive tool to cut wire rope cleanly and easily.

B. Hydraulic Rope Cutter

Part Number 16-130 Simple and easy to use. The pump-like handle is dependable and strong, being able to hold just about any weight.

C. Manual Wire Rope Cutter

Part Number 16-110 An excellent cutter for up to ³/₄" wire rope. Its notched jaws and shearing action hold and cut with a minimum of distortion. Other cutters available for wire rope or electrical cable.

D. Huskie Wire Rope Cutter

Part 16-140 The modern, safe way to cut wire ropes. Hand-held, hand-pumped, hydraulic cutter with compact, lightweight, rugged design. Its 15" length makes it convenient to use on car tops and provides fast clean cuts, even through 3/4" wire rope. Replacement parts and repair service are available.

Mobile Rope-Tension Measuring System

Patented measuring principle allows you to measure and set the optimum tension of each rope, quickly and easily (integrated software-wizard). Works with different rope types and diameters.

Part Number	Description
EPW-455100	Includes control and 4 rope load sensors
EPW-455600	Additional LSM1 load sensor

Wire Rope Gauges

Part Number WRG-2000

The easy, no-hassle, foolproof way to check elevator wire rope for maximum reduced diameter. Designed for ¾" ½" ¾6" and ¾" diameter wire rope. No guess work, no mistakes, the gauge contact area of rope is from one lay to several strands, depending on rope diameter. Gauge stays parallel to rope, so you are always checking from the top of one strand to the top of the opposite strand for maximum reduced diameter. If rope fits into slot, it should be replaced. Manufactured to ASME A17.1-1996 1001.2(C)(29)(C) specs of 2011 T3 aluminum, anodized red finish, acid etched numerals.

Part Number ATLOOI

Seven diameter markings are laser etched. Nominal diameter is marked on one side, ASME diameter reduction criteria for rope retirement marked on the other side. If gauge fits over rope, rope does not meet ASME requirements and should be inspected further. Available in Imperial scale for rope diameters from 3/8" through 1/2."

Wedge & Babbit Sockets, Springs, Melting Pot

Wedge Sockets

- Replace your old babbit sockets with wedge sockets. Save time, avoid fires, be safer, and avoid bad babbit pours when you're reroping, or when you have to take the "stretch" out of your cable.
- · Easy installation and adjustment
- Wedge sockets have been approved in all 50 states as well as the cities of Los Angeles, Chicago, and New York.
- Test for extra high tensile strength at 31,600lbs on 6 x 19 rope.

ЕМСО	Zippo		Rod	Rod
Part Number	Part Number	Dimensions	Diam.	Length
WS3812	ZZWNS10-12	3⁄8 x 18	1/2"	12"
WS3818	ZZWNS10-18	3% x 24	1/2"	18"
WS3824	ZZWNS10-24	3% x 30	1/2"	24"
WS1212	ZZWNS13-12	½ x 18	3/4"	12"
WS1218	ZZWNS13-18	½ x 24	3/4"	18"
WS1224	ZZWNS13-24	½ x 30	3/4"	24"
WS1230	ZZWNS13-30	½ x 36	3/4"	30"
WS1236	ZZWNS13-36	½ x 42	3/4"	36"
WS5812	ZZWNS16-12	% x 18	3/4"	12"
WS5818	ZZWNS16-18	% x 24	3/4"	18"
WS5824	ZZWNS16-24	% x 30	3/4"	24"
WS5830	ZZWNS16-30	5⁄8 x 30	3/4"	30"
WS5836	ZZWNS16-36	5/8 x 42	3/4"	36"

- * Clips and wedges can be ordered separately.
- Larger sizes of wedge sockets for heavy freight elevators, high-speed gearless, as well as for use with compensatory ropes are available upon request.

Governor Rope Wedge Sockets

For 1/2" and 3/8" rope.

Part Numbers WS12GOV and WS38GOV

Babbit Sockets & Babbits

Available, call for details.

Melting Pot & Accessories

This electric, high-quality cast iron melting pot with handle comes in 3 sizes, 15, 30, and 60 lbs. All melting pots have a variable thermostat that operates in the temperature range between 150–900 F. Melting pots operate on 110 VAC and come with a 6-foot power cord.

	•		
Part Number	Size	Part Number	Description
		16-450	Babbitt 9.34 lb.
16-405	30 lb.	16-420	Ladle 3"
16-410	60 lb.	16-421	Ladle 6"





Springs

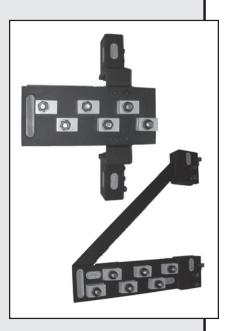
Part]	Dimensions	<u>i</u>
Number	Description	Length	0.D.	I.D.
SS900	For ½" rope	5"	1 13/16"	11/8"
SS1000	For %" rope	43/4"	213/16"	11/8"
SS900A	Bushing assemb	oly for both	springs	
	Includes 3 bush	ings, 3 wa	shers	





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2:1 Rope Change Tooling

2:1 Rope Change Out Tool

This tool was designed specifically for 2:1 roping change out. You can easily eliminate excess labor costs by utilizing this patented, USA made tool. It is capable of safely and efficiently replacing up to 9 wire ropes (3/8" - 5/8"). You must add the extension brackets for all change outs from 7 to 9 ropes. For 2:1 rope change outs up to six (6) wire ropes you must specify the cable clip size. Each kit comes with complete installation instructions to guide you through the process of rope replacement.

Part Number	Description
16-800	2:1 Rope Change Out Tool, Basic Kit
	(Includes 16-800-01 & 16-800-02)
16-800-01	Replacement Live End Cable Support Bracket
16-800-02	Replacement Dead End Cable Support Bracket
82660	'T' Handle Hex Drive



2:1 Color Coded Cable Clip Assembly

Part Number	Description
16-800-03	3%" Yellow Cable Clip Assembly
	(1) per cable, includes (2) 23203 Cap Screws
16-800-04	½" Red Cable Clip Assembly
	(1) per cable, includes (2) 23203 Cap Screws
16-800-05	5/8" Blue Cable Clip Assembly
	(1) per cable, includes (2) 23203 Cap Screws





2:1 Rope Change Out Tool Extension Hit

Designed specifically for 2:1 roping change out. By adding this extension kit to the basic kit, up to 9 wire ropes (3/8" to 5/8") can be replaced safely and efficiently.

Part Number	Description
16-800-06	Replacement Live End Extension Bracket
16-800-07	Replacement Dead End Extension Bracket
16-800-08	Complete Kit, includes 16-800-06 & 16-800-07
	•