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# Draka Elevator Products - who we are

## a Complete Source for Elevator Products and Information

Draka Elevator Products, Inc. distributes and manufactures an ever-expanding portfolio of products to the global elevator and escalator market while simultaneously providing unmatched service through the cost effective and timely delivery of parts and services to our customers. Draka Elevator Products is a division within Draka Cableteq and along with Draka Comteq, is a part of Draka Holding N.V. an international cable manufacturer headquartered in Amsterdam. Draka Holding N.V. has 65 operating companies in 25 countries in Europe, North and South America and Asia. Draka is the fifth largest cable manufacturer in the world and third largest within Europe.

### Global presence

Draka EP's plants in the United States as well as Germany, China, the Czech Republic, India and Spain fabricate cables and cable assemblies for use the world over. Together, these facilities employ hundreds of people dedicated to the design and production of elevator products for a demanding elevator world.

### Quality products

Draka EP cables are made to the highest quality standards. They are designed to meet fire and safety requirements of the NEC, CEC, UL, CSA and EN. The quality system at the manufacturing facility in Rocky Mount, NC, is ISO-9001 certified. Draka 'seal of approval' partners meet our requirements for quality and durability. We literally search the world for items that will make your installation safer and faster at fair pricing.

### Fast delivery

In order to make sure Draka EP products arrive at your worksite in a timely fashion, our US and Canadian distribution centers organize, package and load hundreds of orders daily. Our global distribution force (which includes partners in Africa, Australia, China, France, Japan, Germany, the Middle East, The Netherlands, Southeast Asia, Turkey and the United Kingdom) makes sure that our products are available anywhere in the world.

### Connectorization services

Draka EP also offers some very special services that speed installation. Connectorized traveling and hoistway cable literally makes installation a 'snap.' Stripping Whisper-Flex® and Steadi-Flex® compensating cables at one end is another service requested by customers that saves time and money during installation.

### Kits shipped to the jobsite

Another convenient time and money-saving service we offer is matching our cables with electrical and mechanical components - even hand tools, should you request them - and packaging them together into convenient installation kits. This way, all of the cable and components needed for a complete, safe installation arrive on site according to your schedule.

### Extended service hours and online ordering

Ordering Draka EP products is made simple by our family of customer service representatives who work extended hours (6 am - 8 pm ET) to answer your questions and take your orders. Experienced personnel also provide telephone and on-site installation support for especially challenging jobs.



**Rocky Mount, NC Manufacturing Facility**  
This 150,000 sq. ft. plant is where Super-Flex®, Super-Duct®, Whisper-Flex® and flat traveling cables are produced. Metal wireway is fabricated nearby.



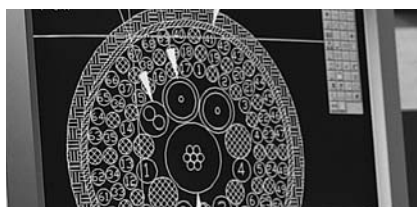
**Distribution Facilities**  
in California, Illinois, Mississippi, North Carolina, metropolitan NYC, Texas and Ontario (Canada) provide prompt service to all of North America.



**Advanced Production and Processes**  
Cutting-edge equipment such as this digitally-controlled cabler permits Draka EP to manufacture to tight tolerances while enabling production to keep up with increasing demand.



**Extensive Sales and Engineering Support**  
An early-morning call to the 1-877-DRAKA-EP results in fast response to a customer's question.



**Decades of Design Experience**  
Advanced CAD workstations aid in transferring design concepts into manufacturing reality.



**Services that Speed Installation**  
Kits and connectorization are services we offer to customers worldwide.

# Draka Elevator Products - what we do

## Design and manufacture quality, safety and efficiency

Draka EP engineers, manufactures, packages and distributes a broad range of elevator and escalator products that meet the global demand for high-performing, durable and safe elevator cable and components. Some of the standards Draka EP products meet include: NEC, CEC, UL, CSA, the US Department of Labor/Mine Safety or the Pennsylvania Bureau of Deep Mine Safety as well as European DIN and EN standards.

### Specialty Products

Along with the items listed in this catalog, Draka EP can also manufacture products that meet your specific applications:

Special constructions - cables with custom configurations of power conductors, shielded twisted pair communication cables, coaxial CCTV video or fiber optic sub-units are available. Minimum quantities may apply. Contact Draka EP for details.

Halogen-free cables - for demanding fire-safety requirements, Draka EP can manufacture traveling cable with halogen-free compositions. Call us for pricing and delivery.

Installation kits - Draka EP can assemble all the items needed to install any of our cables in one neat shipment. Cable, hanging hardware, grips, conduit, nuts, bolts, tools, even electrical tape arrive on site in one easily stored and inventoried package. Increase your on-site efficiency with Draka EP installation kits.

Connectorization - Many Draka EP hoistway and traveling cables can be connectorized for fast and easy installation. Call for details and pricing.

### Customer service

Draka EP has a complete and dedicated customer service staff located in Rocky Mount, NC. They can be reached by calling toll free 1-877-372-5237 (877-DRAKA EP) (+1-252-984-5100 outside the US and Canada) 6 am - 8 pm ET for product information, ordering and pricing.

### Technical support

Should you need an answer on product application, installation or capability, call Draka EP at 1-877-408-HELP (877-408-4357) from 6 am - 8 pm ET. You will have an answer within 24 hours. If you need more of a 'hands-on' response (such as training, troubleshooting or on-site evaluation), Draka EP personnel are available to travel to your locations and assist you in every way possible.



### Draka EP installation guides

In order to help you in the safe and efficient installation of our products, Draka Elevator Products has an experienced staff able to assist you with any questions you may have. We also offer a series of easy-to-follow installation guides. Contact us for details.

### www.draka-ep.com

This catalog can be viewed electronically at [www.draka-ep.com](http://www.draka-ep.com) along with new product bulletins and technical support information.



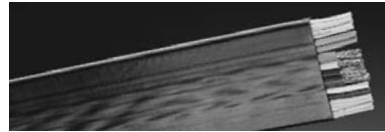
### OEM and Replacement Products

Over 30,000 mechanical, electrical and hydraulic parts and components.



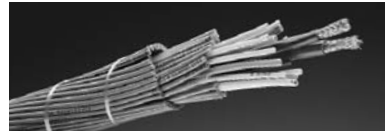
### Super-Flex® Round Traveling Cable

The most popular traveling cable in the world.



### Flat Traveling Cable

A durable and supple flat cable with superior performance characteristics.



### Super-Duct® Hoistway Cables

Unparalleled for their safety and performance.



### Whisper-Flex® Compensation Cable

The ultimate in flexible and quiet hoistway compensation.



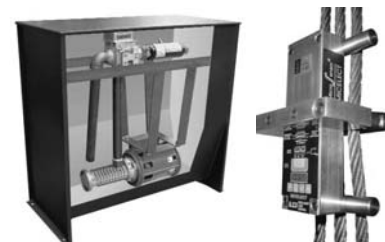
### Connectorization Services

Reduce installation time and cost.



### Hoistway Hardware

We warehouse and ship all the components necessary to safely and efficiently install and maintain Draka EP products.



### New Products Constantly Added

New products in this catalog include submersible power units, Micelect load weighing devices, the Schmersal USP positioning system and more.

# Cable Cross-Sections

## US/Canadian conductor color codes

### 14 AWG • 2.0mm<sup>2</sup> conductors

Conductor Number(s)	Insulation Color
1	Black
2	White
3	Green
4 to 10	Lavender
11 to 20	Orange
21 to 30	Tan

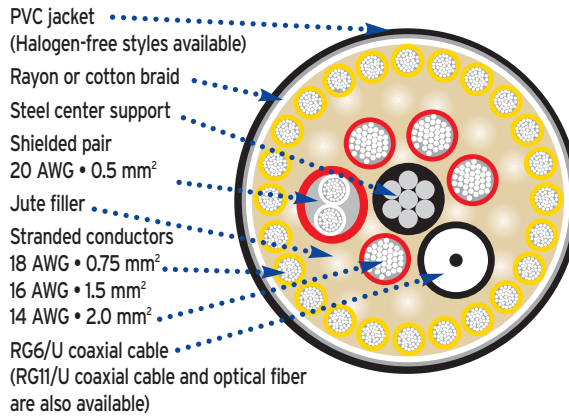
### 16 AWG • 1.5mm<sup>2</sup> and 18 AWG • 0.75mm<sup>2</sup> conductors

Conductor Number(s)	Insulation Color
1 to 10	Yellow
11 to 20	Orange
21 to 30	Tan
31 to 40	Blue
41 to 50	Red
51 to 60	Grey
61 to 70	Black
71 to 80	Pink
81 to 90	Brown

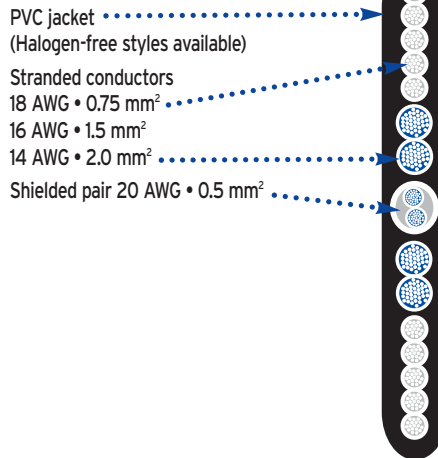
### Shielded pair 20 AWG • 0.5mm<sup>2</sup>

Conductor Number(s)	Jacket Color	Insulation Color
1	Red	Red/White
2	Black	Red/White
3	Yellow	Red/White
4	Orange	Red/White
5	Tan	Red/White
6	Blue	Red/White
7	Grey	Red/White
8	Pink	Red/White
9	Red	Black/White
10	Black	Black/White
11	Yellow	Black/White
12	Orange	Black/White
13	Tan	Black/White
14	Blue	Black/White
15	Grey	Black/White
16	Pink	Black/White

### TYPICAL SUPER-FLEX® ROUND CABLE CROSS-SECTION



### TYPICAL FLAT CABLE CROSS-SECTION



### AWG > METRIC EQUIVALENTS

12 AWG	>	3.30 mm <sup>2</sup> - 65 strands
14 AWG	>	2.00 mm <sup>2</sup> - 41 strands
16 AWG	>	1.50 mm <sup>2</sup> - 26 strands
18 AWG	>	0.75 mm <sup>2</sup> - 16 strands
20 AWG	>	0.50 mm <sup>2</sup> - 10 strands

all strand sizes are 0.01" • 0.254 mm<sup>2</sup>



### Certifications

**ISO 9001**  
Draka EP's Rocky Mount facility was assessed and registered by Lloyd's Register Quality Assurance Limited for ISO 9001, EN ISO 9001 and ANSI/ASQC Q9001.

**UL Listed**  
for cables approved for use in the US that meet all pertinent requirements of Underwriter's Laboratories.

**NEC Compliant**  
for cables used within the US that meet all pertinent requirements of the 2002 National Electric Code.

**CSA Certified**  
for cables approved for use in Canada that meet all pertinent requirements of the Canadian Standards Association.

**Pennsylvania Bureau of Deep Mine Safety**  
approved for cables used in commercial mines.

**US Dept. of Labor Mine Safety**  
approved for cables used in commercial mines.

# Internal Components

## for Draka EP finished cables

### Electrical components for traveling and hoistway cables

#### Stranded Conductors

Bunch-stranded bare soft drawn copper. AWG sizes comply with ANSI/ASTM B174, ANSI/ASTM B3 and with Type ETT requirements of UL 62 and CSA C22.2 No. 49.

#### Insulation

60° C, colored, flame-retardant polyvinyl chloride complying with ETT requirements of UL 62 and CSA C22.2 No. 49.

#### Identification

Each insulated conductor and shielded pair is positively identified by an insulation color or a combination of insulation color and numerical markings appearing four times/foot • thirteen times/meter.

### Mechanical components for traveling and hoistway cables

#### Steel Support for Round Traveling Cables

Preformed, flexible, low torsion, zinc-coated, steel wire rope in accordance with applicable portions of Military Specification MIL-W-83420. The steel support is insulated with 60° C flame-retardant polyvinyl chloride (Super-Flex® cables have the steel covered with a rayon or cotton braid). Complies with ANSI/ASTM, UL and CSA requirements.

#### Steel Support for Flat Traveling Cables

Preformed, flexible, low torsion, zinc-coated, steel wire rope in accordance with applicable portions of Military Specification MIL-W-83420. Complies with ANSI/ASTM, UL and CSA requirements.

NOTE: The National Electrical Code (NEC) requires steel support for traveling cables with hanging lengths of over 200 feet/61 meters.

#### Jute Filler

All fillers are electrical-grade dry jute. Fillers are an aid in producing a torsionally-balanced cable. Individual core interstice fillers distribute interlayer pressure and reduce conductor friction.

#### Binder

Helically-wound synthetic fiber provides maximum strength.

#### Braid

A rayon or cotton braid is applied over the core assembly with 95% coverage.

#### Jacket

The outer jacket is black, 60° C polyvinyl chloride specifically compounded for flexibility and abrasion resistance. The finished cable meets either the UL VW-1 or UL-1581 and CSA FT1 flame requirements. It also complies with ANSI/ASTM, UL and CSA requirements as needed. Operating temperatures range from +5 °F • -15 °C to +140 °F • +60 °C.

Optional rugged polyurethane (PUR) jackets are available upon request. Operating temperatures for PUR cables range from -4 °F • -20 °C to +140 °F • +60 °C.

Certain cables are available with halogen-free jackets and insulation. See page 67 for round halogen-free cable. Halogen-free flat traveling cable is also available.

### Communication components for traveling and hoistway cables

#### Shielded Pairs

20 AWG • 0.5 mm<sup>2</sup>, or 18 AWG • 0.75 mm<sup>2</sup> insulated conductors, paired together with a short lay twist, shielded with 36 AWG bare copper braid for 85% coverage. They are jacketed with colored, flame-retardant 60° C polyvinyl chloride and comply with ANSI/ASTM, UL and CSA requirements.

#### RG11/U Coaxial Cable

Excellent for CCTV applications. 75 ohm, UL listed. Center conductor is 16 AWG • 1.5 mm<sup>2</sup> soft drawn stranded copper insulated with cellular polyethylene, braided with bare copper for 97% coverage and jacketed with flame-retardant PVC.  
Attenuation: 0.66 dB/100' • 2.16 dB/100m @ 10 MHz  
1.30 dB/100' • 4.26 dB/100m @ 50 MHz  
Capacitance: 17.3 pf/ft • 56.7 pf/m

#### RG6/U Coaxial Cable

Good for CCTV applications. 75 ohm, UL listed, CSA certified. Center conductor is 20 AWG • 0.5 mm<sup>2</sup> stranded copper insulated with cellular polyethylene, wrapped with aluminum tape (100% coverage), braided with tinned copper (60% coverage) and jacketed with flame-retardant PVC.  
Attenuation: 0.65 dB/100' • 2.13 dB/100m @ 10 MHz  
1.55 dB/100' • 5.08 dB/100m @ 50 MHz  
Capacitance: 17.3 pf/ft • 56.7 pf/m

#### Fiber Optic Subunit

62.5/125 micron tight-buffered multimode optical fiber, covered with high-strength aramid yarn and jacketed with flame-retardant polyvinyl chloride.  
Max. attenuation @ 850 nm: 3.75 dB/km  
Max. attenuation @ 1300 nm: 1.5 dB/km  
Min. bandwidth @ 850 nm: 160 MHz•km  
Min. bandwidth @ 1300 nm: 500 MHz•km

### Whisper-Flex® and Steadi-Flex® components

#### Chain

Low carbon, electrically-welded proof coil chain. Each link is proof-tested at two times the working load limit.

#### Filler

Metallic bead/polyvinyl chloride mixture adds mass and forms a round cross-section.

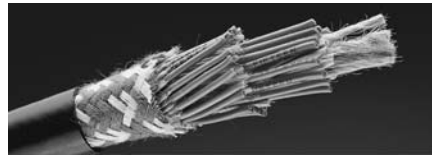
#### Jacket

60°C flame-retardant polyvinyl chloride that resists oxidation, weathering, solvents, chemicals and flame.



# Super-Flex® Traveling Cable Type ETT/300V

Jute center to meet UL/CSA/NEC/CEC standards



## with power/signal conductors only

Part Number	Product Code	Number/Type • Size of Conductors	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
18-004-01	J 4-14	4 /14 AWG • 2.0 mm <sup>2</sup>	200 • 61	0.48 • 12.2	132 • 196
18-404-01	J 4-18	4 /18 AWG • 0.75 mm <sup>2</sup>	200 • 61	0.36 • 9.14	68 • 101
18-406-03	J 6-18 SP	6 /18 AWG • 0.75 mm <sup>2</sup> NOTE: Insulation colors are green, yellow, blue, red, black and white.	200 • 61	0.43 • 10.9	96 • 143
18-410-01	J 10-18	10 /18 AWG • 0.75 mm <sup>2</sup>	200 • 61	0.54 • 13.7	160 • 238
18-416-01	J 16-18	16 /18 AWG • 0.75 mm <sup>2</sup>	200 • 61	0.64 • 16.3	219 • 326
18-420-01	J 20-18	20 /18 AWG • 0.75 mm <sup>2</sup>	200 • 61	0.71 • 18.0	266 • 396
18-424-01	J 24-18	24 /18 AWG • 0.75 mm <sup>2</sup>	200 • 61	0.73 • 18.5	304 • 452
18-430-01	J 30-18	30 /18 AWG • 0.75 mm <sup>2</sup>	200 • 61	0.82 • 20.8	378 • 562
18-440-01	J 40-18	40 /18 AWG • 0.75 mm <sup>2</sup>	200 • 61	0.92 • 23.4	475 • 707

### Component Specifications

**Stranded Conductors**  
Bunch-stranded bare soft drawn copper, insulated with 60° C colored, flame-retardant PVC complying with ANSI/ASTM, UL and CSA requirements and codes, identified by insulation color or a combination of insulation color and numerical markings appearing four times per foot.

**Shielded Pairs**  
Composed of insulated conductors, braided with 36 AWG bare copper for 85% coverage, and jacketed with 60° C colored, flame-retardant PVC.

**Jute Filler**  
Electrical-grade dry jute distributes interlayer pressure and reduces conductor friction.

**Binder**  
Strong, helically-wound synthetic fiber.

**Braid**  
A rayon or cotton braid is applied with 95% coverage.

**Jacket**  
60° C PVC specifically compounded for flexibility and abrasion resistance. UL VW-1 and CSA FT1 flame rated throughout. Polyurethane (PUR) jackets are available upon request.

## with shielded pairs only

Part Number	Product Code	Number/Type • Size of Conductors	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
18-102-28	JCC 4x20SH	4 sh. pairs /20 AWG • 0.5 mm <sup>2</sup>	200 • 61	0.79 • 20.1	270 • 402



### Recommended tools

**36-060 Flexi-Peeler**  
for cable diameters of 0.2 to 1.5 in • 4.5 to 40 mm



**36-177 Sock Slicer**  
for easy braid removal



**36-178 Steel Core Cutters**  
for cutting steel support cable



**36-219 Automatic Wire Stripper**  
for 22 to 10 AWG



Connectorized Super-Flex cables are available; call 1-877-372-5237 for details.  
Call 1-877-372-5237 to get a Super-Flex installation guide.

# Super-Flex<sup>®</sup> Traveling Cable Type ETT/300V

Jute center to meet UL/CSA/NEC/CEC standards



UL Listed  
CSA Certified  
NEC Compliant  
CEC Compliant

## with power/signal and shielded pairs

Part Number	Product Code	Number/Type • Size Conductors & Shielded Pairs	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
18-027-02	JC 27	3 /14 AWG • 2.0 mm <sup>2</sup> 20 /18 AWG • 0.75 mm <sup>2</sup> 2 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	200 • 61	0.94 • 23.8	466 • 693
18-322-05	JC 33 SP	3 /14 AWG • 2.0 mm <sup>2</sup> 22 /18 AWG • 0.75 mm <sup>2</sup> 4 sh. pair /20 AWG • 0.5 mm <sup>2</sup> NOTE: 14 AWG • 2.0 mm <sup>2</sup> conductors are not numbered	200 • 61	1.23 • 31.2	719 • 1070
18-431-02	JC 37	4 /14 AWG • 2.0 mm <sup>2</sup> 31 /18 AWG • 0.75 mm <sup>2</sup> 1 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	200 • 61	1.19 • 30.2	672 • 1000
18-038-02	JC 38 W	12 /14 AWG • 2.0 mm <sup>2</sup> 18 /18 AWG • 0.75 mm <sup>2</sup> 4 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	200 • 61	1.25 • 31.8	806 • 1199
18-032-99	JC 45	4 /14 AWG • 2.0 mm <sup>2</sup> 39 /18 AWG • 0.75 mm <sup>2</sup> 1 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	200 • 61	0.99 • 25.1	617 • 918
18-045-02	JC 45 D	4 /14 AWG • 2.0 mm <sup>2</sup> 31 /18 AWG • 0.75 mm <sup>2</sup> 5 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	200 • 61	1.31 • 33.3	805 • 1198
18-445-02	JC 51	4 /14 AWG • 2.0 mm <sup>2</sup> 45 /18 AWG • 0.75 mm <sup>2</sup> 1 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	200 • 61	1.20 • 30.5	757 • 1126
18-055-02	JC 55 D	4 /14 AWG • 2.0 mm <sup>2</sup> 41 /18 AWG • 0.75 mm <sup>2</sup> 5 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	200 • 61	1.39 • 35.3	917 • 1365
18-057-02	JC 57	6 /14 AWG • 2.0 mm <sup>2</sup> 45 /18 AWG • 0.75 mm <sup>2</sup> 3 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	200 • 61	1.39 • 35.3	943 • 1403
18-059-02	JC 59	4 /14 AWG • 2.0 mm <sup>2</sup> 49 /18 AWG • 0.75 mm <sup>2</sup> 3 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	200 • 61	1.22 • 30.1	872 • 1298
18-454-02	JC 60	4 /14 AWG • 2.0 mm <sup>2</sup> 54 /18 AWG • 0.75 mm <sup>2</sup> 1 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	200 • 61	1.26 • 32.0	855 • 1272
18-456-02	JC 66	4 /14 AWG • 2.0 mm <sup>2</sup> 56 /18 AWG • 0.75 mm <sup>2</sup> 3 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	200 • 61	1.33 • 33.8	955 • 1421
18-073-02	JC 73	6 /14 AWG • 2.0 mm <sup>2</sup> 61 /18 AWG • 0.75 mm <sup>2</sup> 3 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	200 • 61	1.35 • 34.3	1042 • 1551
18-076-02	JC 76	66 /18 AWG • 0.75 mm <sup>2</sup> 5 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	200 • 61	1.42 • 36.1	1017 • 1513
18-764-05	JC 79 SP	7 /14 AWG • 2.0 mm <sup>2</sup> 64 /18 AWG • 0.75 mm <sup>2</sup> 4 sh. pair /20 AWG • 0.5 mm <sup>2</sup> NOTE: 14 AWG • 2.0 mm <sup>2</sup> conductor #7 is dark blue	200 • 61	1.45 • 36.8	1200 • 1786
18-476-02	JC 86	4 /14 AWG • 2.0 mm <sup>2</sup> 76 /18 AWG • 0.75 mm <sup>2</sup> 3 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	200 • 61	1.39 • 35.3	1128 • 1679
18-096-02	JC 96	86 /18 AWG • 0.75 mm <sup>2</sup> 5 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	200 • 61	1.42 • 36.1	1180 • 1756

### Component Specifications

#### Stranded Conductors

Bunch-stranded bare soft drawn copper, insulated with 60° C colored, flame-retardant PVC complying with ANSI/ASTM, UL and CSA requirements and codes, identified by insulation color or a combination of insulation color and numerical markings appearing four times per foot.

#### Shielded Pairs

Composed of insulated conductors, braided with 36 AWG bare copper for 85% coverage, and jacketed with 60° C colored, flame-retardant PVC.

#### Jute Filler

Electrical-grade dry jute distributes interlayer pressure and reduces conductor friction.

#### Binder

Strong, helically-wound synthetic fiber.

#### Braid

A rayon or cotton braid is applied with 95% coverage.

#### Jacket

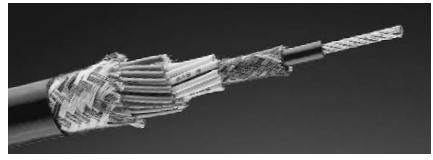
60° C PVC specifically compounded for flexibility and abrasion resistance. UL VW-1 and CSA FT1 flame rated throughout. Polyurethane (PUR) jackets are available upon request.





# Super-Flex® Traveling Cable Type ETT/300V

Steel center to meet UL/CSA/NEC/CEC standards



## with power/signal conductors only

Part Number	Product Code	Number/Type • Size Size of Conductors	Steel Core Dia. inches • mm	Max. Hang Length <sup>†</sup> feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
18-004-11	WS 4-14	4 /14 AWG • 2.0 mm <sup>2</sup>	3/32 • 2.4	900 • 275	0.57 • 14.4	166 • 247
18-008-11	WS 8-14	8 /14 AWG • 2.0 mm <sup>2</sup>	1/8 • 3.2	900 • 275	0.70 • 17.8	293 • 436
18-015-11	WS 15-14	15 /14 AWG • 2.0 mm <sup>2</sup>	1/8 • 3.2	900 • 275	0.93 • 23.6	487 • 725
18-308-11	WS 8-16	8 /16 AWG • 1.5 mm <sup>2</sup>	3/32 • 2.4	900 • 275	0.53 • 13.5	174 • 259
18-230-11	WS 30-16	30 /16 AWG • 1.5 mm <sup>2</sup>	1/8 • 3.2	900 • 275	0.90 • 22.9	549 • 817
18-306-11	WS 6-18	6 /18 AWG • 0.75 mm <sup>2</sup>	3/32 • 2.4	900 • 275	0.49 • 12.5	124 • 185
18-310-11	WS 10-18	10 /18 AWG • 0.75 mm <sup>2</sup>	3/32 • 2.4	900 • 275	0.56 • 14.2	175 • 260
18-412-11	WS 12-18	12 /18 AWG • 0.75 mm <sup>2</sup>	3/32 • 2.4	900 • 275	0.65 • 16.5	280 • 417
18-420-11	WS 20-18	20 /18 AWG • 0.75 mm <sup>2</sup>	3/32 • 2.4	804 • 245	0.71 • 18.0	286 • 426
18-430-11	WS 30-18	30 /18 AWG • 0.75 mm <sup>2</sup>	1/8 • 3.2	900 • 275	0.82 • 20.8	417 • 620
18-440-11	WS 40-18	40 /18 AWG • 0.75 mm <sup>2</sup>	1/8 • 3.2	900 • 275	0.92 • 23.4	509 • 757
18-450-11	WS 50-18	50 /18 AWG • 0.75 mm <sup>2</sup>	1/8 • 3.2	795 • 242	1.01 • 25.7	629 • 936
18-075-40	WS 75-18 SPA	75 /18 AWG • 0.75 mm <sup>2</sup>	5/32 • 4.0	773 • 236	1.19 • 30.2	906 • 1348

NOTE: Conductors 1 to 10 are pink. Conductor 75 is yellow/green.

<sup>†</sup> For longer hang length applications, call with your requirements.

## with shielded pairs only

Part Number	Product Code	Number/Type • Size Size of Conductors	Steel Core Dia. inches • mm	Max. Hang Length <sup>†</sup> feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
18-301-15	WSCC 2x20 SH	2 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	3/32 • 2.4	900 • 275	0.77 • 19.1	200 • 298
18-002-15	WSCC 4x20 SH	4 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	1/8 • 3.2	900 • 275	0.79 • 20.0	330 • 491
18-003-15	WSCC 6x20 SH	6 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	1/8 • 3.2	900 • 275	0.85 • 21.6	365 • 543
18-004-15	WSCC 8x20 SH	8 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	900 • 275	1.00 • 25.4	490 • 729
18-403-15	WSCC 6x18 SH	6 sh. pair /18 AWG • 0.75 mm <sup>2</sup>	5/32 • 4.0	900 • 275	0.93 • 23.6	418 • 622
18-404-15	WSCC 8x18 SH	8 sh. pair /18 AWG • 0.75 mm <sup>2</sup>	5/32 • 4.0	900 • 275	1.10 • 27.9	584 • 869
18-407-15	WSCC 14x18 SH	14 sh. pair /18 AWG • 0.75 mm <sup>2</sup>	5/32 • 4.0	714 • 218	1.44 • 36.6	981 • 1460

<sup>†</sup> For longer hang length applications, call with your requirements.

## Recommended tools

**36-060 Flexi-Peeler**  
for cable diameters of 0.2 to 1.5 in  
• 4.5 to 40 mm



**36-177 Sock Slicer**  
for easy braid removal



**36-178 Steel Core Cutters**  
for cutting steel support cable



**36-219 Automatic Wire Stripper**  
for 22 to 10 AWG



Connectorized Super-Flex cables are available; call 1-877-372-5237 for details.  
Call 1-877-372-5237 to get a Super-Flex installation guide.

### Component Specifications

**Steel Central Support**  
Preformed, flexible, low torsion, zinc-coated, steel wire rope meeting Military Specification MIL-W-83420, insulated with 60° C flame-retardant PVC and covered with a rayon or cotton braid.

**Stranded Conductors**  
Bunch-stranded bare soft drawn copper, insulated with 60° C colored, flame-retardant PVC complying with ANSI/ASTM, UL and CSA requirements and codes, identified by insulation color or a combination of insulation color and numerical markings appearing four times per foot.

**Shielded Pairs**  
Composed of insulated conductors, braided with 36 AWG bare copper for 85% coverage, and jacketed with 60° C colored, flame-retardant PVC.

**Jute Filler**  
Electrical-grade dry jute distributes interlayer pressure and reduces conductor friction.

**Binder**  
Strong, helically-wound synthetic fiber.

**Braid**  
A rayon or cotton braid is applied with 95% coverage.

**Jacket**  
60° C PVC specifically compounded for flexibility and abrasion resistance. UL VW-1 and CSA FT1 flame rated throughout. Polyurethane (PUR) jackets are available upon request.

# Super-Flex<sup>®</sup> Traveling Cable Type ETT/300V

## Steel center to meet UL/CSA/NEC/CEC standards



UL Listed  
CSA Certified  
NEC Compliant  
CEC Compliant

### Component Specifications

**Steel Central Support**  
Preformed, flexible, low torsion, zinc-coated, steel wire rope meeting Military Specification MIL-W-83420, insulated with 60° C flame-retardant PVC and covered with a rayon or cotton braid.

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Bunch-stranded bare soft drawn copper, insulated with 60° C colored, flame-retardant PVC complying with ANSI/ASTM, UL and CSA requirements and codes, identified by insulation color or a combination of insulation color and numerical markings appearing four times per foot.

**Shielded Pairs**  
Composed of insulated conductors, braided with 36 AWG bare copper for 85% coverage, and jacketed with 60° C colored, flame-retardant PVC.

**Jute Filler**  
Electrical-grade dry jute distributes interlayer pressure and reduces conductor friction.

**Binder**  
Strong, helically-wound synthetic fiber.

**Braid**  
A rayon or cotton braid is applied with 95% coverage.

**Jacket**  
60° C PVC specifically compounded for flexibility and abrasion resistance. UL VW-1 and CSA FT1 flame rated throughout. Polyurethane (PUR) jackets are available upon request.

### with power/signal and shielded pairs

Part Number	Product Code	Number/Type • Size Conductors & Shielded Pairs	Steel Core Dia. inches • mm	Max. Hang Length <sup>†</sup> feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
18-020-12	CWS 20	14 /18 AWG • 0.75 mm <sup>2</sup> 3 sh. pairs /20 AWG • 0.5 mm <sup>2</sup>	3/32 • 2.4	612 • 187	0.95 • 24.1	376 • 560
18-421-12	CWS 27	4 /14 AWG • 2.0 mm <sup>2</sup> 21 /18 AWG • 0.75 mm <sup>2</sup> 1 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	900 • 275	0.96 • 24.4	500 • 744
18-027-39	CSA 27	5 /2.0 mm <sup>2</sup> 20 /0.75 mm <sup>2</sup> 1 sh. pair /0.5 mm <sup>2</sup>	1/8 • 3.2	900 • 275	0.96 • 24.4	472 • 700
18-035-39	CSA 35	9 /2.0 mm <sup>2</sup> 22 /0.75 mm <sup>2</sup> 2 sh. pairs /0.5 mm <sup>2</sup>	1/8 • 3.2	612 • 187	1.32 • 33.5	814 • 1206
18-431-12	CWS 37	4 /14 AWG • 2.0 mm <sup>2</sup> 31 /18 AWG • 0.75 mm <sup>2</sup> 1 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	900 • 275	1.18 • 30.0	700 • 1042
18-044-12	CWS 44	14 /14 AWG • 2.0 mm <sup>2</sup> 24 /18 AWG • 0.75 mm <sup>2</sup> 3 sh. pairs /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	753 • 230	1.33 • 33.8	929 • 1382
18-X24-34	CSA 44	14 /1.5 mm <sup>2</sup> 24 /0.75 mm <sup>2</sup> 3 sh. pairs /0.5 mm <sup>2</sup>	5/32 • 4.0	816 • 249	1.33 • 33.8	859 • 1272
18-045-12	CWS 45 D	4 /14 AWG • 2.0 mm <sup>2</sup> 31 /18 AWG • 0.75 mm <sup>2</sup> 5 sh. pairs /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	776 • 237	1.31 • 33.3	902 • 1342
18-A46-12	CWS 46	8 /14 AWG • 2.0 mm <sup>2</sup> 30 /18 AWG • 0.75 mm <sup>2</sup> 4 sh. pairs /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	769 • 234	1.32 • 33.5	910 • 1354
18-441-12	CWS 47	4 /14 AWG • 2.0 mm <sup>2</sup> 41 /18 AWG • 0.75 mm <sup>2</sup> 1 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	900 • 275	1.20 • 30.5	771 • 1147
18-47L-12	CWS 47 LO	11 /14 AWG • 2.0 mm <sup>2</sup>	5/32 • 4.0	695 • 212	1.40 • 35.6	1012 • 1498
18-47H-12	CWS 47 HI	22 /18 AWG • 0.75 mm <sup>2</sup> 7 sh. pairs /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	695 • 212	1.40 • 35.6	1012 • 1498
NOTE ON CWS 47 LO: 14 AWG • 2.0 mm <sup>2</sup> conductors are numbered 1 to 11 18 AWG • 0.75 mm <sup>2</sup> conductors are numbered 1 to 22 20 AWG • 0.5 mm <sup>2</sup> pairs have red/white conductors within red, black, yellow, orange, tan, blue and gray jackets						
NOTE ON CWS 47 HI: 14 AWG • 2.0 mm <sup>2</sup> conductors are numbered 12 to 22. 18 AWG • 0.75 mm <sup>2</sup> conductors are numbered 23 to 44. 20 AWG • 0.5 mm <sup>2</sup> pairs have red/white conductors within a pink jacket and black/white conductors within red, black, yellow, orange, tan and blue jackets.						
18-L47-34*	CSA 47 LO	11 /1.5 mm <sup>2</sup>	5/32 • 4.0	695 • 212	1.40 • 35.6	1007 • 1491
18-H47-34*	CSA 47 HI	22 /0.75 mm <sup>2</sup> 7 sh. pairs /0.5 mm <sup>2</sup>	5/32 • 4.0	695 • 212	1.40 • 35.6	1007 • 1491
NOTE ON CSA 47 LO: 16 AWG • 1.5 mm <sup>2</sup> conductors are numbered 1 to 11 18 AWG • 0.75 mm <sup>2</sup> conductors are numbered 1 to 22						
NOTE ON CSA 47 HI: 16 AWG • 1.5 mm <sup>2</sup> conductors are numbered 12 to 22 18 AWG • 0.75 mm <sup>2</sup> conductors are numbered 23 to 44						
18-445-12	CWS 51	4 /14 AWG • 2.0 mm <sup>2</sup> 45 /18 AWG • 0.75 mm <sup>2</sup> 1 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	878 • 268	1.20 • 30.5	797 • 1186
18-648-12	CWS 56	6 /14 AWG • 2.0 mm <sup>2</sup> 48 /18 AWG • 0.75 mm <sup>2</sup> 1 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	826 • 252	1.20 • 30.5	847 • 1260

<sup>†</sup> For longer hang length applications, call with your requirements.

\*NOTE: 18-L47-34 and 18-H47-34 are not UL or CSA listed.



# Super-Flex® Traveling Cable Type ETT/300V

## Steel center to meet UL/CSA/NEC/CEC standards



with power/signal and shielded pairs

Part Number	Product Code	Number/Type • Size Conductors & Shielded Pairs	Steel Core Dia. inches • mm	Max. Hang Length <sup>†</sup> feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km	
18-L58-12	CWS 58 LO	4 /14 AWG • 2.0 mm <sup>2</sup>	5/32 • 4.0	622 • 190	1.51 • 38.4	1125 • 1674	
18-H58-12	CWS 58 HI	40 /18 AWG • 0.75 mm <sup>2</sup> 7 sh. pair /20 AWG • 0.5 mm <sup>2</sup>  NOTE ON CWS 58 LO: 14 AWG • 2.0 mm <sup>2</sup> conductors are numbered 1 to 4 18 AWG • 0.75 mm <sup>2</sup> conductors are numbered 1 to 40 20 AWG • 0.5 mm <sup>2</sup> pairs have red/white conductors within red, black, yellow, orange, tan, blue and gray jackets NOTE ON CWS 58 HI: 14 AWG • 2.0 mm <sup>2</sup> conductors are numbered 5 to 8 (#8 is dark blue) 18 AWG • 0.75 mm <sup>2</sup> conductors are numbered 41 to 80 20 AWG • 0.5 mm <sup>2</sup> pairs have black/white conductors within red, black, yellow, orange, tan, blue and gray jackets					
18-059-12	CWS 59	4 /14 AWG • 2.0 mm <sup>2</sup> 49 /18 AWG • 0.75 mm <sup>2</sup> 3 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	791 • 241	1.22 • 31.0	885 • 1317	
18-X60-12	CWS 60	7 /14 AWG • 2.0 mm <sup>2</sup> 27 /18 AWG • 0.75 mm <sup>2</sup> 13 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	1/4 • 6.4	900 • 275	1.58 • 40.1	1289 • 1918	
18-064-12	CWS 64	22 /14 AWG • 2.0 mm <sup>2</sup> 30 /18 AWG • 0.75 mm <sup>2</sup> 6 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	1/4 • 6.4	900 • 275	1.61 • 40.9	1425 • 2120	
18-661-12	CWS 71	6 /14 AWG • 2.0 mm <sup>2</sup> 61 /18 AWG • 0.75 mm <sup>2</sup> 2 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	614 • 187	1.39 • 35.3	1140 • 1696	
18-073-12	CWS 73	6 /14 AWG • 2.0 mm <sup>2</sup> 61 /18 AWG • 0.75 mm <sup>2</sup> 3 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	608 • 185	1.39 • 35.3	1151 • 1709	
18-X74-12	CWS 74	20 /14 AWG • 2.0 mm <sup>2</sup> 38 /18 AWG • 0.75 mm <sup>2</sup> 8 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	491 • 150	1.54 • 39.1	1426 • 2122	
18-469-12	CWS 75	4 /14 AWG • 2.0 mm <sup>2</sup> 69 /18 AWG • 0.75 mm <sup>2</sup> 1 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	663 • 202	1.38 • 35.0	1056 • 1571	
18-881-12	CWS 81	8 /14 AWG • 2.0 mm <sup>2</sup> 59 /18 AWG • 0.75 mm <sup>2</sup> 7 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	524 • 160	1.60 • 40.6	1336 • 1988	
18-X90-12	CWS 90	6 /14 AWG • 2.0 mm <sup>2</sup> 80 /18 AWG • 0.75 mm <sup>2</sup> 2 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	555 • 169	1.46 • 37.1	1262 • 1878	
18-X94-12	CWS 94	12 /14 AWG • 2.0 mm <sup>2</sup> 70 /18 AWG • 0.75 mm <sup>2</sup> 6 sh. pair /18 AWG • 0.75 mm <sup>2</sup>	1/4 • 6.4	900 • 275	1.68 • 42.7	1663 • 2475	
18-096-12	CWS 96	86 /18 AWG • 0.75 mm <sup>2</sup> 5 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	5/32 • 4.0	576 • 176	1.42 • 36.1	1215 • 1808	

<sup>†</sup> For longer hang length applications, call with your requirements.

### Recommended tools

**36-060 Flexi-Peeler**  
for cable diameters of 0.2 to 1.5 in  
• 4.5 to 40 mm



**36-177 Sock Slicer**  
for easy braid removal



**36-178 Steel Core Cutters**  
for cutting steel support cable



**36-219 Automatic Wire Stripper**  
for 22 to 10 AWG



Connectorized Super-Flex cables are available; call 1-877-372-5237 for details.  
Call 1-877-372-5237 to get a Super-Flex installation guide.

### Component Specifications

**Steel Central Support**  
Preformed, flexible, low torsion, zinc-coated, steel wire rope meeting Military Specification MIL-W-83420, insulated with 60° C flame-retardant PVC and covered with a rayon or cotton braid.

**Stranded Conductors**  
Bunch-stranded bare soft drawn copper, insulated with 60° C colored, flame-retardant PVC complying with ANSI/ASTM, UL and CSA requirements and codes, identified by insulation color or a combination of insulation color and numerical markings appearing four times per foot.

**Shielded Pairs**  
Composed of insulated conductors, braided with 36 AWG bare copper for 85% coverage, and jacketed with 60° C colored, flame-retardant PVC.

**Jute Filler**  
Electrical-grade dry jute distributes interlayer pressure and reduces conductor friction.

**Binder**  
Strong, helically-wound synthetic fiber.

**Braid**  
A rayon or cotton braid is applied with 95% coverage.

**Jacket**  
60° C PVC specifically compounded for flexibility and abrasion resistance. UL VW-1 and CSA FT1 flame rated throughout. Polyurethane (PUR) jackets are available upon request.

# Super-Flex<sup>®</sup> Traveling Cable Type ETT/300V

## Steel center to meet UL/CSA/NEC/CEC standards



UL Listed  
CSA Certified  
NEC Compliant  
CEC Compliant

with power/signal, shielded pairs and/or coax

Part Number	Product Code	Number/Type • Size Conductors & Shielded Pairs	Steel Core Dia. inches • mm	Max. Hang Length <sup>†</sup> feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
18-X05-13	CSX 5	3 /14 AWG • 2.0 mm <sup>2</sup> 2 coax /RG6/U	5/32 • 4.0	900 • 275	1.10 • 27.9	500 • 742
18-309-13	CSX 9	4 /14 AWG • 2.0 mm <sup>2</sup> 2 sh. pairs /20 AWG • 0.5 mm <sup>2</sup> 1 coax /RG6/U	5/32 • 4.0	900 • 275	0.87 • 22.1	370 • 550
18-214-13	CSX 14	6 sh. pairs /20 AWG • 0.5 mm <sup>2</sup> 2 coax /RG6/U	5/32 • 4.0	900 • 275	1.06 • 26.9	570 • 848
18-X36-13	CSX 36	17 /14 AWG • 2.0 mm <sup>2</sup> 8 sh. pairs /20 AWG • 0.5 mm <sup>2</sup> 3 coax /RG6/U	1/4 • 6.4	900 • 275	1.61 • 40.9	1271 • 1891
18-X46-13	CSX 46	11 /14 AWG • 2.0 mm <sup>2</sup> 22 /18 AWG • 0.75 mm <sup>2</sup> 6 sh. pairs /20 AWG • 0.5 mm <sup>2</sup> 1 coax /RG6/U	5/32 • 4.0	683 • 208	1.44 • 36.6	1025 • 1525
18-46L-34	CSX 46A LO	11 /1.5 mm <sup>2</sup>	5/32 • 4.0	695 • 212	1.50 • 38.3	1009 • 1494
18-46H-34	CSX 46A HI	22 /0.75 mm <sup>2</sup> 6 sh. pairs /0.5 mm <sup>2</sup> 1 coax /RG6/U				
NOTE ON CSX 46A LO: 1.5 mm <sup>2</sup> conductors are numbered 1 to 11. 0.75 mm <sup>2</sup> conductors are numbered 1 to 22.						
NOTE ON CSX 46A HI: 1.5 mm <sup>2</sup> conductors are numbered 12 to 22. 0.75 mm <sup>2</sup> conductors are numbered 23 to 44.						
18-X47-13	CSX 47	4 /14 AWG • 2.0 mm <sup>2</sup> 30 /18 AWG • 0.75 mm <sup>2</sup> 6 sh. pairs /20 AWG • 0.5 mm <sup>2</sup> 1 coax /RG6/U	5/32 • 4.0	740 • 226	1.35 • 34.3	946 • 1408
18-147-13	CSX 47C	7 /14 AWG • 2.0 mm <sup>2</sup> 19 /18 AWG • 0.75 mm <sup>2</sup> 10 sh. pair /20 AWG • 0.5 mm <sup>2</sup> 1 coax /RG6/U	1/4 • 6.4	900 • 275	1.58 • 40.0	1243 • 1850
18-247-13	CSX 47 O	8 /14 AWG • 2.0 mm <sup>2</sup> 30 /18 AWG • 0.75 mm <sup>2</sup> 4 sh. pair /20 AWG • 0.5 mm <sup>2</sup> 1 coax /RG6/U	5/32 • 4.0	642 • 196	1.41 • 35.8	1090 • 1622
18-X53-13	CSX 53	4 /14 AWG • 2.0 mm <sup>2</sup> 45 /18 AWG • 0.75 mm <sup>2</sup> 1 sh. pair /20 AWG • 0.5 mm <sup>2</sup> 2 coax /RG6/U	5/32 • 4.0	711 • 217	1.34 • 34.0	985 • 1466
18-X55-38	CSX 55 A	4 /14 AWG • 2.0 mm <sup>2</sup> 46 /18 AWG • 0.75 mm <sup>2</sup> 2 sh. pairs /20 AWG • 0.5 mm <sup>2</sup> 1 coax /RG6/U	5/32 • 4.0	585 • 178	1.57 • 39.9	1196 • 1780
NOTE ON CSX 55 A: 14 AWG • 2.0 mm <sup>2</sup> conductor #3 is lavender. 18 AWG • 0.75 mm <sup>2</sup> conductors numbered 1 to 10 are pink. All conductors have thicker insulation than required by UL/CSA standards.						

<sup>†</sup> For longer hang length applications, call with your requirements.

RG6/U is the standard coaxial cable used in CSX-series Super-Flex cables and the preferred cable for CCTV purposes.

RG11/U coax is available as an option. See the next page for specifics on these cables.

### Component Specifications

#### Steel Central Support

Preformed, flexible, low torsion, zinc-coated, steel wire rope meeting Military Specification MIL-W-83420, insulated with 60° C flame-retardant PVC and covered with a rayon or cotton braid.

#### Stranded Conductors

Bunch-stranded bare soft drawn copper, insulated with 60° C colored, flame-retardant PVC complying with ANSI/ASTM, UL and CSA requirements and codes, identified by insulation color or a combination of insulation color and numerical markings appearing four times per foot.

#### Shielded Pairs

Composed of insulated conductors, braided with 36 AWG bare copper for 85% coverage, and jacketed with 60° C colored, flame-retardant PVC.

#### Coax Cables

RG6/U style with 20 AWG stranded copper conductor and cellular polyethylene dielectric. Shield is tinned copper braid and overall aluminum foil. Jacket is flame-retardant PVC.

#### Jute Filler

Electrical-grade dry jute distributes interlayer pressure and reduces conductor friction.

#### Binder

Strong, helically-wound synthetic fiber.

#### Braid

A rayon or cotton braid is applied with 95% coverage.

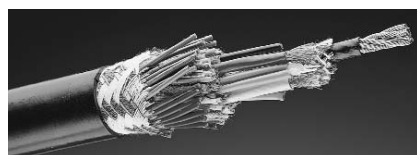
#### Jacket

60° C PVC specifically compounded for flexibility and abrasion resistance. UL VW-1 and CSA FT1 flame rated throughout. Polyurethane (PUR) jackets are available upon request.



# Super-Flex® Traveling Cable Type ETT/300V

## Steel center to meet UL/CSA/NEC/CEC standards



with power/signal, shielded pairs, coax and/or fiber

Part Number	Product Code	Number/Type • Size Conductors & Shielded Pairs	Steel Core Dia. inches • mm	Max. Hang Length <sup>†</sup> feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
18-X57-13	CSX 57	4 /14 AWG • 2.0 mm <sup>2</sup> 40 /18 AWG • 0.75 mm <sup>2</sup> 6 sh. pair /20 AWG • 0.5 mm <sup>2</sup> 1 coax /RG6/U	5/32 • 4.0	612 • 187	1.53 • 38.9	1144 • 1702
18-X61-13	CSX 61	7 /14 AWG • 2.0 mm <sup>2</sup> 27 /18 AWG • 0.75 mm <sup>2</sup> 13 sh. pair /20 AWG • 0.5 mm <sup>2</sup> 1 coax /RG6/U	1/4 • 6.4	900 • 275	1.65 • 41.9	1373 • 2043
18-175-13	CSX 75 0	20 /14 AWG • 2.0 mm <sup>2</sup> 38 /18 AWG • 0.75 mm <sup>2</sup> 8 sh. pair /20 AWG • 0.5 mm <sup>2</sup> 1 coax /RG6/U	1/4 • 6.4	900 • 275	1.58 • 40.1	1472 • 2190
18-377-13	CSX 77	4 /14 AWG • 2.0 mm <sup>2</sup> 69 /18 AWG • 0.75 mm <sup>2</sup> 1 sh. pair /20 AWG • 0.5 mm <sup>2</sup> 2 coax /RG6/U	5/32 • 4.0	532 • 162	1.64 • 41.6	1315 • 1957
18-X77-13	CSX 77 S	4 /14 AWG • 2.0 mm <sup>2</sup> 60 /18 AWG • 0.75 mm <sup>2</sup> 6 sh. pair /20 AWG • 0.5 mm <sup>2</sup> 1 coax /RG6/U	1/4 • 6.4	900 • 275	1.52 • 38.6	1269 • 1888
18-061-16	CWSF 61	4 /14 AWG • 2.0 mm <sup>2</sup> 49 /18 AWG • 0.75 mm <sup>2</sup> 3 sh. pair /20 AWG • 0.5 mm <sup>2</sup> 2 optical fibers	1/4 • 6.4	900 • 275	1.34 • 34.0	1125 • 1674
18-062-16	CWSF 62	7 /14 AWG • 2.0 mm <sup>2</sup> 27 /18 AWG • 0.75 mm <sup>2</sup> 13 sh. pair /20 AWG • 0.5 mm <sup>2</sup> 2 optical fibers	1/4 • 6.4	900 • 275	1.58 • 40.1	1296 • 1928

<sup>†</sup> For longer hang length applications, call with your requirements.

RG6/U is the standard coaxial cable used in CSX-series Super-Flex cables and is used primarily for CCTV applications. 75 ohm, UL listed, CSA certified. Center conductor is 20 AWG • 0.5 mm<sup>2</sup> soft drawn stranded copper insulated with cellular polyethylene, wrapped with aluminum tape, braided with tinned copper and jacketed with flame-retardant PVC.

Attenuation: 0.65 dB/100' • 2.13 dB/100m @ 10 MHz

1.55 dB/100' • 5.08 dB/100m @ 50 MHz

Capacitance: 17.3 pf/ft • 56.7 pf/m

RG11/U is available as an option on CSX-series Super-Flex cables and is used primarily for CCTV applications.

75 ohm, UL listed. Center conductor is 16 AWG • 1.5 mm<sup>2</sup> soft drawn stranded copper insulated with cellular polyethylene, braided with bare copper for 97% coverage, and jacketed with flame-retardant PVC.

Attenuation: 0.66 dB/100' • 2.16 dB/100m @ 10 MHz

1.30 dB/100' • 4.26 dB/100m @ 50 MHz

Capacitance: 17.3 pf/ft • 56.7 pf/m

Fiber optic subunits are available on CWSF-series Super-Flex cables.

The fibers are 62.5/125 micron tight-buffered multimode optical fiber, covered with high-strength aramid yarn and jacketed with flame-retardant PVC.

Max. attenuation @ 850 nm: 3.75 dB/km - Min. bandwidth @ 850 nm: 160 MHz•km

Max. attenuation @ 1300 nm: 1.5 dB/km - Min. bandwidth @ 1300 nm: 500 MHz•km

### Recommended tools

**36-060 Flexi-Peeler**  
for cable diameters of 0.2 to 1.5 in  
• 4.5 to 40 mm



**36-177 Sock Slicer**  
for easy braid removal



**36-178 Steel Core Cutters**  
for cutting steel support cable



**36-219 Automatic Wire Stripper**  
for 22 to 10 AWG



**Connectorized Super-Flex cables are available; call 1-877-372-5237 for details.  
Call 1-877-372-5237 to get a Super-Flex installation guide.**

### Component Specifications

#### Steel Central Support

Preformed, flexible, low torsion, zinc-coated, steel wire rope meeting Military Specification MIL-W-83420, insulated with 60° C flame-retardant PVC and covered with a rayon or cotton braid.

#### Stranded Conductors

Bunch-stranded bare soft drawn copper, insulated with 60° C colored, flame-retardant PVC complying with ANSI/ASTM, UL and CSA requirements and codes, identified by insulation color or a combination of insulation color and numerical markings appearing four times per foot.

#### Shielded Pairs

Composed of insulated conductors, braided with 36 AWG bare copper for 85% coverage, and jacketed with 60° C colored, flame-retardant PVC.

#### Coax Cables

RG6/U style with 20 AWG stranded copper conductor and cellular polyethylene dielectric. Shield is tinned copper braid and overall aluminum foil. Jacket is flame-retardant PVC.

#### Jute Filler

Electrical-grade dry jute distributes interlayer pressure and reduces conductor friction.

#### Binder

Strong, helically-wound synthetic fiber.

#### Braid

A rayon or cotton braid is applied with 95% coverage.

#### Jacket

60° C PVC specifically compounded for flexibility and abrasion resistance. UL VW-1 and CSA FT1 flame rated throughout. Polyurethane (PUR) jackets are available upon request.

## Halogen-Free Traveling Cable/300V Steel center to meet relevant standards



Halogen-free  
to meet intent  
of relevant  
standards

### with power/signal and shielded pairs

Part Number	Product Code	Number/Type • Size Conductors & Shielded Pairs	Steel Core Dia. inches • mm	Max. Hang Length <sup>†</sup> feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
18-HF2-99	HFWS40-0.75 mm <sup>2</sup>	40 /0.75 mm <sup>2</sup>	1/8 • 4.0	898 • 274	0.94 • 24.1	532 • 779
18-HF1-99	HFCWS 63	4 /2.0 mm <sup>2</sup> 49 /0.75 mm <sup>2</sup> 5 sh. pairs /0.5 mm <sup>2</sup>	5/32 • 4.0	397 • 121	1.39 • 35.3	1114 • 1658
18-274-99	CWS74HF	20 /2.0 mm <sup>2</sup> 38 /0.75 mm <sup>2</sup> 8 sh. pairs /0.5 mm <sup>2</sup>	5/32 • 4.0	492 • 150	1.58 • 40.1	1424 • 2119
18-050-99	CSBS50HF	13 /2.0 mm <sup>2</sup> 25 /0.75 mm <sup>2</sup> 6 sh. pairs /0.5 mm <sup>2</sup>	5/32 • 4.0	708 • 216	1.35 • 34.4	986 • 1467
18-153-99	CSBS53HF	25 /0.75 mm <sup>2</sup> 14 sh. pairs /0.5 mm <sup>2</sup>	5/32 • 4.0	672 • 205	1.53 • 38.9	1040 • 1548

<sup>†</sup> For longer hang length applications, call with your requirements.

#### Component Specifications

##### Steel Central Support

Preformed, flexible, low torsion, zinc-coated, steel wire rope and covered with a rayon or cotton braid.

##### Stranded Conductors

Bunch-stranded bare soft drawn copper, insulated with black 90°C zero-halogen polyolefin, identified by numerical markings appearing at least 13 times per meter.

##### Jute Filler

Electrical-grade dry jute distributes interlayer pressure and reduces conductor friction.

##### Binder

Strong, helically-wound synthetic fiber.

##### Braid

A rayon or cotton braid is applied with 95% coverage.

##### Jacket

Halogen-free polyurethane.

### Recommended tools

**36-060 Flexi-Peeler**  
for cable diameters of 0.2 to 1.5 in  
• 4.5 to 40 mm



**36-177 Sock Slicer**  
for easy braid removal



**36-178 Steel Core Cutters**  
for cutting steel support cable



**36-219 Automatic Wire Stripper**  
for 22 to 10 AWG



Connectorized Super-Flex cables are available; call 1-877-372-5237 for details.  
Call 1-877-372-5237 to get a Super-Flex installation guide.



**Component Specifications**

**Steel Central Support**  
Preformed, flexible, galvanized steel wire rope meeting Military Specification MIL-W-83420, insulated with synthetic rubber and covered with a fibrous braid.

**Stranded Conductors**  
Bunch-stranded, soft-annealed bare soft drawn copper per ASTM B3 and B174, insulated with 60°C colored synthetic rubber (SBR) complying with UL 62 and CSA 22.2 No. 49, identified by colored fibrous braids.

**Shielded Pairs**  
Composed of insulated 20 AWG (0.5 mm<sup>2</sup>) soft-annealed bare copper conductors, twisted with an unshielded drain wire, shielded with aluminum foil /polyester tape for 100% coverage, and jacketed with colored PVC.

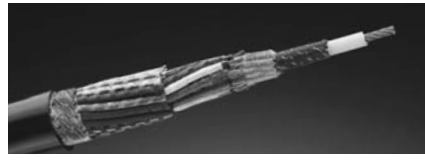
**Coax Cables**  
75 ohm RG59/U style with a copper-covered steel conductor and cellular polyethylene dielectric.

**Jute Filler**  
Fibrous-piled jute used as necessary to provide a circular cross-section, enhance torsional stability and reduce conductor friction.

**Braid**  
Closely-woven rayon or cotton braid.

**Jacket**  
Polychloroprene specifically compounded for smoothness, flexibility and abrasion-resistance. UL-1581 and CSA FT-1 flame rated.

**Type EO Traveling Cable/300V**  
Steel center to meet UL/CSA/NEC/CEC standards for wet/hazardous applications with power/signal conductors only



Part Number	Product Code	Number/Type • Size Conductors & Shielded Pairs	Steel Core Dia. inches • mm	Max. Hang Length <sup>†</sup> feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
Special order	EO-414S	4 /14 AWG • 2.0 mm <sup>2</sup>	1/16 • 1.6	426 • 130	0.65 • 16.5	205 • 305
Special order	EO-614S	6 /14 AWG • 2.0 mm <sup>2</sup>	3/32 • 2.4	552 • 168	0.78 • 19.8	303 • 451
Special order	EO-614AS	6 /14 AWG • 2.0 mm <sup>2</sup>	5/32 • 4.0	1372 • 418	0.87 • 22.1	371 • 552
Special order	EO-814S	8 /14 AWG • 2.0 mm <sup>2</sup>	5/32 • 4.0	1020 • 311	1.04 • 26.4	499 • 743
Special order	EO-2414S	24 /14 AWG • 2.0 mm <sup>2</sup>	5/32 • 4.0	526 • 130	1.37 • 34.8	968 • 1441
Special order	EO-2414AS	24 /14 AWG • 2.0 mm <sup>2</sup>	1/4 • 6.4	1253 • 382	1.37 • 34.8	1016 • 1512
Special order	EO-3014S	30 /14 AWG • 2.0 mm <sup>2</sup>	5/32 • 4.0	452 • 138	1.47 • 37.3	1127 • 1677
Special order	EO-616S	6 /16 AWG • 1.5 mm <sup>2</sup>	1/16 • 1.6	434 • 132	0.62 • 15.6	201 • 299
Special order	EO-616AS	6 /16 AWG • 1.5 mm <sup>2</sup>	3/32 • 2.4	669 • 204	0.73 • 18.5	250 • 372
Special order	EO-1216S	12 /16 AWG • 1.5 mm <sup>2</sup>	5/32 • 4.0	1024 • 312	1.01 • 25.7	497 • 740
Special order	EO-1616S	16 /16 AWG • 1.5 mm <sup>2</sup>	3/32 • 2.4	313 • 95	1.10 • 27.8	534 • 795
Special order	EO-1816S	18 /16 AWG • 1.5 mm <sup>2</sup>	5/32 • 4.0	773 • 235	1.21 • 30.6	659 • 981
Special order	EO-2016S	20 /16 AWG • 1.5 mm <sup>2</sup>	5/32 • 4.0	766 • 233	1.18 • 30.0	665 • 990
Special order	EO-3016S	30 /16 AWG • 1.5 mm <sup>2</sup>	5/32 • 4.0	534 • 163	1.41 • 35.7	954 • 1420
Special order	EO-818S	8 /18 AWG • 0.75 mm <sup>2</sup>	3/32 • 2.4	904 • 276	0.62 • 15.6	185 • 275
Special order	EO-1618S	16 /18 AWG • 0.75 mm <sup>2</sup>	3/32 • 2.4	448 • 137	0.89 • 22.6	373 • 555
Special order	EO-2018S	20 /18 AWG • 0.75 mm <sup>2</sup>	3/32 • 2.4	473 • 144	0.91 • 23.0	404 • 601
Special order	EO-2218S	22 /18 AWG • 0.75 mm <sup>2</sup>	5/32 • 4.0	1178 • 359	0.93 • 23.6	432 • 643
Special order	EO-2418S	24 /18 AWG • 0.75 mm <sup>2</sup>	5/32 • 4.0	1048 • 319	0.99 • 25.1	486 • 723
Special order	EO-3018S	30 /18 AWG • 0.75 mm <sup>2</sup>	1/4 • 6.4	1946 • 593	1.11 • 28.2	654 • 973

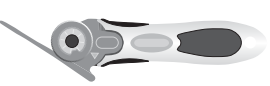
<sup>†</sup> For longer hang length applications, call with your requirements.  
RG59/U is the standard coaxial cable for EO cables.  
NOTES: Type EO cables are not a stocking item. Please call for delivery lead times.  
EO products are NOT covered under the limited lifetime warranty. See warranty page for details.

**Recommended tools**

**36-060 Flexi-Peeler**  
for cable diameters of 0.2 to 1.5 in • 4.5 to 40 mm



**36-177 Sock Slicer**  
for easy braid removal



**36-178 Steel Core Cutters**  
for cutting steel support cable



**36-219 Automatic Wire Stripper**  
for 22 to 10 AWG



**Connectorized Super-Flex cables are available; call 1-877-372-5237 for details. Call 1-877-372-5237 to get a Super-Flex installation guide.**

# Universal Hanging System

for steel center traveling cable installations

US Patent 5,080,199

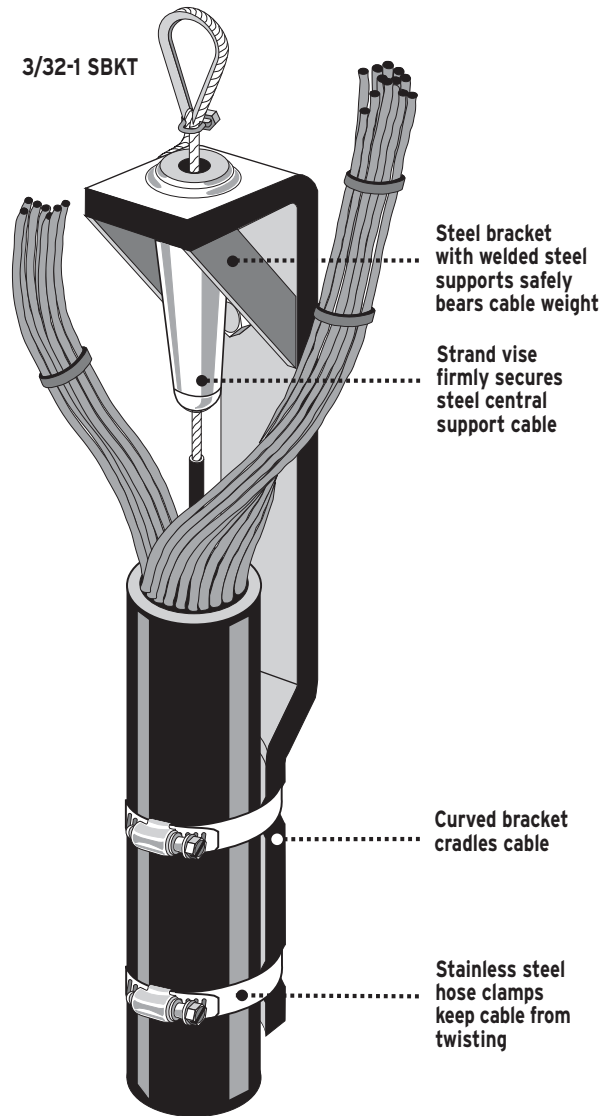
Part Number	For Steel Core Dia. inches • mm	No. of Cables Held	Max. per Cable Load lbs • kg
3/32-1 SBKT	3/32 • 2.4	1 cable	500 • 227
1/8-1 SBKT	1/8 • 3.2	1 cable	500 • 227
5/32-1 SBKT-R	5/32 • 4.0	1 cable	700 • 318
5/32-2 SBKT-R	5/32 • 4.0	2 cables	700 • 318
1/4-1 SBKT	1/4 • 6.4	1 cable	1250 • 568
1/4-2 SBKT	1/4 • 6.4	2 cables	1250 • 568
3/32 PINS-A	Replacement strand vice for 3/32" rope*		
1/8 PINS-A	Replacement strand vice for 1/8" rope*		
5/32 PINS-A	Replacement strand vice for 5/32" rope*		
1/4 PINS-A	Replacement strand vice for 1/4" rope*		

The **Universal Hanging System** is based around our patented Steel-Core Hanging Device which is designed to solidly grip and support the steel wire support member. It also safely secures the cable to the welded steel bracket thus preventing rotation.

The Universal Hanging System is a safe and effective unit that saves time and labor. It also has the added benefit of not having to bend (and possibly compromise) the steel support as required in other termination methods.

The Universal Hanging System is available in one and two cable configurations and comes as a kit with all installation hardware. Order two kits per cable, one for the car and one for the hoistway.

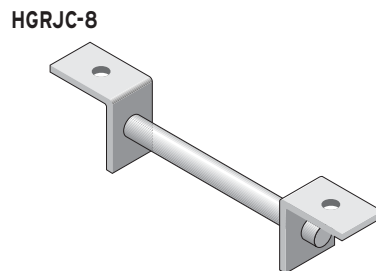
\*NOTE: Replacement strand vices are for use ONLY in Universal Hanging Systems.



## Jute core traveling cable hanger

for installing round cable grips

Part Number	Description
HGRJC-8	Bracket used to hold/support grips that hold jute core cables - 8" • 20 cm clear between brackets





# Mesh Grips Tinned Bronze/Single Eye Designs

for jute center traveling cables with maximum hanging lengths of 200 ft • 61 m

## Single eye/single weave/closed mesh

Part Number	Cable Dia. Range inches • cm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
022-01-013	.50 to .62 • 1.27 to 1.57	106 • 48	7.0 • 178	10.0 • 254
022-01-014	.63 to .74 • 1.60 to 1.88	158 • 72	8.0 • 203	10.0 • 254
022-01-015	.75 to .99 • 1.91 to 2.51	204 • 93	8.0 • 203	13.0 • 330
022-01-017	1.00 to 1.24 • 2.54 to 3.15	322 • 146	9.0 • 229	14.0 • 356
022-01-018	1.25 to 1.49 • 3.18 to 3.78	322 • 146	10.0 • 254	15.0 • 381
022-01-019	1.50 to 1.74 • 3.81 to 4.42	322 • 146	12.0 • 305	17.0 • 432
022-01-020	1.75 to 1.99 • 4.45 to 5.05	430 • 195	14.0 • 356	19.0 • 483



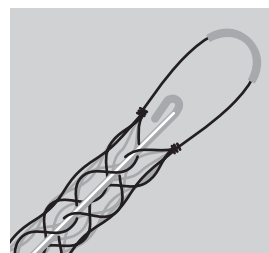
## Single eye/single weave/split laced

Part Number	Cable Dia. Range inches • cm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
022-02-013	.50 to .62 • 1.27 to 1.57	158 • 72	7.0 • 178	10.0 • 254
022-02-014	.63 to .74 • 1.60 to 1.88	158 • 72	8.0 • 203	10.0 • 254
022-02-015	.75 to .99 • 1.91 to 2.51	204 • 93	8.0 • 203	13.0 • 330
022-02-017	1.00 to 1.24 • 2.54 to 3.15	322 • 146	9.0 • 229	14.0 • 355
022-02-018	1.25 to 1.49 • 3.18 to 3.78	322 • 146	10.0 • 254	15.0 • 381
022-02-019	1.50 to 1.74 • 3.81 to 4.42	322 • 146	12.0 • 305	17.0 • 431
022-02-020	1.75 to 1.99 • 4.45 to 5.05	430 • 195	14.0 • 356	16.5 • 419



## Single eye/single weave/split rod

Part Number	Cable Dia. Range inches • cm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
022-03-061	.37 to .49 • .94 to 1.24	106 • 48	4.0 • 102	5.0 • 127
022-03-013	.50 to .62 • 1.27 to 1.57	106 • 48	7.0 • 178	10.0 • 254
022-03-014	.63 to .74 • 1.60 to 1.88	158 • 72	8.0 • 203	10.0 • 254
022-03-015	.75 to .99 • 1.91 to 2.51	204 • 93	8.0 • 203	13.0 • 330
022-03-017	1.00 to 1.24 • 2.54 to 3.15	322 • 146	9.0 • 229	14.0 • 356
022-03-018	1.25 to 1.49 • 3.18 to 3.78	322 • 146	10.0 • 254	15.0 • 381
022-03-019	1.50 to 1.74 • 3.81 to 4.42	322 • 146	12.0 • 305	17.0 • 432
022-03-020	1.75 to 1.99 • 4.45 to 5.05	430 • 195	14.0 • 356	19.0 • 483



\*Maximum Load is based on minimum breaking strength with a 4:1 safety factor.

### Component Specifications

#### Tinned Bronze

These grips are intended for low rise installations only! A 4:1 safety factor has been applied to the maximum load.

NEVER EXCEED THE MAXIMUM LOAD.

To maintain original grip set, the base of all grips should be secured with several wraps of vinyl tape.

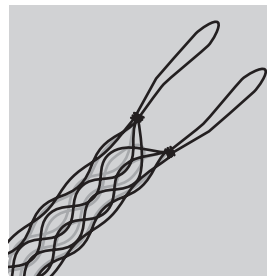
# Mesh Grips Tinned Bronze/Double Eye and Universal Bale Designs for jute center traveling cables (with maximum hanging lengths of 200 ft • 61 m)

CSA Certified



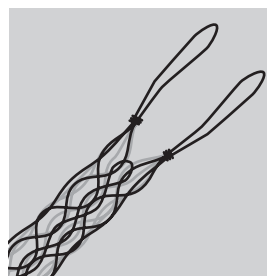
## Double eye/single weave/closed mesh

Part Number	Cable Dia. Range inches • cm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
022-01-001	.50 to .62 • 1.27 to 1.57	106 • 48	4.0 • 102	10.0 • 254
022-01-002	.63 to .74 • 1.60 to 1.88	158 • 72	4.0 • 102	10.0 • 254
022-01-003	.75 to .99 • 1.91 to 2.51	204 • 93	5.5 • 140	12.0 • 304
022-01-005	1.00 to 1.24 • 2.54 to 3.15	322 • 146	5.0 • 127	14.0 • 356
022-01-006	1.25 to 1.49 • 3.18 to 3.78	322 • 146	5.0 • 127	15.0 • 381
022-01-007	1.50 to 1.74 • 3.81 to 4.42	322 • 146	5.0 • 127	17.0 • 432
022-01-008	1.75 to 1.99 • 4.45 to 5.05	430 • 195	6.0 • 152	19.0 • 483



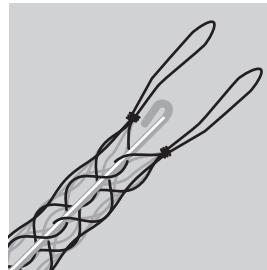
## Double eye/single weave/split laced

Part Number	Cable Dia. Range inches • cm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
022-02-001	.50 to .62 • 1.27 to 1.57	106 • 48	4.0 • 102	10.0 • 254
022-02-002	.63 to .74 • 1.60 to 1.88	170 • 77	4.0 • 102	10.0 • 254
022-02-003	.75 to .99 • 1.91 to 2.51	204 • 93	5.5 • 140	13.0 • 330
022-02-005	1.00 to 1.24 • 2.54 to 3.15	322 • 146	5.0 • 127	14.0 • 356
022-02-006	1.25 to 1.49 • 3.18 to 3.78	322 • 146	5.0 • 127	15.0 • 381
022-02-007	1.50 to 1.74 • 3.81 to 4.42	322 • 146	5.0 • 127	17.0 • 432
022-02-008	1.75 to 1.99 • 4.45 to 5.05	430 • 195	6.0 • 152	19.0 • 483



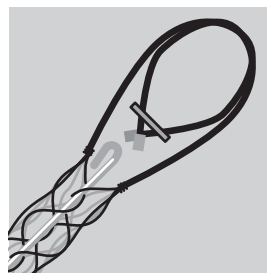
## Double eye/single weave/split rod

Part Number	Cable Dia. Range inches • cm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
022-03-001	.50 to .62 • 1.27 to 1.57	158 • 72	4.0 • 102	6.5 • 165
022-03-002	.63 to .74 • 1.60 to 1.88	158 • 72	4.0 • 102	8.5 • 216
022-03-003	.75 to .99 • 1.91 to 2.51	204 • 93	5.5 • 140	10.5 • 267
022-03-005	1.00 to 1.24 • 2.54 to 3.15	322 • 146	5.0 • 127	12.5 • 317
022-03-006	1.25 to 1.49 • 3.18 to 3.78	322 • 146	5.0 • 127	14.5 • 368
022-03-007	1.50 to 1.74 • 3.81 to 4.42	322 • 146	5.0 • 127	15.5 • 394
022-03-008	1.75 to 1.99 • 4.45 to 5.05	430 • 195	6.0 • 152	16.5 • 419



## Universal bale/single weave/split rod

Part Number	Cable Dia. Range inches • cm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
022-03-064	.50 to .62 • 1.27 to 1.57	158 • 93	up to 16 • 400	8.5 • 216
022-03-065	.63 to .74 • 1.60 to 1.88	158 • 93	up to 16 • 400	8.5 • 216
022-03-066	.75 to .99 • 1.91 to 2.51	204 • 93	up to 16 • 400	10.5 • 267
022-03-068	1.00 to 1.24 • 2.54 to 3.15	322 • 146	up to 16 • 400	12.5 • 317
022-03-069	1.25 to 1.49 • 3.18 to 3.78	322 • 146	up to 16 • 400	14.5 • 368
022-03-070	1.50 to 1.74 • 3.81 to 4.42	322 • 146	up to 16 • 400	15.5 • 394
022-03-071	1.75 to 1.99 • 4.45 to 5.05	430 • 195	up to 16 • 400	16.5 • 419



\*Maximum Load is based on minimum breaking strength with a 4:1 safety factor.

### Component Specifications

#### Tinned Bronze

These grips are intended for low rise installations only! A 4:1 safety factor has been applied to the maximum load.

NEVER EXCEED THE MAXIMUM LOAD.

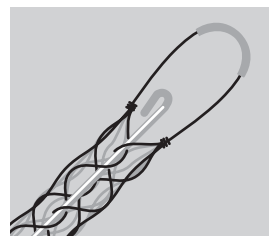
To maintain original grip set, the base of all grips should be secured with several wraps of vinyl tape.

# Mesh Grips Stainless Steel

for traveling cables (with maximum hanging lengths of 200 ft • 61 m)

## Single eye design/single weave/split rod

Part Number	Cable Dia. Range inches • cm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
024-03-014	.63 to .74 • 1.60 to 1.88	410 • 186	8.0 • 203	8.5 • 216
024-03-015	.75 to .99 • 1.91 to 2.51	410 • 186	8.0 • 203	10.5 • 267
024-03-017	1.00 to 1.24 • 2.54 to 3.15	530 • 240	9.0 • 229	12.5 • 317
024-03-018	1.25 to 1.49 • 3.18 to 3.78	900 • 408	10.0 • 254	14.5 • 368
024-03-019	1.50 to 1.74 • 3.81 to 4.42	900 • 408	12.0 • 305	15.5 • 394



## Double eye design/double weave/closed mesh

Part Number	Cable Dia. Range inches • cm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
024-20-1504	1.00 to 1.24 • 2.54 to 3.15	1200 • 545	12.0 • 305	14.0 • 356
024-20-1470	1.25 to 1.49 • 3.18 to 3.78	1640 • 745	12.0 • 305	15.0 • 381
024-20-1510	1.50 to 1.74 • 3.81 to 4.42	1660 • 755	12.0 • 305	17.0 • 432
024-20-1499	1.75 to 1.99 • 4.45 to 5.05	1800 • 818	12.0 • 305	19.0 • 483
024-20-1542	2.00 to 2.50 • 5.08 to 6.35	1800 • 818	12.0 • 305	21.0 • 533



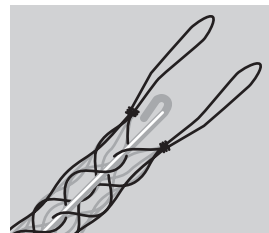
## Double eye design/double weave/split laced

Part Number	Cable Dia. Range inches • cm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
024-20-1284	.75 to .99 • 1.91 to 2.51	620 • 282	4.0 • 102	13.0 • 330
024-20-1285	1.00 to 1.24 • 2.54 to 3.15	800 • 364	4.0 • 102	14.0 • 356
024-20-1286	1.25 to 1.49 • 3.18 to 3.78	800 • 364	4.0 • 102	15.0 • 381
024-20-1287	1.50 to 1.74 • 3.81 to 4.42	800 • 364	4.0 • 102	17.0 • 432
024-20-1500	1.75 to 2.00 • 4.45 to 5.08	1800 • 818	12.0 • 305	19.0 • 483



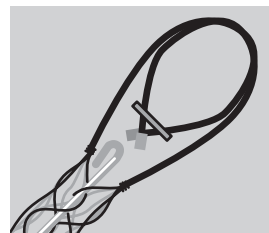
## Double eye design/single weave/split rod

Part Number	Cable Dia. Range inches • cm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
024-03-005	1.00 to 1.24 • 2.54 to 3.15	530 • 241	5.0 • 127	12.5 • 317
024-03-006	1.25 to 1.49 • 3.18 to 3.78	900 • 409	5.0 • 127	14.5 • 368
024-03-007	1.50 to 1.74 • 3.81 to 4.42	900 • 409	5.0 • 127	15.5 • 394
024-03-008	1.75 to 2.00 • 4.45 to 5.08	1200 • 545	6.0 • 152	16.5 • 419



## Universal bale design/single weave/split rod

Part Number	Cable Dia. Range inches • cm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
024-03-066	.75 to .99 • 1.91 to 2.51	336 • 153	up to 16 • 400	10.5 • 267
024-03-068	1.00 to 1.24 • 2.54 to 3.15	530 • 241	up to 16 • 400	12.5 • 317
024-03-069	1.25 to 1.49 • 3.18 to 3.78	530 • 241	up to 16 • 400	14.5 • 368
024-03-070	1.50 to 1.74 • 3.81 to 4.42	530 • 241	up to 16 • 400	15.5 • 394



### Component Specifications

#### Stainless Steel

These grips are intended for low rise installations only! A 4:1 safety factor has been applied to the maximum load.

NEVER EXCEED THE MAXIMUM LOAD.

To maintain original grip set, the base of all grips should be secured with several wraps of vinyl tape.

Installations of over 40 stories should utilize the heavy duty double-weave grips for back-up purposes ONLY and not as the primary hanger.

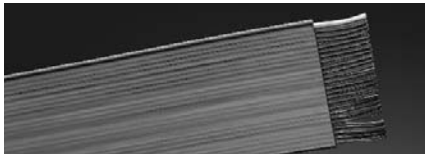
\*Maximum Load is based on minimum breaking strength with a 4:1 safety factor.

# Flat Traveling Cable Type ETP/300V Unsupported for UL/CSA/NEC/CEC standards

Flat cable

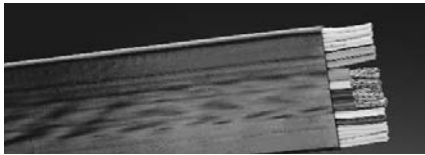
## with power/signal only

Part Number	Product Code	Number/Type • Size of Conductors	Max. Hang Length feet • meters	Cable Nom. Dim. H x W inches • mm	Cable Net Weight lbs/ft • kg/km
18-212-07	P 12-16	12 /16 AWG • 1.5 mm <sup>2</sup>	150 • 46	.21 x 1.5 • 5.3 x 38.1	231 • 344
18-224-07	P 24-16	24 /16 AWG • 1.5 mm <sup>2</sup>	150 • 46	.21 x 2.9 • 5.3 x 73.7	462 • 688
18-009-07	P 9-18	9 /18 AWG • 0.75 mm <sup>2</sup>	150 • 46	.19 x 1.0 • 4.8 x 25.4	204 • 196
18-010-07	P 10-18	10 /18 AWG • 0.75 mm <sup>2</sup>	150 • 46	.19 x 1.1 • 4.8 x 27.9	132 • 196
18-016-07	P 16-18	16 /18 AWG • 0.75 mm <sup>2</sup>	150 • 46	.19 x 1.6 • 4.8 x 41.7	235 • 350
18-020-07	P 20-18	20 /18 AWG • 0.75 mm <sup>2</sup>	150 • 46	.19 x 2.3 • 4.8 x 58.4	296 • 440
18-024-07	P 24-18	24 /18 AWG • 0.75 mm <sup>2</sup>	150 • 46	.19 x 2.7 • 4.8 x 68.6	367 • 546



## with shielded pairs only

Part Number	Product Code	Number/Type • Size of Shielded Pairs	Max. Hang Length feet • meters	Cable Nom. Dim. H x W inches • mm	Cable Net Weight lbs/ft • kg/km
18-X04-07	P4PR 20SH	4 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	150 • 46	.35 x .95 • 8.9 x 24.1	184 • 274
18-X08-07	P8PR 20SH	8 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	150 • 46	.35 x 1.9 • 8.9 x 48.3	381 • 567



## with power/signal and shielded pairs and/or coax

Part Number	Product Code	Number/Type • Size of Conductors & Shielded Pairs	Max. Hang Length feet • meters	Cable Nom. Dim. H x W inches • mm	Cable Net Weight lbs/ft • kg/km
18-410-07	PC 16	4 /14 AWG • 2.0 mm <sup>2</sup> 10 /18 AWG • 0.75 mm <sup>2</sup> 1 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	150 • 46	.37 x 2.1 • 9.4 x 53.3	436 • 649
18-C17-07	PCX 17	8 sh. pair /20 AWG • 0.5 mm <sup>2</sup> 1 coax /RG6/U	150 • 46	.44 x 2.2 • 11.2 x 55.9	497 • 740
18-X22-07	PC 22	4 /14 AWG • 2.0 mm <sup>2</sup> 10 /18 AWG • 0.75 mm <sup>2</sup> 4 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	150 • 46	.37 x 2.7 • 9.4 x 68.6	650 • 967

Parallel construction flat traveling cable is recommended for speeds up to 1000 ft/min • 5 m/sec. Most versions of our flat traveling cables can be manufactured with steel support cables for longer hang lengths. Call for details.

RG6/U is the standard coaxial cable used in flat cables and is good for CCTV applications. 75 ohm, UL listed, CSA certified. Center conductor is 20 AWG • 0.5 mm<sup>2</sup> soft drawn stranded copper insulated with cellular polyethylene, wrapped with aluminum tape, braided with tinned copper and jacketed with flame-retardant PVC.

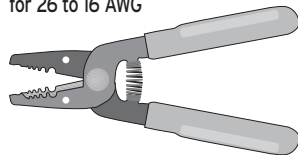
Attenuation: 0.65 dB/100' • 2.13 dB/100m @ 10 MHz  
1.55 dB/100' • 5.08 dB/100m @ 50 MHz  
Capacitance: 17.3 pf/ft • 56.7 pf/m

## Recommended tools

**36-135-M1** FCJ flat cable stripper  
faster and safer than a utility knife



**37-177** Wire Strippers  
for 26 to 16 AWG



**36-219** Automatic Wire Stripper  
for 22 to 10 AWG



Connectorized flat cables are available; call 1-877-372-5237 for details.



## Component Specifications

**Stranded Conductors**  
Bunch-stranded bare soft drawn copper, insulated with 60 °C colored, flame-retardant PVC complying with ANSI/ASTM, UL and CSA requirements and codes, identified by insulation color or a combination of insulation color and numerical markings appearing four times per foot.

**Shielded Pairs**  
Composed of insulated conductors, braided with 36 AWG bare copper for 85% coverage, and jacketed with 60 °C colored, flame-retardant PVC.

**Jacket**  
60 °C PVC specifically compounded for flexibility and abrasion resistance. UL VW-1 and CSA FT1 flame rated throughout.

# Flat Cable Suspension Devices

Nylon/plastic construction for unsupported flat traveling cables (up to 2 in • 42 mm width)

## FCSD-2 flat cable suspension device (includes bracket and clamping wedge)

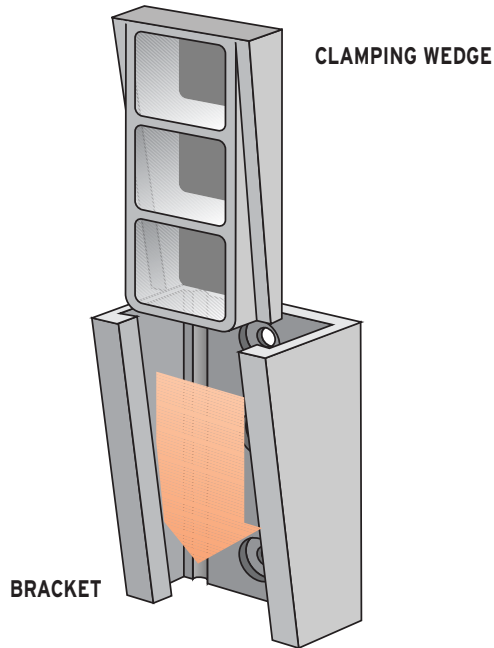
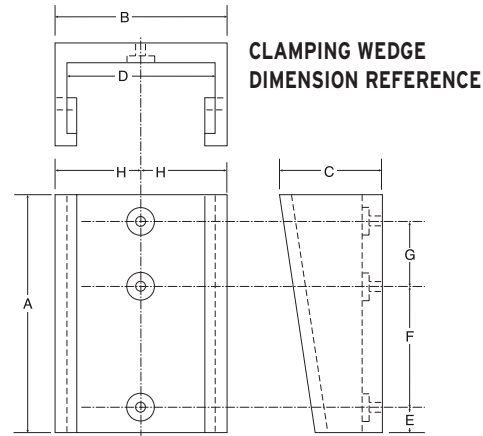
Part Number	Drawing Reference	Dimension inches • mm
<b>FCSD-2</b>	A	3.93 • 100
	B	2.36 • 60
	C	1.65 • 42
	D	2.05 • 52
	E	.47 • 12
	F	1.69 • 43
	G	1.22 • 31
	H	1.18 • 30

Mounting holes are 3/16 (.188) in • 5mm with 17/32 (.531) in • 14mm counterbore

The **FCSD-2** is made of a durable nylon/plastic. It consists of a bracket (dimensions listed above) that attaches to the hoistway wall or the car, and a clamping wedge that secures the cable in the bracket.

The FCSD-2 is designed to hold up to two cables totaling a maximum thickness of .47 inches • 12 mm and maximum width of 2.0 inches • 42 mm. **If multiple cables are being supported, the narrowest width cable must not be less than 70% of the width of the widest cable.**

**Order two devices per cable, one for the car and one for the hoistway.**



### Component Specifications

**Materials**  
Both components are made of a molded nylon that resists abrasion, temperature and solvents.

# Flat Cable Suspension Devices

Nylon/plastic construction for unsupported flat traveling cables (up to 3 in • 76 mm in width)

## FCSD-3 flat cable suspension device (includes bracket and clamping wedge)

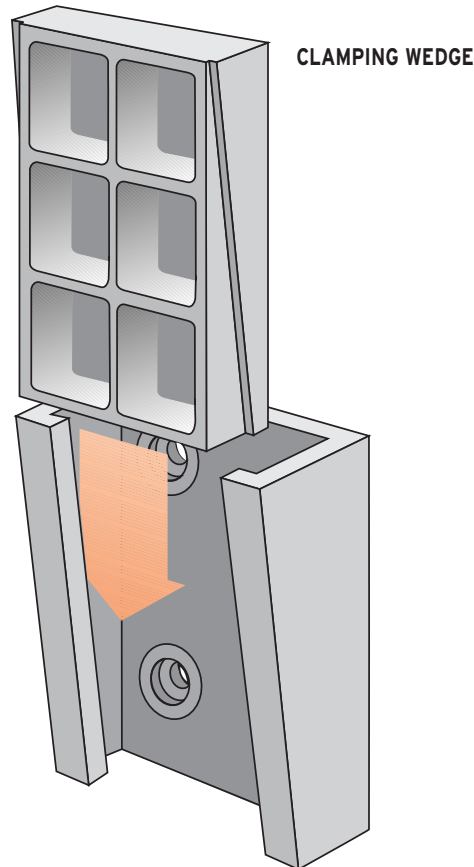
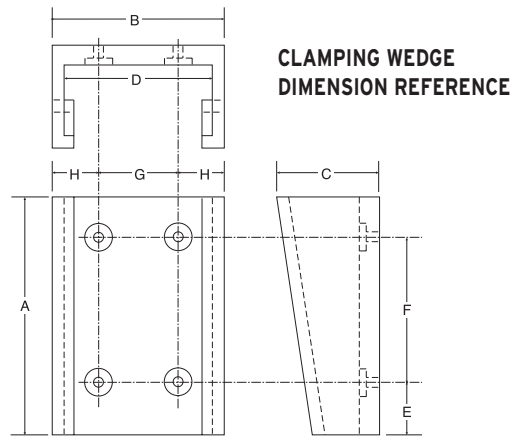
Part Number	Drawing Reference	Dimension inches • mm
FCSD-3	A	4.72 • 120
	B	3.43 • 87
	C	2.05 • 52
	D	2.95 • 75
	E	1.06 • 27
	F	2.87 • 73
	G	1.57 • 40
	H	.93 • 23.5

Mounting holes are 1/4 (.25) in • 6.35 mm with 17/32 (.53) in • 14mm counterbore

The **FCSD-3** is made of a durable nylon/plastic. It consists of a bracket (dimensions listed above) that attaches to the hoistway wall or the car, and a clamping wedge that secures the cable in the bracket.

The FCSD-3 is designed to hold up to three cables totaling a maximum thickness of .60 inches • 15mm and maximum width of 3.0 inches • 76mm. If multiple cables are being supported, the narrowest width cable must not be less than 70% of the width of the widest cable.

Order two devices per cable, one for the car and one for the hoistway.



### Component Specifications

#### Materials

Both components are made of a molded nylon that resists abrasion, temperature and solvents.

# Compensating Cable

## Whisper-Flex® compensating cable



### US Patent 4,716,989

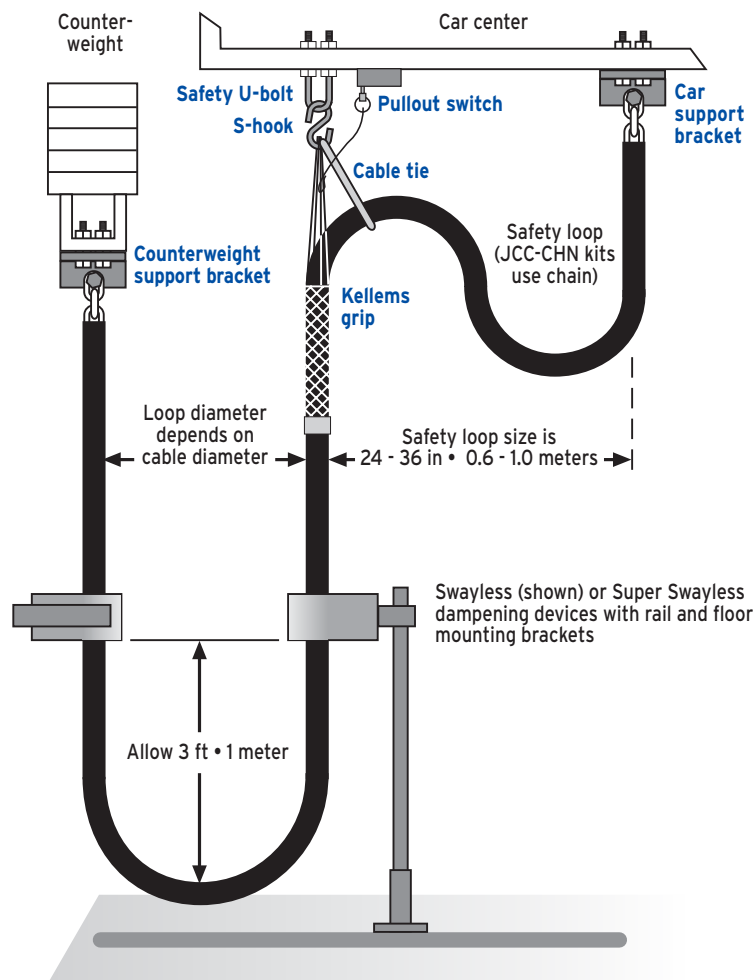
Part Number	Product Code	Cable Weight lbs/ft • kg/m	Chain Trade Size inches • mm	Cable Nom. OD inches • mm	Max. Hang Length feet • meters	Rec. Nom. Loop Width inches • mm
18-010-97	WF 10	1.0 • 1.5	3/16 • 5.5	1.15 • 29	600 • 183	24 • 610
18-015-97	WF 15	1.5 • 2.2	1/4 • 7	1.36 • 35	600 • 183	24 • 610
18-020-97	WF 20	2.0 • 3.0	1/4 • 7	1.50 • 38	520 • 158	26 • 660
18-025-97	WF 25	2.5 • 3.7	5/16 • 8	1.63 • 41	600 • 183	26 • 660
18-030-97	WF 30	3.0 • 4.5	5/16 • 8	1.77 • 45	505 • 154	26 • 660
18-035-97	WF 35	3.5 • 5.2	3/8 • 10	1.91 • 49	600 • 183	27 • 690
18-040-97	WF 40	4.0 • 6.0	3/8 • 10	2.03 • 52	530 • 162	27 • 690

Whisper-Flex cable provides smooth operation at temperatures of -15° C to +60° C and, in the US, can be used for elevators with rated speeds of no greater than 700 ft/min • 3.56 m/sec.\*

Support brackets, U-bolts, S-hooks, and heavy duty stainless steel grips specifically designed for Whisper-Flex cable must be used to ensure safe installations. See pages 79 and 80 for details on this hardware.

Draka EP dampening devices are recommended to minimize cable sway for car speeds above 350 ft/min (1.8 m/sec). See pages 27 - 29 for information on these devices.

This diagram shows the approximate placement of components for a Whisper-Flex cable installation. Refer to the Compensating Cable Installation Guide for exact instructions on installation procedures.



Draka EP can help you determine which size of Whisper-Flex cable to use. Call 1-877-372-5237 or +1-252-984-5100 and have the following information ready:

- 1) number of hoist ropes per car
- 2) outer diameter of the hoist ropes
- 3) stranding of the hoist ropes (i.e. 8x19, 8x25...)
- 4) car roping (i.e. 1:1, 2:1, other...)
- 5) number of Whisper-Flex cables per car
- 6) length of Whisper-Flex cable needed

\*based on the most current code at the time of printing: ASME A17.1 - 2004, Rule 2.21.4.2 Compensating Rope Tie-Down

### Stripping service 1 1/2 and 3 1/2 links exposed

Part Number	Description
WFSTRIP1.5L	Cable with 1 1/2 links stripped at one end
WFSTRIP3L	Cable with 3 1/2 links stripped at one end

Call 1-877-372-5237 to get a compensating cable installation guide.

#### Component Specifications

**Chain**  
Low carbon, electrically-welded proof coil chain. Each link is proof tested at two times the working load limit.

**Filler**  
Metallic bead/polyvinyl chloride mixture adds mass and forms a round cross-section.

**Jacket**  
60°C flame-retardant polyvinyl chloride that resists oxidation, weathering, solvents, chemicals and flame.

Meets requirements of UL VW1 and CSA FT1 flame tests.

Compensation

# Compensating Cable

## Steadi-Flex® wide loop compensating cable



Patent pending

Part Number	Product Code	Cable Weight lbs/ft • kg/m	Chain Trade Size inches • mm	Cable Nom. OD inches • mm	Max. Hang Length feet • meters	Rec. Nom. Loop Width <sup>1</sup> inches • meters
18-L15-97	SFC 15	1.5 • 2.2	1/4 • 7	1.39 • 35	600 • 183	38 to 46 • 0.97 to 1.17
18-L20-97	SFC 20	2.0 • 3.0	1/4 • 7	1.56 • 40	520 • 158	38 to 47 • 0.97 to 1.20
18-L25-97	SFC 25	2.5 • 3.7	5/16 • 8	1.67 • 42	600 • 183	39 to 48 • 0.99 to 1.22
18-L30-97	SFC 30	3.0 • 4.5	5/16 • 8	1.82 • 46	505 • 154	39 to 49 • 0.99 to 1.25
18-L35-97	SFC 35	3.5 • 5.2	3/8 • 10	1.91 • 49	600 • 183	40 to 50 • 1.02 to 1.27
18-L40-97	SFC 40	4.0 • 6.0	3/8 • 10	2.04 • 52	530 • 162	40 to 50 • 1.02 to 1.27

Steadi-Flex cables are available with 4 week lead time.

<sup>1</sup>NOTE: Loop diameter varies with application (ex. car speed, distance between support points)

Steadi-Flex cable is a wide-loop version of our popular Whisper-Flex cable designed for use on elevators with greater than 400 feet • 122 m of travel or with elevators that have a side counterweight. It provides smooth operation at temperatures of -15° C to +60° C and can be used for elevators with rated speeds of no greater than 700 ft/min • 3.56 m/sec.\*

Support brackets, U-bolts, S-hooks and heavy duty couplings specifically designed for Steadi-Flex cable must be used to ensure safe installations. Shallow pit installation hardware (JCC-XX-CHN) is recommended for use with Steadi-Flex. See page 25 for details on this hardware.

Draka's EP's ShallowSwayless dampening device is recommended for use with Steadi-Flex to minimize cable sway for car speeds above 350 ft/min (1.8 m/sec). See page 29.

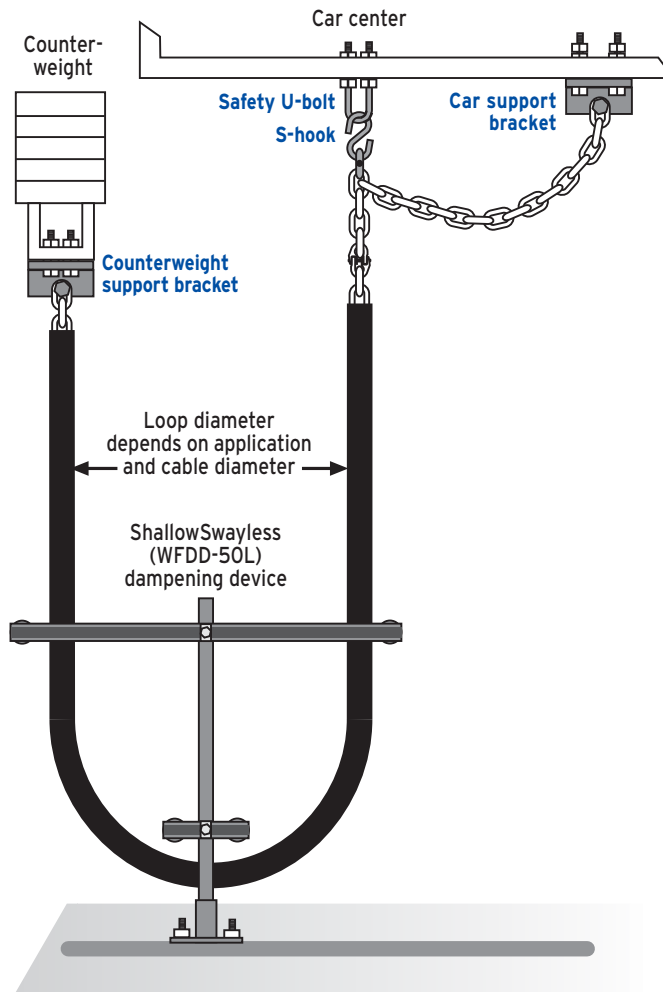
Refer to the JCC-XX-CHN sections of the Compensating Cable Installation Guide for exact instructions on installation procedures.

Draka EP can suggest which size of Steadi-Flex cable to use. Call 1-877-372-5237 or +1-252-984-5100 and have the following information ready:

- 1) number of hoist ropes per car
- 2) outer diameter of the hoist ropes
- 3) stranding of the hoist ropes (i.e. 8x19, 8x25...)
- 4) car roping (i.e. 1:1, 2:1, other...)
- 5) number of Steadi-Flex cables per car
- 6) length of Steadi-Flex cable needed

If replacing existing compensation, have ready the chain link size or cable brand name and outer diameter.

\*based on the most current code at the time of printing: ASME A17.1 - 2004, Rule 2.21.4.2 Compensating Rope Tie-Down



### Component Specifications

#### Chain

Low carbon, electrically welded proof coil chain. Each link is proof tested at two times the working load limit.

#### Filler

Metallic bead/polyvinyl chloride mixture adds mass and forms a round cross-section.

#### Jacket

60°C flame-retardant polyvinyl chloride that resists oxidation, weathering, solvents, chemicals and flame.

Meets requirements of UL VW1 and CSA FT1 flame tests.

## Stripping service 1 1/2 and 3 1/2 links exposed

Part Number	Description
WFSTRIP1.5L	Cable with 1 1/2 links stripped at one end
WFSTRIP3L	Cable with 3 1/2 links stripped at one end



# Compensating Cable Installation Hardware

## Installation and strip kits

### JCC installation kits for Whisper-Flex in standard pits

Part Number	For Use on Cable	Support Bracket Part No.	U-bolt Part No.	S-hook Part No.	Grip Part No.	3/4" black electrical tape Part No.
JCC-10	WF 10	n/a	n/a	79-011	024-20-1504	16-005
JCC-15	WF 15	n/a	n/a	79-013	024-20-1470	16-005
JCC-20	WF 20	n/a	n/a	79-013	024-20-1510	16-005
JCC-25	WF 25	n/a	n/a	79-016	024-20-1510	16-005
JCC-30	WF 30	n/a	n/a	79-016	024-20-1499	16-005
JCC-35	WF 35	n/a	n/a	79-016	024-20-1499	16-005
JCC-40	WF 40	n/a	n/a	79-016	024-20-1542	16-005

### JCC-CHN installation kits for Steadi-Flex (and Whisper-Flex in shallow pits)

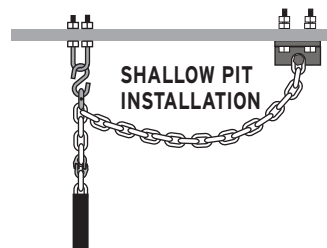
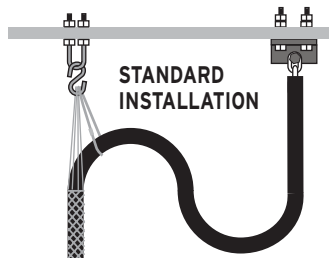
Part Number	For Use on Cable	Support Bracket Part No.	U-bolt Part No.	S-hook Part No.	Grip Part No.	3/4" black electrical tape Part No.
JCC-10-CHN	WF 10	n/a	n/a	79-011	79-116	79-119
JCC-20-CHN	WF/SFC 15 & 20	n/a	n/a	79-013	79-116	79-119
JCC-30-CHN	WF/SFC 25 & 30	n/a	n/a	79-016	79-116 (qty. 2)	79-120
JCC-40-CHN	WF/SFC 35 & 40	n/a	n/a	79-016	79-116 & 79-117	79-120

These components are specifically designed for the installation of Whisper-Flex/Steadi-Flex cables. ONLY THE S-HOOK, MESH GRIP AND COUPLINGS ARE AVAILABLE SEPARATELY. USE OF OTHER HARDWARE (non-Draka EP components) COULD SERIOUSLY JEOPARDIZE THE SAFETY OF THE INSTALLATION AND WILL VOID ANY WARRANTY.

Both JCC and JCC-CHN kits contain 2 Support Brackets (includes grade 8 nuts, bolts, lockwashers and hardened washers), 1 U-bolt (includes nuts and washers), and 1 S-hook.

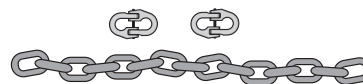
JCC kits use 1 stainless steel mesh grip to form the safety/adjustment loop. See next page for technical specifications on grips.

JCC-CHN kits use 1 or 2 couplings and a 4' length of chain to form the safety/adjustment loop.



### Coupling kits for shallow pits

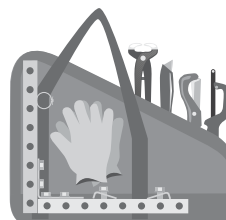
Part Number	For Use on Compensating Cable	Chain Size	Coupling Size(s)
WF-20-CPLG	WF/SFC 10, 15 & 20	5/16"	(1) 9/32"
WF-30-CPLG	WF/SFC 25 & 30	3/8"	(2) 9/32"
WF-40-CPLG	WF/SFC 35 & 40	3/8"	(1) 9/32", (1) 3/8"



Coupling kits consist of the chain and coupling(s) from the JCC-CHN installation kits; they DO NOT include mounting brackets, U-bolts or S-hooks.

### Whisper-Flex and Steadi-Flex strip kit

Part Number	Description
WF-STRP	Strip kit with instructions, angle mounting bracket (already assembled), clamps, nippers, utility knife, cable jacket cutter, hacksaw and gloves for use in preparing the end of all Draka compensating cables. Carrying case included. Other tools required but not included are 3/4" wrench and flathead screwdriver



#### Important Note on Warranty

Whisper-Flex installation kits and the hardware they contain were developed specifically for use in supporting Whisper-Flex compensating cable. When used as recommended, this support system will ensure safe Whisper-Flex cable operation.

#### Important Note on Warranty

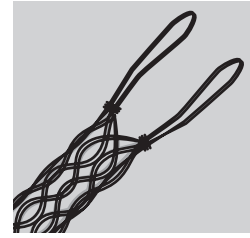
Draka EP's compensating cable installation hardware was developed specifically for use in supporting compensating cable. When used as recommended, this support system will ensure safe compensating cable operation.

# Compensating Cable Installation Hardware

Designed specifically for Draka EP compensating cables

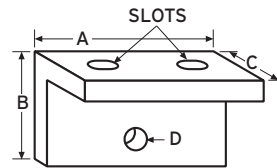
## Stainless steel mesh grip Double eye/double weave/closed mesh (one required per installation)

Part Number	For use on Cables	Eye Length in • mm	Nom. Mesh Length in • mm	Maximum Load* lbs • kg
024-20-1504	WF 10	12.0 • 305	14.0 • 356	1200 • 545
024-20-1470	WF 15	12.0 • 305	15.0 • 381	1640 • 745
024-20-1510	WF 20, WF 25	12.0 • 305	17.0 • 432	1660 • 755
024-20-1499	WF 30, WF 35	12.0 • 305	19.0 • 483	1800 • 818
024-20-1542	WF 40	12.0 • 305	21.0 • 533	1800 • 818



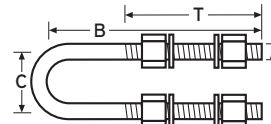
## Support bracket (two required - not available separately)

Part Number	For use on Cables	Overall Size (AxBxC) in • mm	Hole D Diameter in • mm	Slot Size in • mm	Slot Center to Center in • mm
n/a	WF 10	3 x 3 x 5 • 76 x 76 x 127	0.375 • 9.5	0.5 x .875 • 13 x 22	2.625 • 66.7
n/a	WF/SFC 15 to WF/SFC 30	3 x 3 x 5 • 76 x 76 x 127	0.438 • 11	0.5 x .875 • 13 x 22	2.625 • 66.7
n/a	WF/SFC 35 to WF/SFC 40	3 x 3 x 5 • 76 x 76 x 127	0.500 • 13	0.5 x .875 • 13 x 22	2.625 • 66.7



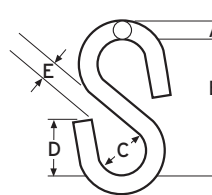
## Steel U-bolt (one required - not available separately)

Part Number	For use on Cables	Dim. A in • mm	Dim. B in • mm	Dim. C in • mm	Dim. T in • mm	Maximum Load* lbs • kg
n/a	WF 10 WF/SFC 15 to WF/SFC 40	.38 • 9.5	4.75 • 121	2.86 • 73	3.0 • 76	2320 • 1052



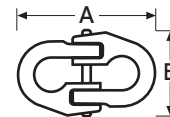
## Steel S-hook (one required - available for individual replacement†)

Part Number	For use on Cables	Dim. A in • mm	Dim. B in • mm	Dim. C in • mm	Dim. D in • mm	Dim. E in • mm	Yield Strength lbs • kg
79-011	WF 10	.38 • 9.5	2.38 • 60	.75 • 19	1.125 • 29	.540 • 14	1200 • 544
79-013	WF/SFC 15 to WF/SFC 20	.38 • 9.5	2.75 • 70	.75 • 19	1.125 • 29	.500 • 13	2400 • 1088
79-016	WF/SFC 25 to WF/SFC 40	.53 • 13.5	3.00 • 76	1.0 • 25	1.125 • 29	.595 • 15	4800 • 2177



## Coupling (one or two required for JCC-CHN installation - see page 25)

Part Number	For use on Cables	For Chain Size in • mm	Dim. A in • mm	Dim. B in • mm	Working Load Limit lbs • kg
79-116	WF 10 to 20	9/32 • 7	2 17/32 • 64	15/16 • 23	4300 • 1950
79-117	WF/SFC 25 to 40	3/8 • 10	3 7/16 • 87	2 3/8 • 60	8800 • 4000



\*Maximum Load is based on minimum breaking strength with a 5:1 safety factor.

†Since the S-Hook is designed to yield in order to alleviate possible damage in the event of obstruction, this item is available for replacement purposes.

### Important Note on Warranty

Draka EP's compensating cable installation hardware was developed specifically for use in supporting compensating cable. When used as recommended, this support system will ensure safe compensating cable operation.

USE OF OTHER HARDWARE (non-Draka EP components) COULD SERIOUSLY JEOPARDIZE THE SAFETY OF THE WHISPER-FLEX OR STEADI-FLEX CABLE INSTALLATION AND WILL VOID ANY WARRANTY.

Call 1-877-372-5237 to get a compensating cable installation guide.

# Compensating Cable Accessories

Swayless® dampening device for speeds up to 500 ft/min • 2.54 m/sec

US Patent 6,234,277 (two required per installation - mounting brackets sold separately)

Part Number	Overall Dimensions in • mm	Center opening in • mm	Quantity
WF-SRD	6 1/4 x 3 15/16 x 2 3/4 • 158 x 100 x 70	2 3/4 • 70	2
WF-SRD-1	6 1/4 x 3 15/16 x 2 3/4 • 158 x 100 x 70	2 3/4 • 70	1
WF-SRD-M*	6 1/4 x 3 15/16 x 2 3/4 • 158 x 100 x 70	2 3/4 • 70	2
WF-SRD-BR	brass ring replacement (2 3/4 • 70)		1

\*NOTE: Metric version uses metric nuts and bolts for closure and attachment.

Swayless dampening devices are recommended for maintaining smooth operation of Whisper-Flex/Steady-Flex compensating cables for speeds of up to 500 feet/min • 2.54 m/sec.

The purpose of the WF-SRD is to dampen any oscillation or cable sway that may be generated by cable motion at higher speeds. The dampening device is not usually required but can be used for speeds less than 350 feet/min • 1.78 m/sec. Proper installation requires that compensating cable should not contact the ring of the dampening device when the cable is stationary. Cable must be centered within the holes.

As the car and counterweight move, the dampening device keeps the Whisper-Flex compensating cable in position for optimum operation.

The WF-SRD can be used for compensating cable sizes WF10 and WF/SFC 15 to 30. Draka EP offers mounting brackets for easy installation in the elevator pit. Consult the Compensating Cable Installation Guide for the installation of dampening devices.

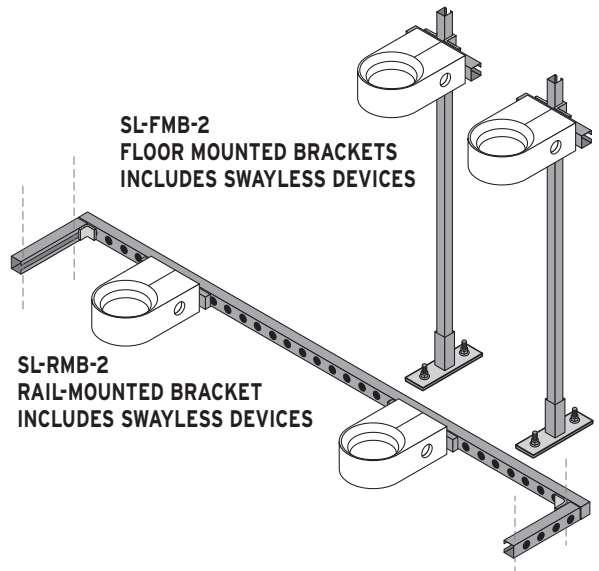
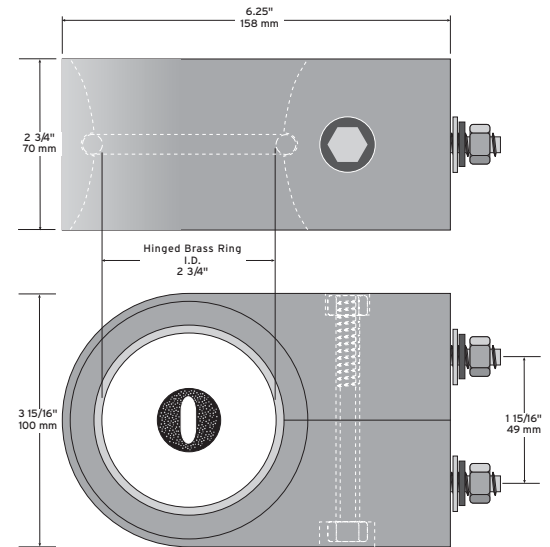
For shallow pits not allowing three feet height above cable loop, please call Draka EP for engineering assistance.

## Swayless® mounting brackets

Part Number	Description
SL-FMB-48	(2) floor-mounted brackets adjustable to 48" • 1.2 m height
SL-FMB-2	(2) floor-mounted brackets adjustable to 48" • 1.2 m height with (2) Swayless devices
SL-RMB-60	Counterweight rail-mounted bracket adjustable to 60" • 1.5 m width
SL-RMB-2	Counterweight rail-mounted bracket adjustable to 60" • 1.5 m width with (2) Swayless devices

These brackets are especially designed to help you to quickly and easily install Swayless devices off the counterweight guide rails and off the pit floor. They come with all the necessary hardware, including nuts and bolts.

WF-SRD SWAYLESS DAMPENING DEVICE



Call 1-877-372-5237 to get a compensating cable installation guide.

# Compensating Cable Accessories

Super Swayless® dampening device for speeds up to 700 ft/min • 3.56 m/sec

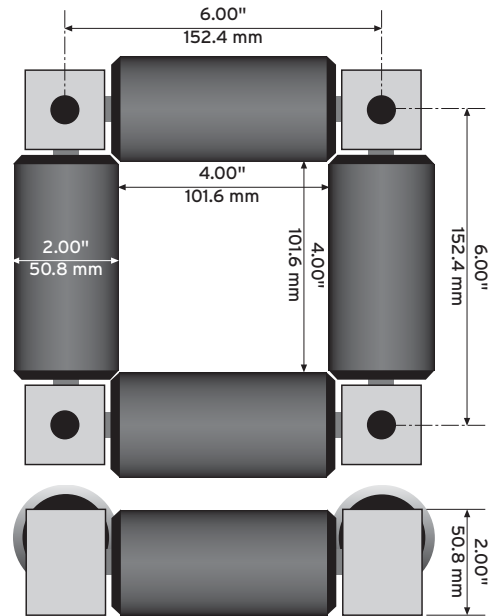
Two required per installation - mounting brackets sold separately

Part Number	Overall Dimensions in • mm	Mounting Hole Dia. in • mm	Quantity
WF-RDD2	8 w x 8 d x 2 t • 203 w x 203 d x 50 t	1/2 • 13	1

**WF-RDD2 Super Swayless** dampening devices have an improved design and are recommended for maintaining smooth operation of compensating cables for speeds of up to 700 feet/min • 3.56 m/sec.

The WF-RDD2 uses free-turning nylon rollers to contain and dampen any oscillation or cable sway that may be generated by cable motion at higher speeds.

## WF-RDD2 DAMPENING DEVICE

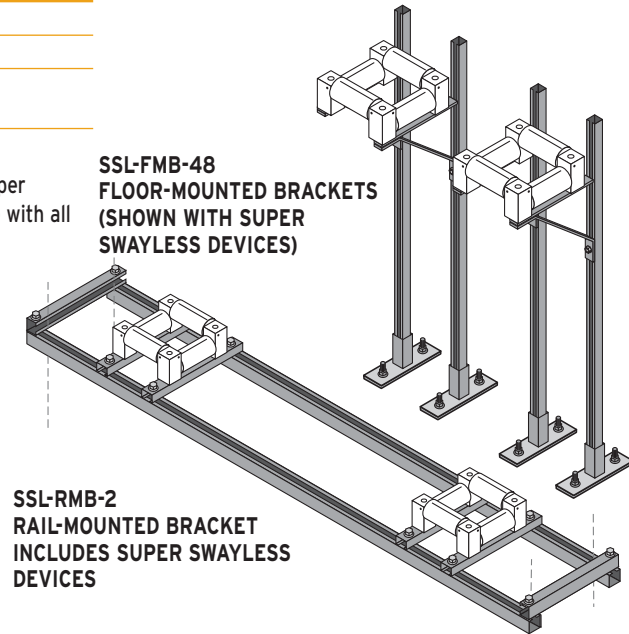


## Super Swayless® mounting brackets

Part Number	Description
SSL-FMB-48	(2) floor-mounted brackets adjustable to 48" • 1.2 m height
SSL-RMB-72	Counterweight rail-mounted bracket adjustable to 72" • 1.8 m width
SSL-RMB-2	Counterweight rail-mounted bracket adjustable to 72" • 1.8 m width with (2) Super Swayless devices

These brackets are especially designed to help you to quickly and easily install Super Swayless devices off the counterweight guide rails and off the pit floor. They come with all the necessary hardware, including nuts and bolts.

SSL-FMB-48  
FLOOR-MOUNTED BRACKETS  
(SHOWN WITH SUPER  
SWAYLESS DEVICES)



SSL-RMB-2  
RAIL-MOUNTED BRACKET  
INCLUDES SUPER SWAYLESS  
DEVICES

Call 1-877-372-5237 to get a compensating cable installation guide.

# Compensating Cable Accessories

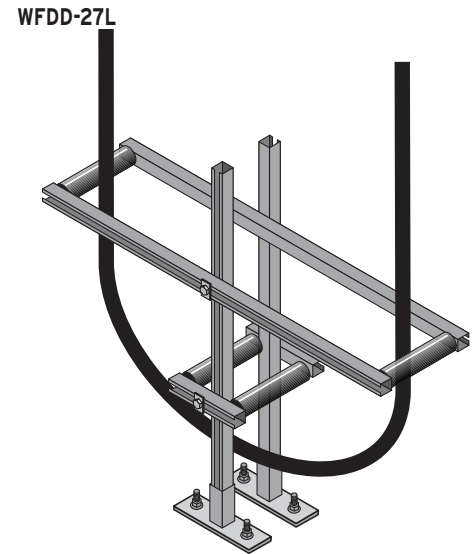
ShallowSwayless® for speeds up to 700 ft/min • 3.56 m/sec

## Patent pending

Part Number	Description
WFDD-27L	ShallowSwayless kit, for Whisper-Flex cable with 23 to 27 inch loop
WFDD-50L	ShallowSwayless kit, for Steadi-Flex cable with 38 to 50 inch loop

The **ShallowSwayless** is a sway reduction device for shallow pit applications where there is insufficient pit depth for Swayless or SuperSwayless devices. It reduces compensating cable sway and oscillation in installations up to 700 ft/min • 3.56 m/sec. Two sizes are available; the 27L version is for Whisper-Flex and the 50L version is for Steadi-Flex.

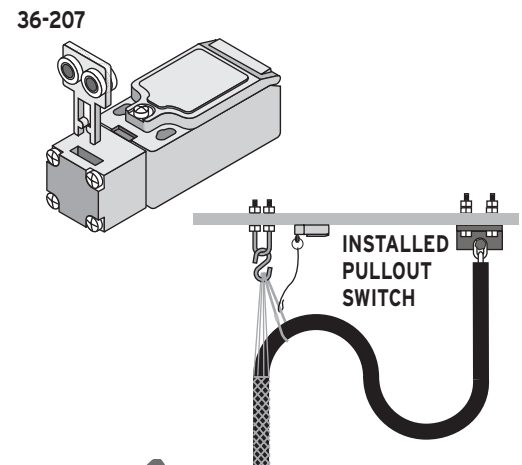
The kit includes all components shown, including mounting bolts and washers.



## Pullout switch and kit

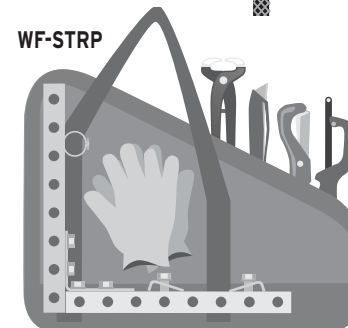
Part Number	Description	Quantity
36-207	Pullout switch, with flat key actuator and rotating head	1
WF-POSK	Pullout switch installation kit, which includes one pullout switch (#36-207), two split o-rings, two cable ties, two 4 x 40 mm pan-head screws, two 4 mm hex nuts, four 4 mm flat washers and two 4 mm lock washers. An adapter is included for imperial conduit fittings.	1

The **Pullout Switch** is UL and C-UL listed and conforms to EN1088, EN292, EN60947-5-1, EN60204-1 and EN50047. The switch enclosure meets NEMA 6.



## Whisper-Flex and Steadi-Flex strip kit

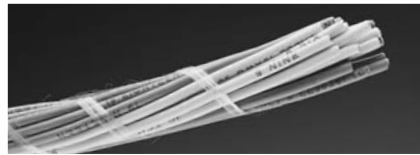
Part Number	Description
WF-STRP	Strip kit with instructions, angle mounting bracket (already assembled), clamps, nippers, utility knife, cable jacket cutter, hacksaw and gloves for use in preparing the end of all Draka compensating cables. Carrying case included. Other tools required but not included are 3/4" wrench and flathead screwdriver



Call 1-877-372-5237 to get a compensating cable installation guide.

# Super-Duct® Hoistway Cable/600V

Unjacketed to meet UL/CSA/NEC/CEC standards



with power/signal only

Part Number	Product Code	Number/Type • Size of Conductors	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km	SP versions have alternate conductor Identification schemes
18-003-41	WOJ 3-14	3 /14 AWG • 2.0 mm <sup>2</sup>	0.31 • 7.9	59 • 88	
18-008-47	WOJ 8-14 SP	8 /14 AWG • 2.0 mm <sup>2</sup>	0.50 • 12.7	158 • 235	#1/green, #2 to 4/white, #5 to 8/black
18-014-41	WOJ 14-14	14 /14 AWG • 2.0 mm <sup>2</sup>	0.63 • 16.0	276 • 411	
18-204-41	WOJ 4-16	4 /16 AWG • 1.5 mm <sup>2</sup>	0.33 • 8.4	56 • 83	
18-219-41	WOJ 19-16	19 /16 AWG • 1.5 mm <sup>2</sup>	0.63 • 16.0	264 • 393	
18-404-41	WOJ 4-18	4 /18 AWG • 0.75 mm <sup>2</sup>	0.27 • 6.9	41 • 61	
18-404-47	WOJ 4-18 SP	4 /18 AWG • 0.75 mm <sup>2</sup>	0.27 • 6.9	41 • 61	#1/yellow, #2/orange, #3/blue, #4/red
18-407-41	WOJ 7-18	7 /18 AWG • 0.75 mm <sup>2</sup>	0.34 • 8.6	72 • 107	
18-410-41	WOJ 10-18	10 /18 AWG • 0.75 mm <sup>2</sup>	0.43 • 10.9	103 • 153	
18-412-41	WOJ 12-18	12 /18 AWG • 0.75 mm <sup>2</sup>	0.46 • 11.7	119 • 177	
18-414-41	WOJ 14-18	14 /18 AWG • 0.75 mm <sup>2</sup>	0.49 • 12.4	144 • 214	
18-416-41	WOJ 16-18	16 /18 AWG • 0.75 mm <sup>2</sup>	0.53 • 13.5	165 • 246	
18-419-41	WOJ 19-18	19 /18 AWG • 0.75 mm <sup>2</sup>	0.56 • 14.2	195 • 290	
18-421-47	WOJ 21-18 SP	21 /18 AWG • 0.75 mm <sup>2</sup>	0.65 • 16.5	215 • 320	Conductors are numbered 32 to 52
18-424-41	WOJ 24-18	24 /18 AWG • 0.75 mm <sup>2</sup>	0.66 • 16.8	234 • 349	
18-430-41	WOJ 30-18	30 /18 AWG • 0.75 mm <sup>2</sup>	0.72 • 18.3	307 • 457	
18-437-41	WOJ 37-18	37 /18 AWG • 0.75 mm <sup>2</sup>	0.78 • 19.8	380 • 566	
18-437-47	WOJ 37-18 SP	37 /18 AWG • 0.75 mm <sup>2</sup>	0.78 • 19.8	380 • 566	Conductors are numbered 38 to 74
18-442-41	WOJ 42-18	42 /18 AWG • 0.75 mm <sup>2</sup>	0.84 • 21.3	432 • 643	
18-461-41	WOJ 61-18	61 /18 AWG • 0.75 mm <sup>2</sup>	0.98 • 24.9	625 • 930	

NOTE: 90° C-rated conductors are available upon request.



## Power and signal/shielded pair combinations

Part Number	Product Code	Number/Type • Size Conductors & Shielded Pairs	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
18-435-42	CWOJ 39	4 /14 AWG • 2.0 mm <sup>2</sup> 35 /18 AWG • 0.75 mm <sup>2</sup>	.85 • 21.6	427 • 635
18-X24-42	CWOJ 42	14 /14 AWG • 2.0 mm <sup>2</sup> 24 /18 AWG • 0.75 mm <sup>2</sup> 2 sh. pairs /20 AWG • 0.5 mm <sup>2</sup>	.96 • 24.4	599 • 891
18-449-42	CWOJ 49	4 /14 AWG • 2.0 mm <sup>2</sup> 45 /18 AWG • 0.75 mm <sup>2</sup>	.98 • 24.9	530 • 789
18-57X-42	CWOJ 57	4 /14 AWG • 2.0 mm <sup>2</sup> 40 /18 AWG • 0.75 mm <sup>2</sup> 6 sh. pairs /20 AWG • 0.5 mm <sup>2</sup> 1 coax /RG6/U	1.22 • 31.0	652 • 970
18-661-42	CWOJ 71	6 /14 AWG • 2.0 mm <sup>2</sup> 61 /18 AWG • 0.75 mm <sup>2</sup> 2 sh. pairs /20 AWG • 0.5 mm <sup>2</sup>	1.18 • 30.0	816 • 1214

NOTE: 90° C-rated conductors are available upon request.

### Component Specifications

#### Stranded Conductors

Bunch-stranded bare soft drawn copper, insulated with 60° C colored, flame-retardant PVC complying with ANSI/ASTM, UL and CSA requirements and codes, identified by insulation color or a combination of insulation color and numerical markings appearing four times per foot.

#### Binder

Strong, helically-wound synthetic fiber.

### Component Specifications

#### Stranded Conductors

Same as above.

#### Shielded Pairs

Composed of insulated conductors, braided with 36 AWG bare copper for 85% coverage, and jacketed with 60° C colored, flame-retardant PVC.

#### Binder

Strong, helically-wound synthetic fiber.

# Super-Duct® Hoistway Cable to meet UL/CSA/NEC/CEC standards

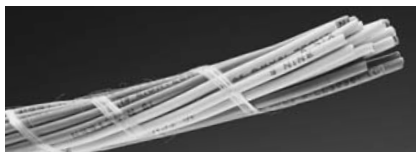


## 600V/jacketed with power/signal only

Part Number	Product Code	Number/Type • Size of Conductors	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
18-404-43*	D4-18	4 /18 AWG • 0.75 mm <sup>2</sup>	.33 • 8.4	58 • 86
18-407-43	D7-18	7 /18 AWG • 0.75 mm <sup>2</sup>	.40 • 10.2	91 • 135
18-414-43	D14-18	14 /18 AWG • 0.75 mm <sup>2</sup>	.56 • 14.2	175 • 260
18-419-43	D19-18	19 /18 AWG • 0.75 mm <sup>2</sup>	.63 • 16.0	228 • 339
18-437-43	D37-18	37 /18 AWG • 0.75 mm <sup>2</sup>	.86 • 21.8	433 • 644

\*Conductor colors are non-standard: #1/black - #2/white - #3/green - #4/red.

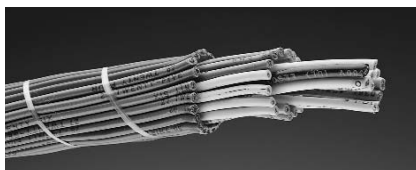
NOTE: 90° C-rated conductors are available upon request.



## 300V/unjacketed with power/signal only

Part Number	Product Code	Number/Type • Size of Conductors	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
18-704-41	WOJ 4-18 300V	4 /18 AWG • 0.75 mm <sup>2</sup>	0.25 • 6.4	36 • 54
18-705-41	WOJ 5-18 300V	5 /18 AWG • 0.75 mm <sup>2</sup>	0.31 • 7.9	46 • 68
18-707-41	WOJ 7-18 300V	7 /18 AWG • 0.75 mm <sup>2</sup>	0.34 • 8.6	64 • 95
18-710-41	WOJ 10-18 300V	10 /18 AWG • 0.75 mm <sup>2</sup>	0.40 • 10.2	91 • 135
18-714-41	WOJ 14-18 300V	14 /18 AWG • 0.75 mm <sup>2</sup>	0.46 • 11.7	128 • 190
18-716-41	WOJ 16-18 300V	16 /18 AWG • 0.75 mm <sup>2</sup>	0.52 • 13.2	146 • 217
18-719-41	WOJ 19-18 300V	19 /18 AWG • 0.75 mm <sup>2</sup>	0.52 • 13.2	173 • 257
18-730-41	WOJ 30-18 300V	30 /18 AWG • 0.75 mm <sup>2</sup>	0.67 • 17.0	276 • 411
18-737-41	WOJ 37-18 300V	37 /18 AWG • 0.75 mm <sup>2</sup>	0.73 • 18.5	345 • 513
18-761-41	WOJ 61-18 300V	61 /18 AWG • 0.75 mm <sup>2</sup>	0.93 • 23.6	564 • 839

NOTE: 90° C-rated conductors are available upon request.



## 300V and 600V/unjacketed power and signal/shielded pair combinations

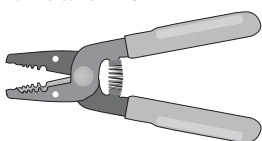
Part Number	Product Code	Number/Type • Size of Conductors	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km	Rated Voltage
18-311-42	CWOJ 14 SP	3 /14 AWG • 2.0 mm <sup>2</sup> 11 /18 AWG • 0.75 mm <sup>2</sup>	0.53 • 13.5	160 • 238	300V
18-661-42	CWOJ 71	6 /14 AWG • 2.0 mm <sup>2</sup> 61 /18 AWG • 0.75 mm <sup>2</sup> 2 sh. pairs /20 AWG • 0.5 mm <sup>2</sup>	1.18 • 30.0	816 • 1214	600V

NOTE: 90° C-rated conductors are available upon request.

### Recommended tools

**36-219 Automatic Wire Stripper**  
for 22 to 10 AWG

**37-177 Wire Strippers**  
for 26 to 16 AWG



Connectorized Super-Duct cables are available; call 1-877-372-5237 for details.

### Component Specifications

#### Stranded Conductors

Bunch-stranded bare soft drawn copper, insulated with 60° C colored, flame-retardant PVC complying with ANSI/ASTM, UL and CSA requirements and codes, identified by insulation color or a combination of insulation color and numerical markings appearing four times per foot.

#### Binder

Strong, helically-wound synthetic fiber.

#### Jacket

60° C PVC specifically compounded for flexibility and abrasion resistance. UL VW-1 and CSA FT1 flame rated throughout.

Super-Duct

# Stationary Wire

for audio and data communications/300V



with shielded pairs only

Part Number	Number/Type • Size of Conductors	Shielded Pair Color Codes	Nominal OD inches • mm	Net Weight lbs/kft • kg/km
18-801-43	1 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	red/white	0.22 • 5.5	29 • 43
M13142	2 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	black/red, green/white	0.23 • 5.8	34 • 51
M13143	3 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	see below	0.30 • 7.6	52 • 77
M13144	4 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	see below	0.32 • 8.1	64 • 95
M13146	6 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	see below	0.38 • 9.7	87 • 130
M13149	9 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	see below	0.45 • 11.4	132 • 196
M13152	12 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	see below	0.50 • 12.7	169 • 251
M13155	15 sh. pair /20 AWG • 0.5 mm <sup>2</sup>	see below	0.60 • 15.2	225 • 335
		pair #1 - black/red		
		pair #2 - black/white		
		pair #3 - black/green		
		pair #4 - black/blue		
		pair #5 - black/yellow		
		pair #6 - black/brown		
		pair #7 - black/orange		
		pair #8 - red/white		
		pair #9 - red/green		
		pair #10 - red/blue		
		pair #11 - red/yellow		
		pair #12 - red/brown		
		pair #13 - red/orange		
		pair #14 - green/white		
		pair #15 - green/blue		



### Component Specifications

#### Shielded Pairs

Composed of 20 AWG stranded insulated conductors, shielded with polyester/aluminum tape for 100% coverage, insulated with 80°C semi-rigid PVC, positively identified by insulation color.

NOTE: 18-801-43 is shielded with 36 AWG bare copper braid for 85% coverage.

#### Jacket

Outer sheath is a chrome polyvinyl chloride (PVC) that provides a smooth, wear-resistant surface.

NOTE: 18-801-43 is jacketed with black polyvinyl chloride (PVC).

#### Drain Wire

22 AWG bunch stranded soft drawn copper, tinned for solderability.

NOTE: 18-801-43 does NOT have a drain wire.

# Door Lock Wire

SF-2 single conductor/600V - 200° C rated  
Hook-up, hoistway door, interlock wire



Part Number	Product Code	Description/Type • Size of Single Conductor	Nominal OD inches • mm	Net Weight lbs/kft • kg/km	Put-ups	Jacket Colors (abr. below)
16ASF2 X-AT	16 SF-2	7/.019 tinned copper 16 AWG • 1.5 mm <sup>2</sup>	0.14 • 3.6	15 • 22.3	cut to length	BL, WH/RD, RD
18ASF2 X-Y†	18 SF-2 Strand	7/.015 tinned copper 18 AWG • 0.75 mm <sup>2</sup>	0.13 • 3.3	12 • 17.9	500, 1000'	BL, WH/RD & RD
18SSF2 RD-AT	18 SF-2 Solid	solid tinned copper 18 AWG • 0.75 mm <sup>2</sup>	0.12 • 3.0	12 • 17.9	cut to length	RD

†The X at the end of the part number is a placeholder for the color code; the Y is a placeholder for the put-up.

When ordering, specify the insulation color and put-up you require (i.e. part number 18ASF2 X-Y with black insulation in a 500' length would be part number 18ASF2 BL-500).

Color key: BL Black • RD Red • WH/RD White/Red



### Component Specifications

#### Stranded Conductors

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

#### Solid Conductors

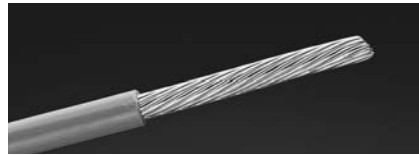
Solid bare soft drawn copper complying with ANSI/ASTM B3.

#### Tinned Stranded Conductors

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



# Power Cable



## THHN-type single conductor/600V - 90°C rated\*

Part Number	Product Code	Description/Type • Size of Single Conductor	Nominal OD inches • mm	Net Weight lbs/kft • kg/km	Insulation Thickness inches • mm	Jacket Colors (key below)
4/OATHHN BL	4/O THHN	19 strand copper 4/O AWG • 108 mm <sup>2</sup>	.64 • 16.2	711 • 1058	.05 • 1.3	BL
3/OATHHN BL	3/O THHN	19 strand copper 3/O AWG • 84.9 mm <sup>2</sup>	.58 • 14.7	570 • 848	.05 • 1.3	BL
2/OATHHN BL	2/O THHN	19 strand copper 2/O AWG • 67.5 mm <sup>2</sup>	.52 • 13.2	458 • 681	.05 • 1.3	BL
1/OATHHN BL	1/O THHN	19 strand copper 1/O AWG • 53.4 mm <sup>2</sup>	.48 • 12.2	369 • 549	.05 • 1.3	BL
1ATHHN BL	1 AWG THHN	19 strand copper 1 AWG • 42.5 mm <sup>2</sup>	.44 • 11.2	297 • 442	.05 • 1.3	BL
2ATHHN BL	2 AWG THHN	19 strand copper 2 AWG • 33.7 mm <sup>2</sup>	.38 • 9.7	232 • 345	.04 • 1.0	BL
4ATHHN BL	4 AWG THHN	19 strand copper 4 AWG • 21.2 mm <sup>2</sup>	.32 • 8.1	151 • 225	.04 • 1.0	BL
6ATHHN X <sup>†</sup>	6 AWG THHN*	19 strand copper 6 AWG • 13.3 mm <sup>2</sup>	.25 • 6.4	94 • 140	.03 • 0.8	BL, GN
8ATHHN X <sup>†</sup>	8 AWG THHN*	19 strand copper 8 AWG • 8.3 mm <sup>2</sup>	.22 • 5.5	62 • 92	.03 • 0.8	BL, GN
10ATHHN X <sup>†</sup>	10 AWG THHN*	19 strand copper 10 AWG • 5.2 mm <sup>2</sup>	.16 • 4.0	38 • 57	.02 • 0.5	BL, WH
12ATHHN X <sup>†</sup>	12 AWG THHN*	19 strand copper 12 AWG • 3.3 mm <sup>2</sup>	.13 • 3.3	24 • 36	.02 • 0.5	BL, WH

\*6ATHHN X, 8ATHHN X, 10ATHHN X and 12ATHHN X are suitable for 105° C appliance wiring material (AWM).

<sup>†</sup>The X at the end of the part number is a placeholder for the color code.

When ordering, specify the insulation color you require (i.e. product code 6 AWG THHN with green insulation would be part number 6ATHHN GN).

All cables are cut to length. Please specify.

Color key: BL black • GN green • WH white.

### Component Specifications

#### SPECIAL NOTE:

THHN (or MTW or THWN-2) conductors are 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.

#### Stranded Conductors

Annealed bare copper complying with ANSI/ASTM B174 and ANSI/ASTM B3.

#### Insulation

High-heat and moisture-resistant PVC

#### Jacketing

Abrasion-, moisture-, gasoline-, and oil-resistant nylon (polyamide) or its UL listed equivalent.

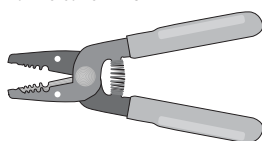
Wire products

## Recommended tools

**36-219 Automatic Wire Stripper**  
for 22 to 10 AWG



**37-177 Wire Strippers**  
for 26 to 16 AWG



# Power Cable



## TEW-type single conductor/600V - 105° C rated

Part Number	Product Code	Description/Type • Size of Single Conductor	Nominal OD inches • mm	Net Weight lbs/kft • kg/km	Put-ups	Jacket Colors (key below)
8ATEW X-Y†	8 AWG TEW	19/.0295 strand copper 8 AWG • 8.3 mm <sup>2</sup>	0.24 • 6.1	66 • 98.2	cut to length	BL, GN
10ATEW X-Y†	10 AWG TEW	19/.0234 strand copper 10 AWG • 5.2 mm <sup>2</sup>	0.18 • 4.6	42 • 62.5	cut to length	BL, GN
12ATEW X-Y†	12 AWG TEW	19/.0185 strand copper 12 AWG • 3.3 mm <sup>2</sup>	0.16 • 4.1	29 • 43.2	cut to length	BL, GN, WH
14ATEW X-Y†	14 AWG TEW	19/.0147 strand copper 14 AWG • 2.0 mm <sup>2</sup>	0.13 • 3.3	19 • 28.1	500, 2500'	BL, BU, GN, RD, WH
16ATEW X-Y†	16 AWG TEW	26/.010 strand copper 16 AWG • 1.5 mm <sup>2</sup>	0.12 • 3.0	15 • 22.2	500'	BL, BU, OR & YW
18ATEW X-Y†	18 AWG TEW	16/.010 strand copper 18 AWG • 0.75 mm <sup>2</sup>	0.11 • 2.8	11 • 16.3	500, 5000'	BL, BU, RD, WH, GN, GY, OR, PK, BR, TN, PU, YW, MR
20ATEW X-Y†	20 AWG TEW	10/.030 strand copper 20 AWG • 0.5 mm <sup>2</sup>	0.10 • 2.5	8 • 3.6	1000'	BL, WH, RD

### Component Specifications

**Stranded Conductors**  
Bare copper complying with ANSI/ASTM B174 and ANSI/ASTM B3.

**Insulation**  
High-heat and moisture-resistant PVC.

**Jacketing**  
Colored PVC.

## SOOW-type four conductor portable cord/600V - 90°C rated

Part Number	Product Code	Description/Type • Size of Conductors	Nominal OD inches • mm	Net Weight lbs/kft • kg/km	Put-ups	Jacket Colors (key below)
6/4 SOOW	6 AWG SOOW	133/.0142 strand copper	1.06 • 26.9	856 • 388	250'	BL
8/4 SOOW	8 AWG SOOW	65/.0159 strand copper	0.93 • 23.6	605 • 274	250'	BL
10/4 SOOW	10 AWG SOOW	104/.010 strand copper	0.70 • 17.8	357 • 162	250'	BL

Other gauge sizes and conductor counts are available with short lead times.

†The X at the end of the part number is a placeholder for the color code; the Y is a placeholder for the put-up. When ordering, specify the insulation color and put-up you require (i.e. part number 8ATEW X-Y with black insulation in a 500' length would be part number 8ATEW BL-500).

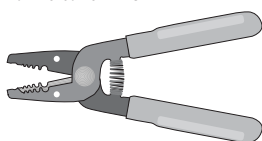
Color key: BL black • BU blue • BR brown • GN green • GY grey • MR maroon • OR orange • PK pink • PU purple • TN tan • YW yellow • RD red • WH white

### Recommended tools

**36-219 Automatic Wire Stripper**  
for 22 to 10 AWG



**37-177 Wire Strippers**  
for 26 to 16 AWG



# Specialty Wire and Cable

## for Hoistway and Machine Room Uses



### for communications, signal or power

Part Number	Description	Suggested Use
06067	6 / 18 AWG stranded copper • PVC insulation • unjacketed • 300V, 90° C	Control and signal
TR-64	7 / 18 AWG stranded copper • PVC insulation • unjacketed • 300V, 90° C	Control and signal
9475	RG6/U coax with a stranded copper conductor • PVC jacket	Data communications
9259	RG59/U coax with a stranded copper conductor • PVC jacket	Video, CCTV
9244	RG59/U coax with a solid copper conductor • PVC jacket	Video, CCTV
9512	2 pr / 22 AWG stranded tin/copper • PVC insulation • overall foil shield • PVC jacket • 300V, 105° C	Instrumentation
9514	4 pr / 22 AWG stranded tin/copper • PVC insulation • overall foil shield • PVC jacket • 300V, 105° C	Instrumentation
1PR#18ATEW-TW	1 twisted pr / 18 AWG stranded copper • unjacketed • orange/black • 600V, 105° C	Power
1PR#18SHDJK	1 shielded twisted pr / 18 AWG stranded copper • PVC jacket • 600V, 60° C	Data communications
W#UL-2464	2 shielded twisted pr / 18 AWG stranded copper • PVC jacket • individual foil shield • 300V, 80° C	Data communications
9369	3 shielded twisted pr / 18 AWG stranded copper • PVC jacket • individual foil shield • 300V, 105° C NOTE: Sold on 1000' reels	Data communications
9830	3 pr / 24 AWG stranded tin/copper • PVC insulation • foil and braid shields • PVC jacket • 30V, 80° C NOTE: Sold on 1000' reels	Data communications
1PR#12TW	1 twisted pr / 12 AWG stranded copper unjacketed • red/black • 600V, 105° C	Power
3105A	1 pr / 22 AWG stranded tin copper • overall foil shield • PVC jacket • 300V, 60° C	RS-485 applications
5508	4 PR/ 24 AWG stranded tin copper • unshielded • grey PVC jacket • 75° C • Sold on 1000' Reels	Category 5e

### Selector cable for 'pie-plate' type selectors

Part Number	Description
686-0010-22A	10 / 22 AWG (16x34 AWG) stranded copper rubber insulation with cotton/rayon braid overlay • jute core • black braided cotton jacket

### Instrumentation cable PVC insulation, 300V, NEC/CSA

Part Number	Conductors/Wire Size	Put-up
IC-18-2	2/18 AWG, stranded tinned copper conductors	1000'
IC-18-4	4/18 AWG, stranded tinned copper conductors	1000'
IC-18-5	5/18 AWG, stranded tinned copper conductors	1000'
IC-18-7	7/18 AWG, stranded tinned copper conductors	1000'
IC-18-9	9/18 AWG, stranded tinned copper conductors	1000'
IC-18-12	12/18 AWG, stranded tinned copper conductors	1000'

NOTE: 1000' minimum order required

### Thermostat cable PVC insulation, 150V, CL2

Part Number	Conductors/Wire Size	Put-up
TC-18-2	2/18 AWG, solid copper conductors	500'
TC-18-4	4/18 AWG, solid copper conductors	250'
TC-18-5	5/18 AWG, solid copper conductors	250'
TC-18-7	7/18 AWG, solid copper conductors	250'
TC-18-9	9/18 AWG, solid copper conductors	250'
TC-18-12	12/18 AWG, solid copper conductors	250'

NOTE: 1000' minimum order required

Wire products

# Specialty Services and Kits

## Connectorization

Draka Elevator Products' Connectorization Services can result in a faster, lower cost installation. Per your specifications, hoistway cables, traveling cables and wiring harnesses can be fitted with modular connectors that simply snap into place in the field.

Connectorization ensures that cables and harnesses are quickly, easily and accurately installed. Color-coded connectors assure positive circuit identification. All connectorized cable products are 100% post-fabrication tested for total customer satisfaction.

To order, call Draka Elevator Products Customer Service to get fax or mailing instructions. For best results, send an engineering drawing of the connectorized cable/harness and/or a sample of the harness. You will be given a quote and a lead-time, followed with a finished sample (upon request) for your inspection.



## Stripping service 1 1/2 and 3 1/2 links exposed

Part Number	Description
<b>WFSTRIP1.5L</b>	Cable with 1-1/2 links stripped at one end
<b>WFSTRIP3L</b>	Cable with 3-1/2 links stripped at one end

Stripping (cable end preparation) of compensating cable means the removal of the PVC-steel composite from the chain core to ease installation in the field. Draka Elevator Products will free the required number of links at one end of cable leaving the other end "unprepped" for length adjustments.

Draka can translate its years of experience into faster, safer installation of compensating cable at the job site.

To order a stripped cable, ask for WFSTRIP for your lengths of compensating cable. Should an installation require the stripping of more links, please contact Draka Elevator Products' Customer Service and ask for Applications Engineering.

WFSTRIP1.5L

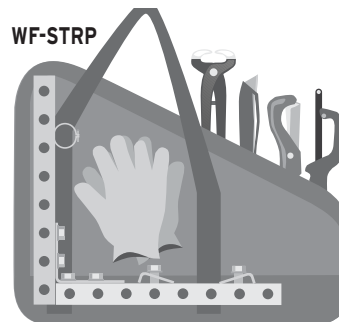


WFSTRIP3L



## Whisper-Flex and Steadi-Flex strip kit

Part Number	Description
<b>WF-STRP</b>	<b>Strip kit</b> with instructions, angle mounting bracket (already assembled), clamps, nippers, utility knife, cable jacket cutter, hacksaw and gloves for use in preparing the end of all Draka compensating cables. Carrying case included. Other tools required but not included are 3/4" wrench and flathead screwdriver



Services/kits

# Specialty Services and Kits

## HOSS Systems and PIT-KIT

### BIG-HOSS™ Hoistway Obstruction Shield System

Part Number	Description
<b>BIG-HOSS</b>	Hardware Cloth Base Mounting Kit (100 feet • 30.48 m length)
<b>BIG-HOSS-75</b>	Hardware Cloth Base Mounting Kit (75 feet • 22.86 m length)
<b>BIG-HOSS-150</b>	Hardware Cloth Base Mounting Kit (150 feet • 45.72 m length)

The Hoistway Obstruction Shield Systems are used to prevent round and flat elevator traveling cable from repetitively striking obstructions in the hoistway and from crossing over into adjoining hoistways. Their use may help avoid possible interference and extend the life span of the installed elevator cables.

The BIG HOSS kit includes 100 ft • 30.48 m of the 1.5 ft • .46 m wide shielding material (1/2 inch • 13 mm mesh hardware cloth) and all the mounting hardware needed to attach the shield within the hoistway. All components are shipped in a single bag.

### LIL-HOSS™ Hoistway Obstruction Shield System extensions

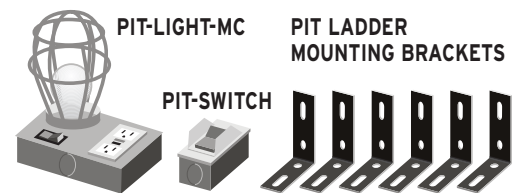
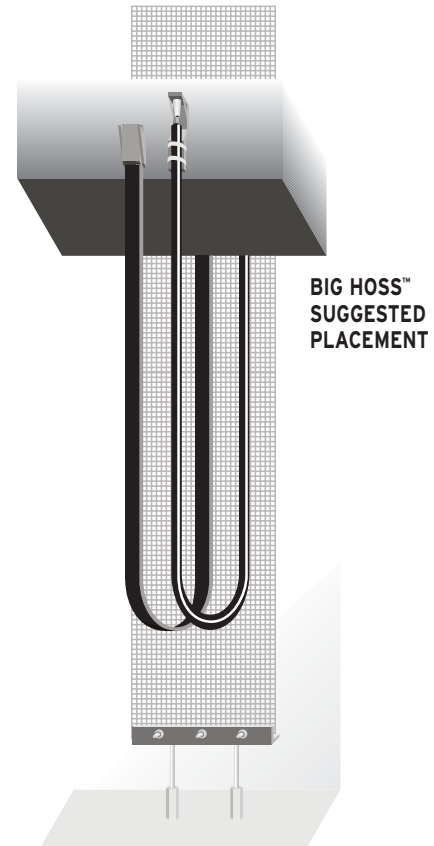
Part Number	Description
<b>LIL-HOSS</b>	Hardware Cloth Extension Mounting Kit (100 feet • 30.48 m length)
<b>LIL-HOSS-75</b>	Hardware Cloth Extension Mounting Kit (75 feet • 22.86 m length)
<b>LIL-HOSS-150</b>	Hardware Cloth Extension Mounting Kit (150 feet • 45.72 m length)

The LIL HOSS kit includes an additional 100 ft • 30.48 m of the shielding material and all the mounting hardware needed to attach the shield to the top of the BIG HOSS system and walls of the hoistway. Like the BIG HOSS, all LIL HOSS components are shipped in a single bag.

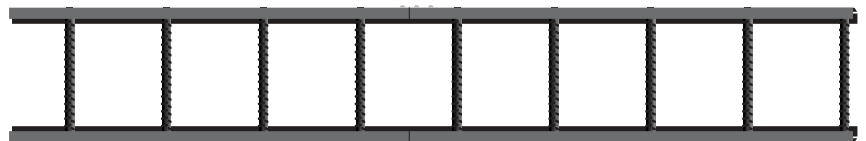
### PIT-KIT and pit accessories

Part Number	Description
<b>PIT-KIT</b>	PIT-KIT, including all-steel, 16" wide round-rung ladder extending to 9 feet (PIT-LDR-16RR), wall-mounted safety light with GFCI outlet (PIT-LIGHT-MC) and toggle stop switch (PIT-SWITCH). Electrical components are US/Canadian 110V. PIT-KIT complies with ASME A17.1-2004 Section 2.2 for pit equipment.
<b>PIT-KIT-12</b>	PIT-KIT, as above but with 12" wide round-rung ladder (PIT-LDR-12RR)
<b>PIT-LDR-16RR</b>	Pit ladder, 9' tall with 16" anti-skid round rungs
<b>PIT-LDR-16RR2X</b>	Pit ladder extension, 2' tall with 16" anti-skid round rungs
<b>PIT-LDR-12RR</b>	Pit ladder, 9' tall with 12" anti-skid round rungs
<b>PIT-LDR-12RR2X</b>	Pit ladder extension, 2' tall with 12" anti-skid round rungs
<b>PIT-LIGHT-MC</b>	Pit light, with metal cage, safety guard, GFCI outlet and switch
<b>PIT-SWITCH</b>	Pit toggle stop switch
<b>EN418-A</b>	Pit locking stop switch, with push-pull action, UL listed, CSA certified

All PIT ladders include reversible ladder mounting brackets that permit the ladder to be mounted either 4-1/2" or 7" from the wall.



PIT-LDR-16RR



EN418-A



# Specialty Services and Kits

## Top of Car

### BIG-TOC and LIL-TOC Top Of Car safety rails (conforms to A17.1)

Part Number	Extension Part Number	Toe-board Part Number	Description	Opening	Size Range (min > max)		Weight lbs • kg
					Width (in • m)	Length (in • m)	
100-01		100-01TB	LIL-TOC	front	57 > 82 • 1.45 > 2.08	57 > 82 • 1.45 > 2.08	148 • 67.2
100-03		100-03TB	BIG-TOC 60	front	69 > 118 • 1.75 > 3.00	69 > 118 • 1.75 > 3.00	184 • 83.6
100-05		100-05TB	BIG-TOC 72	front	69 > 118 • 1.75 > 3.00	81 > 130 • 2.06 > 3.30	192 • 87.3
100-01	100-20		LIL-TOC w/ two-sided extension kit	front	57 > 82 • 1.45 > 2.08	99 > 123 • 2.51 > 3.12	183 • 83.2
100-03	100-20		BIG-TOC 60 w/ two-sided extension kit	front	69 > 118 • 1.75 > 3.00	123 > 159 • 3.12 > 4.04	219 • 99.5
100-05	100-20		BIG-TOC 72 w/ two-sided extension kit	front	69 > 118 • 1.75 > 3.00	135 > 171 • 3.43 > 4.34	227 • 103.2
100-01	100-19		LIL-TOC w/ three-sided extension kit	front	99 > 123 • 2.51 > 3.12	99 > 123 • 2.51 > 3.12	200 • 90.9
100-03	100-19		BIG-TOC 60 w/ three-sided extension kit	front	123 > 159 • 3.12 > 4.04	123 > 159 • 3.12 > 4.04	236 • 107.3
100-05	100-19		BIG-TOC 72 w/ three-sided extension kit	front	123 > 159 • 3.12 > 4.04	135 > 171 • 3.43 > 4.34	244 • 110.9
100-13		100-13TB	LIL-TOC	front	45 > 70 • 1.14 > 1.78	69 > 106 • 1.75 > 2.69	158 • 71.8
100-15		100-15TB	LIL-TOC	front	57 > 82 • 1.45 > 2.08	69 > 106 • 1.75 > 2.69	162 • 73.6
100-17		100-17TB	LIL-TOC	front	57 > 82 • 1.45 > 2.08	45 > 70 • 1.14 > 1.78	141 • 64.1
100-13	100-20		LIL-TOC w/ two-sided extension kit	front	45 > 70 • 1.14 > 1.78	123 > 147 • 3.12 > 3.73	193 • 87.7
100-15	100-20		LIL-TOC w/ two-sided extension kit	front	57 > 82 • 1.45 > 2.08	123 > 147 • 3.12 > 3.73	197 • 89.5
100-17	100-20		LIL-TOC w/ two-sided extension kit	front	57 > 82 • 1.45 > 2.08	99 > 111 • 2.51 > 2.89	176 • 80.0
100-13	100-19		LIL-TOC w/ three-sided extension kit	front	99 > 111 • 2.51 > 2.89	123 > 147 • 3.12 > 3.73	210 • 95.5
100-15	100-19		LIL-TOC w/ three-sided extension kit	front	99 > 123 • 2.51 > 3.12	123 > 147 • 3.12 > 3.73	214 • 97.3
100-17	100-19		LIL-TOC w/ three-sided extension kit	front	99 > 123 • 2.51 > 3.12	99 > 111 • 2.51 > 2.89	193 • 87.7
100-07		100-07TB	LIL-TOC F&R	front and rear	n/a	57 > 82 • 1.45 > 2.08	116 • 52.7
100-09		100-09TB	BIG-TOC 60 F&R	front and rear	n/a	69 > 118 • 1.75 > 3.00	142 • 64.5
100-11		100-11TB	BIG-TOC 72 F&R	front and rear	n/a	81 > 130 • 2.06 > 3.30	149 • 67.7
100-07	100-20		LIL-TOC F&R w/ two-sided extension kit	front and rear	n/a	99 > 123 • 2.51 > 3.12	151 • 68.6
100-09	100-20		BIG-TOC 60 F&R w/ two-sided extension kit	front and rear	n/a	123 > 159 • 3.12 > 4.04	177 • 80.5
100-11	100-20		BIG-TOC 72 F&R w/ two-sided extension kit	front and rear	n/a	135 > 171 • 3.43 > 4.34	184 • 83.6

Services/kits

BIG-TOC and LIL-TOC (Top Of Car) safety rail kits install on top of freight and passenger traction elevators to create a safer and more secure car-top environment for both people and their tools. These permanent guardrail kits are easy to install and quickly adjust to the required size.

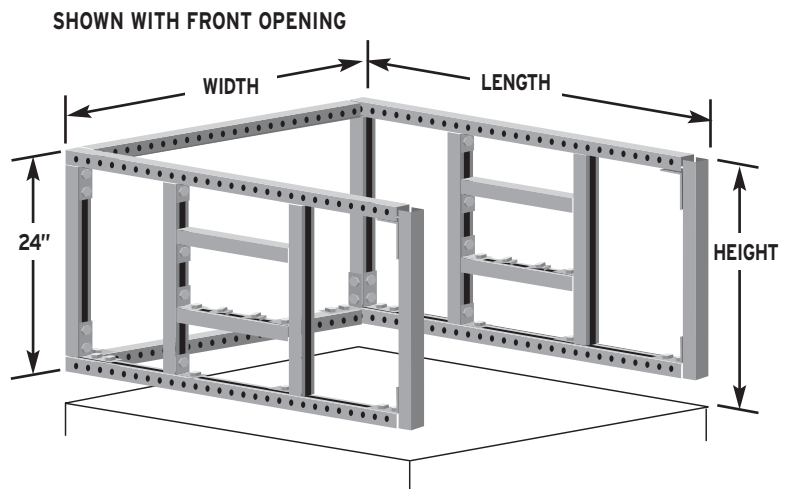
They are adaptable to both front-opening and front-and-rear opening car types. All rails, bolts, nuts and hardware are included. The major siderail components come pre-assembled. Installation generally takes under an hour. An optional toe board serves as an added measure to prevent the loss of tools and other important items.

Determining width and length requirements for your TOC Handrail Kit:

**Width** - The distance between the roller guide plates determines width, because the TOC side rails mount inside the roller guide plates.

**Length** - Measure the inside car length.

**Height** - Height is adjustable and is measured from the top of the car to the top handrail of the installed TOC handrail kit.



# Wireway

to meet UL/CSA and elevator industry standards (by Draka EP)



## Galvanized steel trough, cover, screws and edging

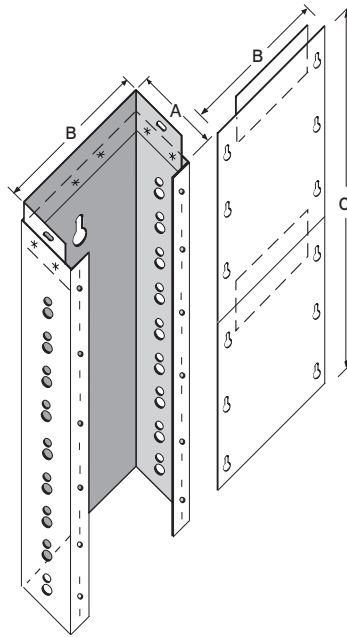
Part Number	Dimension A inches	Dimension B inches	Dimension C inches
UGTR 2525120CSA	2-1/2	2-1/2	120
UGTR 254120CSA*	2-1/2	4	120
UGTR 256120CSA	2-1/2	6	120
UGTR 258120CSA	2-1/2	8	120
UGTR 44120CSA	4	4	120
UGTR 46120CSA	4	6	120
UGTR 48120CSA	4	8	120
UGTR 66120CSA	6	6	120
UGTR 88120CSA	8	8	120
UGTR 2510120CSA**	2-1/2	10	120
UGTR 2512120CSA**	2-1/2	12	120
UGTR 2514120CSA**	2-1/2	14	120
UGTR 410120CSA**	4	10	120
UGTR 412120CSA**	4	12	120
UGTR 414120CSA**	4	14	120

\*UGTR 254120CSA has 1/2", 3/4" and 1" knockouts every 12 inches.

\*\*Not stocked - available with short lead times.

Special size trough and trough without knockouts are available with short lead times.

Call Draka EP at 1-877-372-5237 for further information.



### Component Specifications

**Tolerances**  
Inside Dimensions (I.D.)  
- 0 to + 1/16 inch

Joints, corners and adjoining edges to  
+ 1/32 inch

Screw & hole placement to  
+ 1/32 inch

**Materials**  
Hot-dipped, mill-galvanized 16 gauge sheet metal to UL 870 & CSA C22.2 No. 26

**General Construction**  
Uniform slots  
3/4 by 1/4 inch

Standard connector slots

1/2 and 3/4 inch knockouts every 12 inches

**Included Hardware**  
Two five-foot covers #10, 5/16 hexhead screws & screw protection

Six point spot-welded coupling on one end

## Covers, cover screws and plastic U-channel

Part Number	Description	Dimension B inches	Dimension C inches
C U25	Cover	2-1/2	60
C U44	Cover	4	60
C U66	Cover	6	60
C U88	Cover	8	60
59-020	Cover screws, #10-32 x 1/2", packaged singly		
19-003	Plastic U-channel, available in 100' rolls		

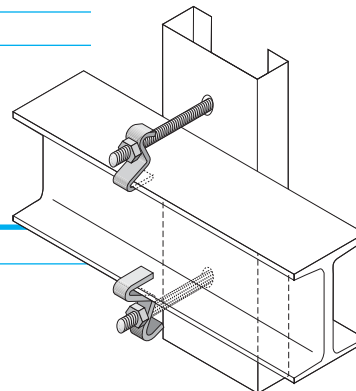
## Wireway nuts & bolts

Part Number	Size inches	Standard Packaging
26-006A	1/4 x 1/2 nut & bolt	25
26-006B	1/4 x 1/2 nut & bolt	50
26-006C	1/4 x 1/2 nut & bolt	100

## Trough mounting bracket kit

Used to attach trough to steel I-beams

Part Number	Description	Quantity
TR-MTG-KIT	Bracket, includes 5" mounting bolt, nut and two washers,	1



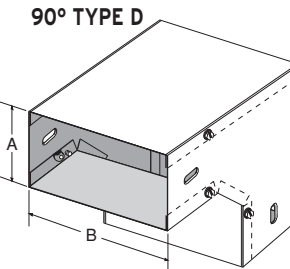
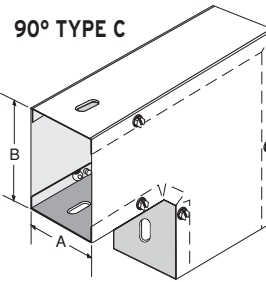
# Wireway Fittings

for galvanized steel trough to meet UL/CSA (by Draka EP)



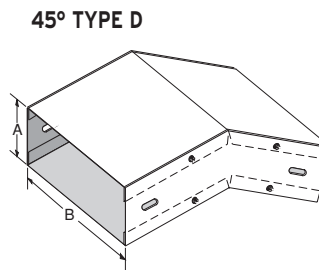
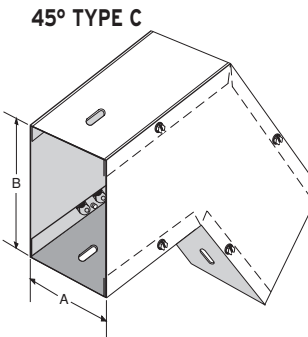
## 90° elbows/Type C and D

Part Number Type C	Part Number Type D	Dimension A inches	Dimension B inches	For use with Trough P/N
UL90 2525CSA	-	2-1/2	2-1/2	UGTR 2525120CSA
UL90 254CSA	UL90 425CSA	2-1/2	4	UGTR 254120CSA
UL90 256CSA	UL90 625CSA	2-1/2	6	UGTR 256120CSA
UL90 258CSA	UL90 825CSA	2-1/2	8	UGTR 258120CSA
UL90 44CSA	-	4	4	UGTR 44120CSA
UL90 46CSA	UL90 64CSA	4	6	UGTR 46120CSA
UL90 48CSA	UL90 84CSA	4	8	UGTR 48120CSA
UL90 66CSA	-	6	6	UGTR 66120CSA
UL90 88CSA	-	8	8	UGTR 88120CSA
UL90 2510CSA*	UL90 1025CSA*	2-1/2	10	UGTR 2510120CSA
UL90 2512CSA*	UL90 1225CSA*	2-1/2	12	UGTR 2512120CSA
UL90 2514CSA*	UL90 1425CSA*	2-1/2	14	UGTR 2514120CSA
UL90 410CSA*	UL90 104CSA*	4	10	UGTR 410120CSA
UL90 412CSA*	UL90 124CSA*	4	12	UGTR 412120CSA
UL90 414CSA*	UL90 144CSA*	4	14	UGTR 414120CSA



## 45° elbows/Type C and D

Part Number Type C	Part Number Type D	Dimension A inches	Dimension B inches	For use with Trough P/N
UL45 2525CSA	-	2-1/2	2-1/2	UGTR 2525120CSA
UL45 254CSA	UL45 425CSA	2-1/2	4	UGTR 254120CSA
UL45 256CSA	UL45 625CSA	2-1/2	6	UGTR 256120CSA
UL45 258CSA	UL45 825CSA	2-1/2	8	UGTR 258120CSA
UL45 44CSA	-	4	4	UGTR 44120CSA
UL45 46CSA	UL45 64CSA	4	6	UGTR 46120CSA
UL45 48CSA	UL45 84CSA	4	8	UGTR 48120CSA
UL45 66CSA	-	6	6	UGTR 66120CSA
UL45 88CSA	-	8	8	UGTR 88120CSA
UL45 2510CSA*	UL45 1025CSA*	2-1/2	10	UGTR 2510120CSA
UL45 2512CSA*	UL45 1225CSA*	2-1/2	12	UGTR 2512120CSA
UL45 2514CSA*	UL45 1425CSA*	2-1/2	14	UGTR 2514120CSA
UL45 410CSA*	UL45 104CSA*	4	10	UGTR 410120CSA
UL45 412CSA*	UL45 124CSA*	4	12	UGTR 412120CSA
UL45 414CSA*	UL45 144CSA*	4	14	UGTR 414120CSA



### Component Specifications

#### Tolerances

Inside Dimensions (I.D.)  
- 0 to + 1/16 inch

Joints, corners and adjoining edges to  
+ 1/32 inch

Screw & hole placement to  
+ 1/32 inch

#### Materials

Hot-dipped, mill-galvanized 16 gauge sheet metal to UL 870 & CSA C22.2 No. 26

#### General Construction

Uniform slots  
3/4 by 1/4 inch

Standard connector slots

#10, 5/16 hexhead screws on side panels

Screw protection provided

\*Not stocked - available with short lead times.

Special size fittings are available with short lead times.

Call Draka EP at 1-877-372-5237 for further information.

Wireway



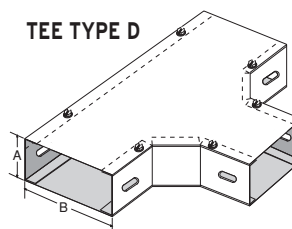
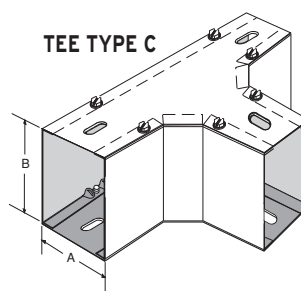


# Wireway Fittings

for galvanized steel trough to meet **UL/CSA** (by Draka EP)

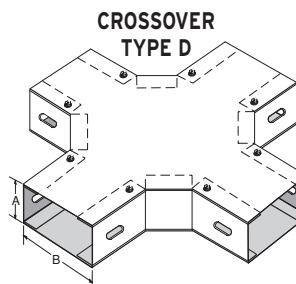
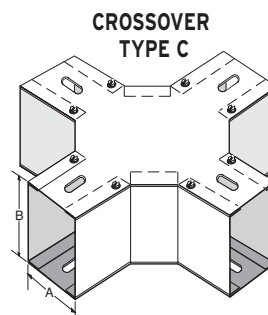
## Tees/Type C and D

Part Number Type C	Part Number Type D	Dimension A inches	Dimension B inches	For use with Trough P/N
UTEE 2525CSA	-	2-1/2	2-1/2	UGTR 2525120CSA
UTEE 254CSA	UTEE 425CSA	2-1/2	4	UGTR 254120CSA
UTEE 256CSA	UTEE 625CSA	2-1/2	6	UGTR 256120CSA
UTEE 258CSA	UTEE 825CSA	2-1/2	8	UGTR 258120CSA
UTEE 44CSA	-	4	4	UGTR 44120CSA
UTEE 46CSA	UTEE 64CSA	4	6	UGTR 46120CSA
UTEE 48CSA	UTEE 84CSA	4	8	UGTR 48120CSA
UTEE 66CSA	-	6	6	UGTR 66120CSA
UTEE 88CSA	-	8	8	UGTR 88120CSA
UTEE 2510CSA*	UTEE 1025CSA*	2-1/2	10	UGTR 2510120CSA
UTEE 2512CSA*	UTEE 1225CSA*	2-1/2	12	UGTR 2512120CSA
UTEE 2514CSA*	UTEE 1425CSA*	2-1/2	14	UGTR 2514120CSA
UTEE 410CSA*	UTEE 104CSA*	4	10	UGTR 410120CSA
UTEE 412CSA*	UTEE 124CSA*	4	12	UGTR 412120CSA
UTEE 414CSA*	UTEE 144CSA*	4	14	UGTR 414120CSA



## Crossovers/Type C and D

Part Number Type C	Part Number Type D	Dimension A inches	Dimension B inches	For use with Trough P/N
UCRS 2525CSA	-	2-1/2	2-1/2	UGTR 2525120CSA
UCRS 254CSA	UCRS 425CSA	2-1/2	4	UGTR 254120CSA
UCRS 256CSA	UCRS 625CSA	2-1/2	6	UGTR 256120CSA
UCRS 258CSA	UCRS 825CSA	2-1/2	8	UGTR 258120CSA
UCRS 44CSA	-	4	4	UGTR 44120CSA
UCRS 46CSA	UCRS 64CSA	4	6	UGTR 46120CSA
UCRS 48CSA	UCRS 84CSA	4	8	UGTR 48120CSA
UCRS 66CSA	-	6	6	UGTR 66120CSA
UCRS 88CSA	-	8	8	UGTR 88120CSA
UCRS 2510CSA*	UCRS 1025CSA*	2-1/2	10	UGTR 2510120CSA
UCRS 2512CSA*	UCRS 1225CSA*	2-1/2	12	UGTR 2512120CSA
UCRS 2514CSA*	UCRS 1425CSA*	2-1/2	14	UGTR 2514120CSA
UCRS 410CSA*	UCRS 104CSA*	4	10	UGTR 410120CSA
UCRS 412CSA*	UCRS 124CSA*	4	12	UGTR 412120CSA
UCRS 414CSA*	UCRS 144CSA*	4	14	UGTR 414120CSA



\*Not stocked - available with short lead times.

Special size fittings are available with short lead times.

Call Draka EP at 1-877-372-5237 for further information.

### Component Specifications

**Tolerances**  
Inside Dimensions (I.D.)  
- 0 to + 1/16 inch

Joints, corners and adjoining edges to  
+ 1/32 inch

Screw & hole placement to  
+ 1/32 inch

**Materials**  
Hot-dipped, mill-galvanized 16 gauge sheet metal to UL 870 & CSA C22.2 No. 26

**General Construction**  
Uniform slots  
3/4 by 1/4 inch

Standard connector slots

#10, 5/16 hexhead screws on side panels

Screw protection provided

# Wireway Fittings

for galvanized steel trough to meet UL/CSA (by Draka EP)



## Couplings, panel connectors, end plates, insulated bushings

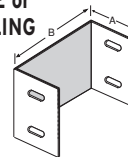
Part Number Coupling	Part Number Panel Connector	Part Number End Plate	Part Number Bushing	Dimension A in • cm	Dimension B in • cm
UCON 2525CSA	UPCN 2525CSA	UEPT 2525CSA	UISB 2525CSA	2-1/8	2-7/16
UCON 254CSA	UPCN 254CSA	UEPT 254CSA	UISB 254CSA	2-1/8	3-15/16
UCON 256CSA	UPCN 256CSA	UEPT 256CSA	UISB 256CSA	2-1/8	5-15/16
UCON 258CSA	UPCN 258CSA	UEPT 258CSA	UISB 258CSA	2-1/8	7-15/16
UCON 44CSA	UPCN 44CSA	UEPT 44CSA	UISB 44CSA	3-5/8	3-15/16
UCON 46CSA	UPCN 46CSA	UEPT 46CSA	UISB 46CSA	3-5/8	5-15/16
UCON 48CSA	UPCN 48CSA	UEPT 48CSA	UISB 48CSA	3-5/8	7-15/16
UCON 66CSA	UPCN 66CSA	UEPT 66CSA	UISB 66CSA	5-5/8	5-15/16
UCON 88CSA	UPCN 88CSA	UEPT 88CSA	UISB 88CSA	7-5/8	7-15/16
UCON 2510CSA*	UPCN 2510CSA*	UEPT 2510CSA*	UISB 2510CSA*	2-1/8	9-15/16
UCON 2512CSA*	UPCN 2512CSA*	UEPT 2512CSA*	UISB 2512CSA*	2-1/8	11-15/16
UCON 2514CSA*	UPCN 2514CSA*	UEPT 2514CSA*	UISB 2514CSA*	2-1/8	13-15/16
UCON 410CSA*	UPCN 410CSA*	UEPT 410CSA*	UISB 410CSA*	3-5/8	9-15/16
UCON 412CSA*	UPCN 412CSA*	UEPT 412CSA*	UISB 412CSA*	3-5/8	11-15/16
UCON 414CSA*	UPCN 414CSA*	UEPT 414CSA*	UISB 414CSA*	3-5/8	13-15/16

\*Not stocked - available with short lead times.

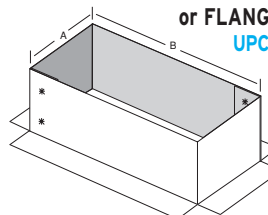
Special size fittings are available with short lead times.

Call Draka EP at 1-877-372-5237 for further information.

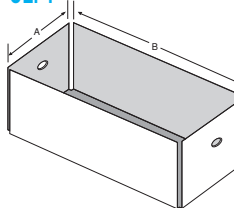
**SPLICE or COUPLING**  
UCON



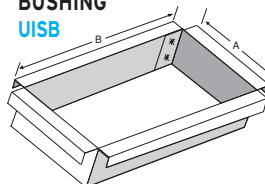
**PANEL CONNECTOR or FLANGE**  
UPCN



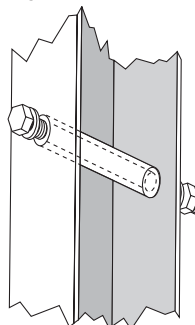
**END PLATE**  
UEPT



**INSULATED BUSHING**  
UISB



**STRAIN BAR**



### Component Specifications

#### Tolerances

Inside Dimensions (I.D.)  
- 0 to + 1/16 inch

Joints, corners and adjoining edges to + 1/32 inch

Screw & hole placement to + 1/32 inch

#### Materials

Hot-dipped, mill-galvanized 16 gauge sheet metal to UL 870 & CSA C22.2 No. 26

#### General Construction

Uniform slots  
3/4 by 1/4 inch

Standard connector slots  
#10, 5/16 hexhead screws on side panels

Screw protection provided on UCON parts



NEC Compliant

### Component Specifications

#### General Construction

1/2 inch bolt comes complete with nut and two (2) washers

## Strain bars

Part Number	For trough width inches
STB 25	2.5
STB 4	4
STB 6	6
STB 8	8
STB 10	10
STB 12	12
STB 14	14

NOTE: The NEC requires that strain bars be used to support wire every 100' in trough.



# Wireway Fittings

for galvanized steel trough to meet UL/CSA (by Draka EP)

## Reducers

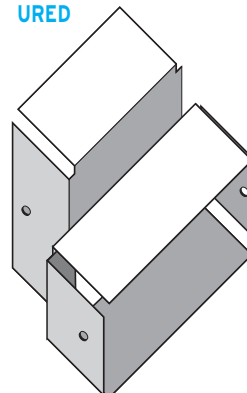
Part Number	Adapts from this size... inches	to this size inches
<a href="#">URED 2542525CSA</a>	2-1/2 x 4	2-1/2 x 2-1/2
<a href="#">URED 254256CSA</a>	2-1/2 x 4	2-1/2 x 6
<a href="#">URED 25666CSA</a>	2-1/2 x 6	6 x 6
<a href="#">URED 25888CSA</a>	2-1/2 x 8	8 x 8
<a href="#">URED 442525CSA</a>	4 x 4	2-1/2 x 2-1/2
<a href="#">URED 44254CSA</a>	4 x 4	2-1/2 x 4
<a href="#">URED 44256CSA</a>	4 x 4	2-1/2 x 6
<a href="#">URED 4446CSA</a>	4 x 4	4 x 6
<a href="#">URED 4448CSA</a>	4 x 4	4 x 8
<a href="#">URED 46254CSA</a>	4 x 6	2-1/2 x 4
<a href="#">URED 48254CSA</a>	4 x 8	2-1/2 x 4
<a href="#">URED 6644CSA</a>	6 x 6	4 x 4
<a href="#">URED 6664CSA</a>	6 x 6	6 x 4
<a href="#">URED 8844CSA</a>	8 x 8	4 x 4
<a href="#">URED 25844CSA*</a>	2-1/2 x 8	4 x 4
<a href="#">URED 48256CSA*</a>	4 x 8	2-1/2 x 6
<a href="#">URED 8848CSA*</a>	8 x 8	4 x 8
<a href="#">URED 8866CSA*</a>	8 x 8	6 x 6

\*Not stocked - available with short lead times.

Special size reducers are available with short lead times.

Call Draka EP at 1-877-372-5237 for further information.

REDUCER  
URED



### Component Specifications

**Tolerances**  
Inside Dimensions (I.D.)  
- 0 to + 1/16 inch

Joints, corners and adjoining edges to  
+ 1/32 inch

Screw & hole placement to  
+ 1/32 inch

**Materials**  
Hot-dipped, mill-galvanized 16 gauge sheet metal to UL 870 & CSA C22.2 No. 26

**General Construction**  
Uniform slots  
3/4 by 1/4 inch

Standard connector slots

#10, 5/16 hexhead screws on side panels

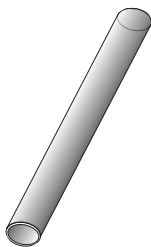
# Electrical Metallic Tubing (EMT)

## Tubing, fittings and accessories



### Tubing (lightweight, thin wall, UL listed)

Part Number	Diameter inches	Standard Packaging*
01-001	1/2	10' sections
01-002	3/4	10' sections
01-003	1	10' sections
01-004	1-1/4	10' sections
01-005	1-1/2	10' sections
01-006	2	10' sections
01-007	2-1/2	10' sections



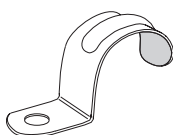
### 90° elbows (UL listed/CSA certified)

Part Number	Diameter inches	Standard Packaging*
02-005	1/2	50
02-006	3/4	50
02-001	1	25
02-002	1-1/4	20
02-003	1-1/2	20
02-004	2	10
02-010	2-1/2	1



### One-hole straps (CSA certified as noted<sup>†</sup>)

Part Number	Diameter inches	Standard Packaging*
05-000	3/8	100 <sup>†</sup>
05-001	1/2	100
05-002	3/4	100
05-003	1	50
05-004	1-1/4	50
05-005	1-1/2	25
05-006	2	20
05-014	2-1/2	10



<sup>†</sup>Not CSA certified

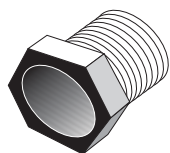
### Hangers with bolts (UL listed/CSA certified)

Part Number	Diameter inches	Standard Packaging*
78-053	1/2	100
78-078	3/4	100
78-054	1	100
78-080	1-1/4	100
78-055	1-1/2	100
78-079	2	50



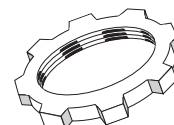
### Chase nipples (UL listed/CSA certified)

Part Number	Diameter inches	Standard Packaging*
06-001	1/2	100
06-002	3/4	50
06-005	1	25
06-009	1-1/4	25
06-010	1-1/2	25
06-003	2	10
06-011	2-1/2	10



### Steel lock nuts (UL listed/CSA certified)

Part Number	Diameter inches	Standard Packaging*
07-001	1/2	100
07-002	3/4	100
07-005	1	100
07-006	1-1/4	50
07-004	1-1/2	50
07-003	2	50
07-007	2-1/2	25



### Threaded plastic insulated bushings (UL listed/CSA certified)

Part Number	Diameter inches	Standard Packaging*
27-006	1/2	100
27-007	3/4	100
27-005	1	50
27-002	1-1/4	25
27-003	1-1/2	25
27-004	2	10
27-022	2-1/2	10



\*All items may be purchased individually.  
All diameters are trade sizes.

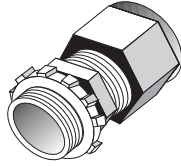
# Electrical Metallic Tubing (EMT)

Connectors and couplings (UL listed/CSA certified)



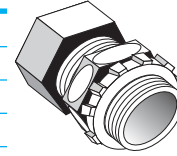
## Die-cast compression connectors

Part Number	Diameter inches	Standard Packaging*
08-001	1/2	50
08-002	3/4	25
08-003	1	20
08-004	1-1/4	10
08-005	1-1/2	10
08-006	2	10
08-007	2-1/2	12



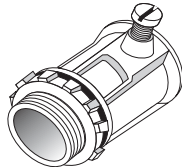
## Steel compression connectors

Part Number	Diameter inches	Standard Packaging*
69-004	1/2	25
69-005	3/4	25
69-006	1	20
69-007	1-1/4	5
69-008	1-1/2	20
69-009	2	10



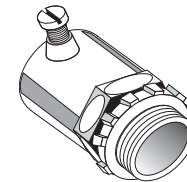
## Die-cast set screw connectors

Part Number	Diameter inches	Standard Packaging*
08-021	1/2	50
08-022	3/4	25
08-023	1	25
08-024	1-1/4	10
08-025	1-1/2	10
08-026	2	10
08-027	2-1/2	12



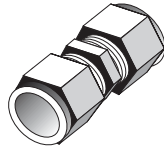
## Steel set screw connectors

Part Number	Diameter inches	Standard Packaging*
69-010	1/2	50
69-011	3/4	25
69-012	1	25
69-013	1-1/4	10
69-014	1-1/2	10
69-015	2	5



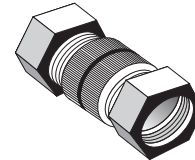
## Die-cast compression couplings

Part Number	Diameter inches	Standard Packaging*
09-001	1/2	50
09-002	3/4	25
09-003	1	10
09-004	1-1/4	10
09-005	1-1/2	10
09-006	2	10
09-013	2-1/2	12



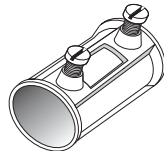
## Steel compression couplings

Part Number	Diameter inches	Standard Packaging*
69-016	1/2	25
69-017	3/4	20
69-018	1	10
69-019	1-1/4	5
69-020	1-1/2	5
69-021	2	2



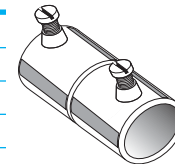
## Die-cast set screw couplings

Part Number	Diameter inches	Standard Packaging*
09-027	1/2	50
09-028	3/4	25
09-029	1	25
09-030	1-1/4	10
09-031	1-1/2	15
09-032	2	5
09-033	2-1/2	12



## Steel set screw couplings

Part Number	Diameter inches	Standard Packaging*
69-022	1/2	50
69-023	3/4	25
69-024	1	20
69-025	1-1/4	10
69-026	1-1/2	20
69-027	2	20

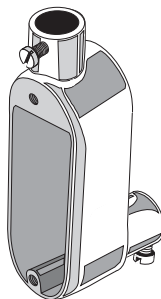


\*All items may be purchased individually.  
All diameters are trade sizes.

## Type LB/set screw (cover separate/see below)

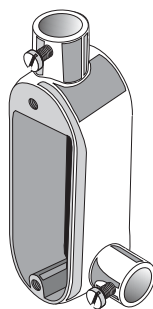
Part Number	Size inches	Standard Packaging*
30-011	1/2	10
30-012	3/4	10
30-013	1	5
30-014	1-1/4	2
30-015	1-1/2	2
30-021	2	1
30-023†	2-1/2	1

†30-023 comes with cover



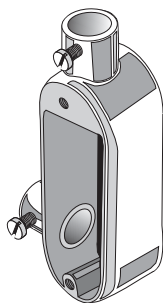
## Type LR/set screw (cover separate/see below)

Part Number	Size inches	Standard Packaging*
30-030	1/2	10
30-031	3/4	10
30-032	1	5
30-033	1-1/4	2
30-034	1-1/2	2
30-035	2	1



## Type LL/set screw (cover separate/see below)

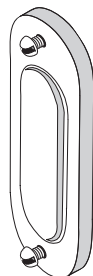
Part Number	Size inches	Standard Packaging*
30-040	1/2	10
30-041	3/4	10
30-042	1	5
30-043	1-1/4	2
30-044	1-1/2	2
30-045	2	1



## Covers for access fittings

Part Number	Fits Size inches	Standard Packaging*
30-017	1/2	50
30-018	3/4	50
30-019	1	50
30-020	1-1/4 to 1-1/2	50
30-022	2	25

\*All items may be purchased individually.



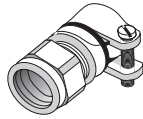
# EMT-to-Flex and Flex Fittings



## Combination couplings (UL listed/CSA certified)

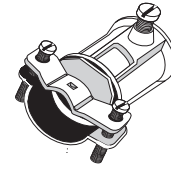
### Compression-type/malleable iron

Part Number	Diameter inches	Standard Packaging*
<a href="#">69-049</a>	1/2 EMT to 3/8 flex	25
<a href="#">69-048</a>	1/2 EMT to 1/2 flex	20
<a href="#">69-050</a>	3/4 EMT to 3/4 flex	10
<a href="#">12-004</a>	1 EMT to 1 flex	10
<a href="#">12-006</a>	1-1/4 EMT to 1-1/4 flex	5
<a href="#">12-007</a>	1-1/2 EMT to 1-1/2 flex	5
<a href="#">12-005</a>	2 EMT to 2 flex	2



### Set screw-type/die-cast

Part Number	Diameter inches	Standard Packaging*
<a href="#">12-001</a>	1/2 EMT to 3/8 flex	50
<a href="#">12-002</a>	1/2 EMT to 1/2 flex	25
<a href="#">12-003</a>	3/4 EMT to 3/4 flex	25



\*All items may be purchased individually.  
All diameters are trade sizes.

## Screw-in flex and EMT/flex connectors and couplings (UL listed/CSA certified)

Part Number	Description
<a href="#">10-021</a>	Screw-in connector, for 1/2" flex
<a href="#">10-022</a>	Screw-in connector, for 3/4" flex
<a href="#">10-023</a>	Screw-in connector, for 1" flex
<a href="#">10-035</a>	Screw-in connector, for 1-1/4" flex
<a href="#">10-029</a>	Screw-in connector, for 1-1/2" flex
<a href="#">10-036</a>	Screw-in connector, for 2" flex
<a href="#">12-100</a>	Screw-in coupling, for 1/2" flex
<a href="#">12-101</a>	Screw-in coupling, for 1/2" flex
<a href="#">12-102</a>	Screw-in coupling, for 3/4" flex
<a href="#">11-045</a>	90° screw-in connector (‘Jake L’), for 1/2" flex
<a href="#">11-046</a>	90° screw-in connector (‘Jake L’), for 3/4" flex
<a href="#">11-064</a>	90° screw-in connector (‘Jake L’), for 1" flex
<a href="#">12-012</a>	Combination connector, for 1/2" EMT to flex
<a href="#">12-013</a>	Combination connector, for 3/4" EMT to flex

10-022



11-046



12-013



12-100



## Conduit benders (handle included)

Part Number	Description
<a href="#">36-002</a>	Conduit bender, for 1/2" EMT, 4" inside bending radius
<a href="#">36-001</a>	Conduit bender, for 3/4" EMT, 5" inside bending radius
<a href="#">36-000</a>	Conduit bender, for 1" EMT, 6" inside bending radius
<a href="#">36-214</a>	Conduit bender, for 1-1/4" EMT, 9" inside bending radius

Conduit benders have aluminum construction for easy handling. They have a precision-located degree scale, star, arrow and rim notch for perfect bends every time. Markings are raised and cast into bender body on both sides for easy visibility. Grooved internal hook surface helps prevent conduit from slipping. Flat hook surface provides stable starting point.

36-002



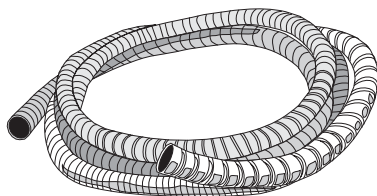
# Flexible Metal

## Flex conduit and fittings



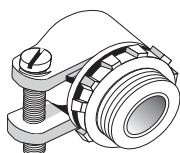
### Flexible steel conduit (UL listed, thin wall)

Part Number	Diameter inches	Standard Packaging*
03-001	3/8	2000' reel
03-002	1/2	1000' reel
03-003	3/4	500' reel
03-004	1	50' coil
03-005	1-1/4	50' coil
03-006	1-1/2	50' coil
03-007	2	25' coil



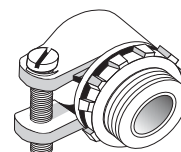
### Die-cast straight squeeze-type flex box connectors (UL listed/CSA certified)

Part Number	Diameter inches	Standard Packaging*
10-001	3/8	50
10-002	1/2	25
10-003	3/4	25
10-004	1	10
10-005	1-1/4	10
10-006	1-1/2	5
10-010	2	10



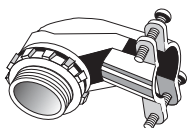
### Malleable iron straight squeeze-type flex box connectors (UL listed/CSA certified)

Part Number	Diameter inches	Standard Packaging*
69-035	3/8	50
69-036	1/2	50
69-037	3/4	25
69-038	1	25
69-039	1-1/4	25
69-040	1-1/2	5
69-041	2	10



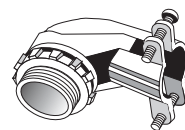
### Die-cast 90° squeeze-type flex box connectors (UL listed/CSA certified)

Part Number	Diameter inches	Standard Packaging*
11-001	3/8	50
11-002	1/2	25
11-003	3/4	10
11-004	1	5
11-005	1-1/4	10
11-006	1-1/2	5
11-008	2	5



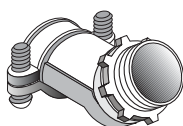
### Malleable iron 90° squeeze-type flex box connectors (UL listed/CSA certified)

Part Number	Diameter inches	Standard Packaging*
69-028	3/8	50
69-029	1/2	25
69-030	3/4	10
69-031	1	5
69-032	1-1/4	25
69-033	1-1/2	5



### Die-cast 45° squeeze-type flex box connectors (UL listed/CSA certified)

Part Number	Diameter inches	Standard Packaging*
11-034	3/8	25
11-035	1/2	10
11-036	3/4	50



### Flex conduit cutter

Part Number	Description
36-217	Flex conduit cutter, for 3/8, 1/2 and 5/8" flex conduit
36-218	Replacement blade, one



\*All items may be purchased individually. All diameters are trade sizes.

Wireway



# Fittings for Rigid Pipe

## Threaded fittings and couplings



### Threaded conduit bodies (UL listed/CSA certified)

Part Number	Description
30-052	LB access fitting, for 1/2" threaded, with cover & gasket
30-058	LB access fitting, for 3/4" threaded, with cover & gasket
30-053	LB access fitting, for 1" threaded, with cover & gasket
30-065	LB access fitting, for 1-1/4" threaded, with cover & gasket
30-066	LB access fitting, for 1-1/2" threaded, with cover & gasket
30-046	LB access fitting, for 2" EMT, with cover & gasket
30-051	LB access fitting, for 2-1/2" EMT, with cover & gasket
30-061	LR access fitting, for 1/2" threaded, with cover & gasket
30-049	LR access fitting, for 3/4" threaded, with cover & gasket
30-113	LR access fitting, for 1" threaded, with cover & gasket
30-084	LR access fitting, for 1-1/4" threaded, with cover & gasket
30-088	LR access fitting, for 1-1/2" threaded, with cover & gasket
30-080	LR access fitting, for 2" threaded, with cover & gasket
30-116	LR access fitting, for 2-1/2" threaded, with cover & gasket
30-056	LL access fitting, for 1/2" threaded, with cover & gasket
30-086	LL access fitting, for 3/4" threaded, with cover & gasket
30-114	LL access fitting, for 1" threaded, with cover & gasket
30-083	LL access fitting, for 1-1/4" threaded, with cover & gasket
30-087	LL access fitting, for 1-1/2" threaded, with cover & gasket
30-079	LL access fitting, for 2" threaded, with cover & gasket
30-054	LL access fitting, for 2-1/2" threaded, with cover & gasket
30-106	TEE access fitting, for 1/2" threaded, with cover & gasket
30-107	TEE access fitting, for 3/4" threaded, with cover & gasket
30-115	TEE access fitting, for 1" threaded, with cover & gasket
30-044	TEE access fitting, for 1-1/4" threaded, with cover & gasket
30-105	TEE access fitting, for 1-1/2" threaded, with & and gasket
30-108	TEE access fitting, for 2" threaded, with cover & gasket

30-052



30-061



### Couplings (UL listed)

Part Number	Description
09-041	Threaded coupling, fits 1/2"
09-042	Threaded coupling, fits 3/4"
09-052	Threaded coupling, fits 1"
09-045	Threaded coupling, fits 1-1/4"
09-046	Threaded coupling, fits 1-1/2"
09-043	Threaded coupling, fits 2"
09-044	Threaded coupling, fits 2-1/2"

NOTE: Other threaded items available with short lead times

09-052



# Boxes, Covers and Outlets

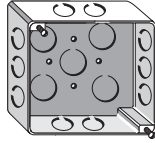
UL Listed  
CSA Certified  
as noted



## 4" square '1900' boxes

1-1/2" deep - type 52151 (UL listed)

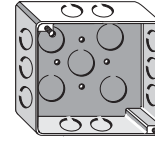
Part Number	Knockouts inches	Standard Packaging*
04-020	1/2	50
04-021	3/4	50
04-022	1/2 & 3/4	50



## 4" square '1900' boxes

2-1/8" deep - type 52171 (UL listed)

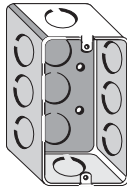
Part Number	Knockouts inches	Standard Packaging*
04-024	1/2 & 3/4	50
04-025	1	25



## 4"x 2-1/8" utility 'handy' boxes

1-7/8" deep - type 58361 (UL listed)

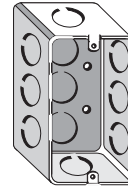
Part Number	Knockouts inches	Standard Packaging*
04-026	1/2	50
04-027	3/4	50



## 4"x 2-1/8" utility 'handy' boxes

2-1/8" deep - type 58371 (UL listed)

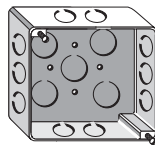
Part Number	Knockouts inches	Standard Packaging*
04-028	1/2	50
04-029	3/4	50



## 4-11/16" square boxes

2-1/8" deep - type 72171 (UL listed)

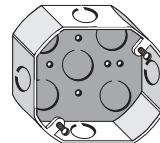
Part Number	Knockouts inches	Standard Packaging*
04-041	1/2 & 3/4	25



## 4" octagonal boxes

1-1/2" deep - type 54151 (UL listed)

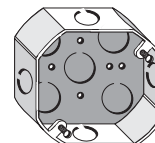
Part Number	Knockouts inches	Standard Packaging*
42-012	1/2	50
42-011	3/4	50



## 4" octagonal boxes

2-1/8" deep - type 54171 (UL listed)

Part Number	Knockouts inches	Standard Packaging*
42-008	1	50



## Box covers, plates and outlets (UL listed/CSA certified)

Part Number	Size inches	Fits these Part Numbers	Standard Packaging*
04-030	4 x 4	04-020, 21, 22, 24, 25	50
04-037	4 x 2-1/8	04-026, 27, 28, 29	25
04-038	4 x 2-1/8	04-026, 27, 28, 29	25
37-178	125 VAC, 15 amp GFCI with cover	n/a	10
04-039	4 x 2-1/8	04-026, 27, 28, 29	25
04-040	4-11/16 x 4-11/16	04-041	50
42-013	4 x 4	42-008, 11, 12	50†

\*All items may be purchased individually.



04-030



04-037



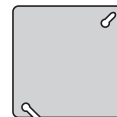
04-038



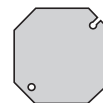
37-178



04-039



04-040



42-013

Wireway

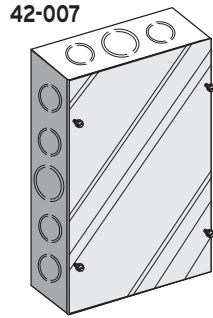
# Boxes and Knockout Punches/Plugs

UL Listed  
 RUL Recognized  
 CSA Certified  
 as noted



## Screw-cover pull boxes with cover and knockouts (UL listed)

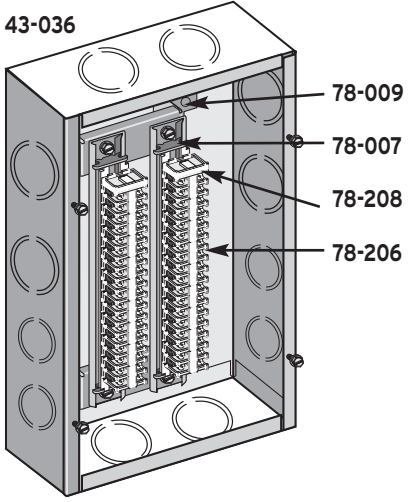
Part Number	Size inches	Depth inches	Standard Packaging
42-007	4 x 4	4	1
42-006	6 x 6	4	1
42-054	8 x 8	4	1
42-025	10 x 10	4	1
42-051	12 x 12	4	1
42-022	18 x 18	4	1
42-021	24 x 24	4	1
42-055	8 x 8	6	1



## Junction boxes with cover, knockouts and terminals

Part Number	Size inches	Depth and Capacity inches • wire count	Standard Packaging
43-036	13-3/4 x 8-1/2	3-1/4 • 36 wires	1
43-072	24 x 8-1/2	3-1/4 • 72 wires	1
43-108	36 x 8-1/2	3-1/4 • 108 wires	1

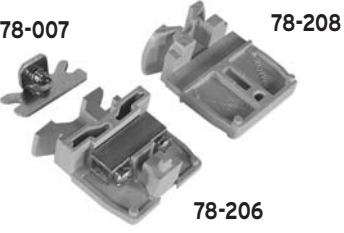
Junction boxes have knockouts on top, bottom and sides.  
 Top/bottom knockouts are 2" and 1-1/2" - sides are 2", 1-1/2", 3/4" and 1/2".  
 Drawing shows box with components that may be ordered separately.  
 See **Junction box components** below.



## Junction box components

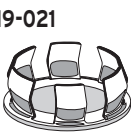
Part Number	Description	Standard Packaging*
78-206	Tubular terminal clamps (Buchanan 0925) †	100
78-007	Channel clamps (Buchanan 61) †	100
78-208	End section (Buchanan 0930) †	25
78-009	Zinc-plated track (Buchanan 60)	6' lengths

†NOTE: These parts are RUL recognized/CSA certified.



## Metal knockout plug

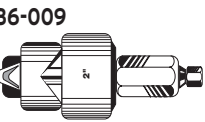
Part Number	Size inches	Standard Packaging*
19-021	1/2	100
19-026	3/4	100
19-027	1	50
19-028	1-1/4	50
19-029	1-1/2	50
19-030	2	25



## Greenlee knockout punch

Part Number	Size inches	Standard Packaging
36-008	1/2 to 1-1/4	1
36-009	1-1/2 to 2	1

\*NOTE: These items may be purchased individually.



Wireway

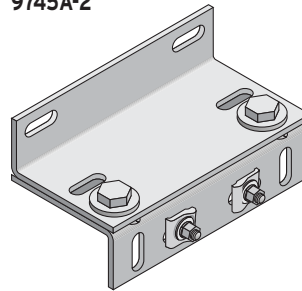
# Miscellaneous Hardware

## Rail installation hardware

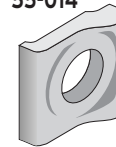
### Rail brackets (for standard and seismic applications)

Part Number	Description	Size
9743A-1	Small rail bracket assembly, with rail clips	2-1/4 to 3-1/4"
9743A-2	Small rail bracket assembly, with rail clips	3 to 4-3/4"
9750A-1	Small rail bracket assembly, without rail clips	2-1/4 to 3-1/4"
9750A-2	Small rail bracket assembly, without rail clips	3 to 4-3/4"
9745A-1	Large rail bracket assembly, with rail clips	4 to 6-3/4"
9745A-2	Large rail bracket assembly, with rail clips	5-3/4 to 8-1/8"
9745A-3	Large rail bracket assembly, with rail clips	7-1/2 to 10-1/4"
9749A-1	Large rail bracket assembly, without rail clips	4 to 6-3/4"
9749A-2	Large rail bracket assembly, without rail clips	5-3/4 to 8-1/8"
9749A-3	Large rail bracket assembly, without rail clips	7-1/2 to 10-1/4"
55-012	Forged rail clip, for 8 lb. rail	
55-013	Forged rail clip, for 12 lb. rail	
55-014	Forged rail clip, for 16 lb. rail	

9745A-2



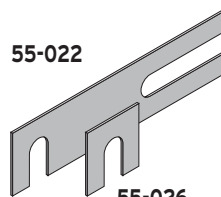
55-014



### Rail bracket shims

Part Number	Size inches	Thickness inches	Cutout(s) inches
55-020	8 x 2	.030	11/16
55-021	8 x 2	.060	11/16
55-022	8 x 2	.105	11/16
55-023	9-3/8 x 2	.030	13/16
55-024	9-3/8 x 2	.060	13/16
55-025	9-3/8 x 2	.105	13/16
55-026	3 x 2	.015	13/16

55-022



55-026

### Concrete/masonry inserts

(designed to ASTM 17.1)

Part Number	Description	Seismic Zones
INSERT-12	Insert, 12" long	0 and 1
INSERT-18	Insert, 18" long	0 and 1
INSERT-24	Insert, 24" long	0 and 1
INSERT-30	Insert, 30" long	0 and 1
INSERT-36	Insert, 36" long	0 and 1
INSERT-48	Insert, 48" long	0 and 1
INSERT-HD-12	Insert, 12" long	2 to 4
INSERT-HD-18	Insert, 18" long	2 to 4
INSERT-HD-24	Insert, 24" long	2 to 4
INSERT-HD-30	Insert, 30" long	2 to 4
INSERT-HD-36	Insert, 36" long	2 to 4
INSERT-HD-48	Insert, 48" long	2 to 4

### Spring nuts

Part Number	Description
INSERT-NUT-12	Spring nut, 1/2"
INSERT-NUT-58	Spring nut, 5/8"
INSERT-NUT-34	Spring nut, 3/4"

INSERT-NUT-58



INSERT-18



INSERT-HD-30



The structural engineer will determine the necessary safety factor from the building codes per job.

### IMPORTANT NOTES ON INSERTS

#### Seismic Zones 0 and 1

Pullout force = 4,000 lbs  
12" version = 2,500 lbs  
Design strength  
4" min. edge distance

Min. concrete/grout strength = 2,000 psi using two 1/2" thru 3/4" spring nuts

#### Seismic Zones 2 through 4

Pullout force = 7,400 lbs  
12" version = 4,900 lbs  
Design strength  
4" min. edge distance

Min. concrete/grout strength = 2,000 psi using two 1/2" thru 3/4" spring nuts

# Miscellaneous Hardware



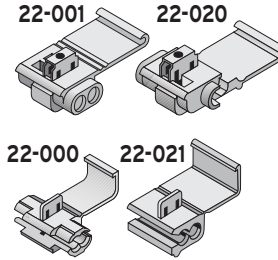
## Insulated butt splices (UL listed/CSA certified)

Part Number	Size	Standard Packaging*	Color
21-001	#22-18	100	Red
21-002	#16-14	100	Blue
21-009	#12-10	100	Yellow



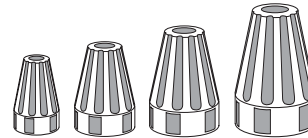
## ScotchLok® components (UL listed/CSA certified)

Part Number	Size	Type	Standard Packaging*
22-001	#22-16	Style 557 pigtail - red	100
22-020	#22-16	Style 558 tap - red	100
22-000	#18-14	Style 560 - blue	100
22-021	#12-10	Style 562 tap - yellow	100



## Wire nuts (UL listed/CSA certified)

Part Number	Size	Type	Standard Packaging*
22-009	#22-16	71B - gray	100
22-010	#22-14	72B - blue	100
22-003	#22-14	73B - orange	100
22-005	#18-12	74B - yellow	100
22-004	#18-10	76B - red	100



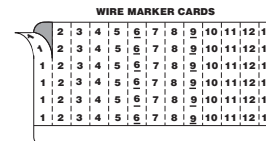
## Cable ties and mounting base

Part Number	Length inches	Max. Width inches	Standard Packaging*
23-001	4.0	.095	100
23-004	6.1	.141	100
23-002	8.0	.185	100
23-012	11.1	.141	100
23-003	14.9	.275	100
23-013	30.7	.275	100
23-032	Mounting Base	.19	100



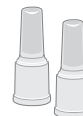
## Wire marker cards and dispensers

Part Number	Description	Standard Packaging*
25-001	Wire marker cards, nos. 1 - 33	25
25-003	Wire marker cards, nos. 34 - 66	25
25-005	Wire marker cards, nos. 67 - 99	25
25-006	Wire marker dispenser	1



## Crimp nuts (UL listed/CSA certified)

Part Number	Description	Standard Packaging*
22-031	Wire joint, min. 2 # 24, max. 3 # 18	100
22-032	Wire joint, min. 4 # 18, max. 2 # 12	100



\*All items may be purchased individually.

## Mechanical lugs

Part Number	Size	Hole Size	Standard Packaging*
17-002	#14-6	#10	100
17-005	#1/0-4/0	3/8"	10
17-001	#8-2	1/4"	50
17-031	#14-6	3/8"	10
17-032	#4-2/0	3/8"	10

## Compression lugs

Part Number	Size	Hole Size	Standard Packaging*
17-019	#1/0	3/8"	10
17-034	#2/0	3/8"	10
17-035	#3/0	3/8"	10
17-036	#4/0	3/8"	10
17-015	#1	3/8"	20
17-020	#2	3/8"	25
17-021	#4	3/8"	50
17-037	#6	3/8"	50
17-022	#8	3/8"	50
17-008	#1	1/2"	20
17-056	#2	1/4"	25

## Ring terminals

Part Number	Type	Size	Standard Packaging*
20-015	#22-18 insulated - red	#6 ring	100
20-026	#22-18 non-insulated	#8 ring	100
20-002	#22-18 insulated - red	#10 ring	100
20-001	#18-14 non-insulated	#10 ring	100
20-003	#16-14 insulated - blue	#10 ring	100

## Female disconnects

Part Number	Type	Size	Standard Packaging*
20-004	#22-18 non-insulated	.110" x .032"	100
20-047	#22-18 insulated	.110" x .032"	100

\*All items may be purchased individually.

## Split-bolt connectors

Part Number	Size	Standard Packaging*
17-041	#1-3/0	25
17-046	#2-6	100
17-073	#4-8	100
17-086	#10-12	100

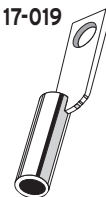
17-002



17-041



17-019



## Fork terminals

Part Number	Type	Size	Standard Packaging*
20-012	#22-18 non-insulated	#6 fork	100
20-048	#22-18 insulated - red	#6 fork	100
20-019	#22-18 insulated - red	#8 fork	100
20-020	#22-18 insulated - red	#10 fork	100
20-016	#16-14 insulated - blue	#6 fork	100
20-017	#16-14 insulated - blue	#8 fork	100
20-018	#16-14 insulated - blue	#10 fork	100

20-015



20-048



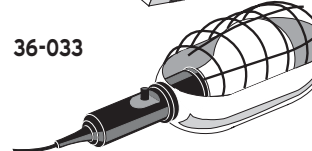
20-004



# Miscellaneous Hardware

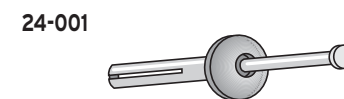
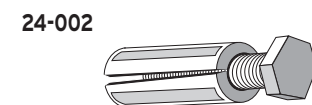
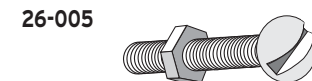
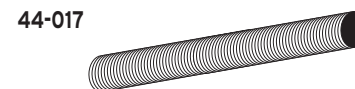
## Lights and electrical

Part Number	Size	Type	Standard Packaging*
36-070	100 watt	Rough service bulbs	60
37-001	-	Porcelain fixture with collar and pull chain	1
37-021	-	Plastic cage	1
33-004	-	Pigtail	1
50-004	-	Laundry drop	1
36-033	25' long	Drop light with cage and hook	1
36-034	50' long	Drop light with cage and hook	1
37-178	125 VAC, 15 amp	GFCI with cover	1
37-149	-	Toggle switch	1



## Screws, fasteners and accessories

Part Number	Size	Type	Standard Packaging*
44-017	3/8" x 6'	Threaded rods	25
09-051	3/8"	Threaded couplings	100
24-004	3/8"	Lead anchors	100
54-001	3/8"	Flat washers	100
59-004	3/8"	Lock washers	100
55-002	3/8"	Hex nuts	100
26-005	1/4" x 3/4"	Round-head nuts and screws	100
26-001	1/4" x 1"	Round-head nuts and screws	100
26-002	1/4" x 1-1/4"	Round-head nuts and screws	100
26-003	1/4" x 1-1/2"	Round-head nuts and screws	100
26-004	1/4" x 2"	Round-head nuts and screws	100
24-001	1/4" x 1"	Nail-ins	100
24-002	1/4"	Lead anchors	100
54-003	1/4"	Flat washers	100
54-002	1/4"	Lock washers	100
55-001	1/4"	Hex nuts	100
36-035	1/4" x 3"	Toggle bolts	100
36-036	1/4" x 1"	Hex-head bolt	100



NOTE: Standard fasteners are grade 2, zinc-coated.

\*All items may be purchased individually.

## Tape (UL listed/CSA certified)

Part Number	Size	Type	Standard Packaging*
16-006	3/4" x 66'	#33 black electrical	10
16-008	3/4" x 66'	#35 white electrical	10
16-009	3/4" x 66'	#35 red electrical	10
16-010	3/4" x 66'	#35 blue electrical	10
16-011	3/4" x 66'	#35 green electrical	10
16-012	3/4" x 66'	#35 yellow electrical	10
16-013	3/4" x 66'	#35 orange electrical	10
16-014	3/4" x 66'	#35 brown electrical	10
16-002	3/4" x 60'	Friction	1
16-003	3/4" x 22'	Rubber	1
16-005	3/4" x 60'	#1700 electrical	10

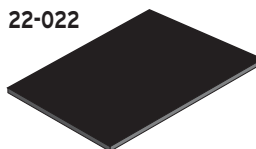
16-006



## Beam pads (Scotch® 2200)

Part Number	Size	Standard Packaging*
22-022	6-1/2 x 4-1/2 x 1/8"	10

22-022

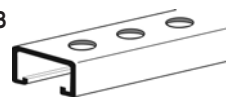


## Channel and components

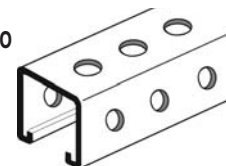
Part Number	Description	Size (inches)	Standard Packaging*
44-338	14-gauge channel, holes one side	13/16 x 1-5/8 x 120	500'
44-339	12-gauge channel, holes one side	1-5/8 x 1-5/8 x 120	500'
44-340	12-gauge channel, holes three sides	1-5/8 x 1-5/8 x 120	500'
44-021	Spring nut for 1-5/8" channel	1/4	100
44-064	Spring nut for 1-5/8" channel	5/16	100
44-014	Spring nut for 1-5/8" channel	3/8	100
44-023	Spring nut for 1-5/8" channel	1/2	100
44-024	Spring nut for 13/16" channel	1/4	100
44-018	Spring nut for 13/16" channel	3/8	100
44-072	Spring nut for 13/16" channel	1/2	100
44-058	Nut for all channel 1/4"	1/4	100
44-059	Nut for all channel 3/8"	3/8	100
44-057	Nut for all channel 1/2"	1/2	100
44-341	Two-hole angle connector	n/a	50
44-342	Three-hole angle connector	n/a	50
44-343	Four-hole angle connector	n/a	25
44-344	Opposite side angle connector	n/a	15
44-002	EMT strap for all channels	1/2	100
44-009	EMT strap for all channels	3/4	100
44-003	EMT strap for all channels	1	100
44-019	EMT strap for all channels	1-1/4	100
44-012	EMT strap for all channels	1-1/2	100
44-004	EMT strap for all channels	2	50
44-030	EMT strap for all channels	2-1/2	50

\*All items may be purchased individually.

44-338



44-340



44-021



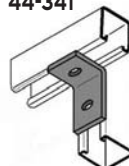
44-024



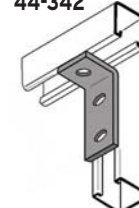
44-058



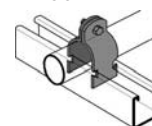
44-341



44-342



44-002





# Tools and Maintenance

## Flexi-Peeler™ round stripper

Part Number	Description	Standard Packaging
36-060	For cable dia. 0.2 to 1.5 in • 4.5 to 40 mm, one replacement blade included	1
36-061	Replacement blade	1

The Flexi-Peeler precisely cuts a jacket with rotary, straight lengthwise and spiral cuts. Cut depth is adjustable. A replacement blade is included in the handle.

The 36-060 has two quickly switched hooks that permit its use on cables from 0.2" • 4.5 mm to 1.5" • 40 mm in diameter.



## Sock Slicer™

Part Number	Description	Standard Packaging
36-177	Sock Slicer braid cutter	1

The Sock Slicer braid cutter is specially designed for fast, easy braid removal. The protected blade cannot nick conductors and can be repositioned for optimum sharpness should it ever get dull.



## Super Peeler round cable stripper

Part Number	Description	Standard Packaging
36-146	For cable dia. 0.75 to 1.25 in • 19 to 32 mm	1
36-147	For cable dia. 1.25 to 2.00 in • 32 to 51 mm	1
36-148	Replacement blade for both versions	1

Easy to calibrate and use, this unique cable 'peeler' allows you to precisely score round traveling cable jackets for fast removal without nicking the conductors underneath. The spring-loaded blade can be adjusted by turning the dial. Two sizes are available.



## FCJ flat cable stripper

Part Number	Description	Standard Packaging
36-135-M1	Stripper	1
36-138	Replacement blades	6
36-139-M1	Replacement blade guide	1

Faster and safer than the utility knife it replaces, the FCJ stripper makes easy work of stripping jackets from flat cables. A rigid, ergonomic handle fits the worker's hand and protects it from cuts and skinned knuckles. The blade is housed in an L-shaped hardened steel guide that eases the stripping operation while keeping the blade and fingers from touching. Two extra blades are included in the handle.



## Multimeters and AC/DC clamp-on meters

Part Number	OEM Part Number	Description
MIS-MTR-001	n/a	Extech model EX-410 meter, DMM functions and features, Cat 3 600V rated VDC accuracy to 0.50%, temperature (type K) 2000 counts, backlit display, data hold, auto power off, input alert CE/UL certified, one year warranty
MIS-MTR-003	n/a	Extech model EX-470 infrared thermometer, with laser, Cat 3 600V rated VDC accuracy to 0.30%, temperature (type K and infrared), capacitance and frequency 4000 counts, true RMS, autoranging, backlit display, data hold, auto power off, input alert CE/UL certified, three year warranty
MIS-MTR-008	n/a	Extech AC/DC clamp-on meter, maximum AC current of 600A Measures AC current, AC/DC voltage and resistance, data hold "freezes" data in display 1-1/4" (33mm) jaw opening for large cables (350MCM), peak hold captures in-rush currents audible continuity beeper, auto power off, true RMS voltage and current measurements AC/DC current to 600A, large 4000 count LCD display Capacitance and temperature measurements Includes test leads, 9V battery, carrying case and temperature probe

MIS-MTR-001



MIS-MTR-003



MIS-MTR-008



# Tools and Maintenance

## Drill bits

Part Number	Size & Type	Standard Packaging*
36-003	3/8" x 6" masonry bit	12
36-042	1/2" x 6" masonry bit	12
36-004	1/4" carbide bit	12
36-037	1/8" high-speed bit	12
36-041	1/4" high-speed bit	12
36-014	5/16" high-speed bit	6
36-007	3/8" high-speed bit	6
36-040	#7 high-speed bit	12
36-039	#21 high-speed bit	12
36-038	#29 high-speed bit	12

\*NOTE: All items may be purchased individually.

## Flex conduit cutter

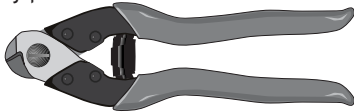
Part Number	Description
36-217	Flex conduit cutter, for 3/8, 1/2 and 5/8" flex conduit
36-218	Replacement blade, one



## Steel Core Cutters

Part Number	Standard Packaging
36-178	1

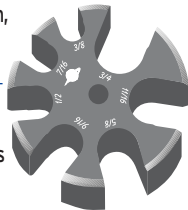
High-leverage cutters with Swiss-made carbide steel blades that make quick work of the steel support cable found in traveling cables. Plastic-coated handles for comfort and gripability. Blades lock in a closed position for better fit in a toolbelt.



## Wire Rope Measuring Tool

Part Number	Description
WR-MT	Wire rope measuring gauge, for imperial sizes, go/no go style, use on rope diameters 3/8", 7/16", 1/2", 9/16", 5/8", 11/16" and 3/4"
WR-MT-METRIC	Wire rope measuring gauge, for metric sizes, go/no go style, 6 mm, 8 mm, 10 mm, 11 mm, 12 mm, 13 mm, 16 mm and 19 mm

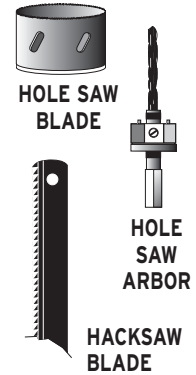
Convenient tool for quick and accurate measurement of wire rope diameters. Machined aluminum. If the rope fits in the groove, or if a rope with rouge fits the stepped groove, retire the rope.



## Saw blades and arbors

Part Number	Size & Type	Standard Packaging*
36-080	7/8" hole saw	1
36-084	1" hole saw	1
36-081	1-1/8" hole saw	1
36-086	1-1/4" hole saw	1
36-099	2" hole saw	1
36-047	2-1/8" hole saw	1
36-049	2-7/8" hole saw	1
36-006	32 teeth/in. hacksaw blade	10
36-083	9/16" to 1-3/16" hole saw arbor	1
36-048	1-1/4" to 6" hole saw arbor	1

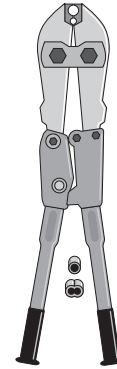
\*NOTE: All items may be purchased individually.



## Swaging tool, ferrules and stops

Part Number	Description	Packaging
36-143	Swaging tool	1
36-145	3/32" • 2 mm ferrules	2 ferrules/2 stops and stops
36-144	1/8" • 3 mm ferrules	2 ferrules/2 stops and stops

This boltcutter-style swaging tool offers improved leverage and greater speed combined with economical durability. The strong forged jaws crimps ferrules on wire rope up to 1/8" diameter.



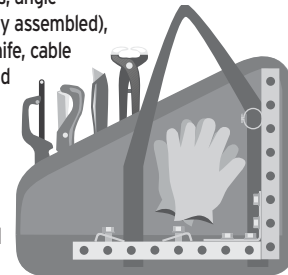
## Crimping tool

Part Number	Description	Standard Packaging
36-097	Crimps bare or insulated terminals and splices for wire sizes 22-10 AWG	1



## Whisper-Flex and Steadi-Flex strip kit

Part Number	Description
WF-STRP	Strip kit with instructions, angle mounting bracket (already assembled), clamps, nippers, utility knife, cable jacket cutter, hacksaw and gloves for use in preparing the end of all Draka compensating cables. Carrying case included. Other tools required but not included are 3/4" wrench and flathead screwdriver



# Tools and Maintenance

## Conduit benders (handle included)

Part Number	Description
36-002	Conduit bender, for 1/2" EMT, 4" inside bending radius
36-001	Conduit bender, for 3/4" EMT, 5" inside bending radius
36-000	Conduit bender, for 1" EMT, 6" inside bending radius
36-214	Conduit bender, for 1-1/4" EMT, 9" inside bending radius

Conduit benders have aluminum construction for easy handling. They have a precision-located degree scale, star, arrow and rim notch for perfect bends every time. Markings are raised and cast into bender body on both sides for easy visibility. Grooved internal hook surface helps prevent conduit from slipping. Flat hook surface provides stable starting point.

## Wire strippers

Part Number	Description
37-177	Wire stripper, for 26 to 16 AWG
36-219	Automatic wire stripper, for 22 to 10 AWG
36-220	Replacement blades for automatic wire stripper, one pair

## Wire rope cutting tools

Part Number	Description
WR-IMPACT	Impact-style wire rope cutter, Morse-Starrett 101
WR-HYDRAULIC	Hydraulic-style wire rope cutter, Morse-Starrett W-075
WR-RATCHET	Ratchet-style wire rope cutter, Cooper Tools 8690 TN

NOTE: All cutters for wire rope diameters of up to 3/4" • 19 mm

## Wire and reel organization

Part Number	Description
36-221	Hand wire caddy
36-222	Reel roller, for up to 30" reels, 2,000 lbs. capacity

## Manila rope

Part Number	Description
36-216	Manila rope, 3/4" diameter, 600' length

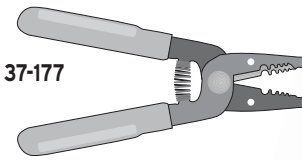
## Piano/music wire (used for rail alignment)

Part Number	Description
36-212	Piano/music wire, (non-electrical), #3 spool
36-213	Piano/music wire, (non-electrical), #5 spool

36-002



37-177



36-219



WR-IMPACT



WR-HYDRAULIC



WR-RATCHET



36-221



36-222



# Tools and Maintenance

## Maintenance tools and lubricants

Part Number	Description
MIS-050	Flat flex rail file, 14" long, 8 teeth per inch
MIS-050A	File holder, for MIS-050
MIS-100L	Rail lubricant, 1 gallon, paraffin-based, used with MIS-101B
MIS-101B	Rail lubricator, for 8 & 16 lb. rails
WR-DRAKALUBE	DrakaLube® wire rope treatment, one gallon jug (cases of 4 gallons available)
MIS-100	Rope oiler, with 9" wick
MIS-102	Rope oiler, with 12" wick
MIS-103	Extension bracket, for rope oiler
MIS-103A	Replacement wick, for all size rope oilers
MIS-103B	Replacement wick, 1/2" x 6-1/2" x 12"
MIS-111	Contact burnishing tools, 3" long x 3/16" wide x .007" thick, leaves no residue, insulated plastic handle, 5 per pkg.
MIS-112	Contact burnishers, heavy duty 3-1/4" long x 3/16" wide x .010" thick, leaves no residue, insulated plastic handle, 5 per pkg.
MIS-126A	Security screwdriver, magnetic holder, storage handle holds spanner bits #6, #8, #10 and phillips bit
MIS-186A	Brush seater and commutator cleaning stone, medium-soft grade stone 1" long x 1" wide x 4-3/4" high, for general purpose use, additional sizes and grades available
MIS-211	Door pressure gauge
MIS-211A	Pressure gauge, 2' hose, 1K PSI, for monitoring oil pressure on hydraulic elevators, quick-connect coupling, flexible extension hose, liquid-filled easy-to-read gauge
WMT-2	Thrust bearing tool, for Westinghouse #28 and #38 machines

MIS-050



MIS-050A



MIS-101B



WR-DRAKALUBE



MIS-100



MIS-111



MIS-112



MIS-126A



MIS-211



MIS-211A



MIS-186A



WMT-2



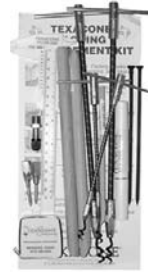
Tools

# Tools and Maintenance

## Packing replacement kit

Part Number	OEM Part Number	Description
<b>PAC-43</b>	n/a	<p><b>Packing replacement kit</b>, everything needed to efficiently replace the packing in any hydraulic elevator or traction machine.</p> <p>This specialty tool kit contains:                      #2 flexible packing hooks for removal of hydraulic packing,                      #1 flexible packing hooks for removal of worm shaft packing,                      wooden dowels for installation of packing,                      special tape for measuring the diameter of pistons or shafts,                      bleeder air valve to relieve pressure of hydraulic packing,                      long-handled screws to remove phenolic bearings or lantern rings</p>

**PAC-43**



## Miscellaneous machine, brake and slide guide parts

Part Number	OEM Part Number	Description
<b>AM-1</b>	13495-01, 513803	<b>Brake sleeve assembly</b> , for Armor #4 machine
<b>DDO-2</b>	9838685	<b>Slide insert</b> , for Dover DDO-21 assembly, 2-1/2" L x 3/4" W
<b>DDO-13</b>	9805266, 10526	<b>Ivo slide guide shoe</b> , for Dover, 5-1/2" x 1", 3-1/2" c/c mtg., used with DDO-13C holder
<b>DDO-13C</b>	9808279, 40827	<b>Guide shoe holder</b> , for Dover, 5-1/2" x 2.15", with DDO-13 installed
<b>DDO-21</b>	9838697, 63869	<b>Slide assembly</b> , for Dover, complete
<b>DDO-21B</b>	9806623	<b>Slide holder</b> , for Dover DDO-21 assembly
<b>DDO-26</b>	9705478, 70547	<b>Rubber cushion</b> , for Dover, 2" O.D. x 1-1/2" brake pulley for machines GD-45, GD-50, GD-75, GD-105, GD-200, GD-240, GD-300
<b>DMP-10</b>	9863230, 26323	<b>Brake sleeve</b> , for Dover brake assembly
<b>WRP-46</b>	569A803H01	<b>Tach generator motor</b> , 30 VDC, for Westinghouse

**AM-1**



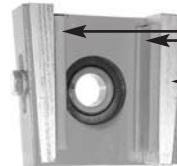
**DDO-13**



**DDO-13C**



**DDO-21**



**DDO-2**

**DDO-21B**

**DDO-26**



**DMP-10**



**WRP-46**





**Imperial diameters (with fiber core)**

Part Number	Application	Diameter inches	Stranding	Construction	Grade	Right Lay	Breaking Load lbs • N	Net Weight lbs/ft • kg/m
80-000	Hoist	1/4"	8 x 19	Seale	Traction	Regular	3600 • 16000	0.09 • 0.13
80-001	Hoist	3/8"	8 x 19	Seale	Traction	Regular	8200 • 36400	0.20 • 0.30
80-001W	Governor	3/8"	8 x 19	Warrington	Traction	Regular	8200 • 36400	0.20 • 0.30
80-001EHS	Hoist	3/8"	8 x 19	Seale	EHST	Regular	10900 • 48800	0.21 • 0.31
80-010IRONW	Governor	3/8"	8 x 19	Warrington	Iron	Regular	4200 • 18600	0.20 • 0.30
80-007IRONW	Governor	7/16"	8 x 19	Warrington	Iron	Regular	5600 • 24900	0.28 • 0.42
80-002	Hoist	1/2"	8 x 19	Seale	Traction	Regular	14500 • 64500	0.36 • 0.54
80-002LL	Hoist	1/2"	8 x 19	Seale	Traction	Lang	14500 • 64500	0.36 • 0.54
80-002CSLL	Hoist	1/2"	8 x 19	Seale/Comp. St.	Traction	Lang	17000 • 75800	0.39 • 0.58
80-002EHS	Hoist	1/2"	8 x 19	Seale	EHST	Regular	17500 • 77800	0.36 • 0.54
80-002EHSLL	Hoist	1/2"	8 x 19	Seale	EHST	Lang	17500 • 77800	0.36 • 0.54
80-075FW	Hoist	1/2"	6 x 25	Filler Wire	Traction	Regular	14500 • 64500	0.40 • 0.60
80-075EHSFW	Hoist	1/2"	6 x 25	Filler Wire	EHST	Regular	20400 • 90700	0.40 • 0.60
80-002FW	Comp./Gov.	1/2"	8 x 25	Filler Wire	Traction	Regular	14500 • 64500	0.36 • 0.54
80-011IRONFW	Comp./Gov.	1/2"	8 x 25	Filler Wire	Iron	Regular	7200 • 32000	0.36 • 0.54
80-038	Hoist	9/16"	8 x 19	Seale	Traction	Regular	18500 • 82300	0.46 • 0.68
80-003	Hoist	5/8"	8 x 19	Seale	Traction	Regular	23000 • 102300	0.57 • 0.85
80-003LL	Hoist	5/8"	8 x 19	Seale	Traction	Lang	23000 • 102300	0.57 • 0.85
80-003CSLL	Hoist	5/8"	8 x 19	Seale/Comp. St.	Traction	Lang	26900 • 119800	0.62 • 0.92
80-003EHS	Hoist	5/8"	8 x 19	Seale	EHST	Regular	27200 • 121000	0.57 • 0.85
80-003EHSLL	Hoist	5/8"	8 x 19	Seale	EHST	Lang	27200 • 121000	0.57 • 0.85
80-076FW	Hoist	5/8"	6 x 25	Filler Wire	Traction	Regular	23000 • 102300	0.63 • 0.94
80-076IRONFW	Comp./Gov.	5/8"	6 x 25	Filler Wire	Iron	Regular	12800 • 56900	0.63 • 0.94
80-003FW	Comp./Gov.	5/8"	8 x 25	Filler Wire	Traction	Regular	23000 • 102300	0.57 • 0.85
80-012IRONFW	Comp./Gov.	5/8"	8 x 25	Filler Wire	Iron	Regular	11200 • 49800	0.57 • 0.85
80-039	Hoist	11/16"	8 x 19	Seale	Traction	Regular	27000 • 120100	0.69 • 1.03
80-039LL	Hoist	11/16"	8 x 19	Seale	Traction	Lang	27000 • 120100	0.69 • 1.03
80-039EHS	Hoist	11/16"	8 x 19	Seale	EHST	Regular	32800 • 145900	0.69 • 1.03
80-013	Hoist	3/4"	8 x 19	Seale	Traction	Regular	32000 • 142300	0.82 • 1.22
80-040	Hoist	13/16"	8 x 19	Seale	Traction	Regular	37000 • 164600	0.96 • 1.43
80-014	Hoist	7/8"	8 x 19	Seale	Traction	Regular	42000 • 186800	1.11 • 1.65
80-042	Hoist	1"	8 x 19	Seale	Traction	Regular	54000 • 240200	1.45 • 2.16

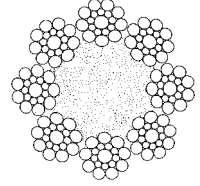
All listed Gustav Wolf wire rope is **preformed, right lay** with a **bright** (uncoated) finish.

All popular items are in stock for immediate delivery.

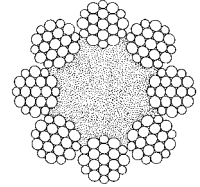
Less popular items and other diameters, strandings, constructions, grades, coatings, etc. are available by special order.

**Rope Cross-sections**

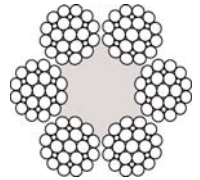
**8 x 19 Seale**



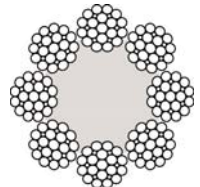
**8 x 19 Warrington**



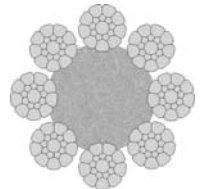
**6 x 25 Filler Wire**



**8 x 25 Filler Wire**



**8 x 19 Seale  
Compacted Strand**



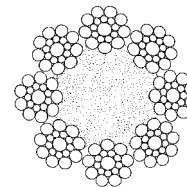


**Metric F819 S-FE DT n. ISO 4344 (with fiber core)**

Part Number	Application	Diameter mm	Stranding	Construction	Tensile Strength N/mm <sup>2</sup>	Right Lay	Breaking Load lbs • N	Net Weight lbs/ft • kg/m
80-005	Hoist	8.0	8x19	Seale	1370/1770	Regular	6400 • 28600	0.15 • 0.22
80-090	Hoist	9.0	8x19	Seale	1370/1770	Regular	8100 • 35900	0.19 • 0.28
80-006	Hoist	10.0	8x19	Seale	1370/1770	Regular	9900 • 44100	0.23 • 0.35
80-007	Hoist	11.0	8x19	Seale	1370/1770	Regular	12100 • 54000	0.29 • 0.43
80-008	Hoist	12.0	8x19	Seale	1370/1770	Regular	14400 • 64100	0.34 • 0.50
80-009	Hoist	13.0	8x19	Seale	1370/1770	Regular	16800 • 74900	0.40 • 0.59
80-096	Hoist	14.0	8x19	Seale	1370/1770	Regular	19400 • 86400	0.46 • 0.68
80-098	Hoist/Comp.	16.0	8x19	Seale	1370/1770	Regular	25400 • 113000	0.60 • 0.89
80-099	Hoist/Comp.	18.0	8x19	Seale	1370/1770	Regular	31900 • 142000	0.74 • 1.11
80-091	Hoist/Comp.	19.0	8x19	Seale	1370/1770	Regular	36000 • 160000	0.84 • 1.26

Rope Cross-sections

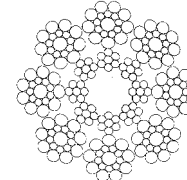
**F819 S-FE DT**  
8 x 19 Seale



**Metric PAWO F3 (with steel reinforced core)**

Part Number	Application	Diameter mm	Stranding	Construction	Tensile Strength N/mm <sup>2</sup>	Right Lay	Breaking Load lbs • N	Net Weight lbs/ft • kg/m
80-043	Governor	6.5	6x19	Seale	1570	Regular	5500 • 24700	0.11 • 0.16
80-045	Hoist	8.0	8x19	Seale	1570	Regular	8100 • 36200	0.16 • 0.24
80-015	Hoist	9.0	8x19	Seale	1570	Regular	10300 • 46000	0.21 • 0.31
80-017	Hoist	10.0	8x19	Seale	1570	Regular	12900 • 57600	0.26 • 0.39
80-018	Hoist	11.0	8x19	Seale	1570	Regular	15700 • 69900	0.31 • 0.47
80-019	Hoist	12.0	8x19	Seale	1570	Regular	18600 • 82700	0.37 • 0.55
80-021	Hoist	13.0	8x19	Seale	1570	Regular	22100 • 98200	0.44 • 0.66
80-022	Hoist	14.0	8x19	Seale	1570	Regular	25500 • 113600	0.51 • 0.76
80-024	Hoist	16.0	8x19	Seale	1570	Regular	33100 • 147400	0.66 • 0.99
80-026	Hoist	18.0	8x19	Seale	1570	Regular	41500 • 184400	0.82 • 1.23
80-048	Hoist	19.0	8x19	Seale	1570	Regular	46600 • 207200	0.92 • 1.38

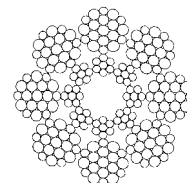
**PAWO F3**  
8 x 19 Seale



**Metric PAWO F7 (with steel reinforced core)**

Part Number	Application	Diameter mm	Stranding	Construction	Tensile Strength N/mm <sup>2</sup>	Right Lay	Breaking Load lbs • N	Net Weight lbs/ft • kg/m
80-054	Governor	6.50	6x19	Warrington	1570	Regular	5900 • 26500	0.11 • 0.16
80-056	Hoist	8.0	8x19	Warrington	1570	Regular	8700 • 38700	0.17 • 0.26
80-027	Hoist	9.0	8x19	Warrington	1570	Regular	11100 • 49300	0.22 • 0.33
80-029	Hoist	10.0	8x19	Warrington	1570	Regular	13600 • 60400	0.27 • 0.40
80-030	Hoist	11.0	8x19	Warrington	1570	Regular	16400 • 73100	0.33 • 0.49
80-031	Hoist	12.0	8x19	Warrington	1570	Regular	19400 • 86400	0.39 • 0.58
80-033	Hoist	13.0	8x19	Warrington	1570	Regular	22500 • 100000	0.45 • 0.67
80-034	Hoist	14.0	8x19	Warrington	1570	Regular	26600 • 118500	0.53 • 0.79
80-036	Hoist	16.0	8x19	Warrington	1570	Regular	34400 • 152800	0.68 • 1.02
80-004	Hoist	18.0	8x19	Warrington	1570	Regular	43100 • 191600	0.86 • 1.28
80-059	Hoist	19.0	8x19	Warrington	1570	Regular	48200 • 214800	0.96 • 1.43

**PAWO F7**  
8 x 19 Warrington



All listed Gustav Wolf wire rope is **preformed, right lay** with a **bright** (uncoated) finish.

All popular items are in stock for immediate delivery.

Less popular items and other diameters, strandings, constructions, grades, coatings, etc. are available by special order.



**Metric PAWO F7S (with Independent Wire Rope Core)**

Part Number	Application	Diameter mm	Stranding	Construction	Tensile Strength N/mm <sup>2</sup>	Right Lay	Breaking Load lbs • N	Net Weight lbs/ft • kg/m
80-056SC	Hoist	8.0	8x19	Warrington	1570	Regular	9000 • 39900	0.19 • 0.28
80-027SC	Hoist	9.0	8x19	Warrington	1570	Regular	11400 • 50700	0.24 • 0.36
80-029SC	Hoist	10.0	8x19	Warrington	1570	Regular	14000 • 62300	0.29 • 0.44
80-030SC	Hoist	11.0	8x19	Warrington	1570	Regular	16900 • 75300	0.36 • 0.53
80-031SC	Hoist	12.0	8x19	Warrington	1570	Regular	20100 • 89600	0.42 • 0.63
80-033SC	Hoist	13.0	8x19	Warrington	1570	Regular	23300 • 103700	0.49 • 0.73
80-034SC	Hoist	14.0	8x19	Warrington	1570	Regular	27500 • 122100	0.58 • 0.86
80-036SC	Hoist	16.0	8x19	Warrington	1570	Regular	35400 • 157600	0.74 • 1.11
80-004SC	Hoist	18.0	8x19	Warrington	1570	Regular	44500 • 197900	0.93 • 1.39
80-059SC	Hoist	19.0	8x19	Warrington	1570	Regular	49900 • 221900	1.05 • 1.56

**Metric PAWO F10 (with full steel core)**

Part Number	Application	Diameter mm	Stranding	Construction	Tensile Strength N/mm <sup>2</sup>	Right Lay	Breaking Load lbs • N	Net Weight lbs/ft • kg/m
80-102	Hoist	8.0	9x17	Filler Wire	1570	Regular	8900 • 39600	0.19 • 0.28
80-103	Hoist	9.0	9x17	Filler Wire	1570	Regular	11300 • 50400	0.23 • 0.35
80-105	Hoist	10.0	9x17	Filler Wire	1570	Regular	13800 • 61600	0.29 • 0.43
80-106	Hoist	11.0	9x17	Filler Wire	1570	Regular	16700 • 74200	0.35 • 0.52
80-107	Hoist	12.0	9x17	Filler Wire	1570	Regular	20100 • 89200	0.42 • 0.63
80-109	Hoist	13.0	9x21	Filler Wire	1570	Regular	23700 • 105600	0.50 • 0.75
80-110	Hoist	14.0	9x21	Filler Wire	1570	Regular	27600 • 122700	0.59 • 0.88
80-113	Hoist	16.0	9x21	Filler Wire	1570	Regular	36200 • 161000	0.76 • 1.14
80-116	Hoist	18.0	9x21	Filler Wire	1570	Regular	45400 • 202000	0.96 • 1.44
80-117	Hoist	19.0	9x21	Filler Wire	1570	Regular	50500 • 224700	1.08 • 1.61

All listed Gustav Wolf wire rope is **preformed, right lay** with a **bright** (uncoated) finish.

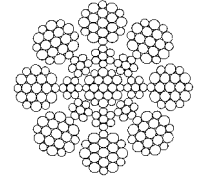
All popular items are in stock for immediate delivery.

Less popular items and other diameters, strandings, constructions, grades, coatings, etc. are available by special order.

Rope Cross-sections

**PAWO F7S**

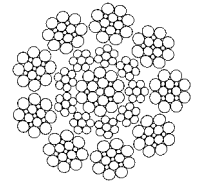
8 x 19 Warrington



**PAWO F10**

9 x 17 Filler Wire

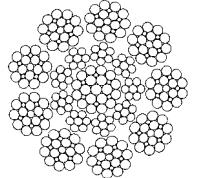
8 - 12 mm



**PAWO F10**

9 x 21 Filler Wire

13 - 19 mm





# Wire Rope Accessories

## Wedge sockets with components and governor rope wedge socket

### Wedge sockets

Part Number	Rope size inches • mm	Dim (A) nom inches • mm	Dim (B) nom inches • mm
WSY-38-12	5/16 to 3/8 • 8 to 10	17-1/2 • 445	12 • 305
WSY-38-18	5/16 to 3/8 • 8 to 10	23-3/4 • 603	18 • 457
WSY-38-24	5/16 to 3/8 • 8 to 10	30-1/8 • 765	24 • 610
WSY-12-12	7/16 to 1/2 • 11 to 13	18 • 457	12 • 305
WSY-12-18	7/16 to 1/2 • 11 to 13	24-3/8 • 619	18 • 457
WSY-12-24	7/16 to 1/2 • 11 to 13	30-5/8 • 778	24 • 610
WSY-12-30	7/16 to 1/2 • 11 to 13	36-7/8 • 937	30 • 762
WSY-12-36	7/16 to 1/2 • 11 to 13	43-1/4 • 1099	36 • 914
WSY-58-12	9/16 to 5/8 • 14 to 16	19-3/4 • 502	12 • 305
WSY-58-18	9/16 to 5/8 • 14 to 16	26-1/8 • 664	18 • 457
WSY-58-24	9/16 to 5/8 • 14 to 16	32-3/8 • 822	24 • 610
WSY-58-30	9/16 to 5/8 • 14 to 16	38-3/4 • 984	30 • 762
WSY-58-36	9/16 to 5/8 • 14 to 16	45 • 1143	36 • 914
WSY-34-12	11/16 to 3/4 • 17.5 to 19	21-1/4 • 540	12 • 305
WSY-34-18	11/16 to 3/4 • 17.5 to 19	27-1/2 • 699	18 • 457
WSY-34-24	11/16 to 3/4 • 17.5 to 19	33-3/4 • 857	24 • 610
WSY-34-30	11/16 to 3/4 • 17.5 to 19	39-3/4 • 1010	30 • 762
WSY-34-36	11/16 to 3/4 • 17.5 to 19	46-1/4 • 1175	36 • 914

Each wedge socket consists of the socket, rod, wedge, 2 nuts, 1 washer, 1 cotter pin and 2 retaining clips.

Draka EP wedge sockets are tested with 8x19 extra high-strength traction steel wire rope and exceed ASME A17.1 Rule 2.20.9 and all other applicable safety codes.

### Wedge socket components

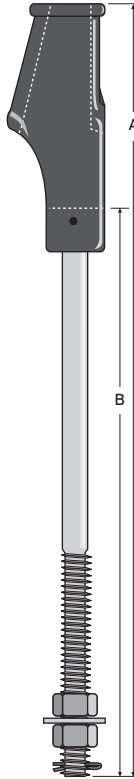
Part Number	Size and Description inches • mm
WS-NUT-38	5/16 to 3/8 • 8 to 10 nut
WS-NUT-12	7/16 to 1/2 • 11 to 13 nut
WS-NUT-58	9/16 to 5/8 • 14 to 16 nut
WS-NUT-34	11/16 to 3/4 • 17.5 to 19 nut
WS-CPIN-38	5/16 to 3/8 • 8 to 10 cotter pin
WS-CPIN-12	7/16 to 1/2 • 11 to 13 cotter pin
WS-CPIN-58	9/16 to 5/8 • 14 to 16 cotter pin
WS-CPIN-34	11/16 to 3/4 • 17.5 to 19 cotter pin
WS-WSHR-38	5/16 to 3/8 • 8 to 10 washer
WS-WSHR-12	7/16 to 1/2 • 11 to 13 washer
WS-WSHR-58	9/16 to 5/8 • 14 to 16 washer
WS-WSHR-34	11/16 to 3/4 • 17.5 to 19 washer

#### Component Specifications

**Socket**  
Cast steel ASTM-A27, Grade 60-30 stress relieved

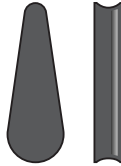
**Rod**  
Rolled or forged steel ASTM 668

**Wedge**  
Cast steel ASTM-A27, Grade 60-30



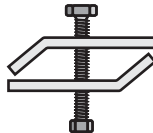
### Wedge socket wedges

Part Number	Size and Description inches • mm
WS-WEDGE-3812	5/16 to 1/2 • 8 to 13 wedge insert (black)
WS-WEDGE-58	9/16 to 5/8 • 14 to 16 wedge insert (red)
WS-WEDGE-34	11/16 to 3/4 • 17.5 to 19 wedge insert (yellow)



### Wedge socket retaining clips

Part Number	Size and Description inches • mm
WS-CLIP-38	5/16 to 3/8 • 8 to 10 rope retaining clip
WS-CLIP-1258	7/16 to 5/8 • 11 to 16 rope retaining clip
WS-CLIP-34	11/16 to 3/4 • 17.5 to 19 rope retaining clip



### Governor rope wedge socket

Part Number	Size and Description inches • mm
WSY-38-GOV	3/8 • 10 governor rope wedge socket, includes socket, wedge & 2 retaining clips



# Wire Rope Accessories

## Isolation bushings and Babbitt sockets

### Rope isolation bushing springs - assemblies and components

Part Number	Size and Description inches • mm	Spring length <sup>†</sup> inches • mm	Spring O.D. inches • mm	Spring I.D. inches • mm
WS-SA-38*	5/16 to 3/8 • 8 to 10 complete assembly	4-7/8 • 124	1-1/4 • 31.8	11/16 • 17.5
WS-SA-12*	7/16 to 1/2 • 11 to 13 complete assembly	6-1/8 • 156	1-7/8 • 47.6	1 • 25.4
WS-SA-58*	9/16 to 5/8 • 14 to 16 complete assembly	6-7/8 • 175	2-7/16 • 61.9	1-1/4 • 31.8
WS-SA-34*	11/16 to 3/4 • 17.5 to 19 complete assembly	7-1/2 • 191	3-7/8 • 98.4	1-7/8 • 47.6
WS-IBUSH-38	5/16 to 3/8 • 8 to 10 bushing	n/a	n/a	n/a
WS-IBUSH-12	7/16 to 1/2 • 11 to 13 bushing	n/a	n/a	n/a
WS-IBUSH-58	9/16 to 5/8 • 14 to 16 bushing	n/a	n/a	n/a
WS-IBUSH-34	11/16 to 3/4 • 17.5 to 19 bushing	n/a	n/a	n/a
WS-SPR-38	5/16 to 3/8 • 8 to 10 bushing spring	4-7/8 • 124	1-1/4 • 31.8	11/16 • 17.5
WS-SPR-12	7/16 to 1/2 • 11 to 13 bushing spring	6-1/8 • 156	1-7/8 • 47.6	1 • 25.4
WS-SPR-58	9/16 to 5/8 • 14 to 16 bushing spring	6-7/8 • 175	2-7/16 • 61.9	1-1/4 • 31.8
WS-SPR-34	11/16 to 3/4 • 17.5 to 19 bushing spring	7-1/2 • 191	3-7/8 • 98.4	1-7/8 • 47.6
WS-BUSH-38	5/16 to 3/8 • 8 to 10 bushing washer	n/a	n/a	n/a
WS-BUSH-12	7/16 to 1/2 • 11 to 13 bushing washer	n/a	n/a	n/a
WS-BUSH-58	9/16 to 5/8 • 14 to 16 bushing washer	n/a	n/a	n/a
WS-BUSH-34	11/16 to 3/4 • 17.5 to 19 bushing washer	n/a	n/a	n/a

\*Isolation bushing spring assemblies include all components listed above. They DO NOT include the wedge socket.

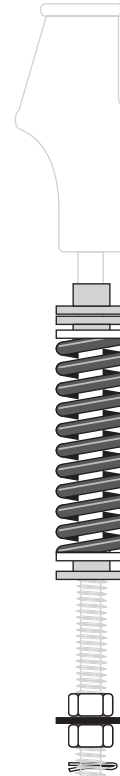
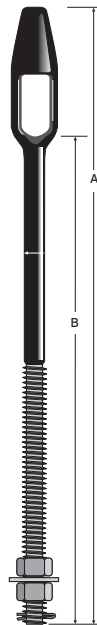
<sup>†</sup>Spring measured when relaxed

### Babbitt sockets

Part Number	Rod size inches • mm	Dim (A) nom inches • mm	Dim (B) nom inches • mm
BSY-12-12	1/2 x 12 • 13 x 305	18 • 457	12 • 305
BSY-12-18	1/2 x 18 • 13 x 457	24 • 610	18 • 457
BSY-12-24	1/2 x 24 • 13 x 610	30 • 762	24 • 610
BSY-58-12	5/8 x 12 • 16 x 305	19 • 483	12 • 305
BSY-58-18	5/8 x 18 • 16 x 457	25 • 635	18 • 457
BSY-58-24	5/8 x 24 • 16 x 610	31 • 787	24 • 610
82-000	Babbitt material, one bar at approx 9.3 lbs • 4.3 kg		

All Babbitt sockets are special order and are not normally stocked.

Call 1-877-DRAKA-EP for details.



#### Component Specifications

##### Socket

Cast steel ASTM-A27, Grade 60-30 stress relieved

##### Rod

Rolled or forged steel ASTM 668

##### Wedge

Cast steel ASTM-A27, Grade 60-30

#### Component Specifications

##### Shackle

Forged carbon steel per JIS S35C or S38C equivalent to SAE 1035 or 1038, hot forged then normalized and tempered.

##### Hex nuts

ASTM A563 Grade O

##### Cotter pin

Steel, per ANSI B5.20

# Wire Rope Accessories

Wire rope treatment, splices, bands, wire rope clips and selector/door relating cable

## DrakaLube™ wire rope treatment and lubricators

Part Number	Description
WR-DRAKALUBE	DrakaLube wire rope treatment, one gallon jug
MIS-100	Automatic rope oiler, with 9" wick
MIS-102	Automatic rope oiler, with 12" wick
MIS-103	Extension bracket, for rope oiler
MIS-103A	Replacement wick, for all size rope oilers
MIS-103B	Replacement wick, 1/2" x 6 1/2" x 12"

WR-DRAKALUBE



MIS-100



## Reeving splices (by Preformed Line Products)

Part Number	Color Code	For Rope Diameter inches • mm	Length inches • mm	Rod Diameter inches • mm
RS-2103	Yellow	3/8 • 9.5	22 • 559	.051 • 1.3
RS-2105	Orange	1/2 • 12.7	29 • 736	.070 • 1.8
RS-2107	Black	5/8 • 15.9	36 • 914	.086 • 2.2

NOTE: Reeving splices are sold in sets of three - they CANNOT be reused.

RS-2103



## Cable bands

Part Number	Description	Quantity
WR-CB-38	Cable bands for 3/8" rope	50
WR-CB-12	Cable bands for 1/2" rope	50
WR-CB-58	Cable bands for 5/8" rope	50

WR-CB-38

WR-CB-58



WR-CB-12

## Wire rope clips (malleable iron)

Part Number	Description
79-107	1/8 in • 3.2 mm wire rope clip
79-114	3/16 in • 4.7 mm wire rope clip
79-122	1/4 in • 6.4 mm wire rope clip
79-123	3/8 in • 10 mm wire rope clip
79-126	1/2 in • 13 mm wire rope clip
79-127	5/8 in • 16 mm wire rope clip

79-122



## Selector/hoistway door relating cable

(preformed, flexible zinc-coated wire rope)

Part Number	Size inches • mm	Stranding	Minimum Breaking Strength lbs • kg	Cable Weight lbs/kft • kg/km
040219	1/16 • 1.6	7x7	480 • 218	7.5 • 11
040218	3/32 • 2.3	7x7	920 • 418	16 • 24
040215	1/8 • 3.2	7x19	2,000 • 909	29 • 43
040216	5/32 • 4.0	7x19	2,800 • 1273	45 • 67
040225	1/4 • 6.4	7x19	7,000 • 3182	110 • 164

040219



# Wire Rope Tools

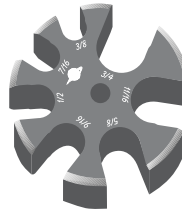
## Measurement and cutting

### Measuring tool (conforms to ANSI A17.1-B44 [2002])

Part Number	Description
WR-MT	Wire rope measuring gauge, for imperial rope diameters, go/no go style, use on rope diameters 3/8", 7/16", 1/2", 9/16", 5/8", 11/16" and 3/4"
WR-MT-METRIC	Wire rope measuring gauge, for metric rope diameters, go/no go style, 6mm, 8mm, 10mm, 11mm, 12mm, 13 mm, 16mm and 19mm

Convenient tool for quick and accurate measurement of wire rope diameters. Machined aluminum. If the rope fits in the groove, or if a rope with rouge fits the stepped groove, retire the rope.

WR-MT



### Quick-Check tension meter

Part Number	Description
WR-QCTM-2	Wire rope tension measurement meter, 8000 lb/35 kN/3500 kg range

The Quick-Check tension meter can be attached, used to measure tension and removed in just seconds per rope. The digital load cell assures accuracy of up to  $\pm 3\%$  when calibrated to the specific wire size and type. The meter is shipped with 1/2" and 5/8" diameter calibrations from the factory (other diameters are available by special order). The included sheave set accommodates wire diameters of 1/4" through 3/4".

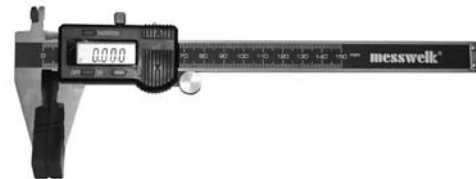
WR-QCTM-2



### Digital caliper

Part Number	Description
WR-CALIPER	Digital wire rope caliper, dual range (imperial and metric scales), includes special jaws for ease of use

WR-CALIPER



### Wire rope cutting tools

Part Number	Description
WR-IMPACT	Impact-style wire rope cutter, Morse-Starrett 101
WR-HYDRAULIC	Hydraulic-style wire rope cutter, Morse-Starrett W-075
WR-RATCHET	Ratchet-style wire rope cutter, Cooper Tools 8690 TN

NOTE: All cutters for wire rope diameters of up to 3/4 in • 19 mm.

WR-IMPACT



WR-HYDRAULIC



WR-RATCHET



# Load weighing devices by Micelect

cCSAus certification  
pending except  
as noted



## ILC3 load weighing device (mounts on hoist ropes above car - cCSAus certified)

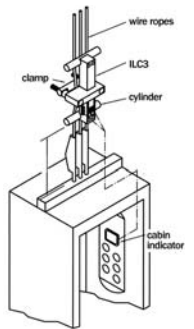
Part Number	Description	Electrical Information
LW-ILC3-M-STD	Load weighing device with three relay outputs and cable connection, for 1:1 roping (13,200 lbs • 6000 kg capacity)*, automatic calibration - no test weights required, accurate to within 0.5%. Select spacers, clamp (below) and optional cab display (next page)	24 - 48 VDC, 3 relays, 250V@3A
LW-ILC3-M-ANLOG	Load weighing device with analog output, like above but with 0-20, 4-20 or 0-24 mA analog output	0-20, 4-20 or 0-24 mA analog output

ILC3



## LMC load weighing device (mounts on hoist ropes in overhead)

Part Number	Description	Electrical Information
LW-LMC	Load weighing device (sensor only), for 2:1 (17,600 lbs • 8000 kg capacity)* or 4:1 roping (35,200 lbs • 16000 kg capacity)*, automatic calibration - no test weights required, accurate to within 0.5%. Select control unit, spacers, clamp (below) and optional cab display (next page)	
LW-3DSTD	Control unit for LMC with three relay outputs	100 - 240 VAC, 3 relays, 250V@3A
LW-ANLOG	Control unit for LMC with analog output, like above but with 0-20, 4-20 or 0-24 mA analog output	0-20, 4-20 or 0-24 mA analog output

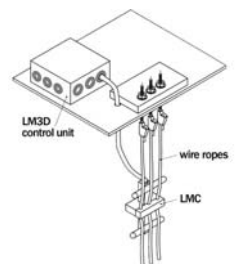


## Clamps and spacers (for ILC3 and LMC load weighing devices)

Part Number	Description
LW-ILC3-CLAMP-2	ILC3 size 2 clamp, 3 to 4-3/8" • 76 to 115 mm of rope spread, two LW-SPACER required
LW-ILC3-CLAMP-3	ILC3 size 3 clamp, 4-1/2 to 6-1/4" • 116 to 160 mm of rope spread, two LW-SPACER required
LW-ILC3-CLAMP-4	ILC3 size 4 clamp, 6-3/8 to 7-3/8" • 161 to 188 mm of rope spread, two LW-SPACER required
LW-ILC3-CLAMP-5	ILC3 size 5 clamp, 7-1/2 to 10-1/4" • 189 to 263 mm of rope spread, four LW-SPACER required
LW-ILC3-CLAMP-6	ILC3 size 6 clamp, 10-3/8 to 12 1/2" • 264 to 318 mm of rope spread, four LW-SPACER required
LW-LMC-CLAMP-3	LMC size 3 clamp, 3 to 4-3/8" • 76 to 115 mm of rope spread, two LW-SPACER required
LW-LMC-CLAMP-4	LMC size 4 clamp, 4-1/2 to 6-1/4" • 116 to 160 mm of rope spread, two LW-SPACER required
LW-LMC-CLAMP-5	LMC size 5 clamp, 6-3/8 to 7-3/8" • 161 to 188 mm of rope spread, four LW-SPACER required
LW-LMC-CLAMP-6	LMC size 6 clamp, 7-1/2 to 8-1/2" • 189 to 225 mm of rope spread, four LW-SPACER required
LW-LMC-CLAMP-7	LMC size 7 clamp, 8-5/8 to 10 3/8" • 226 to 263 mm of rope spread) four LW-SPACER required
LW-SPACER-38	Spacer for ILC3 and LMC, 3/8" • 10 mm, two required for clamp sizes 2, 3 and 4, four for clamp sizes 5, 6 and 7
LW-SPACER-12	Spacer for ILC3 and LMC, 1/2" • 13 mm, two required for clamp sizes 2, 3 and 4, four for clamp sizes 5, 6 and 7
LW-SPACER-58	Spacer for ILC3 and LMC, 5/8" • 16 mm, two required for clamp sizes 2, 3 and 4, four for clamp sizes 5, 6 and 7
LW-SPACER-1116	Spacer for ILC3 and LMC, 11/16" • 17.5 mm, two required for clamp sizes 2, 3 and 4, four for clamp sizes 5, 6 and 7
LW-SPACER-34	Spacer for ILC3 and LMC, 3/4" • 19 mm, two required for clamp sizes 2, 3 and 4, four for clamp sizes 5, 6 and 7

\* call if your cab weight + capacity is more

LMC



Wire rope

# Load Weighing Devices by Micelect



## WR load weighing device (mounts on individual ropes above car)

Part Number	Description	Electrical Information
LW-WR-SENSOR-38	WR load weighing device, for individual 3/8" • 10 mm ropes (sensor only) - control unit required (see below) The WR attaches to individual ropes, operating capacity of 2200 lbs • 1000 kg per rope. Features automatic calibration - no test weights required. Up to eight WR sensors can be wired into a single LW-3DSTD, LW-ANLOG or LW-MWR control unit.	
LW-WR-SENSOR-12	WR load weighing device, for individual 1/2" • 13 mm ropes (sensor only) - control unit required (see below) Like above except for 1/2" • 13 mm ropes.	
LW-WR-SENSOR-58	WR load weighing device, for individual 5/8" • 16 mm ropes (sensor only) - control unit required (see below) Like above except for 5/8" • 16 mm ropes.	
LW-3DSTD	Control unit for WR load weighing devices, with three relay outputs, for 2 - 8 ropes NOTE: also used with LW-CCP-SENSOR and LW-CAB-SENSOR below.	100 - 240 VAC, 3 relays, 250V@3A
LW-ANLOG	Control unit for WR load weighing devices, like above but with 0-20, 4-20 or 0-24 mA analog output NOTE: also used with LW-CCP-SENSOR and LW-CAB-SENSOR below.	0-20, 4-20 or 0-24 mA analog output
LW-MWR-STAND-4	Control unit for WR load weighing devices, measures rope tension of up to four ropes, with three relay outputs, LCD display included	100 - 240 VAC, 3 relays, 250V@3A
LW-MWR-ANLOG-4	Control unit for WR load weighing devices, like above with 0-20, 4-20 or 0-24 mA analog output	0-20, 4-20 or 0-24 mA analog output
LW-MWR-STAND-8	Control unit for WR load weighing devices, measures rope tension of up to eight ropes, with three relay outputs, LCD display included	100 - 240 VAC, 3 relays, 250V@3A
LW-MWR-ANLOG-8	Control unit for WR load weighing devices, like above with 0-20, 4-20 or 0-24 mA analog output	0-20, 4-20 or 0-24 mA analog output



LW-3DSTD



## Under machine sensor (mounts under machine bedplate)

Part Number	Description
LW-CCP-SENSOR	Under machine bedplate sensor, minimum of two sensors recommended, up to 4 may be used NOTE: LW-3DSTD or LW-ANLOG control unit required (see above) - test weights required for calibration

LW-CCP-SENSOR



## Under cab sensor (mounts under cab)

Part Number	Description
LW-CAB-SENSOR	Under cab sensor, sold in multiples of 2 (4 to 16 may be used), features automatic calibration - no test weights required. NOTE: LW-3DSTD or LW-ANLOG control unit required (see above)

LW-CAB-SENSOR



## Portable load weighing device (to weigh car and counterweight)

Part Number	Description
LW-MW1-8800LBS	Portable weighing unit, (8,800 lbs • 4,000 kg capacity) for measurement of elevator car and counterweight
LW-MW1-13200LBS	Portable weighing unit, (13,200 lbs • 6,000 kg capacity) for measurement of elevator car and counterweight
LW-MW1-22000LBS	Portable weighing unit, (22,000 lbs • 10,000 kg capacity) for measurement of elevator car and counterweight

LW-MW1-8800LBS



## Cab displays (for all load weighing devices except portable devices)

Part Number	Description
LW-CABDISPLA-ML	Cab display, overload shown by flashing and intermittent buzzing
LW-CABDISPLA-LPM	Cab display, load shown by progressively lit LEDs, overload by flashing and intermittent buzzing NOTE: cannot be used with LM-ILC3-M-ANLOG

LW-CABDISPLA-ML



LW-CABDISPLA-LPM



# Seismic Components

## Stocked at our Commerce, CA location

cULus Listed  
ANSI/ASME A17.1/A17.5,  
CSA B44/B44.1,  
ASCE 25-97

### Q2500 seismic sensor

Part Number	Description
-------------	-------------

<b>QTRC-2500-PV</b>	<b>Seismic sensor</b> , with LCD interface and meter function, contacts can switch up to 5A @ 240 VAC, uses 110 - 240 VAC 50-60 Hz power
---------------------	--

The **Draka Q2500-PV** seismic sensor is a user-friendly system that detects and records vertical and horizontal seismic-ground movements.

The system stores the peak acceleration (measured in Gs) in each axis for up to 15 seismic events and displays it on the easy-to-understand LCD interface.

Alarm levels are preset to meet elevator safety code or can be user-defined.

Latching contacts can be remotely reset.

The unit also functions as a meter that displays real-time acceleration and angle of deflection. It meets or exceeds ASCE 25-97, ASME 17.5, and CSA B44.1

QTRC-2500-PV



### Counterweight displacement kit (ring on a string)

Part Number	Description
-------------	-------------

<b>CDH-R8</b>	<b>Counterweight displacement kit</b> , mounts to 8 lb. guide rails (order cable [CDH-L500, CDH-L1000 or CDH-L1500] separately)
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<b>CDH-R12</b>	<b>Counterweight displacement kit</b> , mounts to 12 and 16 lb. guide rails (order cable [CDH-L500, CDH-L1000 or CDH-L1500] separately)
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<b>CDH-L500</b>	<b>Cable</b> , 500 ft • 152 m length, 1/16 in • 1.6 mm diameter, with thimbles and clips (use for up to 250' • 71 m of rise)
-----------------	--

<b>CDH-L1000</b>	<b>Cable</b> , 1000 ft • 304 m length, 1/16 in • 1.6 mm diameter, with thimbles and clips (use for up to 500' • 152 m of rise)
------------------	--

<b>CDH-L1500</b>	<b>Cable</b> , 1500 ft • 456 m length, 1/16 in • 1.6 mm diameter, with thimbles and clips (use for up to 750' • 223 m of rise)
------------------	--

<b>040219</b>	<b>Cable</b> , cut to length, does not include attachment hardware, please specify length
---------------	---

<b>79-103</b>	<b>Thimble</b> , for 1/16 in • 1.6 mm cable attachment (replacement part)
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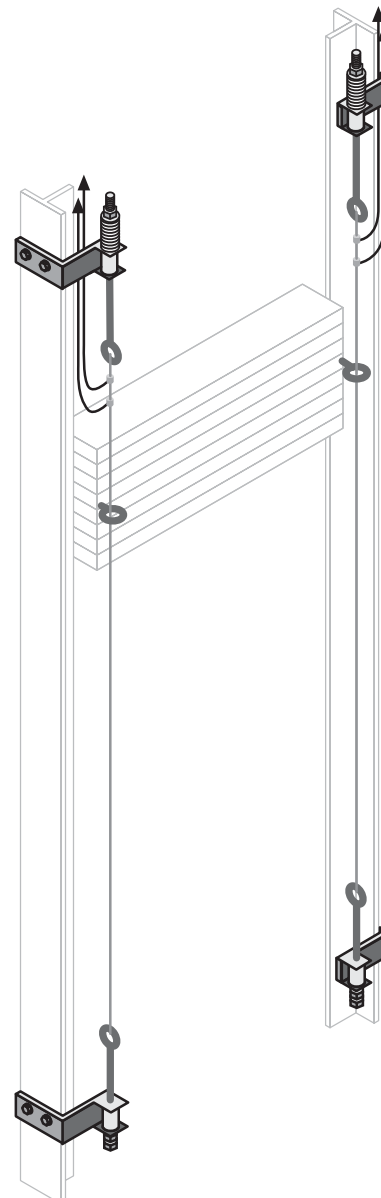
<b>79-104</b>	<b>Wire rope clip</b> , for 1/16 in • 1.6 mm cable attachment (replacement part)
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<b>36-178</b>	<b>Wire cutters</b> , for cutting steel cable
---------------	---

The Counterweight Displacement Kit is an easily installed "ring on a string" hardware kit that, when used in conjunction with a relay circuit (not included), can signal the controller if a counterweight has been displaced due to a seismic event.

Two steel cables run parallel to the counterweight guide rails and pass through a pair of eyebolts located on the counterweight. If an eyebolt contacts a cable (which indicates a counterweight displacement), the circuit is completed and the controller stops and redirects the car immediately.

Order one kit and one cable per elevator - the kit attaches to BOTH counterweight rails (as shown). Note that the kit is specified for the rail size and the cable ordered should be at least twice the rise of the elevator - the cable will be cut and installed on both rails.



# Seismic Components

Stocked at our Commerce, CA location



## Seismic hardware

Part Number	Description
10-021	Screw-in connector, for 1/2" flex
10-022	Screw-in connector, for 3/4" flex
10-023	Screw-in connector, for 1" flex
10-035	Screw-in connector, for 1-1/4" flex
10-029	Screw-in connector, for 1-1/2" flex
10-036	Screw-in connector, for 2" flex
12-100	Screw-in coupling, for 1" flex
12-101	Screw-in coupling, for 1/2" flex
12-102	Screw-in coupling, for 3/4" flex
11-045	90° screw-in connector (Jake L), for 1/2" flex
11-046	90° screw-in connector (Jake L), for 3/4" flex
11-064	90° screw-in connector (Jake L), for 1" flex
12-012	Combination connector, for 1/2" EMT to flex
12-013	Combination connector, for 3/4" EMT to flex
30-052	LB access fitting, for 1/2" threaded, with cover & gasket
30-058	LB access fitting, for 3/4" threaded, with cover & gasket
30-053	LB access fitting, for 1" threaded, with cover & gasket
30-065	LB access fitting, for 1-1/4" threaded, with cover & gasket
30-066	LB access fitting, for 1-1/2" threaded, with cover & gasket
30-046	LB access fitting, for 2" threaded, with cover & gasket
30-051	LB access fitting, for 2-1/2" threaded, with cover & gasket
30-061	LR access fitting, for 1/2" threaded, with cover & gasket
30-049	LR access fitting, for 3/4" threaded, with cover & gasket
30-113	LR access fitting, for 1" threaded, with cover & gasket
30-084	LR access fitting, for 1-1/4" threaded, with cover & gasket
30-088	LR access fitting, for 1-1/2" threaded, with cover & gasket
30-080	LR access fitting, for 2" threaded, with cover & gasket
30-116	LR access fitting, for 2-1/2" threaded, with cover & gasket
30-056	LL access fitting, for 1/2" threaded, with cover & gasket
30-086	LL access fitting, for 3/4" threaded, with cover & gasket
30-114	LL access fitting, for 1" threaded, with cover & gasket
30-083	LL access fitting, for 1-1/4" threaded, with cover & gasket
30-087	LL access fitting, for 1-1/2" threaded, with cover & gasket
30-079	LL access fitting, for 2" threaded, with cover & gasket
30-054	LL access fitting, for 2-1/2" threaded, with cover & gasket
30-106	TEE access fitting, for 1/2" threaded, with cover & gasket
30-107	TEE access fitting, for 3/4" threaded, with cover & gasket
30-115	TEE access fitting, for 1" threaded, with cover & gasket
30-044	TEE access fitting, for 1-1/4" threaded, with cover & gasket
30-105	TEE access fitting, for 1-1/2" threaded, with & and gasket
30-108	TEE access fitting, for 2" threaded, with cover & gasket

10-022



11-046



12-013



12-100



30-052



30-061



### Component Specifications

#### Seismic hardware

offers more secure connections than traditional hardware and is recommended for regions with higher levels of seismic activity.

Seismic



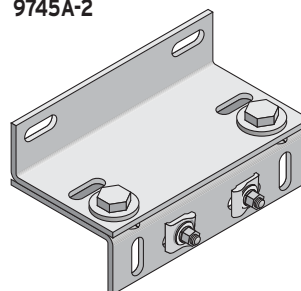
# Seismic Components

Stocked at our Commerce, CA location

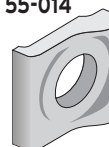
## Seismic rail brackets and rail clips

Part Number	Description	Size
9743A-1	Small rail bracket assembly, with rail clips	2-1/4 to 3-1/4"
9743A-2	Small rail bracket assembly, with rail clips	3 to 4-3/4"
9750A-1	Small rail bracket assembly, without rail clips	2-1/4 to 3-1/4"
9750A-2	Small rail bracket assembly, without rail clips	3 to 4-3/4"
9745A-1	Large rail bracket assembly, with rail clips	4 to 6-3/4"
9745A-2	Large rail bracket assembly, with rail clips	5-3/4 to 8-1/8"
9745A-3	Large rail bracket assembly, with rail clips	7-1/2 to 10-1/4"
9749A-1	Large rail bracket assembly, without rail clips	4 to 6-3/4"
9749A-2	Large rail bracket assembly, without rail clips	5-3/4 to 8-1/8"
9749A-3	Large rail bracket assembly, without rail clips	7-1/2 to 10-1/4"
55-012	Forged rail clip, for 8 lb. rail	
55-013	Forged rail clip, for 12 lb. rail	
55-014	Forged rail clip, for 16 lb. rail	

9745A-2



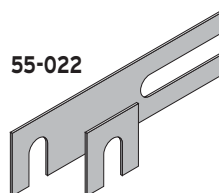
55-014



## Rail bracket shims

Part Number	Size inches	Thickness inches	Cutout(s) inches
55-020	8 x 2	.030	11/16
55-021	8 x 2	.060	11/16
55-022	8 x 2	.105	11/16
55-023	9-3/8 x 2	.030	13/16
55-024	9-3/8 x 2	.060	13/16
55-025	9-3/8 x 2	.105	13/16
55-026	3 x 2	.015	13/16

55-022



55-026

## Concrete/masonry inserts

(designed to ASTM 17.1)

Part Number	Description	Seismic Zones
INSERT-12	Insert, 12" long	0 and 1
INSERT-18	Insert, 18" long	0 and 1
INSERT-24	Insert, 24" long	0 and 1
INSERT-30	Insert, 30" long	0 and 1
INSERT-36	Insert, 36" long	0 and 1
INSERT-48	Insert, 48" long	0 and 1
INSERT-HD-12	Insert, 12" long	2 to 4
INSERT-HD-18	Insert, 18" long	2 to 4
INSERT-HD-24	Insert, 24" long	2 to 4
INSERT-HD-30	Insert, 30" long	2 to 4
INSERT-HD-36	Insert, 36" long	2 to 4
INSERT-HD-48	Insert, 48" long	2 to 4

## Spring nuts

Part Number	Description
INSERT-NUT-12	Spring nut, 1/2"
INSERT-NUT-58	Spring nut, 5/8"
INSERT-NUT-34	Spring nut, 3/4"

INSERT-NUT-58



INSERT-18



INSERT-HD-30



The structural engineer will determine the necessary safety factor from the building codes per job.

### IMPORTANT NOTES ON INSERTS

#### Seismic Zones 0 and 1

Pullout force = 4,000 lbs  
12" version = 2,500 lbs  
Design strength  
4" min. edge distance

Min. concrete/grout strength = 2,000 psi using two 1/2" thru 3/4" spring nuts

#### Seismic Zones 2 through 4

Pullout force = 7,400 lbs  
12" version = 4,900 lbs  
Design strength  
4" min. edge distance

Min. concrete/grout strength = 2,000 psi using two 1/2" thru 3/4" spring nuts

# Hydraulic Control Valves (see page 124 for an order form)

by EECO (available with or without coils)



## UV-5A and UV-7B series

Part Number	Pressure Range psi • bars	Flow Rate Range GpM • LpM	Operating Temp F • C	Features
UV-5AT	90/ 800 • 6.2/ 55.2	10/ 200 • 38/760	80° / 150° • 27° / 65°	Full temperature compensation
UV-5ATC	90/ 800 • 6.2/ 55.2	10/ 200 • 38/760	80° / 150° • 27° / 65°	Full temperature and pressure compensation
UV-7B	50/ 500 • 3.2/ 38	75/ 375 • 284/ 1420	80° / 150° • 27° / 65°	Low pressure/high flow rate
UV-7BC	50/ 500 • 3.2/ 38	75/ 375 • 284/ 1420	80° / 150° • 27° / 65°	Low pressure/high flow rate with constant down speed

Part Number	Description
5365	UV-5AT & UV-5ATC 2" grooved adapter fitting
5245	Low pressure switch

The UV-5AT hydraulic control valve is equipped with full temperature compensation over its entire operational range (80° to 150°F). Modifications to the valve body as well as improvements to its internal parts have drastically simplified UV-5AT down adjustments as well as making it the quietest valve on the market.

The UV-5ATC offers both temperature and pressure compensation, which is built into the redesigned down piston assembly. It maintains constant down speed between no load and full load conditions. No field adjustments are required.

The UV-7B hydraulic control valve designed to deliver low pressure/high flow rate performance.

The UV-7BC adds full pressure compensation for constant down speed to the UV-7B. The pressure compensation system is built into a redesigned down piston assembly and maintains constant down speed between no load and full load conditions. No field adjustments are required.

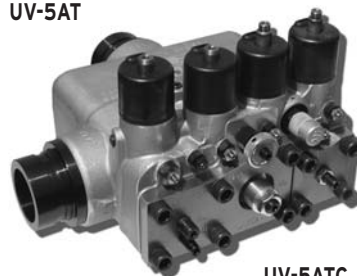
These valves feature high temperature Viton seals and a lightweight, heat-treated, high strength aluminum body. All control adjustments are made from the front of the valve. Moving parts are restricted to sliding sealed pistons. The valve has a fully adjustable pressure relief valve.

Optional features include:

- Pressure gage quick disconnect
- 0-1000 psi liquid-filled pressure gage
- Low pressure switch
- Dual voltage down leveling coil for emergency (battery back up) lowering
- Constant down speed (UV-5ATC only)

See page 124 for a quotation/order form to assist you in pricing or ordering the correct valve.

UV-5AT



UV-5ATC



UV-7B



### Component Specifications

#### Gage Ports

Ram (jack) and pump gage ports are 1/8" NPT and are provided on top of the valve.

#### Recommended oils

A good brand of 32 grade turbine oil with a viscosity of 150 SSU at 100° F (38°C). Other compatible oils are 46 grade and biodegradable (vegetable) oil

#### Line Connection UV-5

Factory standard for each of the three valve ports is 2" NPT. Optional 2" Victaulic connections are also available for all three valve ports.

#### Line Connection UV-7

Factory standard for each of the three valve ports is 2.5" NPT.

#### CSA-B44/UL

#### Approved Solenoid Coils for UV-5

110 VAC, 110 VAC/12 VDC (dual voltage), 208 VAC, 220 VAC/110 VDC (dual voltage), 440 VAC/220 VDC (dual voltage). For other coil options, please contact EECO.

#### CSA-B44/UL

#### Approved Solenoid Coils for UV-7

110 VAC, 208 VAC, 220 VAC, 440 VAC, 110 VDC, 220 VDC. For other coil options, please contact EECO.

# Hydraulic Accessories

## Isolation couplings, mufflers, rupture valves and cushion clamps

### Isolation couplings (by EECO)

Part Number	Description	Size
2060A-1	Grooved to grooved coupling	2"
2060A-2	Grooved to National Pipe Thread (NPT) coupling	2"
2060A-3	NPT to NPT coupling	2"
2070A-1	Grooved to grooved coupling	2-1/2"
2070A-2	Grooved to NPT coupling	2-1/2"
2070A-3	NPT to NPT coupling	2-1/2"
2080A-1	Grooved to grooved coupling	3"
2080A-2	Grooved to NPT coupling	3"
2080A-3	NPT to NPT coupling	3"

2060A-1



### Mufflers (by EECO)

Part Number	Description	Size/Throughput
MU-2000-1	Muffler, 2" GRV to 2" GRV	6-5/8" OD, 11-3/4" long / 185 GPM max.
MU-2000-2	Muffler, 2" GRV to 2" NPT	6-5/8" OD, 11-3/4" long / 185 GPM max.
MU-2000-4	Muffler, 2" NPT to 2" NPT	6-5/8" OD, 11-3/4" long / 185 GPM max.
MU-2500-1	Muffler, 2.5" GRV to 2.5" GRV	8-5/8" OD, 11-3/4" long / 260 GPM max.
MU-2500-2	Muffler, 2.5" GRV to 2.5" NPT	8-5/8" OD, 11-3/4" long / 260 GPM max.
MU-2500-4	Muffler, 2.5" NPT to 2.5" NPT	8-5/8" OD, 11-3/4" long / 260 GPM max.
MU-2500-5	Muffler, 2.5" NPT to 3" GRV	8-5/8" OD, 11-3/4" long / 260 GPM max.
MU-2500-6	Muffler, 2.5" GRV to 3" GRV	8-5/8" OD, 11-3/4" long / 260 GPM max.
MU-3000-1	Muffler, 3" GRV to 3" GRV	8-5/8" OD, 11-3/4" long / 350 GPM max.
MU-3000-2	Muffler, 3" GRV to 3" NPT	8-5/8" OD, 11-3/4" long / 350 GPM max.
MU-3000-3	Muffler, 3" NPT to 3" NPT	8-5/8" OD, 11-3/4" long / 350 GPM max.

MU-2000-4



### Rupture valves

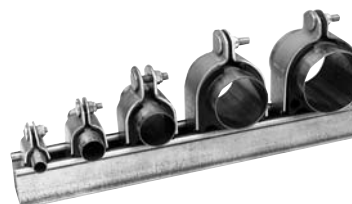
Part Number	Description	Flow Rate/Max. Pressure
PRV-2-NPT	Pipe rupture valve, (2") - NPT	111 to 208 GPM / 1200 PSI
PRV-2-GRV	Pipe rupture valve, (2") - Grooved	111 to 208 GPM / 1200 PSI
PRV-2.5-NPT	Pipe rupture valve, (2.5") - NPT	209 to 318 GPM / 1000 PSI
PRV-2.5-GRV	Pipe rupture valve, (2.5") - Grooved	209 to 318 GPM / 1000 PSI
PRV-3-NPT	Pipe rupture valve, (3") - NPT	319 to 546 GPM / 800 PSI
PRV-3-GRV	Pipe rupture valve, (3") - Grooved	319 to 546 GPM / 800 PSI

PRV-2-NPT



### Cushion clamps

Part Number	Description
FS-1400P-200	Cushion clamp, for 2" O.D. pipe
FS-1400P-250	Cushion clamp, for 2-1/2" O.D. pipe
FS-1400P-300	Cushion clamp, for 3" O.D. pipe
FS-1400P-400	Cushion clamp, for 4" O.D. pipe



# Hydraulic Accessories

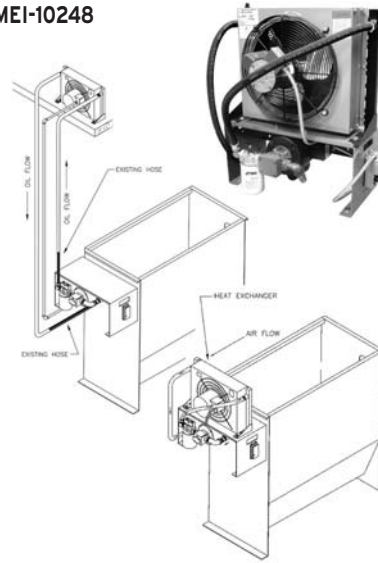


## Oil cooler (by Minnesota Elevator - components CSA certified)

Part Number	Description
MEI-10248	Oil cooler, with filter

The MEI Oil Cooler reduces the oil temperature by nearly 40°F, (depending on site conditions). The cooler also filters the oil which results in smoother stops and starts, improved levelling and extended component life. The oil cooler can be mounted directly or remotely. NOTE: Remote installations should not exceed 110 ft horizontal or 55 ft vertical from tank.

MEI-10248



## Silencer (by Minnesota Elevator)

Part Number	Description
MEI-19317	Silencer, 220 max. GPM, fits 2" x 2" grooved coupling 13-1/4" L x 4-5/8" O.D., 28 lbs., rated to 1000 psi
MEI-19319	Silencer, 360 max. GPM, fits 2-1/2" x 3" grooved coupling, 13-1/4" L x 4-5/8" O.D., 28 lbs., rated to 1000 psi

The MEI Silencer uses a bladder system with air pressure to reduce excessive noise that may be generated by a hydraulic system.

MEI-19317



## Hydraulic pressure sensor (by Micelect - cCSAus certified)

Part Number	Description	Electrical Information
LW-SPB-M-NPT-STD	Hydraulic pressure sensor, with 2 relay outputs, includes 1/4" NPT female fitting, automatic calibration - no test weights required NOTE: roller guides are required at least on top or on bottom of cab.	24 - 48 VAC 2 relays, 250V@3A
LW-SPB-M-NPT-020	Hydraulic pressure sensor, like above but with 0-20 mA analog output	0-20 mA analog output

The Micelect LW-SPB hydraulic pressure sensors mount to the hydraulic power unit. Pressure measurements are converted into outputs. Actual pressure can be displayed as well.

The LW-SPB sensors are compatible with cab displays shown on the bottom of page 70.

LW-SPB-M-NPT-STD



## Pipe stands adjustable to 22" height

Part Number	Description
PIPE22-15	Pipe stand, for 1-1/2" O.D. pipes
PIPE22-2	Pipe stand, for 2" O.D. pipes
PIPE22-25	Pipe stand, for 2-1/2" O.D. pipes
PIPE22-3	Pipe stand, for 3" O.D. pipes

PIPE22-2





# Hydraulic Accessories

## by Minnesota Elevator

### Pully Bully lift/puller for submersible pumps/motors

Part Number	Description
MEI-17936	Pully Bully, submersible pump/motor puller with drip pan/workbench and dolly

Draka Elevator Products offers the MEI Pully Bully, a safe and economical method that saves you time and frustration when servicing submersible pumps/motors. The Pully Bully rolls easily into the machine room. The hoisting frame detaches from the cart which serves as a workbench/drip pan that collects the excess oil. Use the chain hoist to rig and pull the pump/motor out of the power unit, then set the pump/motor on the cart/drip pan and make the necessary repairs. It is lightweight, yet complies with ASME B30.17 - 1998.

PULLY BULLY IN USE



PULLY BULLY FOLDED FOR STORAGE



### Submersible power unit

Minnesota Elevator submersible hydraulic power units are now available through Draka EP. These power units are available with several options such as silencer, tank heater, low pressure switch and more. These units are competitively priced, quiet, compact and available with very short lead times.

Specifying, quoting and ordering submersible power units is made easy with the online 'Configurator.' Contact your Draka representative or Draka customer service at 877-372-5237 for complete information on how to register for the Configurator.



# Hydraulic Ball Valves and Pipe Fittings

Grooved ball valves and pipe fittings (by Grinnell)



## Grooved ball valves

Part Number	Description/Size	Compare to Victaulic®
GRN-GBLV020	Ball valve, 2"	726
GRN-GBLV025	Ball valve, 2-1/2"	726
GRN-GBLV030	Ball valve, 3"	726
GRN-GBLV040	Ball valve, 4"	726



## Threaded ball valves

Part Number	Description/Size
TBLV-020	Threaded ball valve, 2"
TBLV-025	Threaded ball valve, 2-1/2"
TBLV-030	Threaded ball valve, 3"
TBLV-040	Threaded ball valve, 4"

## Flexible couplings

Part Number	Description/Size	Compare to Victaulic®
GRN-70720TS	Flexible coupling, 2"	77
GRN-70725TS	Flexible coupling, 2-1/2"	77
GRN-70730TS	Flexible coupling, 3"	77
GRN-70740TS	Flexible coupling, 4"	77



## Rigid couplings

Part Number	Description/Size	Compare to Victaulic®
GRN-77020TS	Rigid coupling, 2"	HP-70
GRN-77025TS	Rigid coupling, 2-1/2"	HP-70
GRN-77030TS	Rigid coupling, 3"	HP-70
GRN-77040TS	Rigid coupling, 4"	HP-70



## Elbows and fittings

Part Number	Description/Size	Compare to Victaulic®
GRN-21020S	90° elbow, 2"	10
GRN-21025S	90° elbow, 2-1/2"	10
GRN-21030S	90° elbow, 3"	10
GRN-21040S	90° elbow, 4"	10
GRN-20120S	45° elbow, 2"	11
GRN-20125S	45° elbow, 2-1/2"	11
GRN-20130S	45° elbow, 3"	11
GRN-20140S	45° elbow, 4"	11
GRN-31220S	22.5° elbow, 2"	12
GRN-31225S	22.5° elbow, 2-1/2"	12
GRN-31230S	22.5° elbow, 3"	12
GRN-31240S	22.5° elbow, 4"	12
GRN-31320S	11.25° elbow, 2"	13
GRN-31325S	11.25° elbow, 2-1/2"	13
GRN-31330S	11.25° elbow, 3"	13
GRN-31340S	11.25° elbow, 4"	13
GRN-S85320	Y strainer, 2"	32
GRN-S85325	Y strainer, 2-1/2"	32
GRN-S85330	Y strainer, 3"	32
GRN-S85340	Y strainer, 4"	32

90° ELBOW



45° ELBOW



Part Number	Description/Size	Compare to Victaulic®
GRN-21920S	Tee, 2"	20
GRN-21925S	Tee, 2-1/2"	20
GRN-21930S	Tee, 3"	20
GRN-21940S	Tee, 4"	20
GRN-26020S	End cap, 2"	60
GRN-26025S	End cap, 2-1/2"	60
GRN-26030S	End cap, 3"	60
GRN-26040S	End cap, 4"	60
GRN-72858	Reducer, 2-1/2 to 2"	50
GRN-72863	Reducer, 3" to 2"	50
GRN-72865	Reducer, 3" to 2-1/2"	50
GRN-72870	Reducer, 4" to 2"	50
GRN-72872	Reducer, 4" to 2-1/2"	50
GRN-72873	Reducer, 4" to 3"	50
GRN-20NITRILS	Nitrile gasket, 2"	
GRN-25NITRILS	Nitrile gasket, 2-1/2"	
GRN-30NITRILS	Nitrile gasket, 3"	
GRN-40NITRILS	Nitrile gasket, 4"	

TEE FITTING



END CAP



## Mastic tape Scotch® 2210

Part Number	Description/Size
75735A66	Mastic tape, 4" wide in 10' rolls, for protection/sealing of underground pipe and fittings

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# Roll Groovers and Accessories

Manual and powered (by Pace Machinery Group, Inc.)

## 1039 Mini-Mite™ manual roll groover

Part Number	Compare to Victaulic®	Description
GRN-1039	VE-26S	Roll groover with hand-crank, including depth gauges

The Pace 1039 Mini-Mite™ Roll Groover is designed for use on 1-1/4" to 6" Schedule 40 pipe. The Mini-Mite is self-contained and can be operated with its own multi-function crank or quickly chucked to a Ridgid Model 300 without removing the gearbox. All hex drives on the Mini-Mite are 15/16", so one wrench fits everything. A multi-step depth gauge is included

GRN-1039



## 1041 roll groover

Part Number	Compare to Victaulic®	Description
GRN-1041	VE-226M	Roll groover, for use with drives, includes depth gauges

The Pace 1041 Roll Groover is light, portable and easily mounts to a wide range of popular power 3/8" square ratchet drives, including the Victaulic® VPD752, Ridgid® 300/535/1224/1822 and Oster® 310 power drives (not included). Trial grooving depth is easily set with the supplied multi-step feeler gauges. An integral overload device guards against undue load being applied through the ratchet

GRN-1041



## Pipe support stand

Part Number	Description
GRN-4031	Pipe support stand, for 1 to 4" dia.

GRN-4031



## Universal go/no go gauge

Part Number	Description
GRN-4044	Universal go/no go gauge, for 2 to 8" dia.

GRN-4044



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# Car Signal Components

## for Dover, GAL and Haughton

This catalog lists our most popular parts; thousands of others are available. Call or visit our website for more information.

### Dover car signal components

Part Number	OEM Part Number	Description
<b>DB-8D</b>	9884075, 107407	<b>Pushbutton base assembly</b> , 2 N.O. contacts
<b>DB-8F-</b>		<b>Pushbutton assembly</b> , complete, 2 N.O. contacts, includes DB-52C lamp holder assembly and ML-57 (28V lamp), specify marking, i.e. "DB-8F-1", and if resistor is required on lamp socket
<b>DB-8F-DOWN_ARROW</b>		<b>Pushbutton assembly</b> , down arrow, complete, 2 N.O. contacts Specify if resistor is required on lamp socket.
<b>DB-8F-UP_ARROW</b>		<b>Pushbutton assembly</b> , up arrow, complete, 2 N.O. contacts. Specify if resistor is required on lamp socket.
<b>DB-32</b>	9730266, 130AD2	<b>Lantern lens</b> , arrow, 2-3/4" x 2-3/4" face, 3" square base
<b>DB-52C</b>	9778147, 108149 9778174, 112639, 10814	<b>Lamp holder assembly</b> , with resistor for ML-93 (14V lamp) and ML-57 (28V lamp)
<b>DB-77A</b>	9817219, 171AV1, 171AV4	<b>Pushbutton assembly</b> , complete, with two microswitches includes ML-108 (28V lamp)
<b>DKS-35</b>	9746055, 171AR6	<b>Key switch</b> , "OFF/SERV./INDEP" (9), 2 position, removable both, vertical, key #H2395
<b>DKS-39</b>	9746092, 171AR10	<b>Key switch</b> , "OFF/ON" for car call lockout, 2 position, removable both, vertical, key #H1848
<b>DKS-40</b>	9746109, 171AR11	<b>Key switch</b> , "OFF/ON" for car call register, 2 position, spring return, vertical, key #H1848
<b>DKS-41</b>	9746110, 171AR12	<b>Key switch</b> , "OFF/ON" for hall register, terminal, 2 position, spring return, horizontal, key #H1848
<b>DKS-57A</b>	171API	<b>Microswitch</b> , 100 gram pressure sensitivity, used with DB-77A, DKS-40 and DKS-41

DB-8F-UP\_ARROW



DB-32



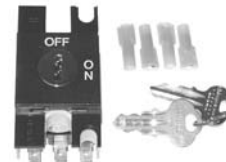
DB-52C



DB-77A



DKS-40



DKS-41



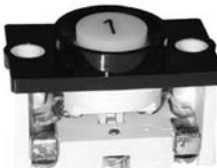
DKS-57A



### GAL car signal components

Part Number	OEM Part Number	Description
<b>GB-1B-</b>	RRB	<b>Pushbutton module</b> , button assembly complete, 2 N.O. contacts, 120V, specify marking, i.e. "GB-1B-1", vertical or horizontal mount, includes ML-1 (120V lamp), black halo/mounting plate with white illuminated button with black marking, button cap 7/8" dia., halo 1-3/8" O.D., mounting holes 2" center to center

GB-1B-1



HB-1-



### Haughton car signal components

Part Number	OEM Part Number	Description
<b>HB-1-</b>	3-40080-	<b>Pushbutton</b> , for type H pushbutton assembly, white button with black marking, face 1-3/32" dia. x 1-3/32" L, specify marking, i.e. "HB-1-3"
<b>HB-1B</b>	3-40218-14	<b>Collar</b> , black, for type H pushbuttons
<b>HB-1C</b>	3-40150-54	<b>Switch element</b> , 2 N.O., for type H pushbuttons, includes lamp socket, does not include ML-115 (28V lamp)

HB-1B



HB-1C





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## Car Signal Components for Kone/Montgomery, Otis and Payne

### Kone/Montgomery car signal components

Part Number	OEM Part Number	Description
<b>MB-1-</b>	P16732 P8986	<b>Pushbutton assembly</b> , square white button with black border, 1" x 1", Specify marking, i.e. "MB-1-ARROW", does not include MBL-1 lamp socket or ML-17 (155V lamp) or ML-18 (120V lamp)
<b>MB-1A-</b>	P14426	<b>Pushbutton and stem only</b> , for MB-1, Specify marking, i.e. "MB-1A-ARROW"
<b>MB-1R-</b>	P5249	<b>Pushbutton assembly</b> , circular white button 7/8" dia., Specify marking, i.e. "MB-1R-ARROW"
<b>MB-1RA-</b>	P22207	<b>Pushbutton and stem only</b> , for MB-1R. Specify marking, i.e. "MB-1RA-ARROW"

### Otis car signal components

Part Number	OEM Part Number	Description
<b>OB-60-</b>	7069AF-	<b>Pushbutton module</b> , specify marking, i.e. "OB-60-BLANK", and required p.c. board or microswitch(es)
<b>OB-78</b>	7069AH33	<b>Keyswitch module</b> , inspection
<b>OB-78F</b>	7069AH58	<b>Keyswitch module</b> , fire service, 3 pos. "ON/OFF/HOLD"
<b>OB-78G</b>	7069AH48	<b>Keyswitch module</b> , fire service, 3 pos. "ON/OFF/BYPASS"
<b>OPC-18</b>	8200KA1	<b>PC board</b> , for hall pushbutton, includes ML-108 (28V lamp) and socket
<b>OPC-18A</b>	8200KA2	<b>PC board</b> , for car pushbutton, includes ML-108 (28V lamp) and socket

### Payne car signal components

Part Number	OEM Part Number	Description
<b>PB-1</b>	M-2415E	<b>Stop switch</b> , emergency stop switch marked "ON/OFF"
<b>PB-1A</b>	M-2415EA	<b>Stop switch and alarm</b> , 1 N.O., 1 N.C.
<b>PB-2-</b>	M-2366	<b>Pushbutton assembly</b> , includes lamp socket, does NOT include ML-1 (120V lamp), specify marking, i.e. "PB-2-1"
<b>PKS-6</b>		<b>Keyswitch</b> , "OFF/ON" key removable in both positions

MB-1-ARROW



MB-1A-ARROW



MB-1R-ARROW



MB-1RA-ARROW



OB-60-BLANK



OB-78



OPC-18



PB-1 (front)



PB-1 (side)



PB-1A (front)



PB-1A (side)



PB-2-1



PKS-6



# Car Signal Components for US and Schindler/Westinghouse

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## US car signal components

Part Number	OEM Part Number	Description
US-B14	467-01006-007	Clear cap, square plastic button cap
US-B15A	167-03012-100	Stop switch assembly, square black molded plastic housing, red insert marked "PULL-EMERGENCY-STOP"
US-B15B	167-03013-100	Stop switch assembly, round black molded plastic housing, red insert marked "PULL-EMERGENCY-STOP"
US-B20	467-01001-007	Pushbutton housing, square black molded plastic housing,
US-B32A	167-03017-100 167-03010-100	Pushbutton assembly, square black housing, white button, insert, includes ML-8 (60V lamp), specify marking, i.e. "US-B32A-Door Open"
US-B37	467-05001-007	Pushbutton housing, round black molded plastic housing
US-B38	467-05006-007	Clear cap, round plastic button cap
US-B40	167-03011-100	Pushbutton assembly, round black housing, white button insert, includes ML-8 (60V lamp), specify marking, i.e. "US-B40-ALARM"
US-B50-BLANK	166-01020-702, 166-10034-100	Pushbutton assembly, "Soft Touch" style, blank, 24VDC if used in series, 48VDC if used alone
US-B50-SPACER-KIT		Pushbutton spacer kit, used to adapt old-style pushbutton with four wires, requires either US-PC14 for the car or US-PC15 for the hall
US-KS1-HALL		Fire service phase I, round keyswitch, "BYPASS/OFF/ON" for hall use, BYPASS at 10, OFF at 12, ON at 2
US-KS3	167-03046-001	Run/stop switch, round, black, two position keyswitch to replace stop switch

## Schindler/Westinghouse car signal components

Part Number	OEM Part Number	Description
SB-1	8544C17G04	Pushbutton housing, with lens
SB-2	8540C58H02	Pushbutton retainer bracket
SB-3	7283C730G02	Printed circuit board assembly, for pushbutton, two microswitch type
SB-4	7283C730G01, 998C278H11	Printed circuit board assembly, for pushbutton, one microswitch type
WB-6D	2638C89G02	Hall pushbutton station, complete, type AE, does not include ML-6 (120V lamp)

US-B32A



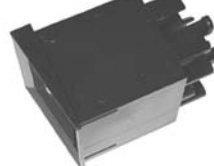
US-B38



US-B15A



US-B20



US-B37



US-B40



US-KS1-HALL



US-B15B



US-B50-BLANK



US-KS3



SB-1



SB-2



SB-3



WB-6D



# Door/Door Operator Equipment for Armor and Dover

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## Armor door/door operator equipment

Part Number	OEM Part Number	Description
ADO-4	11905-01, B326005	Hook assembly, for #1 interlock, with replaceable contact nose
ADO-7	11921-01, A466022	Roller assembly, 1-1/4" O.D. with 2-3/4" long shaft, for lever
ADO-26	11965-01, B787003	Lever assembly, for #1 interlock, R.H.
ADO-26A	11966-01, B787004	Lever assembly, for #1 interlock, L.H.

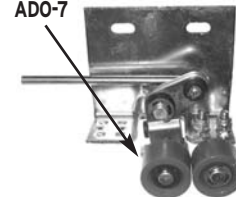
## Dover door/door operator equipment

Part Number	OEM Part Number	Description
DDO-1	9828667, 9866760	Ball joint and rod link kit, for interlock hook and Dover door clutch roller assemblies, rod 18" long
DDO-3	9838521, 9892916	Door contact base block assembly, steel spring contact blades and silver contacts on a heavy-duty insulator
DDO-3A	9838820, 40006	Idler arm with bearing, for DC-68 Mark II
DDO-5	9866760, 9838776, 9838375, 9801042, 9875219	Interlock latch assembly
DDO-18	9876686, 67668	Sheave, for DC-68 Mark II, 12" for jack shaft, mounts on DDO-3A arm assembly, replaces old style 13" sheave
DDO-15	9881980, 11819	Door guide kits, door gib assembly (replaces 118192)
DDO-15A	9782114, 118190, 76345	Gib insert, for DDO-15, gib width 1/2"
DDO-22	9863862, 63856, 9951568, 127235	Clutch assembly, L.H.
DDO-23	9863898, 63891, 9951570, 127236	Clutch assembly, R.H.
DDO-31	9746602	Permanent magnet door motor, 1/6 HP, 230VDC, 1140 RPM, shaft 1/2", uses DCH-17 brush
DDO-31E	9801704, 141707	Door motor, 1/6 HP, 1140 RPM, 115VDC, uses DCH-18 brush
DW-1	9838351, 63835, 9845781	Roller kit, for door pickup roller assembly, 1-5/8" O.D. roller, includes roller, bushing, washers and retaining ring
DW-1A	9875268, 47525, 47526	Pick-up roller assembly, with steel mounting base, assembled L.H. (interchangeable L.H. or R.H.)
DW-1A-R	9875256, 47525	Pick-up roller assembly, with steel mounting base, assembled R.H. (interchangeable R.H. or L.H.)
DW-1B	9897641, 29764	Steel base, for DW-1A assembly
DSE-1	9851331, 9881815	Safety edge nosing, gray, 81-3/4" x 3-1/4"
DSE-1A	9851331, 9881815	Safety edge nosing, black, 81-3/4" x 3-1/4"
DSE-3	9818248, 118249	Actuating arm assembly

ADO-4



ADO-7



DDO-3



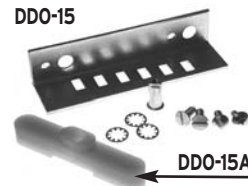
DDO-3A



DDO-5



DDO-15



DDO-18



DDO-23



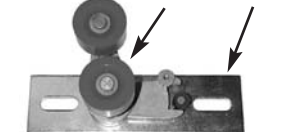
DDO-31



DDO-31E



DW-1A



DSE-1

DSE-3



# Door/Door Operator Equipment for GAL and Haughton

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## GAL door/door operator equipment

Part Number	OEM Part Number	Description
<b>GDO-3</b>	INT-115RH(MOKT)	Door contact kit, R.H. includes GDO-3C contact
<b>GDO-3A</b>	INT-115LH(MOKT)	Door contact kit, L.H. includes GDO-3C contact
<b>GDO-5</b>	SWC-1-445, SW-1-15	Gate contact kit, for GDO-16 gate switch
<b>GDO-6</b>	INT-1-10	Pick-up roller, replacement for door pick-up roller assemblies, roller 1-1/2" O.D. with 1 5/8" shaft
<b>GDO-7</b>	CL6-0003N	Spirator bracket, 3-1/2" x 2-1/2"
<b>GDO-8A</b>	C/PHH-3-6RH	Tension pulley assembly, R.H., (shown)
<b>GDO-8B</b>	HH-3-6LH	Tension pulley assembly, L.H.
<b>GDO-12</b>	INT-1-9-1RH	Pick-up roller assembly, MOM horizontal release, R.H. (shown)
<b>GDO-12A</b>	INT-1-9-1LH	Pick-up roller assembly, MOM horizontal release, L.H.
<b>GDO-18</b>	INT-2-23	MOCP keeper, fixed for center parting doors
<b>MIS-124</b>	n/a	Spirator, reel closer with cable, for square shaft, universal mounting

## Haughton door/door operator equipment

Part Number	OEM Part Number	Description
<b>HDO-7</b>	3-40151-14	Drive sheave, 12" assembly for two-speed doors
<b>HDO-8</b>	3-40132-72	Drive sheave, 12" assembly for HDO-7, 6 " J" grooves
<b>HDO-9</b>	3-40132-68	Sheave, 4" cable drive sheave
<b>HDO-9A</b>	3-40132-69	Idler sheave, for T1 operator
<b>HDO-9B</b>	n/a	Cable, 1/8" return idler sheave assembly
<b>HDO-13A</b>	3-40304-67	Moving contact bridge, silver
<b>HDO-17</b>	10084	Contact assembly, (6 sets) for limit switch
<b>HDO-37</b>	3-40117-56	Contact, R.H., stationary, M. interlock
<b>HDO-38</b>	3-40117-57	Contact, L.H., stationary, M. interlock

GDO-3



GDO-5



GDO-6



GDO-7



GDO-8A



GDO-12



GDO-18



MIS-124



HDO-7



HDO-9



HDO-9A



HDO-13A



HDO-37



HDO-17



HDO-38



# Door/Door Operator Equipment for Kone/Montgomery and Otis

This catalog lists our most popular parts; thousands of others are available. Call or visit our website for more information.

## Kone/Montgomery door/door operator equipment

Part Number	OEM Part Number	Description
MDO-4	MAP142	Contact bridge, movable contact
MDO-4A	MAP146	Bridging contact, complete assembly
MDO-5	P10615, MA1142	Door pickup roller, 2" dia.
MDO-6	MA1204	Lift rod, 5/16" dia. x 44" long
MDO-7	MAP131	Upthrust roller, with eccentric pin
MDO-10	P22106	Steel interlock hook
MDO-11	40594	Contact, leaf with 3/8" silver contact
MDO-12	A46223, B47135, B49711, P15765, P16364, P24172, P24173	Power board
MDO-15	MAP418	Pick-up assembly, R.H./L.H. interchangeable
MDO-60	A40593	Hook and shorting bar assembly
MDO-61	MAP144	Interlock assembly, R.H./L.H.
MW-9	P31316, MAP316	Pick-up assembly, R.H./L.H. interchangeable

## Otis door/door operator equipment

Part Number	OEM Part Number	Description
ODO-3	288LV1	Hoistway door lever
ODO-41D	456BY1	Roller, 1-5/8" diameter with nylon bushing (60 durometer polyurethane replaces sponge rubber type)
ODO-47	320BE2	Bumper roller, for chain of 7300 door operator, polyurethane
ODO-70	2220D16	Door gib, 8" assembly complete, includes ODO-71A
ODO-71	2213R1	Door gib, 6-1/4" assembly complete, includes ODO-71A
ODO-71A	251BJ1	Gib insert, 3", for ODO-70 and ODO-71
ODO-73	321CV1	Escutcheon, door sleeve, stainless steel, 2-3/4"
ODO-78	332BC2	Chain assembly with studs, for 7300 door operator
ODS-1	278BG2, 278BG3, 278BG10, 278BG11	Hoistway door shield, L.H./R.H., 84" long (shape 50ACV)

MDO-4



MDO-4A



MDO-5



MDO-6



MDO-7



MDO-10



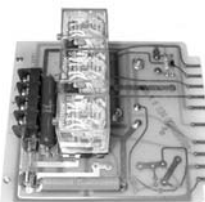
MDO-11



MDO-60



MDO-12



MDO-15



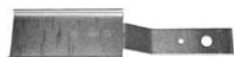
MDO-61



MW-9



ODO-3



ODO-41D



ODO-47



ODO-73



ODO-70



ODO-71



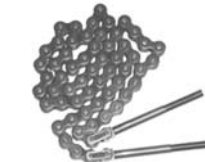
ODO-71A



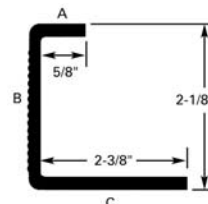
ODO-71A



ODO-78



ODS-1



# Door/Door Operator Equipment for Schindler/Westinghouse

This catalog lists our most popular parts; thousands of others are available. Call or visit our website for more information.

## Schindler/Westinghouse door/door operator equipment

Part Number	OEM Part Number	Description
WDO-48	196C527G01	Interlock assembly, complete , E5 and E5A, R.H. or L.H.
WDO-48C	197C534H03	Bracket, triple bend
WDO-49	682A227G01	Contact blade, with silver tip
WDO-53	682A244H01 682A245G01	Nose and contact assembly, R.H. (shown)
WDO-53A	5194D85G01	Complete drive block assembly, R.H. (shown)
WDO-53B	5194D85G02	Complete drive block assembly, L.H.
WDO-54	682A245G01 682A244H01	Nose and contact assembly, L.H.
WDO-59	146A746H01	Nylon gib refill, for WDO-59A, B, C, D and E, 4" long
WDO-59A		Offset door gib, with 1/2" offset, 3-1/2" long
WDO-59C		Solid gib bracket, 4" long x 2-1/2" wide, straight, no offset, uses gib WDO-59
WDO-60	576B858G01	Door relating cable, 12' long with two studs
WDO-60A	151B465G04	Relating cable sheave, nylon 2-3/4" dia. with bracket and mounting shaft
WDO-60B	682A143G01	Pulley, aluminum, 2-3/8" O.D., 0.3937" I.D., for relating cable
WDO-60D	5063A83G01	Cable kit, 8-1/2' long, 1/8" dia. cable with connecting hardware
WDO-61	681A554H01 146A444H01	Door motor, 1/6 HP, 2000 RPM, 125VDC, 1.3 amp, shunt wound
WDO-65	569A844H01	Nylon track liner, sold in 12' length or cut to your specifications
WDO-65B	n/a	Nylon track liner, sold in 8' length

WDO-48



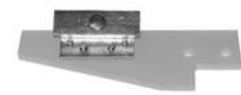
WDO-48C



WDO-49



WDO-53



WDO-53A



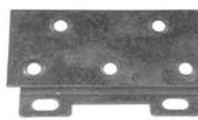
WDO-59



WDO-59A



WDO-59C



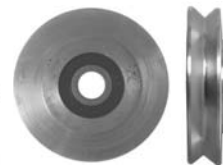
WDO-60



WDO-60A



WDO-60B



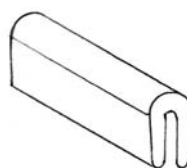
WDO-60D



WDO-61



WDO-65



# Door/Door Operator Equipment for all elevators

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## Door keys and generic door/door operator equipment

Part Number	OEM Part Number	Description
MIS-119	n/a	Flapper key with collar, for Montgomery, Dover, Haughton and GAL
MIS-121A	n/a	GAL door key, Type M for swing doors
ODO-45	n/a	Otis lunar key, 10-1/2" emergency hoistway
ODO-46	n/a	Otis door key, double drop
ODO-46A	n/a	Otis door key, single drop
WDO-57	n/a	Westinghouse lunar key, 6" long
WDO-58	n/a	Westinghouse T-Key, 9" long
MIS-124	n/a	Spirator, reel-type door closer, 5" diameter with square mounting hole
MIS-144	n/a	Escutcheon, hall door key hole, 1-3/4" long for 3/8" dia. keys 7/16" I.D., 15/16" O.D., 1-1/4" long threaded
MIS-146	n/a	Gib kit, 15/32", includes bracket, 2-3/4" L gib and hardware, two fire tabs
MIS-146A	n/a	Door gib, 15/32", durable 2-3/4" L replacement gib
MIS-160	n/a	Bracket with square shank, for MIS-124 spirator
MIS-210	n/a	Rubber protective key collar, 2" dia. x 1/2" x 3/8" I.D.

MIS-119



MIS-121A



ODO-45



ODO-46



ODO-46A



WDO-57



WDO-58



MIS-124



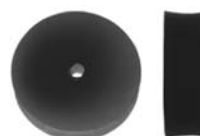
MIS-160



MIS-144



MIS-210



MIS-146



## Formula Systems' infrared light curtain systems

Part Number	Description
FDS-0547US05	SafeScreen light curtain/interface, 1.18 x 0.78 in • 30 x 20 mm profile with 47 beam paths, interface is selectable 115/230 VAC, signal output is volt-free changeover relay contacts, FPS-0271US01 universal interface and installation kit included
FDS-1047US05	SafeZone 3D light curtain/interface, 0.59 x 1.42 in • 15 x 36 mm profile with 10 3D zones and 47 beam paths, interface is selectable 115/230 VAC, signal output is volt-free changeover relay contacts, FPS-0271US01 universal interface and installation kit included
FDS-0735US05	SlimScreen light curtain/interface, 0.35 x 1.02 in • 9 x 26 mm profile with 35 beam paths, interface is selectable 115/230 VAC, signal output is volt-free changeover relay contacts, FPS-0271US01 universal interface and installation kit included
FPS-0271US01	Universal interface, for above units
FEXT-0016	Replacement lens, for SafeScreen light curtain

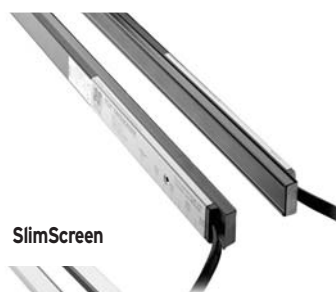
The **SafeScreen light curtain** is designed specifically for the North American market with 47 non-parallel infrared beam paths in a 1.18 x 0.78 in • 30 x 20 mm profile to insure safe elevator operation. The mechanism is 7 feet • 2.14 m long. The light curtain includes a rugged and easily-installed interface equipped with multi-function buzzer/nudging.

The **SafeZone 3D light curtain** combines both 3D and 2D sensing for superior safety. Ten 3D zones and 47 2D non-parallel beam paths are packaged in a 0.59 x 1.42 in • 15 x 36 mm profile. The mechanism is 7 feet • 2.14 m long.

The **SlimScreen light curtain** is designed primarily for Euro/Pacific Rim installations and features a non-parallel array of 35 infrared beam paths in a 0.35 x 1.02 in • 9 x 26 mm profile. The mechanism is 6.1 feet • 1.86 m long.

cULus Listed  
ANSI/ASME A17.1/A17.5  
CSA B44/B44.1

SafeScreen



SafeZone 3D

SlimScreen



Universal Interface

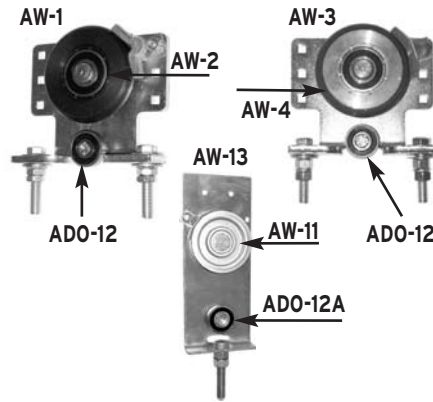


# Door Hanger Equipment for Armor, Dover, GAL and Haughton

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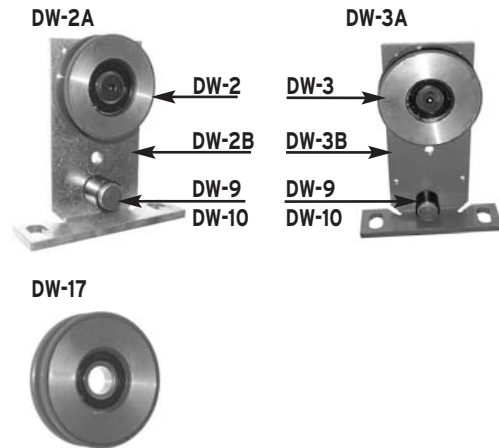
## Armor door hanger equipment

Part Number	OEM Part Number	Description
AW-1	12103-01, B733004	Hanger assembly, with 3-1/4" O.D. steel roller
AW-2	11930-01, B025014	Roller, steel, 3-1/4" O.D.
AW-3	12103-01, B733004	Hanger assembly, with 3-1/4" O.D. polyurethane roller
AW-4	B491115	Roller, polyurethane, 3-1/4" O.D.
AW-11	11929-01, A491101	Sheave, 3-3/8" O.D., 0.6693" I.D., #7 car door hanger for concave track
AW-13	12419-01, C748003	Sheave assembly, for #7 car door hanger
ADO-12	11971-01, A776005	Eccentric upthrust roller, steel roller, 1-1/16" O.D. For #4 hatch door hanger assembly
ADO-12A	11972-01, A776010	Eccentric upthrust roller, steel roller, 1-1/2" O.D.



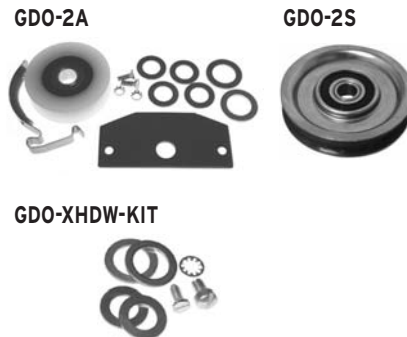
## Dover door hanger equipment

Part Number	OEM Part Number	Description
DW-2	9838302 63830	Hatch door hanger roller, with 2-7/8" O.D., 0.6693" I.D. aluminum with polyurethane tire
DW-2A	9838340	Hanger assembly, low pocket, consists of frame DW-2B, hanger roller DW-2, eccentric upthrust shaft DW-9 and roller tire DW-10
DW-2B	9752249	Frame, low pocket hanger
DW-3	9864295	Hanger roller, with 3-5/16" O.D., 0.6693" I.D., aluminum with polyurethane tire
DW-3A	9838533	Hanger assembly, high pocket, consists of frame DW-3B, Hanger roller DW-3, eccentric upthrust shaft DW-9 and roller tire DW-10
DW-3B	9752158	Frame, high pocket hanger
DW-9	9752160	Eccentric upthrust shaft, 3/4" O.D., 1-3/8" long, for DW-10
DW-10	9875426, 67542	Roller tire assembly, for DW-9
DW-17	9861245	Hanger roller, with 3-1/4" O.D. aluminum wheel with urethane tire for assembly #66137



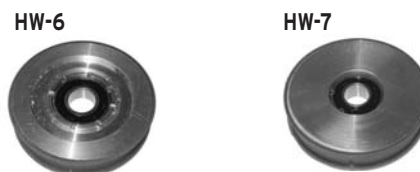
## GAL door hanger equipment

Part Number	OEM Part Number	Description
GDO-2A	OS-NM HH10-0041N (wheel)	Door hanger roller assembly, with nylon wheel 2-1/4" O.D. x 9/16" W, mounting bracket and hardware required to replace old-style steel roller
GDO-2S	HH-1-2D	Door roller, 3-1/4" O.D. with 1/2" I.D. bushing, replacement for hanger assemblies
GDO-2SK		Hardware kit, including a GDO-2S door roller and a GDO-2-XHDW-KIT
GDO-2-XHDW-KIT		Hardware kit, for GDO-2S



## Haughton door hanger equipment

Part Number	OEM Part Number	Description
HW-6	3-40130-77, 3-40130-79	Hanger roller, for B-4 hanger, 3-5/16" O.D. x 5/8" I.D.
HW-7	3-40157-63	Hanger roller, 3-11/16" O.D., 0.6299" I.D.





# Door Hanger Equipment for Generic, Kone/Montgomery, and Otis

This catalog lists our most popular parts; thousands of others are available. Call or visit our website for more information.

## Generic door hanger equipment

Part Number	OEM Part Number	Description
MIS-195		Door hanger roller, Williamsburg-style, 3-3/8" O.D., x 7/8" W steel roller with 1/2" flat nylon track, eccentric threaded shaft 1/2-20 fine x 3/4" long
MIS-195A		Door hanger roller, 3-3/8" O.D., x 7/8" W steel roller with convex nylon track, 1/4" radius tire face, with eccentric threaded shaft, 1/2-20 fine x 3/4" long

MIS-195



## Kone/Montgomery door hanger equipment

Part Number	OEM Part Number	Description
MW-7	MAP341	Hatch door roller, 2-7/8" dia.
MW-8	MAP344, P31344	Car door roller, 3-11/16" dia.
MW-8E	P22237	Car door roller, similar to MW-8 but with eccentric

MW-7



MW-8



MW-8E



## Otis door hanger equipment

Part Number	OEM Part Number	Description
OW-1	456DHI	Door hanger roller, 3-3/8" O.D. x 13/16" W poly tire with eccentric 1/2" NF threaded shaft
OW-11S	A456W1	Door hanger roller, 3-1/4" O.D. x 11/16" W, 1/2" I.D. steel roller with polyurethane tire
OW-13	456CC1	Steel door roller, 2-3/4" O.D. x 3/4" W, 0.7872" I.D., for OW-23
OW-13A	456CC1	Door roller, like OW-13 but with polyurethane tire, for OW-23
OW-18A	A456EA1	Hanger roller, 11/16" wide, for 6178A assembly, steel with polyurethane tire
OW-19A	456G1, 456EP2	Door roller kit, bolt and washer, 2-1/4" O.D., 3/4" I.D. replacement roller kit, for OW-19 hanger assembly
OW-23	389J2	Hanger assembly, for type B and 7087

OW-1



OW-11S



OW-13A



OW-18A



OW-19A



OW-23

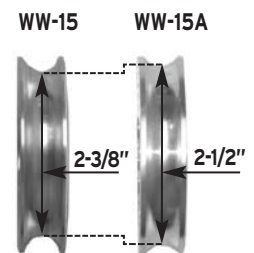
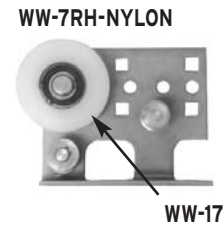
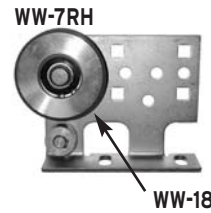
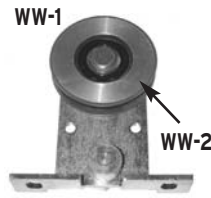


# Door Hanger Equipment for Schindler/Westinghouse

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## Schindler/Westinghouse Door Hanger Equipment

Part Number	OEM Part Number	Description
WW-1	T5411G99	Hanger assembly, complete for flat track for type B3M hanger
WW-2	R8858G98 R8858G01	Hanger roller, 3-3/8" diameter, aluminum with polyurethane tire, for type B3M hanger
WW-4	T5409G99	Hanger assembly, for type A3M hanger
WW-5	R8636G98 R8636G01	Hanger roller, 4-3/8" diameter, 1-1/8" bearing aluminum with polyurethane tire, fits square rail for type A3M hanger
WW-7RH	M7405G99	Hanger assembly, complete, R.H. with WW-18 roller for type ACD/ACN hanger
WW-7LH	M7405G99	Hanger assembly, complete, L.H. with WW-18 roller for type ACD/ACN hanger
WW-7RH-NYLON	M7405G3, G5	Hanger assembly, complete, R.H. with WW-17 nylon roller for type ACD/ACN hanger
WW-7LH-NYLON	M7405G4, G6	Hanger assembly, complete, L.H. with WW-17 nylon roller for type ACD/ACN hanger
WW-12	323C235G02	Hanger roller, 4-1/4" O.D., 6204 bearing .7874" I.D. aluminum with polyurethane tire for type AC2 hanger
WW-14RH	325C798G01	Hanger assembly, R.H. for type ACA hanger
WW-14LH	325C798G02	Hanger assembly, L.H. for type ACA hanger
WW-15	325C798G09	Aluminum roller, 2-3/4" O.D., with deep concave for type ACA hanger
WW-15A		Aluminum roller, 2-3/4" O.D., with shallow concave for type ACA hanger
WW-16	325C798G10	Upthrust roller, for type ACA hanger
WW-17	576B535G04	Nylon roller, 2-3/4" diameter, .5906" I.D. for type ACD/ACN hanger
WW-18	576B535G98	Aluminum hanger roller, 2-3/4" O.D., with polyurethane tire for type ACD/ACN hanger
WW-19A	7266C86G01	Steel hanger roller, 3" O.D. x 3/4" W



# PC Boards and Timers for Armor and Dover

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## Armor timer modules

Part Number	OEM Part Number	Description
APC-1	12581-01, C058-8261-01, ML42318-2S-250V, 12582-01, C058-8261-02, ML42318-6S-250V	Timer module, 0.1 - 5 second range, stud mount, 250VDC
APC-4	12589-01, C058-8261-04, ML42318-2S-110V, 12590-01, C058-8261-05, ML42318-6S-110V	Timer module, 0.5 - 5 second range, stud mount, 110VDC
APC-8	12583-01, ML42343-2A, C058-8262-01, 12584-01, C058-8262-02, 12585-01, ML42343-15A, C058-8262-03, ML42343-60A, 12586-01, C058-8262-04, ML42343-180A	Timer module, 0.1 - 180 second range one potentiometer, plug-in style, 110VDC
APC-11	12587-01, C058-8263-01, ML42338-15A, ML42361-15A	Timer module, 1 - 10 second range three potentiometer, plug-in style, 110VDC NOTE: Replaces two potentiometer timer

## Dover PC boards and timer modules

Part Number	OEM Part Number	Description
DPC-9	9781870, 111973, 68187	Reverse phase relay, for hydraulic elevators
DPC-12	9879675, 67967, 113149, 111207, 76785	Rectifier, 3 phase, to 300VDC, 3 amp
DPC-21	9852037, 124566, 9852001, 9852803, 05201, 65280	Timer, 0.1 - 260 second range, 110VAC
DPC-22	9852049, 124561, 9815284, 9852797, 101528, 65278, 68536, 9885365, 9805278, 105238, 102313	Timer, 0.1 - 260 second range, 20 - 60VDC
DPC-28	9728375, 62837-1, 78230	Timer, 0.1 - .25 second range, 115VAC, used on "SET" Traction
DPC-33	9713335, 113336	Digital readout PC board
DPC-37	9818420, 118412	Emergency light PC board
DPC-39	9812258, 112267, 112264	Emitter/detector assembly, for traction elevators, original version
DPC-39A	124945, 124942	Emitter/detector assembly, for traction elevators, updated version
DPC-39A-D	124942	Detector PC board, for traction elevators, mounting holes .156 dia.
DPC-39H	9840138	Emitter/detector assembly, for traction elevators, w/amplifier & filter
DPC-43	9715289, 9719842, 115298	Rectifier assembly, 3 phase, to 300VDC, 18 amp
MIS-194B	9880719	Battery, 7AH, 6V replacement for emergency light

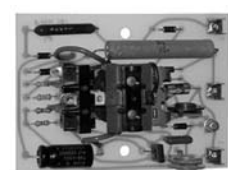
APC-1



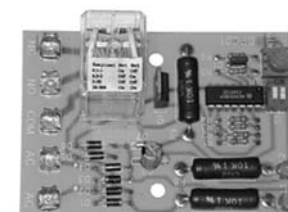
APC-11



DPC-9



DPC-21



DPC-33



MIS-194B



DPC-37



DPC-39



DPC-39H



DPC-43



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# PC Boards and Timers for GAL, Kone/Montgomery and US

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## GAL timer modules

Part Number	OEM Part Number	Description
GT-2	10121-1 10121-3	<b>Solid state timer</b> , replacement for single and double potentiometers, 2.5 - 640 second range, includes adapter kit, replaces tube-type timers #10041-1, #10041-2, #10041-3 and #10041-4

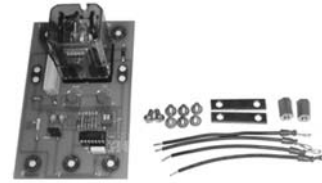
## Kone/Montgomery timer modules

Part Number	OEM Part Number	Description
MRP-12A	P16553	<b>Timer</b> , 0 - 2 minute range, 120VAC. replaces P8555, P8556 and P12731
MRP-20	PN47261	<b>Timer</b> , plug-in, 0.2 - 10 second range
MRP-21	PN47262	<b>Timer</b> , plug-in, 1.2 - 120 second range
MRP-22	PN47263	<b>Timer</b> , plug-in, 0.9 - 90 second range, 120VAC external adjustment

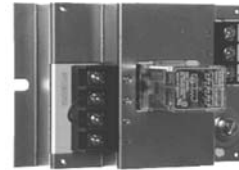
## US PC boards and timer modules

Part Number	OEM Part Number	Description
US-PC5	144-00019-001	<b>Receiver</b> , photo cell sensor
US-PC10A	145-05064-301	<b>Timer</b> , 0.5 - 5 second range
US-PC13	144-00067-001	<b>Timer</b> , internal relay, N/C 0.5 - 60 second range
US-PC13A	145-05064-304	<b>Timer</b> , N/C 0.5 - 60 second range
US-PC13C	144-00099-001	<b>Adapter</b> , white, for 0.5 - 5 and 0.5 - 60 second range timers
US-PC13D	144-00099-002	<b>Adapter</b> , grey, for N/O, N/C and reversed phase timers
US-PC13H	154-05005-301	<b>Position indicator PC board</b> , horizontal, single
US-PC14	146-05054-300	<b>PC board</b> , for car, used on "Soft Touch" series
US-PC15	146-05055-300	<b>PC board</b> , for hall, used on "Soft Touch" series

GT-2



MRP-12A



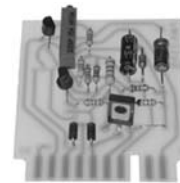
MRP-20



US-PC5



US-PC10A



US-PC13C



US-PC13D



US-PC13H



US-PC14



US-PC15



Draka EP offers a comprehensive repair/replace service for over 1500 PC boards. Call for the complete catalog or see pages 93 - 94 for more details.



# PC Boards

## Repair/replace service

### MCE PC boards

Part Number	OEM Part Number	Description
MCECHC-CI/O REV4	HC-CI/O REV4	Call board
MCECHC-CI/ON	HC-CI/ON	Call board
MCECHC-CI/O	HC-CI/O	Call board
MCECHC-CI/O-E	HC-CI/O-E	Call board
MCECHC-CI/O-L	HC-CI/O-L	Call board
MCECHC-CI/O-LEX	HC-CI/O-LEX	Call board
MCECHC-I40	HC-I40	I/O expander board
MCECHC-I/OX	HC-I/OX	I/O extender board
MCECHC-PCIO-L	HC-PCIO-L	Power & call board
MCECHC-PI/O	HC-PI/O	Power I/O board
MCECHC-PI/O-1B	HC-PI/O-1B	Power I/O board
MCECHC-PI/O	HC-PI/O	Power I/O board
MCECHC-PIX	HC-PIX	8 BIT PI board
MCECHC-PIX-16	HC-PIX-16	16 BIT PI board
MCECMC-MP	MC-MP	Processor board
MCECMC-MP-1ES	MC-MP-1ES	Processor board
MCECMC-PCA-OA	MC-PCA-OA	CPU board
MCECMC-PC-1	MC-PC-1	CPU board
MCECHC-DB-MOD	HC-DB-MOD	MOD door operator
MCECSR-PRI-EE	SCR-PRI-EE	SCR power relay interface
MCECHC-CCDB	HC-CCDB	Door operator

### Other part numbers

Part Number	OEM Part Number	Description
DOVR6300FX3	6300FX3	HD85 Door DMC1
DOVR9715710	9715710	CLC PROC.
DOVR9741331	971331	Auxiliary sensor DMC1
DOVR9804134	9804134	HD85 DMC-1
DOVR9832439	9832439	Door operator
DOVR9840114	9840114	CPU TIII/IV
DOVR9841301	9841301	Power relay - DMC
DOVR9841313	9841313	SELEC PROC DMC1
DOVR9841325	9841325	Main sensor DMC1
DOVR9841337	9841337	CLC PROC
DOVR9845550	9845550	Optical level
DOVR9855233	9855233	Door
DOVR9855245	9855245	4 Slot power board
DOVR9855257	9855257	Card 4 slot
DOVR9855269	9855269	INTRM Hydro
HGTN3-40255-50	HGTN3-40255-50	Heat sink (HV)
MACOP-24783	MACOP-24783	Door control 104BD
MACOP-24783-004	24783-004	Door control 104BD
MTGMP-15730	P-15730	Input board w/TB
MTGMP-15761	P-15761	Input w/terminal
MTGMP-24100	P-24100	Relay output 21
MTGMP-24172	P-24172	Power supply door
MTGMP-24323	P-24323	Pilot relay 21
MTGMP-24377	P-24377	CPU MIPROM 21
MTGMP-24571	P24571	ETS PCB MIPRO21
MTGMP-29629-001	P-29629-001	Input board w/TB
MTGMP-30390	P-30390	MSU Board
USEL146-05010-300	146-05010-300	A2 BD. MP-1230
USEL146-05230-300	146-05230-300	A3-A5 BD MP1220
USEL149-00001-001	149-00001-001	VAR CNTL SSD-1
WEST998C148H25	998C148H25	FCB PC BOARD
WEST998C187H24	998C187H24	MHC MPH-II
WEST998C187H25	998C187H25	MHC MPH-II
WEST999C001H25	999C001H25	TDC PC BOARD

### Warranty Information

Our in-circuit, functional and simulator testing capabilities guarantee that your board is ready to install when shipped. Should a repaired PC board fail during the first 30 days, return it for a free replacement.

NOTE: You may not exchange a board that has been damaged by lightning or water, nor may you exchange for an upgraded board (i.e. a version 2 board for a newer version 3 board). Only OEM boards may be exchanged - we cannot accept aftermarket boards.



**Our repair/replace program covers over 1500 PC boards from 14 manufacturers.**

**New boards are added daily - ask if you don't see the one you want. Call 1-877-DRAKA EP to:**

**REPAIR AND RETURN THE BOARD:** The most cost-effective option. Draka EP's PC board repair process includes troubleshooting, replacement of defective components and final testing. Our repairs have a 99.999% rate of success.

**EXCHANGE THE BOARD:** This is your best option if fast turn-around is needed. Place an exchange order with Draka EP and a refurbished, tested and warranted board can be delivered overnight.

**PURCHASE A BOARD:** Versions of all the PC boards listed are available for purchase and immediate delivery.

# PC Boards

## Repair/replace service



### Otis PC boards

Part Number/ OEM Part Number	Description
A8114A1	PC board
A8114D5	PC board
A8114E5	PC board
A8116B4	PC board
A8121AL24	Timer
C8114G1	PC board
A8200CA4	COP BRD-BUSH/HE
A8200EB4	Speech board
AAA26800ACB001	CPU, Field to order ABA25000C1
AAA26800AHJ1	PCB-BLCK BLT OP
AAA26800AJV1	MLB III PC board
AAB22439E5	Tape reader
AAB22439E6	Tape reader
ABA25000C1	CPU/POCKET/HAND
ABA26800AJV1	MLB III PC board
ABA26800AJV2	MLB III PC board
ABA26800XH1	Motion log
ACA26800XH1	Motion log
HT201723-2	GP I/O FUL
HT201731-4	CAB I/O ASS
HT201732-1	Board assembly
HT201733-1	XDUCER I
HT203101-2	PC board
HT203102-1	GF I/O
HT203103-1	GF I/O
HT204327-1	Bus terminal
HT204349-3	E401 assembly
HT204349-4	E401 assembly
HT205925-1	PWR AMP I/O
8128GE3	Stepper
A8121AW1	GMI
A8121AY1	HFI for LRV
AAA26800MT1	MRSEB
AAA26800MZ1	LRVM
B8121AH1	VFSB
B8121AX1	BRD EMI
B8121BK1	MPGC
B8121BM1	MPGC
B9693A3	Limited car BOA
B9693MG1	ADISS board
C8121AX1	LRVM RELAY
C8121DB1	PC board

Part Number/ OEM Part Number	Description
C9693A3	Limited car
C9693MB1	DISS board
C9693MB2	DISS board
D8121BC1	LRS3
D8211B1	VF-INV CNTR
E8121BE1	BTN INT MOD
E8121DB1	Microcontroller
F8121BC1	Microcontroller
GEA21270A1	RCB II
GEA21270A3	RCB II
GFA21270A3	RCB II
GGa21270A4	RCB II
GGA21270A6	RCB II
GHA21270A3	RCB II
205410-3	Power supply
205410-4	Power supply
621W1	PS-VF(NEW)MAIN-
A621J1	Power supply
A628G1	Battery charger
ABA26800XU1	PC board
ABA26800XU2	PC board
ABA26800XU5	PC board
ACA21290BA2	OVF drive -NAO
ACA21290BJ2	OVF drive
ACA21290BM1	OVF drive
ACA21290M1	120A 480V drive
ADA21290AK2	OVF drive
ADA26800MB1	VF drive
B9708BN1	PCB, GAMMA I/O
C621G1	Carrier power supply
HT201450-1	Power supply, DR M
HT201781-1	Power supply, M&P PER
HT204411-2	Power amp
HT206020-2	Power amp LA/RB
HT20641201	Power amp
LA46S1607-1060	12SCR MAIN/
LA46S2206-0013	Elevator control
LA46S2439-0010	2SCR CO
LA46S2440-0010	Elevator control
RB560-275-2	Control
RB560-276-02	Gate board

### Warranty Information

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# Controller Parts/Contacts

## for GAL, Haughton, Payne and Schindler/Westinghouse

This catalog lists our most popular parts; thousands of others are available. Call or visit our website for more information.

### GAL contacts

Part Number	OEM Part Number	Description
GRP-6		Copper contact, 1-3/4" O.D. x 3/8" thick with 1" long stem
GRP-7		Copper contact, 1-1/2" O.D. x 5/16" thick, 1" long stem
GRP-8		Copper contact, 1" O.D. x 5/16" thick, 1" long stem
GRP-9		Carbon contact, 1-3/4" O.D. x 1"
GRP-10		Carbon contact, 1-1/2" O.D. x 7/8"
GRP-11		Carbon contact, 1" O.D. x 3/4"

### Haughton contacts

Part Number	OEM Part Number	Description
HRP-13	10062	Contact assembly, 2 N.O., for type "F" magnet switch
HRP-24	3-10062-13	Movable contact assembly, 2 N.O. and 2 N.C. contacts May be rearranged in the field to suit

### Payne contacts

Part Number	OEM Part Number	Description
PCC-1	M-1607	Contact finger, 3-3/8" long x 3/8" wide
PCC-1B	M1656	Contact assembly
PCC-3	K-2839	Carbon contact, 1-3/16" dia. x 3/4" long (makes with PCC-4)
PCC-4	K-2840	Copper contact, 1-1/4" O.D. x 5/16" thick, 5/16" dia. x 1-3/8" long stem

### Schindler/Westinghouse contacts

Part Number	OEM Part Number	Description
WCC-4	K4495H01	Square carbon contact, 5/8" x 5/8" x 3/4", with 9/64" hole for 6-32 screw
WRP-6	K4277G01	Movable contact, heart-shaped movable contact for 6B, CR and TC relays
WRP-7	K7310G01	Contact bridge assembly, for EC control relay
WRP-9	630B611G01	Stationary contact, for EC control relay, top make or bottom break
WRP-10	630B611G02	Stationary contact, for EC control relay, top break or bottom make
WRP-31	M4522G2	Contact, with shunt-MAKE, for 6B contactors
WRP-32	M4522G5	Contact, with shunt-BREAK, for 6B contactors

GRP-6



GRP-7



GRP-8



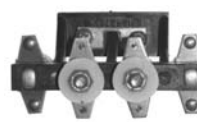
GRP-9



HRP-13



HRP-24



PCC-1



PCC-1B



PCC-3



PCC-4



WCC-4



WRP-6



WRP-7



WRP-9



WRP-31



WRP-10



# Controller Parts/Relays for specific manufacturers

This catalog lists our most popular parts; thousands of others are available. Call or visit our website for more information.

## Armor relays

Part Number	OEM Part Number	Description
ARP-20	10442-01, B756006, A150-8001-01	Movable auxiliary contact assembly for #1 relay, #1 contactor, #3A contactor and #5A contactor

ARP-20



## Dover relays

Part Number	OEM Part Number	Description
DRP-5A		Relay with magnetic blowout, DPDT, 48VDC
DRP-7	9769018, 76901	Relay with magnetic blowout, DPST, 48VDC
DRP-13A	9909151	Relay with magnetic blowout, DPST, 12VDC
DRP-20	9871184, 77118	Contact, 48VDC coil, SPDT, make before break contacts, for #15 Switch
DRP-20A	9871196, 77117	Contact, 48VDC coil, SPDB contacts, for #14 Switch
DRP-20B	35893	Moving core
DRP-20I	10074	Cradle block

DRP-5A



DRP-7



DRP-20



DRP-20B



## GAL relays

Part Number	OEM Part Number	Description
GRP-1	LC-25-#8	Movable contact, L.H.
GRP-2	LC-25-#7	Movable contact, R.H.
GRP-3	LC-16-#22	Stationary contact, silver, 3/8" dia., 3/4" thread length, 15/16" O.L.
GRP-4	LC-16-#23	Stationary contact, carbon, 3/8" dia., 3/4" thread length, 1-1/4" O.L.

DRP-20I



GRP-2



GRP-3



GRP-4



## Haughton relays

Part Number	OEM Part Number	Description
HRP-67	3-40155-38	Telephone type relay, C-type contact, 6 NO, 2 NC, 2 SPDT for Haughton replacement coil 3-40155-15, 120 VDC

## IBM relays for Dover and US - other IBM relays are available

Part Number	OEM Part Number	Description
PR-30	769489, 9767540, 76754 (Dover), 930-35019-000 (US)	Relay, IBM 4PDT, 48VDC, for Dover and US elevators

## Kone/Montgomery relays

Part Number	OEM Part Number	Description
MRP-10	16929	Solenoid coil assembly, 110V
MRP-11A	P4349	Contact assembly, 6 contacts arranged 2-3-5 N.O., 1-4-6-N.C. Includes 10" stem part #23247
MRP-120	P16723	Relay assembly, 4 PDT, with harness and bracket Replaces leaf-type Guardian relays
PR-12	42844, 36244, 45516	Plug-in relay, 4PDT, 120VAC

MRP-10



MRP-11A



MRP-120



Controller parts



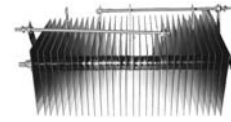
# Controller Parts/Rectifiers for Otis and Schindler/Westinghouse

This catalog lists our most popular parts; thousands of others are available. Call or visit our website for more information.

## Otis rectifiers

Part Number	OEM Part Number	Description
ORT-1	230BA1	Three phase, 30 plates, 4" x 5", 100VAC input, 130VDC output, 2000 watts
ORT-2	230AR1, 230AR2, 230AR3	Single phase, 6 plates, 1" x 1"
ORT-3	230AL3	Three phase, 30 plates, 4" x 5", 100VAC input, 130VDC output, 2000 watts
ORT-5	230BJ5	Three phase, 30 plates, 4" x 5", 100VAC input, 130VDC output, 2000 watts

ORT-1



ORT-2



## Schindler/Westinghouse rectifiers

Part Number	OEM Part Number	Description
WRT-1	195C928G01, 630B077H01, 478C156G01	Three phase rectifier, 35A, 300V
WRT-2	151B931G01	Rectifier, solid state, 20A, 300V

WRT-1



WRT-2



# Selector Parts

## for Armor, Dover and ESCO

This catalog lists our most popular parts; thousands of others are available. Call or visit our website for more information.

### Armor selector parts

Part Number	OEM Part Number	Description
AS-2	10358-01, A363G1, A4747492	Selector brush with metal contacts, 1-11/16" for graphite KM White style selector
AS-3	10982-01, A2949	Stud, stationary contact, 1/8" diameter point x 2" overall, for KM White-style selector

AS-2



AS-3



### Dover selector parts

Part Number	OEM Part Number	Description
DS-18	9714339, 41433	Floor bar contact, for screw-type selector, 1-3/8" L with 8-32 thread
DS-24	9813380, 101330	Switch assembly, short, 5/16" carbon contact
DS-27	114104	Flat cable, 18 conductor ribbon cable, 96" long with pins
DS-34	9847730, 66354	Idler sheave, 5-1/2" O.D., 0.6693 I.D., for use with MIS-300 1/8" cable
DS-34A	9847730, 66354	Idler sheave assembly, 5 1/2" O.D. with bracket and hardware
DS-35	9841544	Selector tape guide, 4" long x 1-1/4" W
DS-40	9814437	Selector traveling nut and hardware

DS-18



DS-24



DS-27



DS-34



### ESCO selector parts

Part Number	OEM Part Number	Description
MIS-217	3-410-001	Single striker assembly
MIS-218	33-410-007	Dual striker assembly
MIS-219	0013-016-031	Tape guide assembly

DS-34A



DS-35



DS-40



MIS-217



MIS-218



MIS-219



Selector parts

# Selector Parts

## for Otis, Payne and Schindler/Westinghouse

This catalog lists our most popular parts; thousands of others are available. Call or visit our website for more information.

### Otis selector parts

Part Number	OEM Part Number	Description
<b>OS-44</b>	156AV2, 156G4	Selector/floor bar contact, 1-1/2" long
<b>OS-70</b>	A6333E1	Selector motor, 60VDC

### Payne selector parts

Part Number	OEM Part Number	Description
<b>PS-3</b>	M-2924	Selector contact, movable
<b>PS-4</b>	M-2925	Selector contact, stationary

### Schindler/Westinghouse selector parts

Part Number	OEM Part Number	Description
<b>WS-5</b>	145A110H01	Nylon tape guide, used with Type E landing switch
<b>WS-13</b>	T4823G09	SN selector motor, 1/30 HP, 2765 RPM, 125 VDC, 32F, uses WCB-68 brush
<b>WS-13A</b>	151B417H01	Selector motor, 1/15 HP, 1950 RPM, 125 VDC, uses WCB-66A brush
<b>WS-22</b>	5061A04H02	Beam switch, leveling

OS-44



OS-70



PS-3



PS-4



WS-5



WS-13



WS-13A



WS-22



# Hoistway/Hatch Positioning Systems

## USP positioning system (by Schmersal)

### USP positioning system (cULus listed)

The USP (UltraSonic Positioning) is a non-contact elevator positioning system which features a simple, cost-effective design. Operating with a technically advanced ultrasonic principle called magnetic striction, the USP replaces traditional positioning technologies such as tape readers, leveling vanes and position encoders. The USP system provides absolute position values to the elevator controller via a standard RS-485 interface or a customer specified interface.

**The USP 30** (illustrated on this page) is the most cost-effective solution for elevator travel heights up to 98 feet (30 meters). The system includes a transmitter, receiver, two dampers, swing protection and installation hardware.

The transmitter is mounted on top of the cab. The receiver can be installed either in the overhead or pit. A damper unit is installed at each end of the signal wire. System installation takes approximately one hour.

The transmitter and receiver are connected via the traveling cable. Upon receipt of a signal from the receiver, the transmitter generates a contact-free ultrasonic signal in the signal wire. This signal travels up and down along the signal wire towards the overhead and pit.

A microprocessing unit in the receiver converts the ultrasonic signal into an absolute position value which the elevator controller can access as data. The signal, once processed, is then neutralized by the two dampers.

The position value can be accessed at any time. If a power failure occurs, the cab position information becomes available again immediately upon resumption of power, without the need for a learning run.

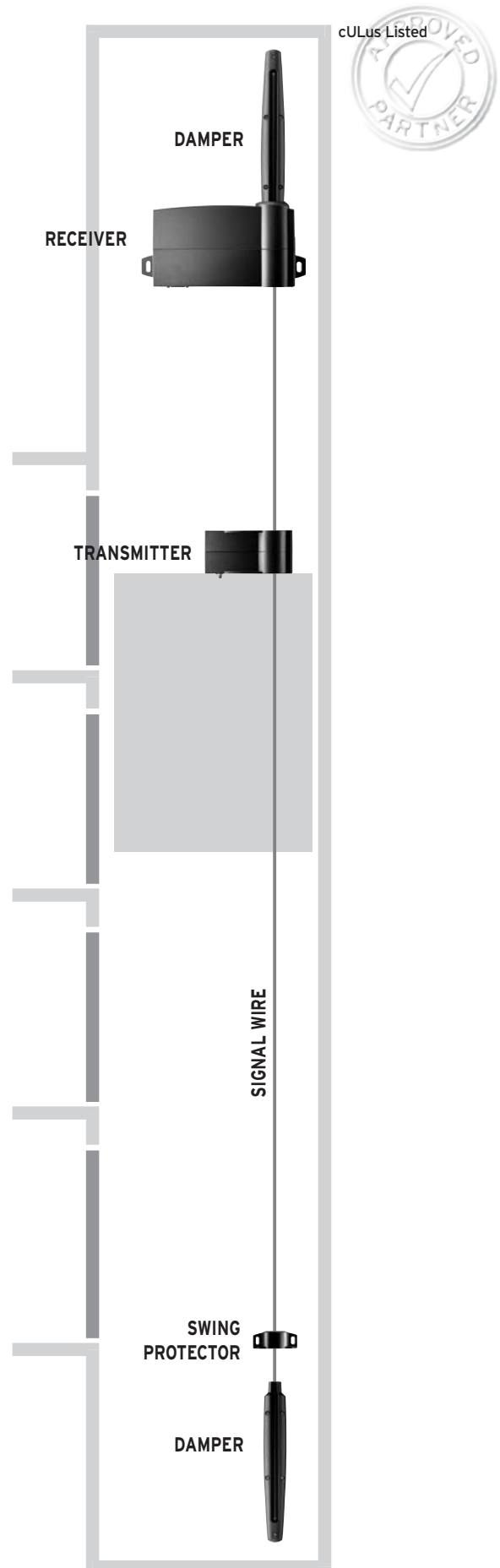
The cab position can be calculated precisely, even at high speeds, because the calibration of the height is accurate to the nearest millimeter (approximately 1/25 of an inch).

**The USP 100** is the best solution for travel heights above 98 feet and up to 426 feet (130 meters). The USP 100 utilizes the same components as the USP 30 with an additional correction sensor which is mounted on the cab and connected to the receiver via the traveling cable. Five actuating magnets are installed along the hoistway to provide additional cab positioning information to the receiver. This additional information enables the system to compensate for positioning errors arising from building compression or expansion and extreme temperature fluctuations.

The USP communicates with the elevator controller either directly or via the Parallel Interface (PI - see next page) which converts the absolute position value into fifteen 24 VDC outputs to handle conventional elevator controllers using relay logic.

USP features:

- hoistway calibration accurate to the nearest millimeter
- compatible with many elevator control systems
- covers a speed range up to 1,180 FPM (6 meters/second)
- fast installation time
- no learning run required after a power failure
- non-contact system (no electro-mechanical parts to maintain or replace)



Hoistway/hatch

# Hoistway/Hatch Positioning Systems

## Positioning Systems (by Schmersal)



### USP positioning system (cULus listed)

Part Number	Description
Call	<b>USP 30 positioning system</b> , for rises of up to 98 feet • 30 meters, includes transmitter, receiver, 2 dampers, 1 swing protection unit, installation hardware and instructions NOTE: Signal wire, transmitter cable and receiver cable are sold separately
Call	<b>USP 100 positioning system</b> , for rises of up to 426 feet • 130 meters, includes transmitter, receiver, 2 dampers, 1 swing protection unit, correction sensor, five actuating magnets, installation hardware and instructions NOTE: Signal wire, transmitter cable and receiver cable are sold separately
Call	<b>Signal wire</b>
1148412	<b>Transmitter cable</b>
Call	<b>Receiver cable</b>

The UltraSonic Positioning (USP) system transmits a cab position signal accurate to the nearest millimeter to the elevator controller. It is a contact-free and wear-free system. It utilizes a limited number of components which are simple to install and easy to connect to the elevator controller.



### Parallel Interface (PI) (cULus listed)

Part Number	Description
Call	<b>Parallel interface</b> , permits communication with relay logic elevator controllers

The USP Parallel Interface (PI) is available as an additional component. It can be connected to many types of elevator controllers that use conventional relay technology. This means that the USP can be used in a wide variety of applications. Two standard shaft profiles (illustrations of all the switches in the hoistway which are stored in table form in the PI) are already available for elevator controllers which use shaft profiles provided by traditional positioning technologies (individual profiles can also be programmed).

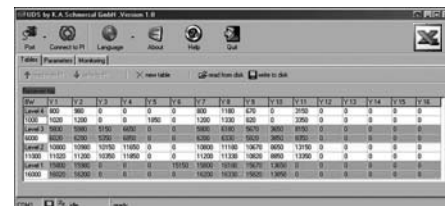
The USP-PI Parallel Interface converts the absolute position value from the USP into fifteen 24 VDC outputs which can be used as signals from shaft profiles provided by traditional positioning technologies by means of two pre-programmed or a free-programmable profile. The floor heights are input by means of a learning run; each floor can be uploaded using a learn button. Either of the pre-programmed profiles can input the speed (maximum of two) and deceleration information to automatically calibrate the correct shaft profile. Each signal can be modified individually both in its position and in its length for calibration.



### Up-Download Software (UDS)

Part Number	Description
Call	<b>Up-down software</b> , permits easy transfer of data to/from Parallel Interface

Up-Download Software (UDS) permits the shaft profile data to be input into and downloaded from the Parallel Interface simply and quickly. The position value data is uploaded to the Parallel Interface directly from an Excel table - no manual inputting of switching points and alignments is necessary on site. The data can be copied and used 1:1 for other elevators. A graphic representation of the shaft profile is also available.



Contact Draka EP for more information and to order these products.

# Hoistway/Hatch Positioning Systems

## TS-2002 tape selector leveling system (by EECO)

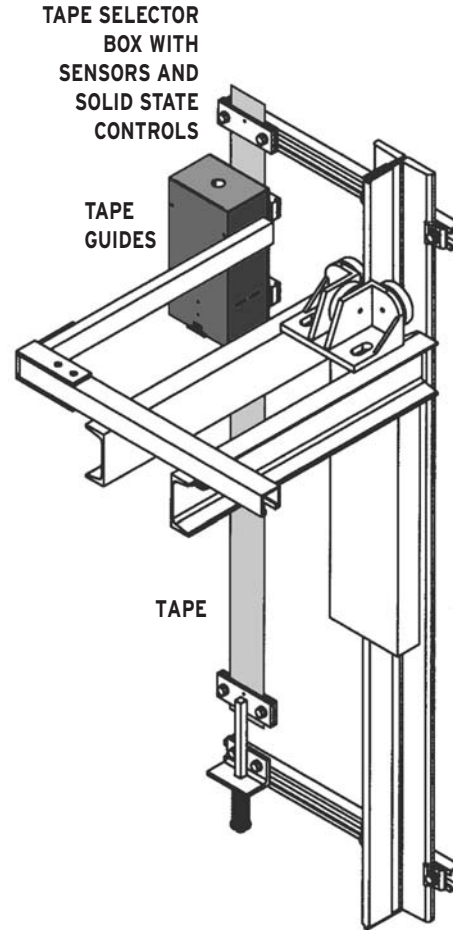
UL Listed

CSA Certified



### TS-2002 leveling system

Part Number	Description
TS-2002-S2	<b>2 stop system</b> , LU, LD and DZ sensors, includes 25 ft. of steel tape and 2 magnets
TS-2002-R2	<b>2 stop system</b> , LU, LD, DZ and DZR sensors, includes 25 ft. of steel tape and 3 magnets
TS-2002-S3	<b>3 or more stop system</b> , LU, LD, DZ, STU and STD sensors Includes 7 magnets (order 3 magnets/stop for more than 3 stops)
TS-2002-R3	<b>3 or more stop system</b> , LU, LD, DZ, DZR, STU and STD sensors Includes 9 magnets (order 4 magnets/stop for more than 3 stops)
TS-2002-SF	<b>3 or more stop short floor system</b> , LU, LD, DZ, STU, STD, SDZ, SLU and SLD sensors Includes 9 magnets (order 4 magnets/stop for more than 3 stops)
TS-2002-ST	<b>Steel tape</b> , sold by the foot
TS-2002-MAG	<b>Magnet</b> , sold individually, order as needed by system
TS-2002-S2A	<b>2 stop system</b> , with ALS, LU, LD and DZ Includes 25 ft. of steel tape and 2 magnets and 1 ALS magnet
TS-2002-R2A	<b>2 stop system</b> , with ALS, LU, LD, DZ and DZR Includes 25 ft. of steel tape and 3 magnets and 1 ALS magnet
TS-2002-S3A	<b>3 or more stop system</b> , with ALS, LU, LD, DZ, STU and STD Includes 7 magnets (order 3 magnets/stop for more than 3 stops) and 1 ALS magnet
TS-2002-R3A	<b>3 or more stop system</b> , with ALS, LU, LD, DZ, DZR, STU and STD Includes 9 magnets (order 4 magnets/stop for more than 3 stops) and 1 ALS magnet
TS-2002-SFA	<b>3 or more stop short floor system</b> , with ALS, LU, LD, DZ, STU, STD, SDZ, SLU and SLD sensors Includes 9 magnets (order 4 magnets/stop for more than 3 stops)
TS-2002-AMK	<b>Access magnet kit</b> , to add an additional access zone Used only with S2A, R2A, S3A, R3A and SFA models



The EECO TS-2002 leveling system for both hydraulic and traction elevators. A selector box is attached to the car and senses magnets placed on a steel tape to provide accurate car control throughout the travel.

The position of these magnets define these points for each landing; level up (LU), level down (LD), door zone (DZ), door zone rear (DZR), step up (STU), step down (STD), short floor door zone (SDZ), short floor level up (SLU) and short floor level down (SLD). An access limit switch (ALS) version is also available.

Hoistway/hatch

# Hoistway/Hatch Switches

## for generic applications

Schmersal switches

UL Listed

EECO switches

UL Listed

CSA Certified

### Limit (position) switches (by Schmersal)

Part Number	Description
197713	Limit switch with adjustable angular roller, 1 NO and 1 NC contacts, rated for 230VAC@4A or 24VDC@1A, plastic housing
Call	Z 231 limit switch, 1 NO contact, rated for 230VAC@4A or 400VAC@2.5A or 500VAC@1A, jump or snap action, plastic housing
Call	Z/T 235 limit switch, 2 NO or 2 NC or 1 NO and 1 NC contacts, rated for 230 VAC@4A or 24VDC@1A, jump, creep or snap action, metal housing
Call	Z/T 236 limit switch, 2 NO or 2 NC or 1 NO and 1 NC contacts, rated for 230 VAC@4A or 24VDC@1A, jump, creep, snap or without snap action, plastic housing
Call	Z/T 256 limit switch, 2 NO or 2 NC or 1 NO and 1 NC contacts, rated for 230 VAC@4A or 24VDC@1A, jump, creep, snap or without snap action, plastic housing
Call	T 335 limit switch, 2 NO or 2 NC or 1 NO and 1 NC contacts, rated for 230VAC@4A or 24VDC@1A, jump or snap action, metal housing
Call	T 336 limit switch, 2 NO or 2 NC or 1 NO and 1 NC contacts, rated for 230VAC@4A or 24VDC@1A, jump or snap action, plastic housing
Call	T 355 limit switch, 2 NO or 2 NC or 1 NO and 1 NC or 1 NO and 2 NC or 3 NC contacts, rated for 230VAC@4A or 24VDC@1A, jump or snap action, metal housing

NOTE: Many other actuators are available - call for details

197713



Z 231



Z/T 235



Z/T 236



Z/T 256



T 335



T 336



T 355



### Limit and magnetic switches (by EECO)

Part Number	Description
LS-1B	Limit switch, for setting zoning, normal and final limits, 1 NO and 1 NC contacts, rated for 300VAC@8A or 230VDC@1A
LS-1W	Limit switch, like LS-1B above but with weatherproof design
LS-1D	Limit switch, for setting zoning, normal and final limits, 2 NO and 2 NC contacts, rated for 300VAC@8A or 230VDC@1A
LS-1DW	Limit switch, like LS-1D above but with weatherproof design
MV-4C	Permanent magnet switch, for zone switches and leveling control units, dead zone <math>\lt; 1/8'' @ 1/4''</math> gap, 1 NO and 1 NC contacts, rated for 300VAC@8A or 230VDC@1A
MV-4W	Permanent magnet switch, like MV-4C above but with weatherproof design
MV-4D	Permanent magnet switch, for zone switches and leveling control units, dead zone <math>\lt; 1/8'' @ 1/4''</math> gap, 2 NO and 2 NC contacts, rated for 300VAC@8A or 230VDC@1A
MV-4DW	Permanent magnet switch, like MV-4D above but with weatherproof design
LDS3004A	Permanent magnet inductor switch, for slowdown and landing positions, recommended for retrofit of EECO vane operated landing systems, 1 NO and 1 NC contacts, rated for 250VDC@0.5A

LS-1B



MV-4C



LDS3004A



### Mounting brackets for limit switches

Part Number	Description
LS-1B-BRKT	Mounting bracket, for all EECO limit/magnetic switches
LS-BRKT-G	Mounting bracket, for 197713 limit switches
LS-BRKT-KIT-G	Mounting bracket kit, includes mounting bracket, hardware and one 197713 limit switch
LS-STRUTBRKT-17	17" adjustable strut-style bracket, assembled, with mounting hardware and one 197713 limit switch

LS-STRUTBRKT-17



# Hoistway/Hatch Switches for generic applications



## Magnetic switches (by Schmersal)

Part Number	Description
<b>Call</b>	<b>BN 310 magnet switch</b> , NO, NC or bistable contacts, rated for 250VAC@3A, 39 in • 1 m prewired cable, one reed contact, square shape with holes in housing, sideways operation
<b>BN 310-2rz</b>	<b>BN 310-2rz magnet switch</b> , bistable contacts, rated for 200VAC@1A, 39 in • 1 m prewired cable, one reed contact, square shape with holes in housing, sideways operation
<b>Call</b>	<b>BN 65 magnet switch</b> , NO, NC, bistable, changeover or bistable changeover contacts, rated for 250VAC@3A, 39 in • 1 m prewired cable, one reed contact, cylindrical shape with central screw, sideways operation
<b>Call</b>	<b>BN 65/V magnet switch</b> , NO, NC or bistable contacts, rated for 220VAC@1A, 39 in • 1 m prewired cable, two reed contacts, cylindrical shape with central screw, sideways or frontal operation
<b>Call</b>	<b>BNS 260 magnet switch</b> , 1 NO and 1 NC or 2 NC contacts (alarm 1 NO or 1 NC or without contact), rated for 75VAC@0.4A, 39 in • 1 m prewired cable, one reed contact, square shape (flat) with holes in housing or central screw, sideways operation, cULus approval pending

NOTE: Order magnets separately.

BN 310



BN 310-2rz



BN 65



BNS 260



## Door contacts (by Schmersal)

Part Number	Description
<b>AZ 05 K</b>	<b>AZ 05 door contact</b> , 1 NO contact, rated for 230VAC@2A or 200VAC@1A, with protection against accidental contact, contact pins in switch, internal cable connection
<b>AZ 051 K</b>	<b>AZ 051 door contact</b> , 1 NO contact, rated for 230VAC@2A or 200VAC@1A, contact pins in switch, internal cable connection
<b>AZ 06 KT</b>	<b>AZ 06 door contact</b> , 1 NO contact, rated for 230VAC@2A or 200VAC@2A, contact pins in bridge, internal cable connection, round mounting holes
<b>AZ 061 K</b>	<b>AZ 061 door contact</b> , 1 NO contact, rated for 230VAC@2A or 200VAC@2A, slim design, contact pins in bridge, internal cable connection
<b>AZ 07</b>	<b>AZ 07 door contact</b> , 1 NO contact, rated for 230VAC@2A or 200VAC@2A, contact pins in bridge, internal cable connection, slotted mounting holes
<b>Call</b>	<b>AZ 14-1 door contact</b> , 1 NO contact, rated for 380VAC@6A or 220VAC@2A, contact pins in bridge, external cable connection
<b>AZ 15zo-2036-3</b>	<b>AZ 15zo door contact</b> , 1 NO contact, rated for 230VAC@2A or 200 VAC@0.5A, double insulated, contact pins in bridge, three cable entries, external cable connection, UL approval pending
<b>AZ 19</b>	<b>AZ 19 door contact</b> , 1 NO contact, rated for 230VAC@2A or 200VAC@2A, contact pins in bridge, external cable connection

NOTE: Order contact bridge separately.

AZ 05 K



AZ 051 K



AZ 06 KT



AZ 07



AZ 14-1



AZ 15zo-2036-3



AZ 19



Hoistway/hatch



# Hoistway/Hatch Equipment

## for Armor, Dover and Haughton

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### Armor hoistway/hatch equipment

Part Number	OEM Part Number	Description
ARP-27	11845-01, B723006, B7230020	Magnetic leveling switch, 120V, 50 watt, Normally closed contacts, PM #3
ARP-27A	13239-01, B723016	Magnetic leveling switch, 110VDC Normally open contacts, PM #3
ARP-27B	13626-01, B817-8375-01	Photo switch #1
ARP-27C	11858-01, 11859-01 B723002, B723001	Limit switch replacement kit, kit includes all parts required to replace both #3 limit switches, replacement kit for old-style, N.O. & N.C.
ARP-27D	13626-03	Photo switch #3, 24VDC

### Dover hoistway/hatch equipment

Part Number	OEM Part Number	Description
DHE-1	9769729, 45731, 69726	Magnetic leveling switch, N.O., wires out of side
DHE-2	9813421, 113204	Magnetic leveling switch, N.O., wires out of back

### Haughton hoistway/hatch equipment

Part Number	OEM Part Number	Description
HRP-1	3-40156-88 35-2557-15	Magnetic leveling switch, mechanical style switch
HRP-1A	3-40156-89 35-2557-17	Magnetic leveling switch, electronic style switch
HRP-1D	3-40341-73	Optical leveling switch, 24VDC, dual beam

### Kone/Montgomery hoistway/hatch equipment

Part Number	OEM Part Number	Description
MHE-1	P33235-001	Limit switch assembly, N.C., wires out of back
MHE-3	P12926	Magnetic leveling switch assembly
MHE-7	P13347	Magnetic floor switch assembly

### Schindler/Westinghouse hoistway/hatch equipment

Part Number	OEM Part Number	Description
WW-24	151B452G01	Terminal Motion (T.M.) roller assembly kit 4" O.D., 13/16" wide, bearing 0.6693 I.D.

### US hoistway/hatch equipment

Part Number	OEM Part Number	Description
US-46	150-00116-001	Limit switch assembly, N.C.
US-46A	940-00012-000, 150-00280-001, 150-00142-007	Roller with clip, for limit switch US-46
US-46D	150-00643-001	Limit switch, N.C., new style, with air tire

ARP-27A



ARP-27B



ARP-27C



DHE-1



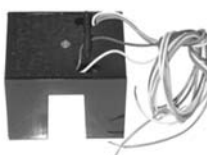
DHE-2



HRP-1A



HRP-1D



MHE-1



MHE-3



MHE-7



WW-24



US-46



US-46A



US-46D



# Guide Wheels and Rollers

## for Armor and Dover

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### Armor guide wheels and rollers

Part Number	OEM Part Number	Description
<b>AW-9</b>	11939-01, B653002	Roller guide wheel, 7" O.D., double bearing, 0.6693" I.D., threaded eccentric shaft 5/8" wide x 3-1/2" long with jam nut, tire face 1/2" wide, hub 1-1/8" wide
<b>AW-9A</b>	11940-01, B653003	Roller guide wheel, 7" O.D., double bearing, 0.6693" I.D. similar to AW-9 but without eccentric shaft tire face 1/2" wide, hub 1-1/8" wide
<b>AW-10</b>	11942-01, B653010	Counterweight roller guide wheel, 3-1/2" O.D., double bearing, 0.6693" I.D., similar to AW-10A but without eccentric shaft, tire face 1/2" wide, hub 1.05" wide
<b>AW-10A</b>	11941-01, B653009	Counterweight roller guide wheel, 3-1/2" O.D., double bearing, 0.6693" I.D., threaded eccentric shaft 1/2" wide x 1" long with hex nut, tire face 1/2" wide, hub 1.05" wide
<b>AW-14</b>	168962G01, 515606	Roller guide wheel, 7-7/8" O.D., double bearing shaft 2-3/4" long, tire face 3/8" wide, hub 1-1/2" wide



### Dover guide wheels and rollers

Part Number	OEM Part Number	Description
<b>DW-6</b>	9831873, 63187	Roller guide wheel, 4" O.D., single bearing, 0.6693" I.D., tire face 1/2" wide, hub 3/4" wide
<b>DW-7</b>	9872309	Counterweight roller guide, 3" O.D., single bearing, 0.7874" I.D., hub 13/16" wide
<b>DW-8</b>	9832774, 63277	Roller guide wheel, 4" O.D., double bearing, 0.6693" I.D., tire face 1/2" wide, hub 1-1/4" wide
<b>DW-14</b>	9831824, 63182	Roller guide wheel, 8" O.D., double bearing, 0.7874" I.D.

AW-14



DW-6



DW-7



DW-8



DW-14



# Guide Wheels and Rollers for GAL/Hollister Whitney and Haughton

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## GAL/Hollister Whitney guide wheels and rollers

Part Number	OEM Part Number	Description
<b>GW-1</b>	377-12	Roller guide wheel, 3-1/4" O.D., double bearing, 0.6693" I.D., tire face 1/2" wide
<b>GW-1A</b>	377-13	Roller guide wheel, 3-1/4" O.D., double bearing, 0.6693" I.D., tire face 3/4" wide
<b>GW-2</b>	378-12	Roller guide wheel, 6" O.D., double bearing, 0.6693" I.D., tire face 1/2" wide
<b>GW-2A</b>	378-13	Roller guide wheel, 6" O.D., double bearing, 0.6693" I.D., tire face 3/4" wide

## Haughton guide wheels and rollers

Part Number	OEM Part Number	Description
<b>HW-3</b>	3-40150-71	Roller guide wheel, 3-1/2" O.D., bearing, 0.6693" I.D., tire face 3/4" wide, hub 1-5/16" wide
<b>HW-4</b>	3-40196-74	Roller guide wheel, 3-1/2" O.D., bearing, 0.7874" I.D., tire face 1" wide, hub 1-5/16" wide
<b>HW-9</b>	3-40158-67	Roller guide wheel, 3-1/2" O.D., bearing, 0.5119" I.D., tire face 3/4" wide, hub 1-1/16" wide
<b>HW-12</b>	35-1159-002	Roller guide wheel, 8" O.D., bearing, 0.630 I.D., tire face 1/2" wide, hub 1-3/8" wide
<b>HW-12A</b>	3-40329-10	Roller guide wheel, 8" x 1-1/4", 7/8" I.D.

GW-1



GW-1A



GW-2



GW-2A



HW-3



HW-4



HW-9



HW-12



# Guide Wheels and Rollers

## for ELSCO, ESCO, Payne and Kone/Montgomery

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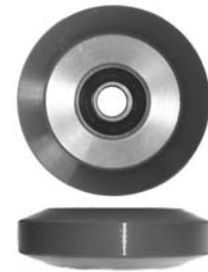
### ELSCO, ESCO and Payne guide wheels and rollers

Part Number	OEM Part Number	Description
MIS-142	n/a	ELSCO-style roller guide wheel, 6" O.D., double bearing, 0.7874" I.D., polyurethane tire 1-1/4" wide
MIS-143	n/a	ELSCO-style roller guide wheel, 3-1/4" O.D., double bearing, 0.4724 I.D., polyurethane tire 0.935" wide
MIS-143A	n/a	ESCO-style roller guide wheel, 3-1/4" O.D., double bearing, 0.5906 I.D., polyurethane tire 0.935" wide
MIS-187	n/a	Payne-style roller, 3" O.D., double bearing, 0.5906" I.D., tire face 3/8" wide, tire 1" wide
MIS-187A	n/a	Payne-style roller, 5" O.D., double bearing, 0.7874" I.D., tire face 1/2" wide, tire 1-1/4" wide
MIS-187B	n/a	Payne-style roller, 7" O.D., double bearing, 0.7874" I.D., tire face 1/2" wide, tire 1-1/4" wide

MIS-142



MIS-143



MIS-187



MIS-187A



MIS-187B



### Kone/Montgomery guide wheels and rollers

Part Number	OEM Part Number	Description
MW-2	P2964	Roller guide wheel, 3" O.D., bearing, 0.7874" I.D., tire face 1/2" wide
MW-3	P12963	Roller guide wheel, 3-15/16" O.D., bearing, 0.7874" I.D., tire face 7/8" wide
MW-4	P2654	Roller guide wheel, 4-3/8" O.D., bearing, 0.7874" I.D., tire face 7/8" wide tapering to 1/2"
MW-5	P3174	Roller guide wheel, 6-1/2" O.D., bearing, 0.9843" I.D., tire face 1-1/4" wide
MW-6	P2789	Roller guide wheel, 6-1/2" O.D., bearing, 0.9843" I.D., tire face 1-1/4" wide tapering to 1/2"
MW-10	P12592	Roller guide wheel, 7-3/4" O.D., bearing, 0.9843" I.D.
MW-11	P7087	Roller guide wheel, 10" O.D., bearing, 0.9843" I.D., for P28305 assembly, polyurethane tire

MW-2



MW-3



MW-4



MW-5



MW-6



MW-10



MW-11



# Guide Wheels and Rollers for Otis and Schindler/Westinghouse

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## Otis guide wheels and rollers

Part Number	OEM Part Number	Description
OW-3	456AK2	Roller guide wheel, 3-3/4" O.D., sealed maintenance-free bearing with 5/8" shaft, polyurethane tire
OW-4	456DN1	Roller guide wheel, 3" O.D., 1/2" NC threaded eccentric shaft 1" long, flat polyurethane tire face 3/8" wide
OW-4A	456DN2	Roller guide wheel, shaft 1-3/4" long
OW-4B	456DN3	Roller guide wheel, shaft 2-3/8" long
OW-7	456CL4	Roller guide wheel, 7-7/8" O.D., sealed maintenance-free bearing with threaded shaft, hub extends past tire width on shaft side, after Dec. '62, polyurethane tire 1-1/2" wide
OW-7A	59P2	Pivot bolt, for 7-7/8" roller guide assembly
OW-8	456CM4	Roller guide wheel, 4-7/8" O.D., maintenance-free sealed pump shaft bearing with 1" shaft, polyurethane tire, hub 2-5/8" wide
OW-9	456CN4	Roller guide wheel, 3-3/4" O.D. x 7/8", maintenance-free sealed pump shaft bearing with 1" shaft, polyurethane tire, 5/8" hub
OW-15	456AJ2	Roller guide wheel, 7-7/8" O.D. x 1-1/2", sealed maintenance-free bearing with shaft, hub extends past tire width on side opposite shaft, 1941 thru 1962, polyurethane tire, hub 1-1/2" wide

OW-3



OW-4



OW-7



OW-7A



OW-8



## Schindler/Westinghouse guide wheels and rollers

Part Number	OEM Part Number	Description
WW-20	144A277G01	Roller guide wheel, 3" O.D., 0.6693" I.D., 1" wide
WW-21	323C160G01 323C160G02	Roller guide wheel, 6" O.D., double bearing, 0.6693" I.D., tire face 13/16" wide
WW-21A	M5594G02	Roller guide wheel, 4-1/2" O.D., double bearing, 0.6693" I.D., polyurethane tire face 13/16" wide, hub 1-1/4" wide
WW-21B	M5594G04 M5594G05 M5594G01	Roller guide wheel, 3-1/2" O.D., double bearing, 0.6693" I.D., Polyurethane tire face, 5/8" wide
WW-21C	144A237H02	Polyurethane face bushing, 2-1/4" O.D., 13/16" I.D., for shaft WW-21F, 0.6 wide (1 per assembly)
WW-21D	K5212H05	Polyurethane side bushing, 2-1/4" O.D., 1/2" I.D., for shaft WW-21G 5/8" wide (2 per assembly)
WW-21E	144A233H01	Rubber washer, for roller guide wheel assembly
WW-23	M5594G03	Roller guide wheel, 10-1/4" O.D., 0.6693" I.D.

WW-20



WW-21



WW-21A



WW-21B



WW-21C



WW-21D



WW-21E



WW-23



# Guide Wheels and Rollers for US and Generic Applications

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## US guide wheels and rollers

Part Number	OEM Part Number	Description
<b>USW-1</b>	100-00080-001	Roller guide wheel, 6" O.D., polyurethane tire face 5/8" wide
<b>USW-3</b>	100-00075-001	Replacement roller guide assembly kit, with USW-1 wheels, kit consists of USW-2 roller guide assembly and USW-36A adapter, original mounting holes 8-1/4" c/c.
<b>USW-4</b>	114-00009-007	Roller guide wheel, 3-1/4" O.D., 5/8" I.D., tire face 15/16" wide
<b>USW-5</b>	100-00057-001	Roller guide assembly for hydro, with USW-4 wheels
<b>USW-6</b>	114-00054-001	Roller guide assembly for counterweight, with USW-4 wheels
<b>USW-7</b>	100-00100-001, 100-00100-002	Bolt and bushing kit, for 3" and 6" roller replacement
<b>USW-36A</b>	100-00004-001	Adapter plate, for USW-2 assembly when replacing old style 6" O.D. roller guide assembly

**USW-1**



**USW-3**



**USW-4**



**USW-5**



## Generic replacement guide wheels and rollers

Part Number	OEM Part Number	Description
<b>URG-001</b>	ELSCO Model D	Universal roller guide, for low-speed elevators and moderate-speed counterweights, with three 3-1/4" wheels, for capacities of up to 2,000 lbs. passenger cabs, 2,000 lbs. freight cabs and 4,000 lbs. counterweights and speeds of up to 250 ft/min for cabs and 800 ft/min for counterweights.
<b>URG-002</b>	ELSCO Model B	Universal roller guide, for moderate-speed elevators and high-speed counterweights, with three 6" wheels, for capacities of up to 4,500 lbs. passenger cabs, 6,000 lbs. freight cabs and 8,000 lbs. counterweights and speeds of up to 700 ft/min for cabs and 1,400 ft/min for counterweights
<b>URG-005</b>	ELSCO Model A	Universal roller guide, for high-speed elevators, with six 6" wheels, for capacities of up to 8,000 lbs. passenger cabs and 12,000 lbs. freight cabs and speeds of up to 1,500 ft/min for cabs
<b>URG-006</b>	ELSCO Model C	Universal roller guide, for low-speed elevators and moderate-speed counterweights, with six 3-1/4" wheels, for capacities of up to 2,500 lbs. passenger cabs and 8,000 lbs. counterweights and speeds of up to 400 ft/min for cabs and 800 ft/min for counterweights.

**USW-6**



**USW-7**



**USW-36A**



**URG-001**



**URG-002**



**URG-005**



**URG-006**



# Cab Products

## for all elevators

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### Cab signage and accessories

Part Number	Description
MIS-166E	Sign, "In case of fire do not use elevators," 5-1/2" x 8-1/2", stainless steel
MIS-166F	Sign, "Danger Electrical Machinery..." 7" x 10", poly-vinyl, self-adhesive
MIS-166H	Sign, freight "This is not a passenger elevator..." 5-1/2" x 8-1/2", stainless steel
MIS-166L	Sign, firemen's instructions for elevator car station, OFF/HOLD/ON, 5-1/2" x 8-1/2", stainless steel
MIS-166M	Sign, firemen's instructions for main station, 5-1/2" x 8-1/2", stainless steel
MIS-166N	Sign, firemen's instructions for elevator car station, OFF/ON, 5-1/2" x 8-1/2" stainless steel
MIS-182	Key box, 10" x 3" x 1-1/2", stainless steel
MIS-194A	Emergency light, self contained, tamper resistant, easily installed surface mounts above or near car station, 120V, stainless steel, 10" x 5-3/8" x 1-3/4" with white frosted durable plastic lens
MIS-194AL	Replacement lens, for emergency light, 5.1" x 9.4", white frosted durable plastic
MIS-BB-200	Bulletin board, stainless steel, 20" x 16", holds two standard 8-1/2" x 11" sheets side by side
MIS-BB-201	Bulletin board, as above but for single 8-1/2" x 14" legal size
MIS-CF-100	Certificate frame, 7" x 10", with plexiglass window 6" x 9", stainless steel
MIS-T-100	Telephone box, stainless steel cover 12-1/4" x 9", box measures 10-3/4" x 7-1/4" x 3" deep

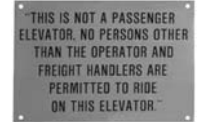
MIS-166E



MIS-166F



MIS-166H



MIS-166M



MIS-182



MIS-194A



MIS-BB-200



MIS-CF-100



MIS-T-100

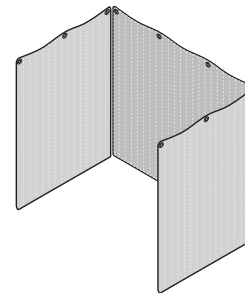


### Protection pads and accessories (order form on page 123)

Part Number	For Max Cab Inside Clear Size W x D x H	Description
PAD-2000	5' 8" x 4' 3" x 8'	Pad material, in quilted vinyl, grommets installed, flame-retardant per ASTM-E84, NFPA-701 and
PAD-2500	6' 8" x 4' 3" x 8'	CAN/ULC-S-109-M87-RC. Includes pad lock pins and storage bag, specify color. Gray and tan are stock - black, blue, green and brown available with short lead times. Custom sizes and configurations (front/rear door) are available
PAD-3000	6' 8" x 4' 9" x 8'	NOTE: see page 123 for ordering instructions and form
PAD-3500	6' 8" x 5' 5" x 8'	
PAD-4500	5' 8" x 7' 11" x 8'	
PAD-5000	5' 11" x 8' 6" x 8'	
PAD-WS-AL		Wall stud, aluminum, 2" long
PAD-WS-BR		Wall stud, brass, 2" long
PAD-WSRP-AL		Wall stud, aluminum, 3-1/4" long for raised panels
PAD-WSRP-BR		Wall stud, brass, 3-1/4" long for raised panels
PAD-WSST-AL		Wall stud, aluminum, #8 self-tapping screw
PAD-WSST-BR		Wall stud, brass, #8 self-tapping screw
PAD-FLATHOOK		Flat hook, vinyl coated
PAD-ROUNDHOOK		Round hook, vinyl coated
PAD-CEILHOOK		Ceiling hook, vinyl coated
PAD-RETCLIP		Retaining clip, sold 15 per package
PAD-STOR-BAG		Storage bag, for pad material

Pads are flame retardant per ASTM-E84, MVSS302 & UL9LI, NFPA-701

PAD-2000



PAD-WS-AL



PAD-WSRP-AL



PAD-WSST-AL



PAD-FLATHOOK



PAD-ROUNDHOOK



PAD-CEILHOOK



PAD-RETCLIP

Protection pads can be made to fit almost any elevator. Call Draka EP for a quotation on custom-sized protection pads.

# Cab Products

## for all elevators

This catalog lists our most popular parts; thousands of others are available. Call or visit our website for more information.

### Rails for car interiors

Car rails come in either brass or stainless steel and in a broad range of bracket styles and finials to fit almost every interior design scheme. All versions come in surface-mounted or bolted configurations.

All rails are custom manufactured. Along with specifying the style and finish, please provide the overall length and the center to center dimension for the brackets. Please allow at least 2 weeks for delivery.

Choose from the following options:

#### Bracket styles

- 1 - DP brackets
- 2 - Sigma brackets
- 3 - Classic brackets
- 4 - Round center post brackets (not shown)
- 5 - Flat center post brackets
- 6 - Flat bar brackets

#### Material

- 0 - Brass (polished)
- 1 - Brass (brushed)
- 2 - Stainless (polished)
- 3 - Stainless (brushed)
- 4 - Brass (antique)
- 5 - Brass (antique satin)

#### Finials

- 0 - Flat cap
- 1 - Domed cap
- 2 - Ball
- 3 - Wall return 915X
- 4 - Wall return left / domed right
- 5 - Wall return right / domed left
- 6 - Straight both ends
- 7 - Angle return left / straight right
- 8 - Angle return right / straight left
- 9 - Angle both ends

#### Coating

- 1 - Uncoated (standard)
- 2 - Lacquer

The part number can be derived by selecting the number for the bracket style, material, finial and coating (see pictured examples). Be sure to include the overall length and the center-to-center length of each rail.

#### BRACKET STYLES



1) DP



2) Sigma



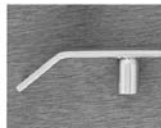
3) Classic



2) Sigma

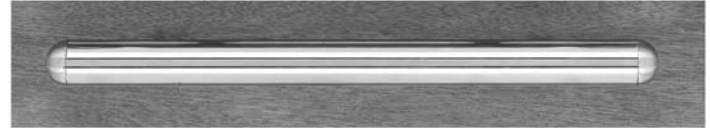


5) Flat center post

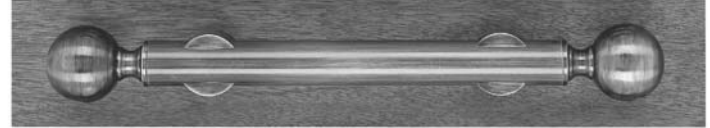


6) Flat bar

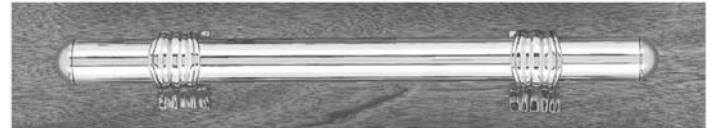
#### MATERIAL, FINIAL STYLE AND COATING



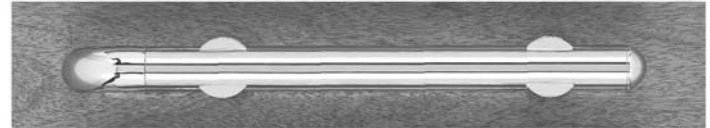
3) Brushed stainless with 1) Domed cap finial and 0) No coating (#1310)



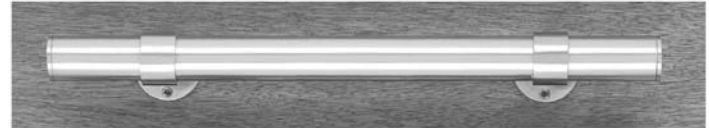
5) Antique brass with 2) Ball finial and 1) Lacquer coating (#2521)



0) Polished brass with 1) Domed cap finial and 1) Lacquer coating (#3011)



3) Brushed stainless with 5) Wall return 915x and 0) No coating (#2350)



1) Brushed brass with 0) Flat cap and 1) Lacquer coating (#5101)



0) Polished brass with 8) Angled return right and 1) Lacquer coating (#6081)



# Escalator Components for Houghton and Kone/Montgomery

This catalog lists our most popular parts; thousands of others are available. Call or visit our website for more information.

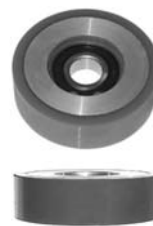
## Houghton escalator components

Part Number	OEM Part Number	Description
HWE-1	97662	Escalator wheel, for chain roller, 3-1/2" O.D. x 1-1/32" wide, 0.7874 bearing I.D.
HWE-2	97444, 93485	Step roller, 3" O.D. x 1" wide, Peelle style
HWE-3	80004	Step roller, 3-1/2" O.D. x 1-1/32" wide

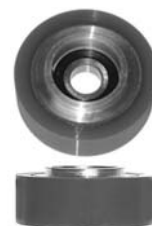
## Kone/Montgomery escalator components

Part Number	OEM Part Number	Description
ME-10	P16353, P22723	Wheel and bracket assembly
ME-12	60263-010	Guide, handrail polyguide, 12 ft
ME-12A	P7395	Guide, step polyguide
ME-13	B32484	Comb plate, center, 8-3/8" W, 25 teeth for 3E, 4E and 5E
ME-13Y		Comb plate, yellow version of ME-13
ME-15	B46670	Comb plate, R.H., 8" W, 23-1/2 teeth for 3E and 4E
ME-15Y		Comb plate, yellow version of ME-15
ME-16	B46635	Comb plate, R.H., 7-5/8" W, 22-1/2 teeth for 5E
ME-16Y		Comb plate, yellow version of ME-16
ME-17	B46634	Comb plate, L.H., 7-5/8" W, 22-1/2 teeth for 5E
ME-17Y		Comb plate, yellow version of ME-17
ME-20	P27266	Step roller, for outdoor service, 3-15/16" x 1 1/4" W x 0.7874 I.D.
ME-21	A32926	Support curve, Novatex board 35-3/8" L
ME-22	59259	Support, Novatex board
ME-23	P23893	Stop switch cover, spring hinged
ME-27	41129	Switch access cover
ME-32	35981	Tach generator, 24V, 1500 RPM
MW-3	P12963	Roller guide wheel, 3-15/16" O.D., bearing, 0.7874" I.D., tire face 7/8" wide
MW-3B	P5985	Roller guide wheel, 3-15/16" O.D., bearing, 0.7874" I.D., tire face 1-1/4" wide

HWE-1



HWE-2



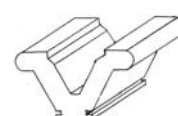
HWE-3



ME-10



ME-12



ME-12A



ME-13



ME-16



ME-20



ME-21



ME-22



ME-27



ME-32



MW-3



MW-3B



ME-23



# Escalator Components for Schindler/Westinghouse

This catalog lists our most popular parts; thousands of others are available. Call or visit our website for more information.

## Schindler/Westinghouse escalator components

Part Number	OEM Part Number	Description
WEW-1	217B235H07	Step chain roller, O.D. 5-1/4", 1-3/16" W, with double bearing, 0.6693" I.D., 7/8" tire face, for types S, L, M, N & NT, trail roller for Type S
WEW-2	216B509G04	Escalator roller, 4" O.D., with bearing 0.6693 I.D. 3/4" tire face
WEW-5	691B785G05, 691B785G07	Trail roller, 3" O.D. x 1-1/4", single bearing, 0.6693 I.D. 5/8" tire face, for type BB & BT
WEW-5A	691B785G06, 691B785G08	Trail roller, 3" O.D. x 1-1/4", Same as WEW-5 but with double bearing
WEW-6	691B785G01, 691B785G03	Step guide roller, 3" O.D. x 1-1/4 W", single bearing, 0.6693 I.D. 1-3/32" tire face, for type BB & BT
WEW-6A	691B785G02, 691B785G04	Step guide roller, 3" O.D. x 1-1/4", Same as WEW-6 but with double bearing
WEW-7	152B238G01, 152B238G02	Handrail drive roller, O.D. 5-5/16", 1-3/8" W For types N & NT
WEW-9	5199D27G01	Pressure roller assembly, coil spring type, c/c 5-1/2" mounting holes
WEW-9A	5193D59G02	Pressure roller assembly, leaf spring type, c/c 5-1/2" mounting holes
WEW-12	325C359G01	Pressure roller, O.D. 2-1/2" x 3" L
WEW-13	196C271G01	Handrail drive roller, 5-11/64" diameter, 3/4" I.D.
WEC-20	466D034G03	150 MFD capacitor, 1.5 - 9.0 seconds
WE-11B	626D315H06	Comb plate, center, 5-3/4" W, 16 teeth for 32BT and 48BB
WE-11B-Y		Comb plate, yellow version of WE-11B
WE-34C	1727C81G0	Plunger assembly kit, shown assembled

WEW-1



WEW-2



WEW-5



WEW-5A



WEW-6



WEW-6A



WEW-7



WEW-9



WEW-12



WEW-13



WE-11B



WE-34C



WEW-9A





# Electrical Components

Starter sets and reversing starters (by LG Industrial Systems)

## Starter sets

Part Number	Description	Operating Voltage(s) • Amps
LGS-1	Starter, size 1++	208V • 28-40A
LGS-2	Starter, size 1++	120V • 28-40A
LGS-3	Starter, size 1++	240V • 28-40A
LGS-4	Starter, size 2	120V • 34-50A
LGS-5	Starter, size 2	208V • 34-50A
LGS-6	Starter, size 2	240V • 34-50A
LGS-7	Starter, size 2+	120V • 54-75A
LGS-8	Starter, size 2+	208V • 54-75A
LGS-9	Starter, size 2+	240V • 54-75A
LGS-10	Starter, size 2+	480V • 54-75A
LGS-11	Starter, size 3	120V • 63-85A
LGS-12	Starter, size 3	208V • 63-85A
LGS-13	Starter, size 3	240V • 63-85A
LGS-14	Starter, size 3	480V • 63-85A
LGS-15	Starter, size 3+	120/240VAC • 100 A
LGS-16	Starter, size 4	120/240VAC • 150 A

## Reversing starter sets and mounting plates

Part Number	Description	Operating Voltage(s) • Amps
LGRS-1	Reversing starter, size 1+	240V • 50A
LGRS-2	Reversing starter, size 2	120V • 70A
LGRS-3	Reversing starter, size 2	240V • 70A
LGRS-4	Reversing starter, size 2+	120V • 90A
LGRS-5	Reversing starter, size 2+	240V • 90A
LGRS-6	Reversing starter, size 3	240V • 100A
LGRS-7	Reversing starter, size 3	120V • 100A
LGRS-8	Reversing starter, size 3+	100/240V • 85-125A
LGRS-9	Reversing starter, size 3++	100/240V • 85-125A
LGRS-10	Reversing starter, size 0	24V • 16-22A
LGRS-11	Reversing starter, size 4	110-220V • 150A

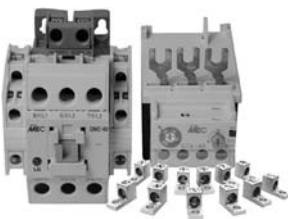
## Starter sets with rail mounting kits

Part Number	Description
LGS-1D	LGS-1 starter, size 1++ with DIN rail kit
LGS-2D	LGS-2 starter, size 1++ with DIN rail kit
LGS-3D	LGS-3 starter, size 1++ with DIN rail kit
LGS-4D	LGS-4 starter, size 2 with DIN rail kit
LGS-5D	LGS-5 starter, size 2 with DIN rail kit
LGS-6D	LGS-6 starter, size 2 with DIN rail kit
LGS-7D	LGS-7 starter, size 2+ with DIN rail kit
LGS-8D	LGS-8 starter, size 2+ with DIN rail kit
LGS-9D	LGS-9 starter, size 2+ with DIN rail kit
LGS-10D	LGS-10 starter, size 2+ with DIN rail kit
LGS-11D	LGS-11 starter, size 3 with DIN rail kit
LGS-12D	LGS-12 starter, size 3 with DIN rail kit
LGS-13D	LGS-13 starter, size 3 with DIN rail kit
LGS-14D	LGS-14 starter, size 3 with DIN rail kit

## Mounting rails, plates and interlocks

Part Number	Description
MIS-001	DIN rail kit, 6" 35mm
MIS-002	DIN rail kit, 5" 35mm
MIS-003	DIN rail kit, 4" 35mm
MIS-004	DIN rail kit, 3" 35mm
LGRS-1B	Mounting plate, for reversing starters LGRS-1 thru LGRS-8
LGRS-1C	Mounting plate, for reversing starters LGRS-9 & LGRS-11
LGIL-1	Mechanical interlock, for reversing starters LGRS-1 thru LGRS-8
LGIL-2	Mechanical interlock, for reversing starters LGRS-9 & LGRS-11

LGS-1



LGS-7



LGS-15



LGRS-1



MIS-001



# Electrical Components

Contactors, soft starters and relays (by LG Industrial Systems)

LG products

UL Listed

S+S products

cULus Listed

## Contactors

Part Number	Description
LGC-1	Contactor, 10HP @ 230VAC, 40A
LGC-2	Contactor, 20HP @ 230VAC, 65A
LGC-3	Contactor, 30HP @ 230VAC, 85A
LGC-4	Contactor, 3HP, 120VAC, 18A
LGC-5	Contactor, 7.5HP, 120VAC, 32A
LGC-6	Contactor, 10HP, 120VAC, 40A
LGC-7	Contactor, 20HP, 120VAC, 65A
LGC-8	Contactor, 30HP, 120VAC, 85A
LGC-9	Contactor, 40HP, 110/120VAC 125A

## Coils

Part Number	Description
LGC-C1	Coil, 120VAC for LGS-1, 2, 3
LGC-C2	Coil, 208VAC for LGS-1, 2, 3
LGC-C3	Coil, 220VAC for LGS-1, 2, 3
LGC-C4	Coil, 240VAC for LGS-1, 2, 3
LGC-C5	Coil, 440VAC for LGS-1, 2, 3
LGC-C6	Coil, 120VAC for LGS-4 thru LGS-14
LGC-C7	Coil, 208VAC for LGS-4 thru LGS-14
LGC-C8	Coil, 220VAC for LGS-4 thru LGS-14
LGC-C9	Coil, 240VAC for LGS-4 thru LGS-14
LGC-C10	Coil, 440VAC for LGS-4 thru LGS-14
LGC-C11	Coil, 480VAC for LGS-4 thru LGS-14
LGC-C12	Coil, 110VDC for ARP-62
LGC-C13	Coil, 110VDC for ARP-63
LGC-C14	Coil, 24VAC for LGRS-10

## Soft starters (by Sprecher + Schuh)

Part Number	Description
PESC-52-240V	Soft starter, 52A, 208-240VAC Y/D
PESC-64-240V	Soft starter, 64A, 208-240VAC Y/D
PESC-64-480V	Soft starter, 64A, 440-480VAC Y/D
PESC-78-240V	Soft starter, 78A, 208-240VAC Y/D
PESC-78-480V	Soft starter, 78A, 440-480VAC Y/D
PESC-104-240V	Soft starter, 104A, 208-240VAC Y/D
PESC-104-480V	Soft starter, 104A, 440-480VAC Y/D
PESC-146-240V	Soft starter, 146A, 208-240VAC Y/D
PESC-146-480V	Soft starter, 146A, 440-480VAC Y/D
PESC-168-240V	Soft starter, 168A, 208-240VAC Y/D
PESC-168-480V	Soft starter, 168A, 440-480VAC Y/D

## Auxiliary contact blocks

Part Number	Description
LGAX-1	Auxiliary contact block, 1 pole, 1 N.O./ 1 N.C.
LGAX-2	Auxiliary contact block, 4 pole, 4 N.O.
LGAX-3	Auxiliary contact block, 4 pole, 2 N.O./ 2 N.C.
LGAX-4	Auxiliary contact block, 2 pole, 2 N.C.
LGAX-5	Auxiliary contact block, 2 pole, 2 N.O.
LGAX-6	Auxiliary contact block, 2 pole, 1 N.O./ 1 N.C.

## Rail overload relays and adapters

Part Number	Description
LGOL-1	Overload relay, 28-40A
LGOL-2	Overload relay, 34-50A
LGOL-3	Overload relay, 54-75A
LGOL-4	Overload relay, 63-85A
LGOA-1	DIN rail overload adaptor, for LGOL-1
LGOA-2	DIN rail overload adaptor, for LGOL-2, 3, 4

## Motor protection relays

Part Number	Description
LGM-1	Digital motor protection relay, 5-60A

LGC-1



PESC-104-240V



# Electrical Components

Power controls (assembled by Draka Elevator Products)

## Five-button pendant stations (Up, Down, Common, Locking Stop and Tubular Key Switch)

Part Number	Description	Cable Length ft • m	Termination(s)
PEND-5B-T	Pendant station	unwired	none
PEND-5W-T	Pendant station, with pigtail	15 • 4.6	loose wires
PEND-5W-TC	Pendant station, with pigtail	15 • 4.6	male connector
PEND-5W-TV	Pendant station, with pigtail	made to order	loose wires
PEND-15-1	Cable extension	15 • 4.6	female connector/loose wires
PEND-50-1	Cable extension	50 • 15.2	female connector/loose wires
PEND-15-2	Cable extension	15 • 4.6	female connector/ male connector
PEND-50-2	Cable extension	50 • 15.2	female connector/ male connector
PEND-5W-TG	Pendant station, with pigtail and GFCI	15 • 4.6	loose wires
PEND-5W-TGC	Pendant station, with pigtail and GFCI	15 • 4.6	male connector
PEND-5W-TGV	Pendant station, with pigtail and GFCI	made to order	loose wires
PEND-15G-1	Cable extension, for GFCI versions	15 • 4.6	female connector/loose wires
PEND-50G-1	Cable extension, for GFCI versions	50 • 15.2	female connector/loose wires
PEND-15G-2	Cable extension, for GFCI versions	15 • 4.6	female connector/ male connector
PEND-50G-2	Cable extension, for GFCI versions	50 • 15.2	female connector/ male connector
18/6 SEOW	Cut-to-length cable, for non-GFCI versions	specify	none
14/3-18/5 SEOW	Cut-to-length cable, for GFCI versions	specify	none
PEND-8PLUG	8-conductor replacement plug kit		
PEND-8REC	8-conductor replacement receptacle kit		
PEND-TUBEKEY	Key switch tubular replacement, with mounting hardware		
PEND-UP	Up button replacement, with 1 NO + 1 NC contact blocks and mounting hardware		
PEND-DOWN	Down button replacement, with 1 NO + 1 NC contact blocks and mounting hardware		
PEND-ENABLE	Common button replacement, with 1 NO contact block and mounting hardware		
PEND-STOP	Emergency stop button replacement, with 1 NC contact block and mounting hardware		

PEND-5 series pendant stations are made of rugged high-impact plastic for both durability and electrical safety. Keyed lockout and two-handed operation further increase their safe usage. Options include a 15' • 4.6 meter pigtail; GFCI (Ground Fault Circuit Interrupter) on the pigtail; connectorized pigtails; and modular cable extensions of either 15' • 4.6 meters or 50' • 15.2 meters.



## Top Of Car Inspection (TOCI) stations (cCSAus pending)

Part Number	Description
TOCI-L	Top of car inspection box, with GFCI receptacle and light fixture/cage
TOCI-LF	Top of car inspection box, with GFCI receptacle, light fixture/cage and fire service light/buzzer indicators
TOCI-LA	Top of car inspection box, with GFCI receptacle, light fixture/cage and audible 6-28 VDC alarm
TOCI-LFA	Top of car inspection box, with GFCI receptacle, light fixture/cage, fire service light/buzzer indicators and audible 6-28 VDC alarm
CNTBLK-NO	Additional NO contact block
CNTBLK-NC	Additional NC contact block

TOCI stations house large, easy-to-read UP, DOWN, COMMON and STOP controls as well as a normal/inspection switch, GFCI receptacle and light fixture/cage in a bright yellow metal enclosure. They are available in four versions - with lamp fixture, lamp/fire service, lamp/alarm and lamp/fire service/alarm. NOTE: All stations come unwired; some field assembly required. Light bulb not included.



## Stop switches (UL listed/CSA certified)

Part Number	Description	Quantity
EN418-A	Locking stop switch	1

EN418-A stop switches are UL/CSA approved and use a push-pull action for sure, safe operation. A four-prong guard helps prevent accidental engagement of the switch. Large diagrams printed on the switch show clearly which are the RUN and STOP positions, while indicator windows show 'green for go' when the switch is in the ON position and 'red for stop' when in the STOP position.



# Electrical Components

## Rail-mounted terminal blocks with CAGE CLAMP® connections (by WAGO)



### Through terminal blocks

Part Number	Description	Size AWG • mm <sup>2</sup>
279-901	2 conductor	16 • 1.5
280-901	2 conductor	14 • 2.5
281-901	2 conductor	12 • 4.0
282-901	2 conductor	10 • 6.0
284-901	2 conductor	8 • 10
283-901	2 conductor	6 • 16
285-635	2 conductor	2 • 35
279-681	3 conductor	16 • 1.5
280-681	3 conductor	14 • 2.5
281-681	3 conductor	12 • 4.0
282-681	3 conductor	10 • 6.0
284-681	3 conductor	8 • 10
283-671	3 conductor	6 • 16
279-831	4 conductor	16 • 1.5
280-833	4 conductor	14 • 2.5
281-652	4 conductor	12 • 4.0

Corresponding end plates are available

### Ground conductor terminal blocks

Part Number	Description	Size AWG • mm <sup>2</sup>
279-907	2 conductor	16 • 1.5
280-907	2 conductor	12 • 2.5
281-907	2 conductor	12 • 4.0
282-907	2 conductor	10 • 6.0
284-907	2 conductor	8 • 10
283-907	2 conductor	6 • 16
285-637	2 conductor	2 • 35
279-687	3 conductor	16 • 1.5
280-687	3 conductor	12 • 2.5
281-687	3 conductor	12 • 4.0
282-687	3 conductor	10 • 6.0
284-687	3 conductor	8 • 10
283-677	3 conductor	6 • 16
279-837	4 conductor	16 • 1.5
280-837	4 conductor	14 • 2.5
281-657	4 conductor	12 • 4.0

Corresponding end plates are available

### High-current through terminal blocks

Part Number	Description	Size AWG • mm <sup>2</sup>
285-195	2 conductor	2 to 3/0
285-407	2 conductor voltage tap	24 to 6

### High-current ground conductor blocks

Part Number	Description	Size AWG • mm <sup>2</sup>
285-197	2 conductor	2 to 3/0

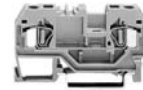
### Carrier rails

Part Number	Description	Length ft • m
210-113	DIN 35 rail, steel/unslotted	6.6 • 2
210-112	DIN 35 rail, steel/slotted	6.6 • 2
210-111	DIN 15 rail, steel/slotted	6.6 • 2
249-116	Screwless end stop for carrier rail	

210-113



279-901



279-681



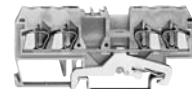
279-831



279-687



279-837



285-197





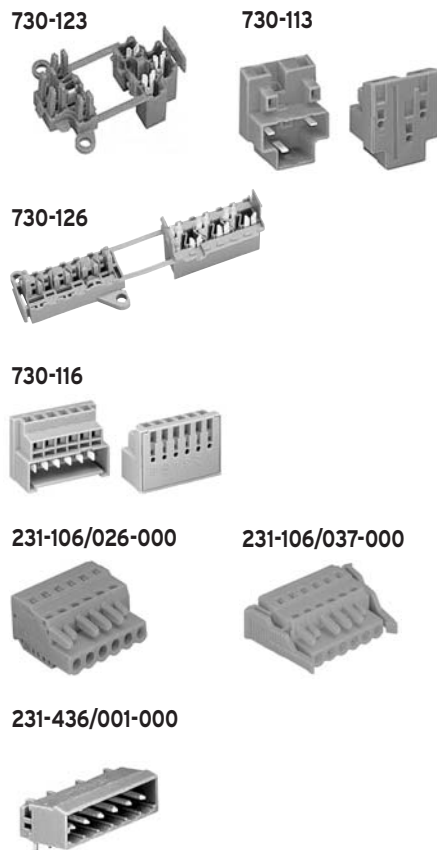
# Electrical Components

Connectors and tools with CAGE CLAMP® connections (by WAGO)

## Connectors

Part Number	Description	Size AWG • mm <sup>2</sup>	Spacing
730-123	Wire-tap branch female connector, 3-pole	16 • 1.5	
730-113	Wire-tap branch male connector, 3-pole	14 • 2.5	
730-126	Wire-tap branch female connector, 6-pole	16 • 1.5	
730-116	Wire-tap branch male connector, 6-pole	14 • 2.5	
231-106/026-000*	Female connector, 6-pole	28 to 12 • 0.08 to 2.5	5 mm
231-306/026-000*	Female connector, 6-pole	28 to 12 • 0.08 to 2.5	0.2 in
231-206/026-000*	Female connector, 6-pole	28 to 12 • 0.08 to 2.5	7.5 mm
231-706/026-000*	Female connector, 6-pole	28 to 12 • 0.08 to 2.5	0.3 in
231-106/037-000*	Female connector, 6-pole, w/ locking device	28 to 12 • 0.08 to 2.5	5 mm
231-306/037-000*	Female connector, 6-pole, w/ locking device	28 to 12 • 0.08 to 2.5	0.2 in
231-206/037-000*	Female connector, 6-pole, w/ locking device	28 to 12 • 0.08 to 2.5	7.5 mm
231-706/037-000*	Female connector, 6-pole, w/ locking device	28 to 12 • 0.08 to 2.5	0.3 in
231-436/001-000*	Headers w/ solder pins	28 to 12 • 0.08 to 2.5	5 mm
231-536/001-000*	Headers w/ solder pins	28 to 12 • 0.08 to 2.5	0.2 in
231-836/001-000*	Headers w/ solder pins	28 to 12 • 0.08 to 2.5	7.5 mm
231-936/001-000*	Headers w/ solder pins	28 to 12 • 0.08 to 2.5	0.3 in
231-436/040-000*	Headers w/ solder pins w/ fixing flanges	28 to 12 • 0.08 to 2.5	5 mm

\* Available in 2 to 24 poles



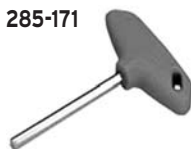
## Tools

Part Number	Description
210-620	Screwdriver, with partially insulated shaft
285-171	Universal T-tool, for use with high-current terminal blocks
206-204	Variocrimp 4 crimping tool, 24 AWG - 12 AWG • 0.25 mm <sup>2</sup> - 4 mm <sup>2</sup>
206-216	Variocrimp 16 crimping tool, 10 AWG - 6 AWG • 6 mm <sup>2</sup> - 16 mm <sup>2</sup>
Call	Insulated ferrules, 0.25 mm <sup>2</sup> to 16 mm <sup>2</sup>
Call	Uninsulated ferrules, 0.25 mm <sup>2</sup> to 16 mm <sup>2</sup>

210-620



285-171



206-204



INSULATED FERRULES



UNINSULATED FERRULES



# Safety Equipment



## Compliance safety fall kit

Part Number	Description
SK-DRAKA-1	Basic safety fall kit, with compliance-level harness, lanyard, cross-arm strap and duffel bag to hold everything

SK-DRAKA-1



## Premium safety fall kit

Part Number	Description
SK-DRAKA-2	Premium safety fall kit, with premium-level harness, lanyard, cross-arm strap and duffel bag to hold everything

SK-DRAKA-2



## Safety kit

Part Number	Description
SK-DRAKA-3	Safety kit, contains all of the items listed below*, each item available separately
SK-463942	Hard hat
SK-9305CVA	Goggles
SK-43MB000	Safety glasses
SK-8511	Dust/mist respirator
SK-MAXLITE	Ear plugs, package of 10
SK-30338018	In-line GFCI
SK-02801-00-18	Current tester for GFCI device
SK-34575H	First aid kit
SK-MLT407RVTP	Lock-out tags, package of 25
SK-65960	Lock-out hasp, package of 2
SK-1502RED	Pad lock
SK-7100-02	Knee pads, 1 pair
SK-1JL4095UL	Gloves, with leather palms
SK-GB5020P	Duffel bag, *optional with SK-DRAKA-3 safety kit

SK-DRAKA-3



## Rope grabs

Part Number	Description
SK-8174X	Rope grab, 5/8" synthetic
SK-8172	Rope grab, 5/16" wire

## Sorbent oil spill absorber

Part Number	Description
SK-SOR-TK	Sorbent, truck kit
SK-SOR-20G	Sorbent, 20 gallons

SK-SOR-TK



SK-SOR-20G



## Safety service barricades

Part Number	Description
SK-SSB3	Safety barricades, three panels wide, interior panel is 34 in • 86.4 cm wide, outer panels are 30 in • 76.2 cm wide
SK-SSB4	Safety barricades, four panels wide, interior panels are 34 in • 86.4 cm wide, outer panels are 30 in • 76.2 cm wide
SK-SSB6	Safety barricades, six panels wide, interior panels are 34 in • 86.4 cm wide, outer panels are 30 in • 76.2 cm wide

SK-SSB4





# Terms and Conditions

## Warranty and Ordering Information

### Sales terms and conditions

#### Terms

Full payment due within thirty (30) days of invoice date.

#### Conditions

As stipulated on our acknowledgments and invoices.

#### Freight and Insurance

F.O.B. origin.

### Warranty conditions

All goods offered for sale by Draka Elevator Products, Inc. (hereinafter Draka EP) are offered for sale only on those terms and conditions appearing on the reverse side of Draka EP's Quotation Order Acknowledgment and/or Invoice forms. A SUMMARY OF THE MORE IMPORTANT PROVISIONS OF THESE TERMS AND CONDITIONS OF SALE IS REPRODUCED BELOW.

#### General

All sales and charges for goods or services sold by Draka EP shall be subject to the terms and conditions set forth on Draka EP Quotation, Order Acknowledgment and/or Invoice forms. Such terms and conditions shall be the sole and exclusive terms and conditions applicable to any sale. Draka EP will not be bound by any terms and conditions proposed by any buyer, which are additional to or different from the terms and conditions referred to above.

#### Prices

Unless otherwise agreed to in writing, a buyer shall pay to Draka EP its prices for the goods in effect on the date of shipment by Draka EP. All prices are F.O.B. origin apart from those exceptions set forth in Draka EP's Quotation, Order Acknowledgment or Invoice forms. The prices specified do not include sales, use, excise, or similar taxes.

#### Transportation and Routing

Draka EP shall have the sole control and discretion with respect to mode of transportation and routing.

#### Risk of Loss

The risk of loss of or damage to the goods shall pass to a buyer at the time Draka EP puts the goods in possession of a common carrier.

#### Force Majeure

Draka EP shall not be responsible or liable for any delay or failure to deliver any goods if such delay is deemed by statute or otherwise as force majeure.

#### Shipping Dates

All shipping dates are approximate only. No guarantee of any shipping date is made unless such guarantee and its terms are specifically stated in writing.

#### Warranties

(a) Draka EP's Type ETT Round Travelling Cable (SUPER-FLEX®), Hoistway Cable (SUPER-DUCT®), Compensation Cable (WHISPER-FLEX® and STEADI-FLEX®) and metal wireway are warranted to be free from defects in material and workmanship for the installed life of the product. (b) All other goods manufactured by Draka EP are warranted to be free from defects in material and workmanship for a period of one (1) year commencing on the date of shipment to buyer. DRAKA EP'S SOLE AND EXCLUSIVE OBLIGATIONS AND LIABILITIES UNDER THESE WARRANTIES ARE AND SHALL BE LIMITED TO ISSUANCE OF CREDIT FOR OR REPAIR OR REPLACEMENT OF ANY GOODS OR PARTS THEREOF WHICH ARE PROVED TO BE OTHER THAN AS WARRANTED, AND DRAKA EP SHALL HAVE SOLE DISCRETION AS TO WHICH OF THESE REMEDIES IT SHALL PROVIDE. DRAKA EP SHALL NOT REIMBURSE OR MAKE ANY ALLOWANCE TO BUYER FOR ANY LABOR CHARGES INCURRED BY BUYER FOR REPLACEMENT, ADJUSTMENT, OR REPAIR OF ANY GOODS OR PARTS THEREOF OR FOR ANY OTHER WORK UNLESS SUCH CHARGES ARE AUTHORIZED IN ADVANCE BY DRAKA EP. (c) If any of the goods on which Draka EP's warranties have not expired are claimed to be defective in material or workmanship, Draka EP shall either examine the goods where they are located or, in its sole discretion, issue shipping instructions for return of the goods or any defective parts thereof, if any goods or parts thereof are returned to Draka EP, the Buyer shall prepay all transportation charges for such return. (d) Any claim for breach of Draka EP's warranties shall conclusively be deemed to be waived unless written notice of such claim is given to Draka EP within ten (10) days after the date on which the claimed defect is discovered. (e) Draka EP's warranties shall be null and void if the original buyer for use transfers ownership of the warranted goods, unless Draka EP is notified in writing of the transfer and of the name and address of the new owner within fifteen (15) days after the date on which the transfer is made. (f) Draka EP's warranties shall not apply to any goods or parts thereof which have been subjected to

any misuses, neglect or accidental damage or which contain defects which are in any way attributable to improper installation or to alterations or repairs made or performed by any person or entity not under the control of Draka EP. Further, Draka EP's warranties shall not apply to any goods or parts thereof which are obtained from manufacturers other than Draka EP and resold by Draka EP. (g) THE WARRANTIES SET FORTH HEREIN ARE DRAKA EP'S SOLE AND EXCLUSIVE WARRANTIES FOR OR RELATING TO THE GOODS. DRAKA EP NEITHER MAKES NOR ASSUMES ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, ANY WARRANTY THAT THE GOODS SHALL BE DELIVERED FREE OF THE RIGHTFUL CLAIM OF ANY THIRD PERSON BY WAY OF INFRINGEMENT OR THE LIKE, OR ANY OTHER WARRANTY OF ANY KIND, EXPRESS, IMPLIED, OR STATUTORY. DRAKA EP NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY OTHER LIABILITY OR OBLIGATION IN CONNECTION WITH THE SALE OR USE OF THE GOODS, AND THERE ARE NO ORAL AGREEMENTS OR WARRANTIES COLLATERAL TO OR AFFECTING THE SALE OF THE GOODS. (h) DRAKA EP'S WARRANTIES, OBLIGATIONS AND LIABILITIES AND BUYER'S REMEDIES SET FORTH HEREIN ARE LIMITED TO THEIR PRECISE TERMS. DRAKA EP SHALL NOT BE LIABLE FOR ANY DAMAGES OF ANY KIND, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, FOR, RESULTING FROM OR IN CONNECTION WITH ANY BREACH OF WARRANTY. THE OBLIGATIONS AND LIABILITIES OF SELLER AND THE REMEDIES OF BUYER SET FORTH HEREIN SHALL BE THE BUYER'S SOLE AND EXCLUSIVE REMEDIES FOR, RESULTING FROM OR IN CONNECTION WITH DRAKA EP'S WARRANTIES OR ANY BREACH THEREOF.

#### Cancellation

Orders may be cancelled only with Draka EP's written consent.

### Ordering information

All catalogued items are generally in stock and available for immediate delivery. Call Draka EP for the name of the distributor nearest you.

Draka EP reserves the right to improve, enhance, or modify the features and specifications of Draka EP products without prior notification.

#### Trademark Information

Whisper-Flex, QuietLink II, Easy-Balance, Super-Flex, Super-Duct, Draka Elevator Products and the Draka Globe design are registered trademarks of Draka Elevator Products, Inc. All other trademarks are the properties of their respective owners.

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April 2006

# Residential Elevator Reference

## Components for use in home elevators

### Round traveling cable (jute center, 600V, UL/CSA/NEC)

Part Number	Description
18-404-01	4/18 AWG, stranded copper
18-406-03	6/18 AWG, stranded copper with specially colored insulation
18-410-01	10/18 AWG, stranded copper
18-416-01	16/18 AWG, stranded copper
18-420-01	20/18 AWG, stranded copper
18-424-01	24/18 AWG, stranded copper
18-430-01	30/18 AWG, stranded copper
18-027-02	3/14 AWG and 20/18 AWG, stranded copper and 2/20 AWG shielded pairs
18-431-02	4/14 AWG and 31/18 AWG, stranded copper and 1/20 AWG shielded pair
18-045-02	4/14 AWG and 31/18 AWG, stranded copper and 5/20 AWG shielded pair

NOTE: Mesh grips are available to fit any of the above cables.

### Flat traveling cable (600V, UL/CSA/NEC)

Part Number	Description
18-016-07	16/18 AWG, stranded copper
18-020-07	20/18 AWG, stranded copper
18-024-07	24/18 AWG, stranded copper
18-410-07	4/14 AWG and 10/18 AWG, stranded copper and 1/20 AWG sh. pr.
FCSD-2	Flat cable suspension device, for single/multiple cables totaling up to 2 inches in width
FCSD-3	Flat cable suspension device, for single/multiple cables totaling up to 3 inches in width

### Hoistway cable (unjacketed, 300V, UL/CSA/NEC)

Part Number	Description
18-704-41	4/18 AWG, stranded copper
18-705-41	5/18 AWG, stranded copper
18-707-41	7/18 AWG, stranded copper
18-710-41	10/18 AWG, stranded copper
18-714-41	14/18 AWG, stranded copper
18-719-41	19/18 AWG, stranded copper
18-730-41	30/18 AWG, stranded copper
18-737-41	37/18 AWG, stranded copper

### Hoistway cable (jacketed, 600V, UL/CSA/NEC)

Part Number	Description
18-404-43	4/18 AWG, stranded copper with specially colored insulation
18-407-43	7/18 AWG, stranded copper conductors
18-414-43	14/18 AWG, stranded copper conductors
18-419-43	19/18 AWG, stranded copper conductors
18-437-43	37/18 AWG, stranded copper conductors

### Draka Elevator Products offers:

Connectorized cables, wireway, trough, EMT, flexible conduit, electrical boxes, outlets, hardware and thousands of other parts for residential installations. Call 1-877-372-5237 for details.

### Instrumentation cable (300V, UL/CSA/NEC)

Part Number	Description
IC-18-2	2/18 AWG, stranded tinned copper
IC-18-4	4/18 AWG, stranded tinned copper
IC-18-5	5/18 AWG, stranded tinned copper
IC-18-7	7/18 AWG, stranded tinned copper
IC-18-9	9/18 AWG, stranded tinned copper
IC-18-12	12/18 AWG, stranded tinned copper

NOTE: 1000' minimum order required for Instrumentation cables

### Thermostat cable (150V, CL2)

Part Number	Description	
TC-18-4	4/18 AWG, solid copper	500'
TC-18-5	5/18 AWG, solid copper	250'
TC-18-7	7/18 AWG, solid copper	250'
TC-18-9	9/18 AWG, solid copper	250'
TC-18-12	12/18 AWG, solid copper	250'

NOTE: 1000' minimum order required for Thermostat cables

### Selector/hoistway door relating cable

Part Number	Description
040219	1/16", preformed zinc-coated steel wire rope, 7x7 stranding
040215	1/8", preformed zinc-coated steel wire rope, 7x19 stranding
040220	3/16", preformed zinc-coated steel wire rope, 7x19 stranding
040225	1/4", preformed zinc-coated steel wire rope, 7x19 stranding

### Wire rope (suitable for hoisting)

Part Number	Description
80-000	1/4", with 8x19 stranding
80-001	3/8", with 8x19 stranding

### Wedge sockets

Part Number	Description
WSY-38-12	3/8" rope size, with 12" rod
WSY-38-18	3/8" rope size, with 18" rod

### Limit switches

Part Number	Description
197713	Adjustable angular roller limit switch, from Schmersal

# Protection Pad Order Form (see page 111 for products)

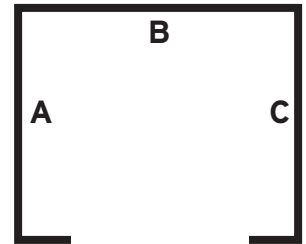
Fill out one form per cab and fax to Draka Elevator Products at 1-252-972-6001

PO #	Job #	Set #	Date
<b>Bill to:</b>		<b>Ship to:</b>	
Company	Company		
Address	Address		
Address	Address		
City/State/Zip	City/State/Zip		
Contact Name/Phone	Contact Name/Phone		

## Standard pad sets

Standard pad sets include three pads (walls A, B and C) with grommets installed, pad lock pins and a storage bag.  
 Standard pads fit up to the maximum cab inside clear size as shown.  
 Measure the cab and record width and height of each wall.

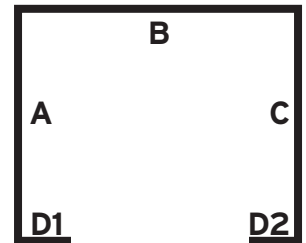
Part Number	Fits a Maximum Cab Inside Clear Size of:	Wall A	Wall B	Wall C
PAD-2000	5' 8" W x 4' 3" D x 8' H	___ W x ___ H	___ W x ___ H	___ W x ___ H
PAD-2500	6' 8" W x 4' 3" D x 8' H	___ W x ___ H	___ W x ___ H	___ W x ___ H
PAD-3000	6' 8" W x 4' 9" D x 8' H	___ W x ___ H	___ W x ___ H	___ W x ___ H
PAD-3500	6' 8" W x 5' 5" D x 8' H	___ W x ___ H	___ W x ___ H	___ W x ___ H
PAD-4500	5' 8" W x 7' 11" D x 8' H	___ W x ___ H	___ W x ___ H	___ W x ___ H
PAD-5000	5' 11" W x 8' 6" D x 8' H	___ W x ___ H	___ W x ___ H	___ W x ___ H



## Custom pad sets

Custom pad sets are made to order with grommets installed, pad lock pins and a storage bag.  
 Measure the cab and record width and height of each wall. Submit cut-out information for car operating panel(s) on separate piece of paper (if required).

Wall A	Wall B	Wall C	Wall D1	Wall D2
___ W x ___ H	___ W x ___ H	___ W x ___ H	___ W x ___ H	___ W x ___ H



## Pad color

Circle the color of the pad.

GRAY TAN GREEN BROWN BLACK BLUE NOTE: Gray and tan are stock - black, blue, green and brown available with short lead times.

## Hardware

Quantity	Part Number	Studs	Quantity	Part Number	Hooks and Clips
___	PAD-WS-AL	Wall stud, aluminum, 2" long	___	PAD-FLATHOOK	Flat hook, vinyl coated
___	PAD-WS-BR	Wall stud, brass, 2" long	___	PAD-ROUNTHOOK	Round hook, vinyl coated
___	PAD-WSST-AL	Wall stud, aluminum, #8 self-tapping screw	___	PAD-CEILHOOK	Ceiling hook, vinyl coated
___	PAD-WSST-BR	Wall stud, brass, #8 self-tapping screw	___	PAD-RETCLIP	Retaining clip, sold 15 per package
___	PAD-WSRP-AL	Wall stud, aluminum, 3-1/4" long for raised panels			
___	PAD-WSRP-BR	Wall stud, brass, 3-1/4" long for raised panels			

# UV-5AT & UV-5ATC Quotation/Order Form (see page 74 for products)

Fill out and fax to Draka Elevator Products at 1-252-972-6001

Request for quotation OR  PO # Job # Date

**Bill to:** \_\_\_\_\_ **Ship to:** \_\_\_\_\_

Company \_\_\_\_\_ Company \_\_\_\_\_

Address \_\_\_\_\_ Address \_\_\_\_\_

Address \_\_\_\_\_ Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_ City/State/Zip \_\_\_\_\_

Contact Name/Phone \_\_\_\_\_ Contact Name/Phone \_\_\_\_\_

## Required information

Quantity \_\_\_\_\_  UV-5AT  UV-5ATC

Coil voltage (if new coils are required) \_\_\_\_\_

Valve being replaced (if any)  EECO UV-5A (size) \_\_\_\_\_  
 OR other (Mfg/model/size) \_\_\_\_\_

Static pressure (psi) OR empty car weight (lbs) \_\_\_\_\_  psi OR  lbs  
(empty car at bottom landing)

Plunger diameter OR circumference (inches) \_\_\_\_\_  dia OR  cir

Flow rate (gpm) OR car speed UP (fpm) \_\_\_\_\_  gpm OR  fpm

AND car speed DOWN (if different) \_\_\_\_\_  fpm

Max. operating pressure (psi) OR capacity (lbs) \_\_\_\_\_  psi OR  lbs  
(required for UV-5ATC)

Total travel (ft) \_\_\_\_\_ ft

Line connections  Standard 2" NPT  Pump  Jack  Return  
 OR Optional 2" Grooved  Pump  Jack  Return

Jack port  Standard LH  Optional RH

## Optional features

Pressure gage quick disconnect  Pump  Jack

0-1000 psi liquid-filled pressure gauge?  Yes  No

Low pressure switch?  Yes  No

Dual voltage down leveling coil for emergency (battery back up) lowering?  Yes  No

Constant down speed? (for UV-5ATC only)  Yes  No

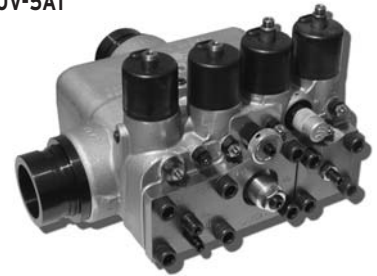
## Roped application options

Modified down piston to close at low pressure (< 50 psi)?  Yes  No

Manual lowering with low pressure cutoff?  Yes  No

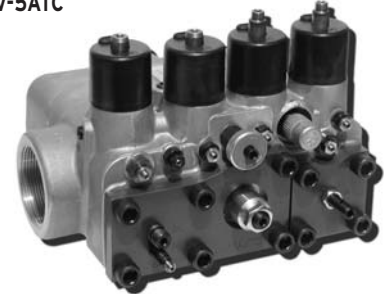
Date valve required \_\_\_\_\_

UV-5AT



The UV-5AT hydraulic control valve is equipped with full temperature compensation over its entire operational range (80° to 150°F). Modifications to the valve body as well as improvements to its internal parts have drastically simplified UV-5AT down adjustments as well as making it the quietest valve on the market.

UV-5ATC



The UV-5ATC offers both temperature and pressure compensation, which is built into the redesigned down piston assembly. It maintains constant down speed between no load and full load conditions. No field adjustments are required.

# All the products. All the service. All the world.

## The Draka Elevator Products' commitment

### Genuine Draka Elevator Parts with Lifetime Warranty

Draka has been manufacturing elevator cables for greater than 35 years. Draka Elevator Products' Super-Flex®, Super-Duct®, Whisper-Flex® and Steadi-Flex® cables and metal wireway are all made of the highest quality materials, are rigorously tested and carry our exclusive and unique lifetime warranty.



### Global Service, Sales, Technical Support and Connectorization

Our superior customer service includes trained sales professionals that know the elevator business. Our technical support team is available to help solve your technical issues when you need them. We also offer education and certification training. Our engineers can assist with custom product designs and connectorized cables that speed and simplify installation.



### Worldwide Manufacturing, Kitting and Distribution

Our worldwide manufacturing and distribution points allow us to provide timely and reliable consolidated shipment. We have acquired strategic locations worldwide which allow us to react quickly to your order requirements. Coupled with our strategic partnerships and shipping sources, we can provide the products you need, when you need them.



### Approved Draka Elevator Partners

Our Seal of Approval Partner's products complete our comprehensive portfolio. Our Partners are selected based on criteria like component quality and how they can improve the performance and safety of your installation for your ultimate satisfaction. We do the research and we provide the support so that you can install the best products available.

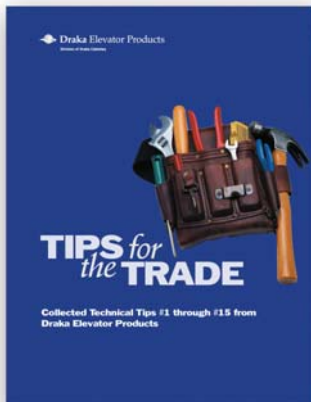


# Draka Elevator Products' Tech Tips

Essential information for the specifier and the craftsman

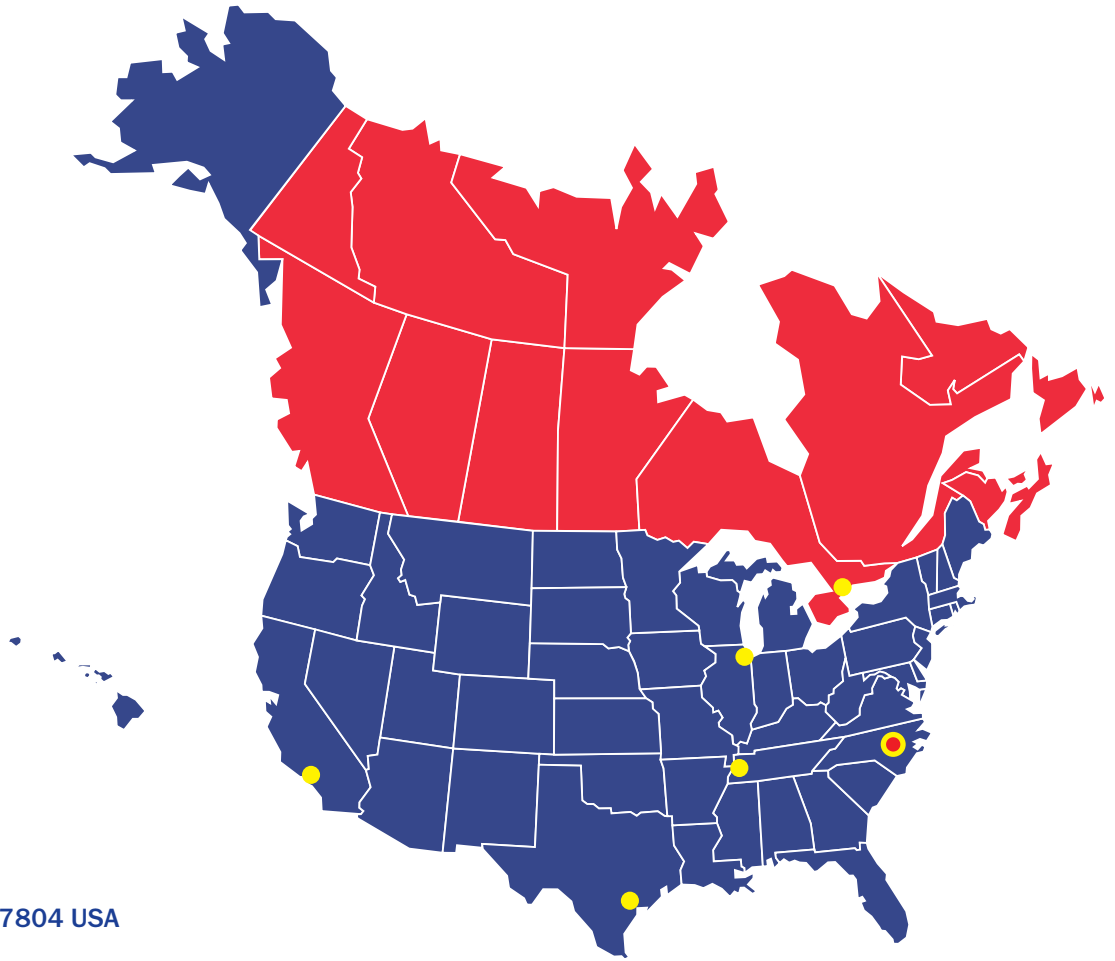
Call 877-DRAKA-EP or go to [www.draka-ep.com](http://www.draka-ep.com) to get your Tech Tips

- Tech Tip #1** Installation and maintenance of compensating cable
- Tech Tip #2** Excerpts from ASME A17.1-2000
- Tech Tip #3** Super-Flex® traveling cable installation
- Tech Tip #4** How to correctly order wire rope
- Tech Tip #5** What to do if wire rope gets wet
- Tech Tip #6** Wire rope lubrication: why, how often and how much
- Tech Tip #7** Load weighing devices
- Tech Tip #8** Compensation cable loop width vs. performance
- Tech Tip #9** Rope classification vs. rope construction
- Tech Tip #10** Wire rope tension and load
- Tech Tip #11** How light curtains effect elevator safety and performance
- Tech Tip #12** Dampening devices for compensating cables
- Tech Tip #13** How an oil cooler improves elevator performance
- Tech Tip #14** The importance of seismic detection devices
- Tech Tip #15** Mechanical vs. electronically-controlled hydraulic valves
- Tech Tip #16** Rope development for elevators



**Tech Tips #1 - 15 are available in booklet form.**

**Call 877-DRAKA-EP for your copy,**



## Headquarters

Draka Elevator Products  
2151 North Church Street  
Rocky Mount, North Carolina 27804 USA  
252 984 5100 ☎  
252 972 6001 📠

## US Information and Sales

877 DRAKA EP (877 372 5237) ☎  
252 972 6001 📠

## Canadian Information and Sales

Burlington, Ont/Canada  
1800 Ironstone Drive  
Burlington, Ontario L7L 5V3  
800 263 8279 ☎  
905.336.3800 ☎  
905 336 0444 📠

## Technical Support

877 408 HELP (877 408 4357) ☎

## Regional Distribution Facilities

Chicago (Wood Dale, IL)  
Houston, TX  
Los Angeles (Commerce, CA)  
Memphis (Walnut, MS)  
New York City (Brooklyn, NY)



**Draka Elevator Products**

Division of Draka Cableteq