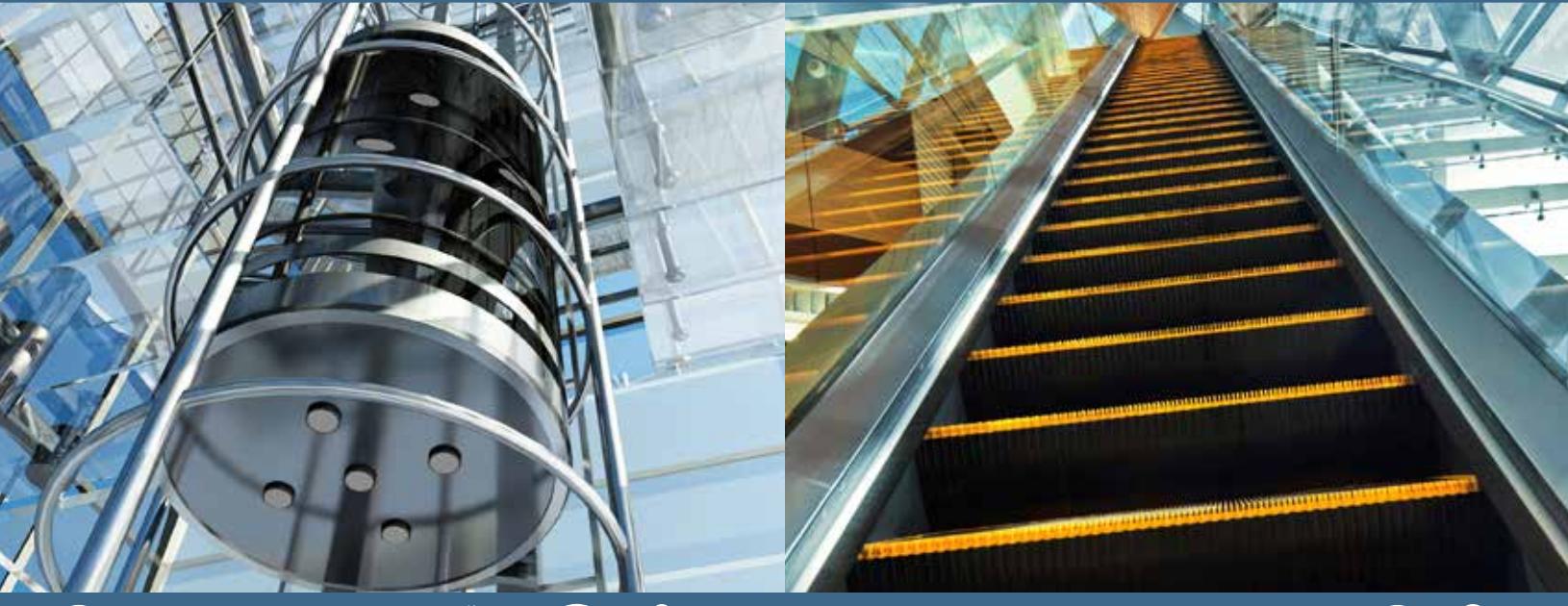


# North America 2024

# Elevator & Escalator SOLUTIONS CATALOG



# Drive. Trust. Simplicity.



# Draka EHC

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# Value-added Capabilities & Services

Draka EHC offers a wide range of products for elevators, escalators and moving walks as well as services with unrivaled capabilities.

Draka EHC is a member of the Prysmian Group, the world's leading manufacturer of wire and cable, allowing us access to vast global resources that improve our abilities to design, manufacture and distribute our portfolio of products and services.

## LIFETIME WARRANTIES ON CORE PRODUCTS

Our Super-Flex round traveling cables, Super-Duct hoistway cables, Whisper-Flex / Steadi-Flex compensation cables and wireway are all offered with Limited Lifetime Warranties. The products we supply meet the standards of the NEC, CSA, ASME and other bodies as required.



Lifetime warranties on Super-Flex, Super-Duct, Whisper-Flex and Steadi-Flex cables

## CUSTOM CAPABILITIES

The Burj Khalifa (Dubai), stands over half a mile tall, uses specially-designed Super-Flex traveling cables and Super-Duct hoistway cables with optical fiber and shielded pairs. Ask us to provide components that precisely fit your needs.



Cut-to-length and connectorized wiring harnesses accelerate installation

## ONGOING QUALITY ASSURANCE OF OUR MANUFACTURING FACILITIES

Our manufacturing and distribution facilities are regularly assessed and accredited with regulatory compliance.



The elevators in the megatall Burj Khalifa (Dubai) are controlled via custom-designed and manufactured Super-Flex cables

## PLUG-AND-PLAY WIRING HARNESSES (CONNECTORIZATION)

Realize faster and more accurate installations with wiring harnesses that are cut-to-length and connectorized.

## KITTING

Take advantage of our ability to consolidate and package everything needed, from reels of cable to a roll of electrical tape, all in a single shipment that arrives on time, onsite, offering considerable savings of time and resources.



Our EFM partnerships are an extension of our kitting capability where all components for an installation arrive onsite, ready to install

## EXTENDED FACTORY MODEL (EFM)

An extension of our kitting initiative is providing you with a complete EFM capability. Instead of coordinating component deliveries from dozens of suppliers, Draka EHC can assemble everything you need at one of our many distribution facilities and deliver it in a single shipment, resulting in measurable savings.



.....

# Cable & Accessories



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# Internal Components

## FOR DRAKA EHC CABLES

### SPECIAL CONSTRUCTIONS ARE AVAILABLE!

Draka EHC offers Type EO cables for wet/hazardous locations, halogen-free cables and custom configurations.

### TRAVELING & HOISTWAY CABLES

**Jacket:** Black, 70°C • 158°F polyvinyl chloride specifically compounded for flexibility and abrasion resistance. The finished cable complies with ANSI/ASTM, UL and CSA standards. It also meets EN or JIS requirements as needed and the UL VW-1 or UL-1581 and CSA FT1 flame requirements. Operating temperatures range from -15° to +70°C • -5 to 158°F. Optional rugged polyurethane (PUR) jackets are available upon request. Operating temperatures for PUR cables range from -20° to +70°C • -4 to 158°F. Please contact Draka EHC engineering if you are planning to operate an elevator at temperatures below 0°C • 32°F.

Any round traveling cable can be custom-made with halogen-free materials.

**Binder:** Helically-wound synthetic fiber provides maximum strength.

**Braid:** A textile braid is applied over the core assembly with 95% coverage.

**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. Metric sizes meet the intent of EN50214, JIS 3408 and AS.

**Insulation:** 70°C • 158°F, colored, flame-retardant polyvinyl chloride to exceed ETT requirements of UL 62 and CSA C22.2 No. 49. Also complies with EN and JIS requirements for elevator control cables.

**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.

**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 70°C • 158°F flame-retardant polyvinyl chloride (Super-Flex® cables have the steel covered with a polyester 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.

**Shielded Pairs:** 20 AWG insulated conductors, paired together with a short lay twist, overall shielded with 36 AWG bare copper braid (85% coverage). Laminated foil shielded pairs are also available. They are jacketed with colored, flame-retardant 70°C • 158°F polyvinyl chloride and comply with international requirements. Available in other gauges.

**Jute Filler:** Individual core interstice fillers distribute interlayer pressure and reduce conductor friction. All fillers are electrical-grade dry jute.

### REGARDING UTP COMMUNICATIONS CABLES

2020 NEC article 620.12 A does not allow any conductor smaller than 20 AWG within traveling cable. Therefore, standard Cat5 and Cat5e UTP are not an option for traveling cable. See page 11 for Draka EHC's Cat5e-equivalent solution for Ethernet transmission in traveling cable. It uses larger 20 AWG conductors to comply with Article 620.12 of the 2020 NEC.

### COAXIAL CABLE SPECIFICATIONS

**RG6/U Coaxial Cable** – Primarily for CCTV applications. 75 ohm, UL listed, CSA certified. Center conductor is 20 AWG stranded copper insulated with cellular polyethylene, wrapped with aluminum tape, braided with tinned copper and jacketed with flame-retardant PVC.

Attenuation is 2.13 dB/100m @ 10 MHz and 5.08 dB/100m @ 50 MHz. Capacitance measures 56.7 pf/m.

**RG11/U Coaxial Cable** – Optional 75 ohm, UL listed. Center conductor is 14 AWG • 2.0 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 is 2.16 dB/100m @ 10 MHz and 4.26 dB/100m @ 50 MHz. Capacitance measures 56.7 pf/m.

### FIBER OPTIC SPECIFICATIONS

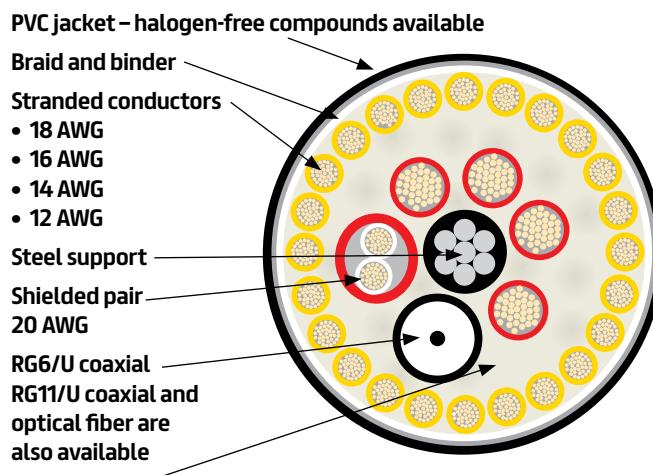
62.5/125 micron (OM1) tight-buffered multimode optical fiber, covered with high-strength aramid yarn and jacketed with flame-retardant polyvinyl chloride.

Maximum attenuation is 3.75 dB/km @ 850 nm and 1.5 dB/km @ 1300 nm.

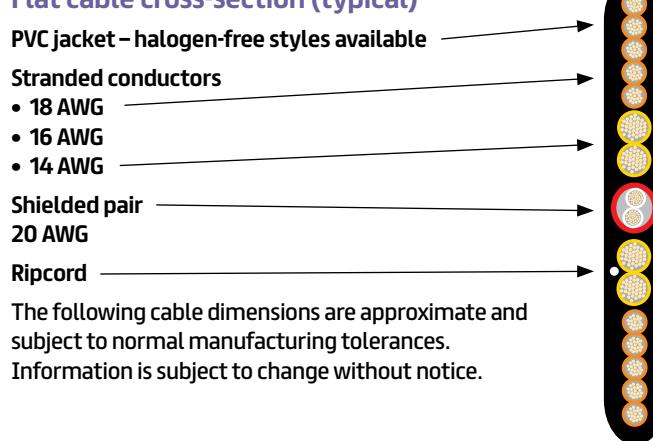
Minimum bandwidth is 160 MHz•km @ 850 nm and 500 MHz•km @ 1300 nm.

Other optical fibers are available including 50/125 micron (OM2) multimode, 50/125 micron (OM3 and OM4) laser-optimized multimode, and single mode.

### SUPER-FLEX ROUND CABLE CROSS-SECTION (TYPICAL)



### Flat cable cross-section (typical)



# Standards & Insulation Color Key

## FOR DRAKA EHC CABLES

### STANDARDS & CERTIFICATIONS



#### ISO 9001

Draka EHC's Rocky Mount manufacturing and distribution center were assessed and accredited for ISO 9001 Quality Management System by SGS.



#### ISO 14001

Draka EHC has been accredited for ISO 14001 Environmental Management Systems by SGS.



#### UL/CSA Listed

Listed cables are approved for use in the US and Canada and meet all pertinent requirements of the Underwriter's Laboratories and Canadian Standards Association.



#### NEC Compliant

Compliant cables meet all pertinent requirements of the 2023 National Electric Code.



#### US Dept. of Labor Mine Safety

Approved cables meet all pertinent requirements of the US DOL for mine safety.



#### Bureau Veritas

ETT round traveling cables are certified and approved for marine and offshore applications.

#### Pennsylvania Bureau of Deep Mine Safety

Approved cables meet all pertinent requirements of the PBDMS.

#### IEC Compliant

Compliant cables are designed for use in Europe and meet IEC requirements.

#### JIS (Japanese Standards)

Compliant cables are available upon request.

Please consult all local regulations and codes prior to ordering cables. Some Draka EHC cables are manufactured to meet the specific codes of a country or region and may not be suitable for your application.

### COLOR CODES

#### 14 AWG CONDUCTORS

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

\*No printed numbers.

If the cable has only 4 conductors, the #4 lavender is not numbered.

#### 16 AWG & 18 AWG 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

#### 20 AWG SHIELDED PAIR

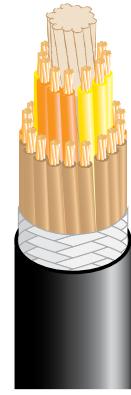
Pair Number(s)	Jacket Color	Pair Colors
1	Red	Red/White
2	Black	Red/White
3	Yellow	Red/White
4	Orange	Red/White
5	Tan	Red/White
6	Blue	Red/White
7	Grey	Red/White
8	Pink	Red/White
9	Red	Black/White
10	Black	Black/White
11	Yellow	Black/White
12	Orange	Black/White
13	Tan	Black/White
14	Blue	Black/White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

#### AWG TO METRIC CONVERSIONS

AWG	mm <sup>2</sup>
12 AWG	3.31 mm <sup>2</sup> - 65 strands
14 AWG	2.08 mm <sup>2</sup> - 41 strands
16 AWG	1.31 mm <sup>2</sup> - 26 strands
18 AWG	0.82 mm <sup>2</sup> - 16 strands
20 AWG	0.52 mm <sup>2</sup> - 10 strands

# Super-Flex® Traveling Cable Type ETT

JUTE CENTER – UL/CSA LISTED, NEC/CEC COMPLIANT – LIFETIME WARRANTY

POWER & SIGNAL CONDUCTORS - 300V RATED					LIFETIME WARRANTY
Part Number Product Code	Number/Size of Conductors	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km	
20417226 J 6-18 SP <sup>†</sup>	6 / 18 AWG Insulation colors: green, yellow, blue, red, black, white	200 • 61	0.43 • 10.9	96 • 143	
20417225 J 10-18	10 / 18 AWG	200 • 61	0.54 • 13.7	160 • 238	
20417233 J 16-18	16 / 18 AWG	200 • 61	0.64 • 16.3	219 • 326	
20417234 J 20-18	20 / 18 AWG	200 • 61	0.71 • 18.0	266 • 396	
20417236 J 24-18	24 / 18 AWG	200 • 61	0.73 • 18.5	304 • 452	
20417228 J 30-18	30 / 18 AWG	200 • 61	0.82 • 20.8	378 • 562	
20417227 J 40-18	40 / 18 AWG	200 • 61	0.92 • 23.4	475 • 707	

<sup>†</sup>"SP" denotes special color coding and/or conductor numbering.

SHIELDED PAIRS					LIFETIME WARRANTY
Part Number Product Code	Number/Size of Conductors	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km	
20417146 JCC 4x20SH	4 shielded pairs / 20 AWG	200 • 61	0.79 • 20.1	270 • 402	
20417159 JCC 8x20SH	8 shielded pairs / 20 AWG	200 • 61	1.00 • 25.4	420 • 625	

This catalog shows a sample of product offering. Please call 1877 372 5237 if you require a custom design.

1877 372 5237

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# Super-Flex® Traveling Cable Type ETT

JUTE CENTER – UL LISTED, CSA CERTIFIED, NEC/CEC COMPLIANT – LIFETIME WARRANTY

POWER & SIGNAL CONDUCTORS - 300V RATED				
Part Number Product Code	Number/Size of Conductors	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	LIFETIME WARRANTY
18-017-02 JC 17	3 / 16 AWG 8 / 18 AWG 3 shielded pairs / 20 AWG	200 • 61	0.95 • 24.1	350 • 521
20417230 JC 27	3 / 14 AWG 20 / 18 AWG 2 shielded pair / 20 AWG	200 • 61	0.94 • 23.8	466 • 693
20417238 JC 33	3 / 14 AWG 22 / 18 AWG 4 shielded pair / 20 AWG	200 • 61	1.23 • 31.2	719 • 1070
20417245 JC 37	4 / 14 AWG 31 / 18 AWG 1 shielded pair / 20 AWG	200 • 61	1.00 • 25.4	672 • 1000
20417145 JC 38 W	12 / 14 AWG 18 / 18 AWG 4 shielded pair / 20 AWG	200 • 61	1.25 • 31.8	806 • 1199
20417153 JC 38 SP <sup>t</sup>	8 / 14 AWG 24 / 18 AWG 3 shielded pair / 20 AWG	200 • 61	1.25 • 31.8	777 • 1157
20417158 JC 42 SP-HI <sup>t</sup>	26 / 18 AWG 8 shielded pair / 20 AWG	200 • 61	1.16 • 29.5	700 • 1042
18-044-05 JC 44 SP <sup>t</sup>	8 / 14 AWG 30 / 18 AWG 3 shielded pair / 20 AWG	200 • 61	1.32 • 33.5	797 • 1186
20417139 JC 45	4 / 14 AWG 39 / 18 AWG 1 shielded pair / 20 AWG	200 • 61	1.00 • 25.4	617 • 918
20417239 JC 45 D	4 / 14 AWG 31 / 18 AWG 5 shielded pair / 20 AWG	200 • 61	1.31 • 33.3	805 • 1198
20417154 JC 46	8 / 14 AWG 30 / 18 AWG 4 shielded pair / 20 AWG	200 • 61	1.26 • 32.0	825 • 1228
20417240 JC 51	4 / 14 AWG 45 / 18 AWG 1 shielded pair / 20 AWG	200 • 61	1.20 • 30.5	757 • 1126
20417243 JC 51 D	4 / 14 AWG 41 / 18 AWG 3 shielded pair / 20 AWG	200 • 61	1.28 • 32.0	880 • 1309
20417157 JC 52-0/SP <sup>t</sup>	10 / 14 AWG 42 / 18 AWG	200 • 61	1.22 • 31.0	840 • 1250
20417242 JC 55 D	4 / 14 AWG 41 / 18 AWG 5 shielded pair / 20 AWG	200 • 61	1.39 • 35.3	917 • 1365

<sup>t</sup>"SP" denotes special color coding and/or conductor numbering.

Coax and optical fiber are available as options. See page 5 for specifics on these cables.



Cat5e-equivalent cable is now available,  
permitting 1 Gb/s Ethernet to reach the elevator cabin.  
See 20417116 and 20417418 on page 11 or call us for details.  
See page 128 for connectors for these cables.



This catalog shows a sample of product offering. Please call 1877 372 5237 if you require a custom design.

# Super-Flex® Traveling Cable Type ETT

JUTE CENTER – UL LISTED, CSA CERTIFIED, NEC/CEC COMPLIANT – LIFETIME WARRANTY

POWER, SIGNAL & SHIELDED PAIRS - 300V RATED				
Part Number Product Code	Number/Size of Conductors	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
20417142 JC 57	6 / 14 AWG 45 / 18 AWG 3 shielded pair / 20 AWG	200 • 61	1.39 • 35.3	943 • 1403
20417251 JC 59	4 / 14 AWG 49 / 18 AWG 3 shielded pair / 20 AWG	200 • 61	1.22 • 30.1	872 • 1298
20417252 JC 60	4 / 14 AWG 54 / 18 AWG 1 shielded pair / 20 AWG	200 • 61	1.26 • 32.0	855 • 1272
20417254 JC 66	4 / 14 AWG 56 / 18 AWG 3 shielded pair / 20 AWG	200 • 61	1.33 • 33.8	955 • 1421
20417163 JCX 66-6	15 / 14 AWG • 2.0 32 / 18 AWG • 0.75 9 shielded pair / 20 AWG 1 coax / RG6/U	200 • 61	1.68 • 42.7	1345 • 2002
20417151 JC 73	6 / 14 AWG 61 / 18 AWG 3 shielded pair / 20 AWG	200 • 61	1.35 • 34.3	1042 • 1551
20417156 JC 73 0†	12 / 14 AWG 53 / 18 AWG 4 shielded pair / 20 AWG	200 • 61	1.43 • 39.3	1118 • 1664
20417160 JC 74 0†	12 / 14 AWG 53 / 18 AWG 4 shielded pair / 20 AWG 1 coax / RG6/U	200 • 61	1.47 • 37.3	1200 • 1786
18-076-02 JC 76	66 / 18 AWG 5 shielded pair / 20 AWG	200 • 61	1.42 • 36.1	1017 • 1513
20417143 JC 79 SP†	7 / 14 AWG 64 / 18 AWG 4 shielded pair / 20 AWG NOTE: 14 AWG conductor #7 is dark blue	200 • 61	1.45 • 36.8	1200 • 1786
20417140 JC 86	4 / 14 AWG 76 / 18 AWG 3 shielded pair / 20 AWG	200 • 61	1.39 • 35.3	1128 • 1679
20417130 JC 90	4 / 14 AWG 76 / 18 AWG 5 shielded pairs / 20 AWG	200 • 61	1.49 • 37.8	1247 • 1856
20417147 C 96	86 / 18 AWG 5 shielded pair / 20 AWG	200 • 61	1.42 • 36.1	1180 • 1756
20417152 JC 96C	4 / 14 AWG 90 / 18 AWG 1 shielded pair / 20 AWG	200 • 61	1.42 • 35.8	1240 • 1846

†"SP" or "0" denotes special color coding and/or conductor numbering.

Coax and optical fiber are available as options. See page 5 for specifics on these cables.



Use these tools to prepare Super-Flex traveling cable. See pages 97 - 99 for details.

ELH36-060 FlexiPeeler™  
round cable stripper



ELH36-146 Super Peeler  
round cable stripper



ELH17-05-0001  
QuickStrip wire stripper



ELH36-219 automatic  
wire stripper



ELH37-177 manual  
wire stripper



This catalog shows a sample of product offering. Please call 1 877 372 5237 if you require a custom design.

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# Super-Flex® Traveling Cable Type ETT

STEEL CENTER – UL LISTED, CSA CERTIFIED, NEC/CEC COMPLIANT – LIFETIME WARRANTY

## POWER & SIGNAL CONDUCTORS - 300V RATED

Part Number Product Code	Number/Size of Conductors	Steel Core Dia. inches • mm	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	LIFETIME WARRANTY	
					UL us	NEC
20417164 WS 4-14	4 / 14 AWG	3/32 • 2.4	900 • 275	0.57 • 14.4	166	• 247
20417166 WS 8-14	8 / 14 AWG	1/8 • 3.2	900 • 275	0.70 • 17.8	293	• 436
20417170 WS 15-14	15 / 14 AWG	1/8 • 3.2	900 • 275	0.93 • 23.6	487	• 725
20417167 WS 10-18	10 / 18 AWG	3/32 • 2.4	900 • 275	0.56 • 14.2	175	• 260
20417174 WS 12-18	12 / 18 AWG	3/32 • 2.4	900 • 275	0.65 • 16.5	280	• 417
20417086 WS 20-18	20 / 18 AWG	3/32 • 2.4	804 • 245	0.71 • 18.0	286	• 426
20417093 WS 30-18	30 / 18 AWG	1/8 • 3.2	900 • 275	0.82 • 20.8	417	• 620
20417087 WS 40-18	40 / 18 AWG	1/8 • 3.2	900 • 275	0.92 • 23.4	509	• 757
20417094 WS 50-18	50 / 18 AWG	1/8 • 3.2	795 • 242	1.01 • 25.7	629	• 936



## POWER CONDUCTORS - 600V RATED

Part Number Product Code	Number/Size of Conductors	Steel Core Dia. inches • mm	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	LIFETIME WARRANTY	
					UL us	NEC
18-104-11 WS 4-12	4 / 12 AWG	1/8 • 3.2	900 • 275	0.74 • 18.8	279	• 415
20417107 CWS 22	10 / 10 AWG 12 / 12 AWG	1/4 • 6.4	900 • 275	1.50 • 38.2	1437	• 2138



## SHIELDED PAIRS ONLY

Part Number Product Code	Number/Size of Conductors	Steel Core Dia. inches • mm	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	LIFETIME WARRANTY	
					UL us	NEC
20417099 WSCC 4x20 SH	4 shielded pair / 20 AWG	1/8 • 3.2	900 • 275	0.79 • 20.0	330	• 491
20417101 WSCC 6x20 SH	6 shielded pair / 20 AWG	1/8 • 3.2	900 • 275	0.85 • 21.6	365	• 543
20417112 WSCC 8x20 SH	8 shielded pair / 20 AWG	5/32 • 4.0	900 • 275	1.00 • 25.4	490	• 729
0417102 WSCC 6x18 SH	6 shielded pair / 18 AWG	5/32 • 4.0	900 • 275	0.93 • 23.6	418	• 622
20417113 WSCC 14x18 SH	14 shielded pair / 18 AWG	5/32 • 4.0	714 • 218	1.44 • 36.6	981	• 1460



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

Coax and optical fiber are available as options. See page 5 for specifics on these cables.



Cat5e-equivalent cable is now available, permitting 1 Gb/s Ethernet to reach the elevator cabin.

See 20417116 and 20417418 on page 11 or call us for details.

See page 128 for connectors for these cables.

This catalog shows a sample of product offering. Please call 1877 372 5237 if you require a custom design.

# Super-Flex® Traveling Cable Type ETT

STEEL CENTER – UL LISTED, CSA CERTIFIED, NEC/CEC COMPLIANT – LIFETIME WARRANTY

POWER, SIGNAL & SHIELDED PAIRS - 300V RATED					LIFETIME WARRANTY	UL US	NEC
Part Number Product Code	Number/Size of Conductors	Steel Core Dia. inches • mm	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km		
20417103 CWS 11	6 / 12 AWG 5 / 14 AWG	1/8 • 3.2	900 • 275	0.97 • 24.6	512 • 762		
20417106 CWS 20	14 / 18 AWG 3 shielded pairs / 20 AWG	3/32 • 2.4	612 • 187	0.95 • 24.1	376 • 560		
20417126 CWS 27	4 / 14 AWG 21 / 18 AWG 1 shielded pair / 20 AWG	5/32 • 4.0	900 • 275	0.96 • 24.4	500 • 744		
20417133 CWS 37	4 / 14 AWG 31 / 18 AWG 1 shielded pair / 20 AWG	5/32 • 4.0	900 • 275	1.18 • 30.0	700 • 1042		
20417442 CWS 44	14 / 14 AWG 24 / 18 AWG 3 shielded pairs / 20 AWG	5/32 • 4.0	753 • 230	1.33 • 33.8	929 • 1382		
20417127 CWS 45 D	4 / 14 AWG 31 / 18 AWG 5 shielded pairs / 20 AWG	5/32 • 4.0	776 • 237	1.31 • 33.3	902 • 1342		
20417432 CWS 46	8 / 14 AWG 30 / 18 AWG 4 shielded pairs / 20 AWG	5/32 • 4.0	769 • 234	1.32 • 33.5	910 • 1354		
2041742 CWS 47	4 / 14 AWG 41 / 18 AWG 1 shielded pair / 20 AWG	5/32 • 4.0	900 • 275	1.20 • 30.5	771 • 1147		
20417435 CWS 47 LO	11 / 14 AWG (conductors are numbered 1 to 11) 22 / 18 AWG (conductors are numbered 1 to 22) 7 shielded pairs / 20 AWG (red/white pairs in red, black, yellow, orange, tan, blue and grey jackets)	5/32 • 4.0	695 • 212	1.40 • 35.6	1012 • 1498		
20417138 CWS 56	6 / 14 AWG 48 / 18 AWG 1 shielded pair / 20 AWG	5/32 • 4.0	826 • 252	1.20 • 30.5	847 • 1260		
20417137 CWS 58 LO	4 / 14 AWG (conductors are numbered 1 to 4) 40 / 18 AWG (conductors are numbered 1 to 40) 7 shielded pair / 20 AWG (red/white pairs in red, black, yellow, orange, tan, blue and grey jackets)	5/32 • 4.0	622 • 190	1.51 • 38.4	1125 • 1674		
20417116 CWS20SP C5e	4 shielded Cat5e emulation pairs / 20 AWG 6 shielded pairs / 20 AWG	5/32 • 4.0	328 • 100 <sup>1</sup>	1.15 • 29.2	630 • 937		
20417418 CSX54SP C5e	4 shielded Cat5e emulation pairs / 20 AWG 5 / 14 AWG 30 / 18 AWG 5 / 20 AWG shielded pair 1 / RG6 coax	1/4 • 6.4	328 • 100 <sup>1</sup>	1.66 • 42.2	1191 • 1773		



<sup>1</sup>For longer hang length applications, call with your requirements.

Coax and optical fiber are available as options. See page 5 for specifics on these cables.

This is based on the CAT5e maximum transmission length. Longer hang lengths could result in signal degradation.

This catalog shows a sample of product offering. Please call 1877 372 5237 if you require a custom design.

# Super-Flex® Traveling Cable Type ETT

STEEL CENTER – UL LISTED, CSA CERTIFIED, NEC/CEC COMPLIANT – LIFETIME WARRANTY

POWER, SIGNAL & SHIELDED PAIRS - 300V RATED					
				LIFETIME WARRANTY c UL us nec	
Part Number Product Code	Number/Size of Conductors	Steel Core Dia. inches • mm	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
20417128 CWS 58 HI	4 / 14 AWG (conductors are numbered 5 to 8 [dark blue]) 40 / 18 AWG (conductors are numbered 41 to 80) 7 shielded pair / 20 AWG (black/white pairs in red, black, yellow, orange, tan, blue and grey jackets)	5/32 • 4.0	622 • 190	1.51 • 38.4	1125 • 1674
20417134 CWS 59	4 / 14 AWG 49 / 18 AWG 3 shielded pair / 20 AWG	5/32 • 4.0	791 • 241	1.22 • 31.0	885 • 1317
20417420 CWS 60	7 / 14 AWG 27 / 18 AWG 13 shielded pair / 20 AWG	1/4 • 6.4	900 • 275	1.58 • 40.1	1289 • 1918
20417434 CWS 69 SP	15 / 14 AWG 8 shielded pair / 20 AWG	5/32 • 4.0 38 / 18 AWG	518 • 158	1.58 • 40.1	1350 • 2009
20417426 CWS 71	6 / 14 AWG 61 / 18 AWG 2 shielded pair / 20 AWG	5/32 • 4.0	614 • 187	1.39 • 35.3	1140 • 1696
20417419 CWS 73	6 / 14 AWG 61 / 18 AWG 3 shielded pair / 20 AWG	5/32 • 4.0	608 • 185	1.39 • 35.3	1151 • 1709
20417443 CWS 74	20 / 14 AWG 38 / 18 AWG 8 shielded pair / 20 AWG	5/32 • 4.0	491 • 150	1.54 • 39.1	1426 • 2122
20417129 CWS 75	4 / 14 AWG 69 / 18 AWG 1 shielded pair / 20 AWG	5/32 • 4.0	663 • 202	1.38 • 35.0	1056 • 1571
20417430 CWS 81	8 / 14 AWG 59 / 18 AWG 7 shielded pair / 20 AWG	5/32 • 4.0	524 • 160	1.60 • 40.6	1336 • 1988
20417431 CWS 90	6 / 14 AWG 80 / 18 AWG 2 shielded pair / 20 AWG	5/32 • 4.0	555 • 169	1.46 • 37.1	1262 • 1878
20417374 CWS 94	12 / 14 AWG 70 / 18 AWG 6 shielded pair / 18 AWG	1/4 • 6.4	900 • 275	1.68 • 42.7	1663 • 2475
20417117 CWS 96	86 / 18 AWG 5 shielded pair / 20 AWG	5/32 • 4.0	576 • 176	1.42 • 36.1	1215 • 1808



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

Coax and optical fiber are available as options. See page 5 for specifics on these cables.



Cat5e-equivalent cable is now available, permitting 1 Gb/s Ethernet to reach the elevator cabin.

See 20417116 and 20417418 on page 11 or call us for details.

See page 128 for connectors for these cables.

This catalog shows a sample of product offering. Please call 1877 372 5237 if you require a custom design.

# Super-Flex® Traveling Cable Type ETT

STEEL CENTER – UL LISTED, CSA CERTIFIED, NEC/CEC COMPLIANT – LIFETIME WARRANTY

POWER, SIGNAL, SHIELDED PAIRS & COAX - 300V RATED					
Part Number Product Code	Number/Size of Conductors	Steel Core Dia. inches • mm	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
20417447 CSX 5	3 / 14 AWG 2 coax / RG6/U	5/32 • 4.0	900 • 275	1.13 • 28.7	500 • 742
20417446 CSX 9	4 / 14 AWG 2 shielded pairs / 20 AWG 1 coax / RG6/U	5/32 • 4.0	600 • 183	0.87 • 22.1	370 • 550
20417398 CSX 14	6 shielded pairs / 20 AWG 2 coax / RG6/U	5/32 • 4.0	600 • 183	1.06 • 26.9	570 • 848
20417406 CSX 18-6	8 shielded pair / 20 AWG 2 RG6/U coax	5/32 • 4.0	600 • 183	1.24 • 31.5	710 • 1056
20417448 CSX 36	17 / 14 AWG 8 shielded pairs / 20 AWG 3 coax / RG6/U	1/4 • 6.4	900 • 275	1.61 • 40.9	1271 • 1891
20417401 CSX 46	11 / 14 AWG 22 / 18 AWG 6 shielded pairs / 20 AWG 1 coax / RG6/U	5/32 • 4.0	683 • 208	1.44 • 36.6	1025 • 1525
20417473 CSX 47	4 / 14 AWG 30 / 18 AWG 6 shielded pairs / 20 AWG 1 coax / RG6/U	5/32 • 4.0	740 • 226	1.35 • 34.3	946 • 1408
20417390 CSX 470	8 / 14 AWG 30 / 18 AWG 4 shielded pair / 20 AWG 1 coax / RG6/U	5/32 • 4.0	642 • 196	1.41 • 35.8	1090 • 1622
20417451 CSX 49 SP-HI <sup>††</sup>	20 / 18 AWG 14 shielded pair / 20 AWG 1 coax / RG6/U	5/32 • 4.0	659 • 201	1.50 • 38.1	1063 • 1582
20417459 CSX 53	4 / 14 AWG 45 / 18 AWG 1 shielded pair / 20 AWG 2 coax / RG6/U	5/32 • 4.0	711 • 217	1.34 • 34.0	985 • 1466
20417466 CSX 55	4 / 14 AWG 46 / 18 AWG 2 shielded pair / 20 AWG 1 RG59/U coax	5/32 • 4.0	792 • 241	1.21 • 30.7	883 • 1314
20417458 CSX 55 SP <sup>††</sup>	4 / 14 AWG 46 / 18 AWG 2 shielded pair / 20 AWG 1 coax / RG6/U	5/32 • 4.0	791 • 241	1.22 • 31.0	885 • 1317
20417453 CSX 55 SP <sup>††</sup> HI NUMBERS	26 / 18 AWG 14 shielded pair / 20 AWG 1 coax / RG6/U	5/32 • 4.0	649 • 198	1.50 • 38.1	1079 • 1606
20417471 CSX 57	4 / 14 AWG 40 / 18 AWG 6 shielded pair / 20 AWG 1 coax / RG6/U	5/32 • 4.0	612 • 187	1.53 • 38.9	1144 • 1702
20417380 CSX 61	7 / 14 AWG 27 / 18 AWG 13 shielded pair / 20 AWG 1 coax / RG6/U	1/4 • 6.4	900 • 275	1.65 • 41.9	1373 • 2043

LIFETIME  
WARRANTY



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

<sup>††</sup>"SP" denotes special color coding and/or conductor numbering.

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

RG11/U coax and multimode optical fiber are available as options. See page 5 for specifics on these cables.

This catalog shows a sample of product offering. Please call 1877 372 5237 if you require a custom design.

# Super-Flex® Traveling Cable Type ETT

STEEL CENTER – UL LISTED, CSA CERTIFIED, NEC/CEC COMPLIANT – LIFETIME WARRANTY

POWER, SIGNAL, SHIELDED PAIRS AND COAX - 300V RATED					
				LIFETIME WARRANTY c UL us nec	
Part Number Product Code	Number/Size of Conductors	Steel Core Dia. inches • mm	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
20417402 CSX 62 SP <sup>††</sup>	12 / 14 AWG 29 / 18 AWG 10 shielded pair / 20 AWG 1 coax / RG6/U	5/32 • 4.0	525 • 160	1.59 • 40.4	1334 • 1985
20417481 CSX 69	5 / 14 AWG 40 / 18 AWG 11 shielded pair / 20 AWG 2 RG6/U coax	1/4 • 6.4	900 • 275	1.57 • 39.9	1340 • 1994
20417403 CSX 75 0	20 / 14 AWG 38 / 18 AWG 8 shielded pair / 20 AWG 1 coax / RG6/U	1/4 • 6.4	900 • 275	1.58 • 40.1	1472 • 2190
20417389 CSX 75 T	8 / 14 AWG 54 / 18 AWG 6 shielded pair / 20 AWG 1 RG6/U coax	5/32 • 4.0	542 • 165	1.58 • 40.1	1290 • 1920
20417468 CSX 77	4 / 14 AWG 69 / 18 AWG 1 shielded pair / 20 AWG 2 coax / RG6/U	5/32 • 4.0	532 • 162	1.64 • 41.6	1315 • 1957
20417460 CSX 77 S	4 / 14 AWG 60 / 18 AWG 6 shielded pair / 20 AWG 1 coax / RG6/U	1/4 • 6.4	900 • 275	1.52 • 38.6	1269 • 1888
20417394 CSX 80 SP <sup>††</sup>	10 / 14 AWG 39 / 18 AWG 15 shielded pair / 20 AWG 1 RG6/U coax	1/4 • 6.4	900 • 275	1.64 • 41.7	1560 • 2321
20417405 CSX 83	20 / 14 AWG 35 / 18 AWG 13 shielded pair / 20 AWG 2 coax / RG6/U	1/4 • 6.4	900 • 275	1.92 • 48.8	1808 • 2690



POWER, SIGNAL, SHIELDED PAIRS AND FIBER OPTICS - 300V RATED					
				LIFETIME WARRANTY c UL us nec	
Part Number Product Code	Number/Size of Conductors	Steel Core Dia. inches • mm	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
20417421 CSF 5	3 / 14 AWG 2 optical fibers / 62.5µm (OM1)	3/32 • 2.4	900 • 275	0.76 • 19.3	250 • 372
20417414 CSF 5	3 / 14 AWG 2 optical fibers / 50µm (OM3)	3/32 • 2.4	900 • 275	0.76 • 19.3	249 • 371
20417467 CWSF 61	4 / 14 AWG 49 / 18 AWG 3 shielded pair / 20 AWG 2 optical fibers / 62.5µm (OM1)	1/4 • 6.4	900 • 275	1.36 • 34.5	1125 • 1674
20417425 CSF 62	7 / 14 AWG 27 / 18 AWG 13 shielded pair / 20 AWG 2 optical fibers / 62.5µm (OM1)	1/4 • 6.4	900 • 275	1.58 • 40.0	1296 • 1928



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

<sup>††</sup>"SP" denotes special color coding and/or conductor numbering.

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

RG11/U coax and optical fiber are available as options. See page 5 for specifics on these cables.

Draka EHC offers fiber optic connectors and connection kits (page 128) and tx/rx electronics (page 127).

This catalog shows a sample of product offering. Please call 1877 372 5237 if you require a custom design.

# Round Cable Hanging Accessories

## FOR JUTE & STEEL CENTER TRAVELING CABLE INSTALLATION

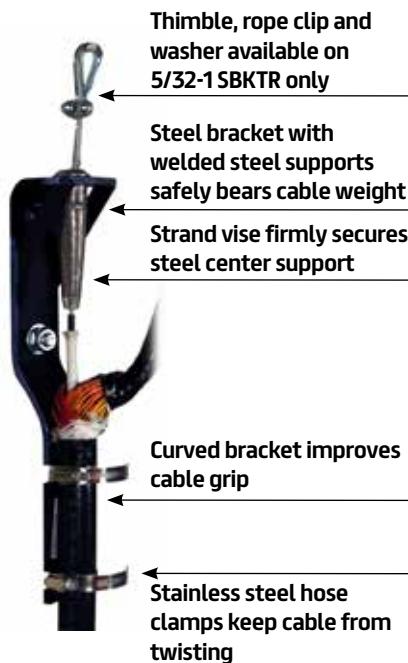
### UNIVERSAL HANGING SYSTEM - US PATENT 5,080,199

Part Number	For Steel Core Dia. inches • mm	Number of Cables Held	Max. Load per Cable lbs • kg
3/32-1 SBKT	3/32 • 2.4	1 cable	500 • 227
ELK1/8-1 SBKT	1/8 • 3.2	1 cable	500 • 227
5/32-1 SBKT-R	5/32 • 4.0	1 cable	700 • 318
ELK1/4-1 SBKT	1/4 • 6.4	1 cable	1750 • 794

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.



### UNIVERSAL HANGING SYSTEM FOR TWO CABLES

Part Number	For Steel Core Dia. inches • mm	Number of Cables Held	Max. Load per Cable lbs • kg
5/32-2 SBKT-R	5/32 • 4.0	2 cables	700 • 318
ELK1/4-2 SBKT	1/4 • 6.4	2 cables	1250 • 568

These are two-cable versions of the Universal Hanging System.

### REPLACEMENT STRAND VISES

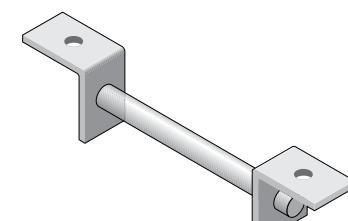
Part Number	Description
3/32 PINS-A	Replacement strand vise for 3/32 in. rope
ELH1/8 PINS-A	Replacement strand vise for 1/8 in. rope
5/32 PINS-A	Replacement strand vise for 5/32 in. rope
ELH1/4 PINS-A	Replacement strand vise for 1/4 in. rope

Replacement strand vises are for use ONLY in Universal Hanging Systems in both one and two cable configurations.



### JUTE CORE TRAVELING CABLE HANGER FOR MESH GRIPS

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



### BEAM PADS

Part Number	Description
22-022	Scotch® 2200 beam pads, 6-1/2 x 4-1/2 x 1/8 in. • 165 x 114 x 6 mm

Draka EHC recommends beam pads be applied to surfaces where there may be occasional contact by the traveling cable.



# Mesh Grips

TINNED BRONZE FOR JUTE CENTER TRAVELING CABLES – MAX. HANGING LENGTHS OF 200 FT • 61 M

SINGLE EYE / SINGLE WEAVE / CLOSED MESH – TINNED BRONZE				
Part Number	Cable Dia. Range inches • mm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
ELH022-01-013	.50 to .62 • 1.27 to 1.57	106 • 48	7.0 • 178	10.0 • 254
ELH022-01-014	.63 to .74 • 1.60 to 1.88	158 • 72	8.0 • 203	10.0 • 254
ELH022-01-015	.75 to .99 • 1.91 to 2.51	204 • 93	8.0 • 203	13.0 • 330
ELH022-01-017	1.00 to 1.24 • 2.54 to 3.15	322 • 146	9.0 • 229	14.0 • 356
ELH022-01-018	1.25 to 1.49 • 3.18 to 3.78	322 • 146	10.0 • 254	15.0 • 381
ELH022-01-019	1.50 to 1.74 • 3.81 to 4.42	322 • 146	12.0 • 305	17.0 • 432
ELH022-01-020	1.75 to 1.99 • 4.45 to 5.05	430 • 195	14.0 • 356	19.0 • 483



SINGLE EYE / SINGLE WEAVE / SPLIT LACED – TINNED BRONZE				
Part Number	Cable Dia. Range inches • mm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
ELH022-02-013	.50 to .62 • 1.27 to 1.57	158 • 72	7.0 • 178	10.0 • 254
ELH022-02-014	.63 to .74 • 1.60 to 1.88	158 • 72	8.0 • 203	10.0 • 254
ELH022-02-015	.75 to .99 • 1.91 to 2.51	204 • 93	8.0 • 203	13.0 • 330
ELH022-02-017	1.00 to 1.24 • 2.54 to 3.15	322 • 146	9.0 • 229	14.0 • 355
ELH022-02-018	1.25 to 1.49 • 3.18 to 3.78	322 • 146	10.0 • 254	15.0 • 381
ELH022-02-019	1.50 to 1.74 • 3.81 to 4.42	322 • 146	12.0 • 305	17.0 • 431
ELH022-02-020	1.75 to 1.99 • 4.45 to 5.05	430 • 195	14.0 • 356	16.5 • 419



SINGLE EYE / SINGLE WEAVE / SPLIT ROD – TINNED BRONZE				
Part Number	Cable Dia. Range inches • mm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
ELH022-03-061	.37 to .49 • .94 to 1.24	106 • 48	4.0 • 102	5.0 • 127
ELH022-03-013	.50 to .62 • 1.27 to 1.57	106 • 48	7.0 • 178	10.0 • 254
ELH022-03-014	.63 to .74 • 1.60 to 1.88	158 • 72	8.0 • 203	10.0 • 254
ELH022-03-015	.75 to .99 • 1.91 to 2.51	204 • 93	8.0 • 203	13.0 • 330
ELH022-03-017	1.00 to 1.24 • 2.54 to 3.15	322 • 146	9.0 • 229	14.0 • 356
ELH022-03-018	1.25 to 1.49 • 3.18 to 3.78	322 • 146	10.0 • 254	15.0 • 381
ELH022-03-019	1.50 to 1.74 • 3.81 to 4.42	322 • 146	12.0 • 305	17.0 • 432
ELH022-03-020	1.75 to 1.99 • 4.45 to 5.05	430 • 195	14.0 • 356	19.0 • 483



UNIVERSAL BALE / SINGLE WEAVE / SPLIT ROD – TINNED BRONZE				
Part Number	Cable Dia. Range inches • mm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
ELH022-03-066	.75 to .99 • 1.91 to 2.51	204 • 93	up to 16 • 400	10.5 • 267
ELH022-03-068	1.00 to 1.24 • 2.54 to 3.15	322 • 146	up to 16 • 400	12.5 • 317
ELH022-03-069	1.25 to 1.49 • 3.18 to 3.78	322 • 146	up to 16 • 400	14.5 • 368
ELH022-03-070	1.50 to 1.74 • 3.81 to 4.42	322 • 146	up to 16 • 400	15.5 • 394
ELH022-03-071	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.

# Mesh Grips

TINNED BRONZE FOR JUTE CENTER TRAVELING CABLES – MAX. HANGING LENGTHS OF 200 FT • 61 M

## DOUBLE EYE / SINGLE WEAVE / SPLIT LACED – TINNED BRONZE

Part Number	Cable Dia. Range inches • mm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
ELH022-02-002	.63 to .74 • 1.60 to 1.88	170 • 77	4.0 • 102	10.0 • 254
ELH022-02-003	.75 to .99 • 1.91 to 2.51	204 • 93	5.5 • 140	13.0 • 330
ELH022-02-005	1.00 to 1.24 • 2.54 to 3.15	322 • 146	5.0 • 127	14.0 • 356
ELH022-02-006	1.25 to 1.49 • 3.18 to 3.78	322 • 146	5.0 • 127	15.0 • 381
ELH022-02-007	1.50 to 1.74 • 3.81 to 4.42	322 • 146	5.0 • 127	17.0 • 432



## DOUBLE EYE / SINGLE WEAVE / SPLIT ROD – TINNED BRONZE

Part Number	Cable Dia. Range inches • mm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
ELH022-03-001	.50 to .62 • 1.27 to 1.57	158 • 72	4.0 • 102	6.5 • 165
ELH022-03-002	.63 to .74 • 1.60 to 1.88	158 • 72	4.0 • 102	8.5 • 216
ELH022-03-003	.75 to .99 • 1.91 to 2.51	204 • 93	5.5 • 140	10.5 • 267
ELH022-03-005	1.00 to 1.24 • 2.54 to 3.15	322 • 146	5.0 • 127	12.5 • 317
ELH022-03-006	1.25 to 1.49 • 3.18 to 3.78	322 • 146	5.0 • 127	14.5 • 368
ELH022-03-007	1.50 to 1.74 • 3.81 to 4.42	322 • 146	5.0 • 127	15.5 • 394
ELH022-03-008	1.75 to 1.99 • 4.45 to 5.05	430 • 195	6.0 • 152	16.5 • 419



## DOUBLE EYE / SINGLE WEAVE / CLOSED MESH – TINNED BRONZE

Part Number	Cable Dia. Range inches • mm	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
ELH022-01-002	.63 to .74 • 1.60 to 1.88	158 • 72	4.0 • 102	10.0 • 254
ELH022-01-003	.75 to .99 • 1.91 to 2.51	204 • 93	5.5 • 140	12.0 • 304
ELH022-01-005	1.00 to 1.24 • 2.54 to 3.15	322 • 146	5.0 • 127	14.0 • 356
ELH022-01-006	1.25 to 1.49 • 3.18 to 3.78	322 • 146	5.0 • 127	15.0 • 381
ELH022-01-007	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



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

# Mesh Grips

STAINLESS STEEL FOR TRAVELING CABLES – MAXIMUM HANGING LENGTHS OF 200 FT • 61 M

## DOUBLE EYE / DOUBLE WEAVE / SPLIT LACED – STAINLESS STEEL

Part Number	Cable Dia. Range inches • mm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
ELH024-20-1284	.75 to .99 • 1.91 to 2.51	620 • 282	4.0 • 102	13.0 • 330
ELH024-20-1285	1.00 to 1.24 • 2.54 to 3.15	800 • 364	4.0 • 102	14.0 • 356
ELH024-20-1286	1.25 to 1.49 • 3.18 to 3.78	800 • 364	4.0 • 102	15.0 • 381
ELH024-20-1287	1.50 to 1.74 • 3.81 to 4.42	800 • 364	4.0 • 102	17.0 • 432
ELH024-20-1500	1.75 to 1.99 • 4.45 to 5.05	1800 • 818	12.0 • 305	19.0 • 483



## DOUBLE EYE / SINGLE WEAVE / SPLIT ROD – STAINLESS STEEL

Part Number	Cable Dia. Range inches • mm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
ELH024-03-005	1.00 to 1.24 • 2.54 to 3.15	530 • 241	5.0 • 127	12.5 • 317
ELH024-03-006	1.25 to 1.49 • 3.18 to 3.78	900 • 409	5.0 • 127	14.5 • 368
ELH024-03-007	1.50 to 1.74 • 3.81 to 4.42	900 • 409	5.0 • 127	15.5 • 394
ELH024-03-008	1.75 to 1.99 • 4.45 to 5.05	1200 • 545	6.0 • 152	16.5 • 419



## DOUBLE EYE / DOUBLE WEAVE / CLOSED MESH – STAINLESS STEEL

Part Number	Cable Dia. Range inches • mm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
ELH024-20-1504	1.00 to 1.24 • 2.54 to 3.15	1200 • 545	12.0 • 305	14.0 • 356
ELH024-20-1470	1.25 to 1.49 • 3.18 to 3.78	1640 • 745	12.0 • 305	15.0 • 381
ELH024-20-1510	1.50 to 1.74 • 3.81 to 4.42	1660 • 755	12.0 • 305	17.0 • 432
ELH024-20-1499	1.75 to 1.99 • 4.45 to 5.05	1800 • 818	12.0 • 305	19.0 • 483
ELH024-20-1542	2.00 to 2.50 • 5.08 to 6.35	1800 • 818	12.0 • 305	21.0 • 533



## SINGLE EYE / SINGLE WEAVE / SPLIT ROD – STAINLESS STEEL

Part Number	Cable Dia. Range inches • mm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
ELH024-03-014	.63 to .74 • 1.60 to 1.88	410 • 186	8.0 • 203	8.5 • 216
ELH024-03-015	.75 to .99 • 1.91 to 2.51	410 • 186	8.0 • 203	10.5 • 267
ELH024-03-017	1.00 to 1.24 • 2.54 to 3.15	530 • 240	9.0 • 229	12.5 • 317
ELH024-03-018	1.25 to 1.49 • 3.18 to 3.78	900 • 408	10.0 • 254	14.5 • 368
ELH024-03-019	1.50 to 1.74 • 3.81 to 4.42	900 • 408	12.0 • 305	15.5 • 394
ELH024-03-020	1.75 to 1.99 • 4.45 to 5.05	900 • 408	14.0 • 356	16.5 • 419



## UNIVERSAL BALE / SINGLE WEAVE / SPLIT ROD – STAINLESS STEEL

Part Number	Cable Dia. Range inches • mm	Maximum Load* lbs • kg	Eye Length inches • mm	Nom. Mesh Length inches • mm
ELH024-03-066	.75 to .99 • 1.91 to 2.51	336 • 153	up to 16 • 400	10.5 • 267
ELH024-03-068	1.00 to 1.24 • 2.54 to 3.15	530 • 241	up to 16 • 400	12.5 • 317
ELH024-03-069	1.25 to 1.49 • 3.18 to 3.78	530 • 241	up to 16 • 400	14.5 • 368
ELH024-03-070	1.50 to 1.74 • 3.81 to 4.42	530 • 241	up to 16 • 400	15.5 • 394

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



# Flat Traveling Cable Type ETP

UNSUPPORTED – UL LISTED, CSA CERTIFIED, NEC/CEC COMPLIANT

POWER AND SIGNAL CONDUCTORS - 300V RATED					UL us (NEC)
Part Number Product Code	Number/Size of Conductors	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km	
20417051 P 8-18	8 / 18 AWG	200 • 61	.19 x 1.00 • 4.8 x 25.4	145 • 215	
20417050 P 9-18	9 / 18 AWG	200 • 61	.19 x 1.01 • 4.8 x 25.6	137 • 203	
18-010-07 P 10-18	10 / 18 AWG	200 • 61	.19 x 1.07 • 4.8 x 27.2	157 • 233	
18-012-07 P 12-18	12 / 18 AWG	200 • 61	.19 x 1.30 • 4.8 x 33.0	210 • 312	
20417052 P 16-18	16 / 18 AWG	200 • 61	.19 x 1.67 • 4.8 x 42.4	235 • 349	
20417040 P 20-18	20 / 18 AWG	200 • 61	.19 x 2.30 • 4.8 x 58.4	296 • 440	
18-208-07 P 8-16	8 / 16 AWG	200 • 61	.20 x 0.97 • 5.1 x 24.6	156 • 232	
18-212-07 P 12-16	12 / 16 AWG	200 • 61	.20 x 1.50 • 5.1 x 38.1	231 • 343	
18-224-07 P 24-16	16 / 16 AWG	200 • 61	.20 x 2.90 • 5.1 x 73.7	462 • 686	
18-412-07 P 12-14	12 / 14 AWG	200 • 61	.26 x 2.00 • 6.6 x 50.8	366 • 543	



SHIELDED PAIRS					UL us (NEC)
Part Number Product Code	Number/Size of Conductors	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km	
20417065 P 4X20SH	4 shielded pair / 20 AWG	200 • 61	.30 x .940 • 7.62 x 23.9	184 • 273	
20417068 P 8X20SH	8 shielded pair / 20 AWG	200 • 61	.30 x 2.00 • 7.62 x 50.8	430 • 638	



UNITIZED CONDUCTORS / POWER AND SIGNAL CONDUCTORS - 300V RATED					UL us (NEC)
Part Number Product Code	Number/Size of Conductors	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km	
18-040-07 G 40-18 UNITIZED	40 / 18 AWG	200 • 61	.39 x 1.90 • 9.9 x 48.3	524 • 778	
18-C28-07 GCX 31	28 / 18 AWG 3 RG6/U coax	200 • 61	.375 x 2.20 • 9.5 x 55.9	565 • 839	



Note: European standards limit maximum hang lengths to 45 meters for unsupported cables.

Use these tools to prepare flat traveling cable. See pages 97 - 99 for details.

ELH36-135-M1      ELH17-05-0001      ELH36-219 automatic      ELH37-177 manual  
FCJ flat cable stripper      QuickStrip wire stripper      wire stripper      wire stripper



This catalog shows a sample of product offering. Please call 1877 372 5237 if you require a custom design.

# Flat Traveling Cable Type ETP

UNSUPPORTED – UL LISTED, CSA CERTIFIED, NEC/CEC COMPLIANT

## POWER AND SIGNAL CONDUCTORS - 300V RATED

Part Number Product Code	Number/Size of Conductors	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
20417069 PC11	3 / 14 AWG 4 shielded pair / 20 AWG	200 • 61	.29 x 1.55 • 7.4 x 39.4	345 • 512
18-216-07 PC16	2 / 14 AWG 1 shielded pair / 14 AWG 6 shielded pair / 18 AWG	200 • 61	.43 x 2.40 • 10.9 x 61.0	690 • 1024
20417059 PC16A	4 / 14 AWG 10 / 18 AWG 1 shielded pair / 20 AWG	200 • 61	.29 x 2.20 • 7.4 x 55.9	490 • 728
20417054 PC16	4 / 14 AWG 12 / 18 AWG	200 • 61	.23 x 1.91 • 5.8 x 48.5	385 • 572
18-C18-07 PC18	6 / 14 AWG 12 / 18 AWG	200 • 61	.23 x 2.19 • 5.8 x 55.6	401 • 597
18-218-07 PC18	2 / 14 AWG 12 / 18 AWG 2 twisted pair / 20 AWG 2 shielded pair / 20 AWG	200 • 61	.23 x 1.20 • 5.8 x 30.5	330 • 490
18-021-07 PC21	3 / 14 AWG 14 / 18 AWG 2 shielded pair / 20 AWG	200 • 61	.29 x 2.35 • 7.4 x 59.7	499 • 741
18-C21-07 PCX21	4 / 14 AWG 10 / 18 AWG 3 shielded pair / 20 AWG 1 RG6/U coax	200 • 61	.375 x 2.80 • 9.5 x 71.1	715 • 1062
18-421-07 PC21SP †	5 / 16 AWG 8 / 18 AWG 4 twisted pair / 20 AWG	200 • 61	.29 x 2.33 • 7.4 x 59.2	494 • 733
20417066 PC22	4 / 14 AWG 10 / 18 AWG 4 shielded pair / 20 AWG	200 • 61	.29 x 2.65 • 7.4 x 67.3	639 • 935
18-026-07 PC26 SP †	4 / 14 AWG 10 / 18 AWG 6 foil shielded pair / 20 AWG	200 • 61	.25 x 2.74 • 6.4 x 69.6	525 • 780
20417060 PC26	4 / 14 AWG 10 / 18 AWG 6 shielded pair / 20 AWG	200 • 61	.29 x 3.05 • 7.4 x 77.5	626 • 932



## SIGNAL CONDUCTORS WITH FIBER OPTICS - 300V RATED



Part Number Product Code	Number/Size of Conductors	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
18-F10-07 PCF18	8 shielded pair / 20 AWG 2 optical fibers / 62.5µm (OM2)	200 • 61	.29 x 2.12 • 7.4 x 53.8	417 • 620

†“SP” denotes special color coding and/or conductor numbering.

Note: European standards limit maximum hang lengths to 45 meters for unsupported cables.

Use these tools to prepare flat traveling cable. See pages 97 - 99 for details.

ELH36-135-M1  
FCJ flat cable stripper

ELH17-05-0001  
QuickStrip wire stripper

ELH36-219 automatic  
wire stripper

ELH37-177 manual  
wire stripper



This catalog shows a sample of product offering. Please call 1877 372 5237 if you require a custom design.

# Flat Traveling Cable Type ETP

SUPPORTED – UL LISTED, CSA CERTIFIED, NEC/CEC COMPLIANT

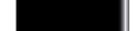
POWER AND SIGNAL CONDUCTORS - 300V RATED					
Part Number Product Code	Number/Size of Conductors	Steel Support Dia. inches • mm	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/k
20417024 PWS 12-14	12 / 14 AWG	3/32 • 2.4	900 • 274	.24 x 2.20 • 6.1 x 56.0	444 • 659
18-020-17 PWS 20-18	20 / 18 AWG	3/32 • 2.4	900 • 274	.19 x 2.30 • 4.8 x 58.4	348 • 517
20417016 PWS 24-18	24 / 18 AWG	3/32 • 2.4	900 • 274	.19 x 2.69 • 4.8 x 68.3	407 • 604
20417085 PCWS13	4 / 14 AWG 4 shielded pair / 20 AWG 1 RG6/U coax	3/32 • 2.4	700 • 213	.38 x 2.25 • 9.5 x 57.0	590 • 876
18-C17-17 PCSX17	8 shielded pair / 20 AWG 1 RG6 coax	3/32 • 2.4	672 • 205	.38 x 2.35 • 9.5 x 60.0	616 • 915
20417011 PCWS26	18 / 18 AWG 4 shielded pair / 20 AWG	3/32 • 2.4	638 • 194	.29 x 3.00 • 7.4 x 76.0	648 • 962
20417042 PCWSF9	4 shielded pair / 20 AWG 1 optical fiber (62.5/125µm)	3/32 • 2.4	900 • 274	.29 x 1.50 • 7.4 x 38.0	302 • 448
20417079 PCSX20	2 / 16 AWG 8 shielded pair / 20 AWG 2 RG6/U coax	3/32 • 2.4	457 • 139	.38 x 3.00 • 9.5 x 76.0	905 • 1344
18-X26-17 PCWS26	4 / 14 AWG 10 / 18 AWG 6 shielded pair / 20 AWG	3/32 • 2.4	560 • 171	.29 x 3.25 • 7.4 x 82.6	739 • 1097



UNITIZED CONSTRUCTION / POWER AND SIGNAL CONDUCTORS - 300V RATED					
Part Number Product Code	Number/Size of Conductors	Steel Support Dia. inches • mm	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
18-039-17 GCWS39	6 / 14 AWG	3/32 • 2.4	573 • 175	.41 x 2.50 • 10.4 x 63.5	722 • 1072
18-040-17 GWS 40-18 UNITIZED	40 / 18 AWG	1/8 • 3.2	900 • 274	.39 x 2.20 • 10.0 x 56.0	646 • 959



UNITIZED CONSTRUCTION / POWER AND SIGNAL WITH FIBER OPTICS - 300V RATED					
Part Number Product Code	Number/Size of Conductors	Steel Support Dia. inches • mm	Max. Hang Length feet • meters	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
20417029 GCWS54 UNITIZED	10 / 14 AWG 18 / 18 AWG 12 shielded pair / 20 AWG 2 optical fibers (OM162.5µm)	1/8 • 3.2	720 • 219	.53 x 3.66 • 13.5 x 93.0	1248 • 1857



Use these tools to prepare flat traveling cable. See pages 97 - 99 for details.

ELH36-135-M1      ELH17-05-0001      ELH36-219 automatic      ELH37-177 manual  
FCJ flat cable stripper      QuickStrip wire stripper      wire stripper      wire stripper



This catalog shows a sample of product offering. Please call 1877 372 5237 if you require a custom design.

# Flat Cable Suspension Devices

FOR UNSUPPORTED FLAT CABLES – NYLON/PLASTIC CONSTRUCTION

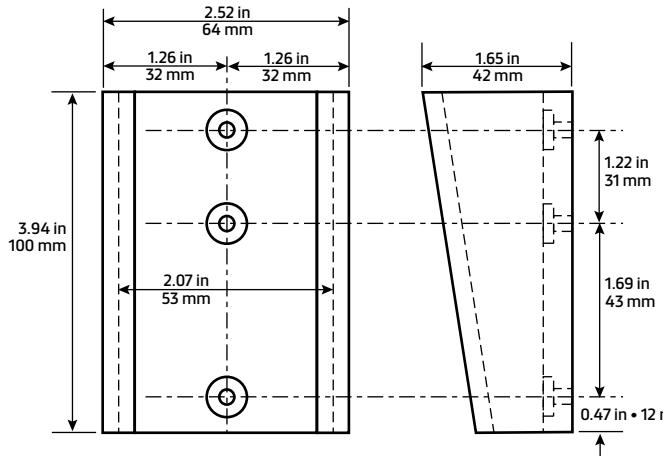
## SUSPENSION DEVICE – NYLON/PLASTIC

Part Number	Description
ELHFCSD-2	Flat cable suspension device for cables up to 2 in • 51 mm wide Mounting holes are .20 in • 5 mm with .55 in • 14 mm counterbore

The ELHFCSD-2 is made of a durable nylon/plastic. It consists of a bracket that attaches to the hoistway wall or the car, and a clamping wedge that secures the cable in the bracket.

The ELHFCSD-2 is designed to hold cables totaling a maximum thickness of 0.47 in • 12 mm and maximum width of 2 inches • 52 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.



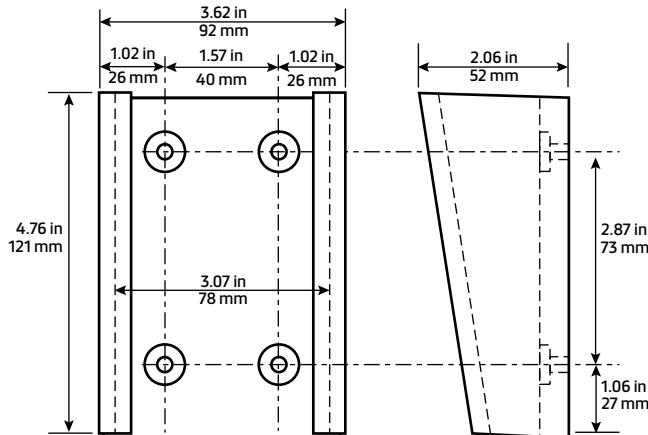
## SUSPENSION DEVICE – NYLON/PLASTIC

Part Number	Description
ELHFCSD-3	Flat cable suspension device for one or more cables up to 3 in • 76 mm wide Mounting holes are .25 in • 6.35 mm with .55 in • 14 mm counterbore

The ELHFCSD-3 is made of a durable nylon/plastic. It consists of a bracket that attaches to the hoistway wall or the car, and a clamping wedge that secures the cable in the bracket.

The ELHFCSD-3 is designed to hold one or more cables totaling a maximum thickness of 0.59 in • 15 mm and maximum width of 3 in • 76 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.



# Flat Cable Suspension Devices

FOR UNSUPPORTED FLAT CABLES – NYLON/PLASTIC OR STEEL CONSTRUCTION

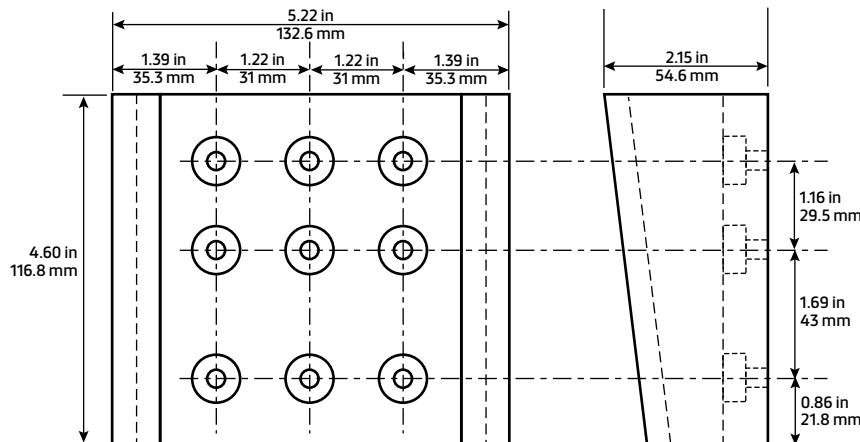
## WIDE SUSPENSION DEVICE – NYLON/PLASTIC

Part Number	Description
ELHFCSD-4P	Flat cable suspension device for one or more cables, max 4.5 in • 114 mm wide Mounting holes are .26 in • 6.6 mm with 0.66 in • 17 mm counterbore

The ELHFCSD-4P is made of a durable nylon/plastic. It consists of a bracket that attaches to the hoistway wall or the car, and a clamping wedge that secures the cable in the bracket.

The ELHFCSD-4P is designed to hold one or more cables up to a maximum thickness of 0.59 in • 15 mm and maximum width of 4.5 in • 114 mm.

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



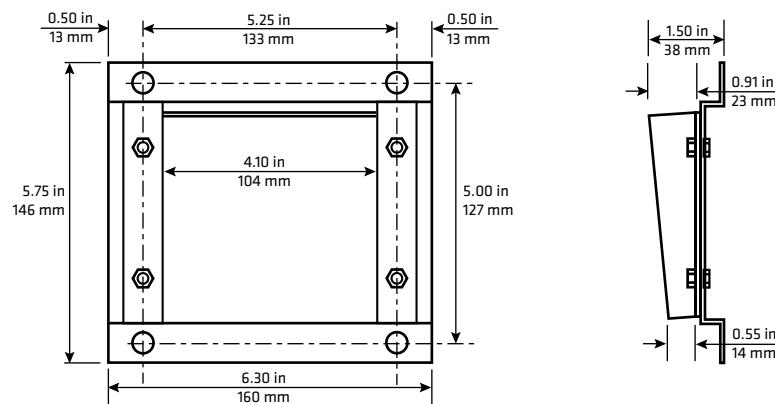
## WIDE SUSPENSION DEVICE – STEEL

Part Number	Description
ELHFCSD-4	Flat cable suspension device for up to 3 cables, max 4 in • 101 mm wide Mounting holes are .281 in • 7.14 mm

The ELHFCSD-4 is formed of sheet steel with an aluminum clamping wedge. The bracket attaches to the hoistway wall or the car, and the clamping wedge secures the cable in the bracket.

The ELHFCSD-4 is designed to hold up to three cables totaling a maximum thickness of .55 inches • 14 mm and a maximum width of 4 in • 101 mm. Maximum load is 500 lbs • 227 kg. 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.



# Flat Cable Suspension Devices

## FOR STEEL-SUPPORTED FLAT CABLES – STEEL CONSTRUCTION

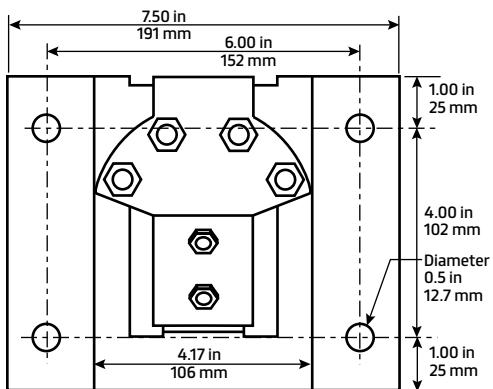
### STEEL-SUPPORTED SUSPENSION DEVICE – STEEL

Part Number	Description
ELHFCSD-S	Flat cable suspension device for steel supported cables. Mounting holes are 1/2 in. • 12.7 mm

The ELHFCSD-S is formed of sheet steel. It attaches to the hoistway wall or the car. The steel support cable is carried by the four 3/8 in. • 9.5 mm carbon-steel support studs, and held in place by the front bracket.

The ELHFCSD-S is designed to hold multiple cables up to 4.1 in. • 105 mm in width totaling a maximum thickness of 5/8 in. • 16 mm. Maximum supported weight is 1500 lbs • 681 kg.

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



Use a swaging tool to assist attaching cables to the ELFFCSD-S. See page 101 for details.



# Super-Duct® Hoistway Cable

JACKETED AND UNJACKETED – UL LISTED, CSA CERTIFIED, NEC/CEC COMPLIANT

UNJACKETED - POWER AND SIGNAL CONDUCTORS - 600V RATED				LIFETIME WARRANTY
Part Number	Product Code	Number/Size of Conductors	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km
20417001	WOJ 3-14	3 / 14 AWG	0.31 • 7.9	59 • 88
20416994	WOJ 4-14	4 / 14 AWG Insulation colors are red, white, black, green	0.35 • 9.0	79 • 118
20416996	WOJ 5-14	5 / 14 AWG Insulation colors are one black, four grey - special print numbers	0.40 • 10.2	102 • 152
20417000	WOJ 8-14 SP <sup>†</sup>	8 / 14 AWG Conductors colors are #1 / green, #2 to 4 / white, #5 to 8 / black	0.50 • 12.7	158 • 235
20417322	WOJ 2X18TW 600V SP <sup>†</sup>	2 unshielded pair / 18 AWG	0.36 • 9.2	41 • 61
20416860	WOJ 14-14	14 / 14 AWG	0.63 • 16.0	276 • 411
20416997	WOJ 4-18	4 / 18 AWG	0.27 • 6.9	41 • 61
20417007	WOJ 4-18 SP <sup>†</sup>	4 / 18 AWG Conductors colors are #1 / yellow, #2 / orange, #3 / blue, #4 / red	0.27 • 6.9	41 • 61
20417008	WOJ 7-18	7 / 18 AWG	0.34 • 8.6	72 • 107
20416998	WOJ 8-18	8 / 18 AWG Available with only 90°C-rated conductors	0.35 • 8.9	80 • 119
20417009	WOJ 10-18	10 / 18 AWG	0.43 • 10.9	103 • 153
20416867	WOJ 12-18	12 / 18 AWG	0.46 • 11.7	119 • 177
20416871	WOJ 14-18	14 / 18 AWG	0.49 • 12.4	144 • 214
20416866	WOJ 16-18	16 / 18 AWG	0.53 • 13.5	165 • 246
20416881	WOJ 19-18	19 / 18 AWG	0.56 • 14.2	195 • 290
20416873	WOJ 24-18	24 / 18 AWG	0.66 • 16.8	234 • 349
20416882	WOJ 30-18	30 / 18 AWG	0.72 • 18.3	307 • 457
20416874	WOJ 37-18	37 / 18 AWG	0.78 • 19.8	380 • 56
20416875	WOJ 37-18 SP <sup>†</sup>	37 / 18 AWG Conductors are numbered 38 to 74	0.78 • 19.8	380 • 566
20416876	WOJ 42-18	42 / 18 AWG	0.84 • 21.3	432 • 64
20416877	WOJ 61-18	61 / 18 AWG	0.98 • 24.9	625 • 930



JACKETED - POWER AND SIGNAL CONDUCTORS - 600V RATED			LIFETIME WARRANTY
Part Number	Product Code	Number/Size of Conductors	Cable Nom. OD inches • mm
20417326	D4-18	4 / 18 AWG Conductor colors are #1/black, #2/white, #3/green, #4/red	0.33 • 8.4
20417334	D7-14	7 / 14 AWG Conductors are solid, not stranded, copper	0.46 • 11.7
20417328	D7-18	7 / 18 AWG	0.40 • 10.2



90°C-rated conductors are available upon request.

<sup>†</sup>"SP" denotes special color coding and/or conductor numbering.

Use these tools to prepare Super-Duct hoistway cable. See page 98 for details.

ELH17-05-0001  
QuickStrip wire stripper

ELH36-219 automatic  
wire stripper

ELH37-177 manual  
wire stripper



This catalog shows a sample of product offering. Please call 1 877 372 5237 if you require a custom design.

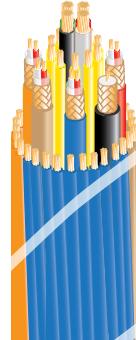
# Super-Duct® Hoistway Cable

UNJACKETED – UL LISTED, CSA CERTIFIED, NEC/CEC COMPLIANT

UNJACKETED - POWER & SIGNAL CONDUCTORS - 300V RATED				LIFETIME WARRANTY	UL us	NEC
Part Number	Product Code	Number/Size of Conductors	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km		
20416945	WOJ 4-18 300V	4 / 18 AWG	0.22 • 5.6	32 • 48		
20416962	WOJ 5-18 300V	5 / 18 AWG	0.25 • 6.4	41 • 61		
20416975	WOJ 7-18 300V	7 / 18 AWG	0.27 • 6.9	57 • 85		
20416985	WOJ 10-18 300V	10 / 18 AWG	0.34 • 8.6	81 • 121		
20416980	WOJ 14-18 300V	14 / 18 AWG	0.40 • 10.2	114 • 170		
20416989	WOJ 16-18 300V	16 / 18 AWG	0.43 • 10.9	130 • 194		
20416991	WOJ 19-18 300V	19 / 18 AWG	0.45 • 11.4	155 • 231		
20417002	WOJ 30-18 300V	30 / 18 AWG	0.58 • 14.7	246 • 367		
20416993	WOJ 37-18 300V	37 / 18 AWG	0.63 • 16.0	301 • 449		
20417003	WOJ 61-18 300V	61 / 18 AWG	0.82 • 20.8	503 • 750		
20417307	WOJ 1x18 0/GY 300V	1 unshielded pair / 18 AWG	0.18 • 4.6	16 • 24		
20417320	WOJ 1x18 R/BK 300V	1 unshielded pair / 18 AWG	0.18 • 4.6	16 • 24		
20417306	WOJ 2x18 DUCT SP 300V <sup>†</sup>	2 unshielded pairs / 18 AWG	0.30 • 7.6	33 • 49		



UNJACKETED - POWER, SIGNAL, SHIELDED PAIRS & COAX - 300V AND 600V RATED				LIFETIME WARRANTY	UL us	NEC
Part Number	Product Code	Number/Size of Conductors	Cable Nom. OD inches • mm	Cable Net Weight lbs/kft • kg/km	Rated Voltage	
20416823	CWOJ 14 SP <sup>†</sup>	3 / 14 AWG 11 / 18 AWG Conductor colors are #12/black - #13/white - #14/green	0.48 • 12.2	148 • 221	300V	
20416852	3-14+1X18 600V	3 / 14 AWG 1 unshielded pair / 18 AWG	0.49 • 12.4	80 • 120	600V	
18-130-42	CWOJ 30 SP <sup>†</sup>	13 / 14 AWG 17 / 18 AWG	0.85 • 21.6	436 • 647	600V	
20417214	CWOJ 32 SP <sup>†</sup>	6 / 14 AWG 16 / 18 AWG 1 shielded pair / 20 AWG 1 unshielded pair / 20 AWG 3 unshielded pair / 18 AWG	0.85 • 21.6	401 • 597	600V	
20416825	CWOJ 49	4 / 14 AWG 45 / 18 AWG	0.98 • 24.9	530 • 789	600V	
20417280	CWOJ 57	4 / 14 AWG 40 / 18 AWG 6 shielded pair / 20 AWG 1 coax / RG6/U	1.13 • 28.7	612 • 913	300V	
20417216	CWOJ 71	6 / 14 AWG 61 / 18 AWG 2 shielded pair / 20 AWG	1.18 • 30.0	816 • 1214	600V	
20417311	CWOJ 77	4 / 14 AWG 60 / 18 AWG 6 shielded pair / 20 AWG 1 coax / RG6/U	1.22 • 31.0	831 • 1237	300V	



90° C-rated conductors are available upon request.

<sup>†</sup>“SP” denotes special color coding and/or conductor numbering.

Use these tools to prepare Super-Duct hoistway cable. See page 98 for details.

ELH17-05-0001  
QuickStrip wire stripper

ELH36-219 automatic  
wire stripper

ELH37-177 manual  
wire stripper



This catalog shows a sample of product offering. Please call 1 877 372 5237 if you require a custom design.

# Stationary Cable & Door Lock Wire

UL LISTED, CSA CERTIFIED, NEC/CEC COMPLIANT – OTHER COMPLIANCES AS NOTED

STATIONARY SHIELDED PAIR CABLE FOR AUDIO / DATA COMMUNICATIONS						
Part Number	Number/Size of Conductors	Shielded Pair Colors	Shield Type and Coverage	Drain Wire	Nominal OD inches • mm	Net Weight lbs/kft • kg/km
20416899	1 pair / 20 AWG	red/white	Copper braid 85%	N/A	0.22 • 5.5	29 • 43
1000123984	2 pairs / 20 AWG	black/red, green/white	Foil 100%	22 AWG	0.23 • 5.8	34 • 51
1000123985	3 pairs / 20 AWG	see below	Foil 100%	22 AWG	0.30 • 7.6	52 • 77
01000123986	4 pairs / 20 AWG	see below	Foil 100%	22 AWG	0.32 • 8.1	64 • 95
1000123987	6 pairs / 20 AWG	see below	Foil 100%	22 AWG	0.38 • 9.7	87 • 130
1000123988	9 pairs / 20 AWG	see below	Foil 100%	22 AWG	0.45 • 11.4	132 • 196
1000123989	12 pairs / 20 AWG	see below	Foil 100%	22 AWG	0.50 • 12.7	169 • 251
1000123990	15 pairs / 20 AWG	see below	Foil 100%	22 AWG	0.60 • 15.2	225 • 335

Single pair cable has a black jacket.  
Multiple pair cables have grey jackets.

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



DOOR LOCK WIRE SF-2 SINGLE CONDUCTOR - 600V 200° C RATED NYC CODE COMPLIANT / COMPLIES WITH ANSI/ASTM B174 AND B3 AS REQUIRED						
Part Number	Product Code	Description/Size of Single Conductor	Nominal OD inches • mm	Net Weight lbs/kft • kg/km	Put-ups	Jacket Color
1000123599	16 AWG SF-2	7 / .019 tinned copper 16 AWG	0.14 • 3.6	15 • 22.3	cut to length	Black
1000123600	16 AWG SF-2	as above	0.14 • 3.6	15 • 22.3	cut to length	Red
16ASF2WR500	16 AWG SF-2	as above	0.14 • 3.6	15 • 22.3	500 ft.	White/Red
1000123601	16 AWG SF-2	as above	0.14 • 3.6	15 • 22.3	cut to length	White/Red
ELC18ASF2RD1000	18 AWG SF-2	7 / .015 tinned copper 18 AWG	0.13 • 3.3	12 • 17.9	1000 ft.	Red
ELC18ASF2RD500	18 AWG SF-2	as above	0.13 • 3.3	12 • 17.9	500 ft.	Red
1000123431	18 AWG SF-2	as above	0.13 • 3.3	12 • 17.9	cut to length	Red
ELC18ASF2WR1000	18 AWG SF-2	7 / .015 tinned copper 18 AWG	0.13 • 3.3	12 • 17.9	1000 ft.	White/Red
ELC18ASF2WR500	18 AWG SF-2	as above	0.13 • 3.3	12 • 17.9	500 ft.	White/Red
1000123623	18 AWG SF-2	as above	0.13 • 3.3	12 • 17.9	cut to length	White/Red
ELC18ASF2BL500	18 AWG SF-2	as above	0.13 • 3.3	12 • 17.9	500 ft.	Black
20065337	18 AWG SF-2	as above	0.13 • 3.3	12 • 17.9	cut to length	Black
1000123638	18 AWG SF-2	Solid tinned copper 18 AWG	0.12 • 3.0	12 • 17.9	cut to length	Red



Use these tools to prepare Super-Duct hoistway cable. See page 98 for details.

ELH17-05-0001  
QuickStrip wire stripper



ELH36-219 automatic  
wire stripper



ELH37-177 manual  
wire stripper



# Hook-up Wire (THHN) 90°C Rated

UL LISTED, CSA CERTIFIED, NEC/CEC COMPLIANT

THHN-TYPE SINGLE CONDUCTOR - 600V RATED					
Part Number Product Code	Description/Size of Single Conductor	Nominal OD inches • mm	Net Weight lbs/kft • kg/km	Insulation Thickness inches • mm	Insulation Color
1000123682 4/0 THHN	19 strand copper 4/0 AWG	0.64 • 16.2	711 • 1058	.05 • 1.3	Black
1000123672 3/0 THHN	19 strand copper 3/0 AWG	0.58 • 14.7	570 • 848	.05 • 1.3	Black
1000123654 2/0 THHN	19 strand copper 2/0 AWG	0.52 • 13.2	458 • 681	.05 • 1.3	Black
1000123548 1/0 THHN	19 strand copper 1/0 AWG	0.48 • 12.2	369 • 549	.05 • 1.3	Black
1000123640 1 AWG THHN	19 strand copper 1 AWG	0.44 • 11.2	297 • 442	.05 • 1.3	Black
1000123668 2 AWG THHN	19 strand copper 2 AWG	0.38 • 9.7	232 • 345	.04 • 1.0	Black
1000123688 4 AWG THHN	19 strand copper 4 AWG	0.32 • 8.1	151 • 225	.04 • 1.0	Black
1000123701 6 AWG THHN	19 strand copper 6 AWG (also suitable for 105°C AWM)	0.25 • 6.4	94 • 140	.03 • 0.8	Black
1000123702 6 AWG THHN	19 strand copper 6 AWG (also suitable for 105°C AWM)	0.25 • 6.4	94 • 140	.03 • 0.8	Green
1000123714 8 AWG THHN	19 strand copper 8 AWG (also suitable for 105°C AWM)	0.22 • 5.5	62 • 92	.03 • 0.8	Black
1000123716 8 AWG THHN	19 strand copper 8 AWG (also suitable for 105°C AWM)	0.22 • 5.5	62 • 92	.03 • 0.8	Green
1000123557 10 AWG THHN	19 strand copper 10 AWG (also suitable for 105°C AWM)	0.16 • 4.0	38 • 57	.02 • 0.5	Black
1000123559 10 AWG THHN	19 strand copper 10 AWG (also suitable for 105°C AWM)	0.16 • 4.0	38 • 57	.02 • 0.5	Green
1000123571 12 AWG THHN	19 strand copper 12 AWG (also suitable for 105°C AWM)	0.13 • 3.3	24 • 36	.02 • 0.5	Black
1000123574 12 AWG THHN	19 strand copper 12 AWG (also suitable for 105°C AWM)	0.13 • 3.3	24 • 36	.02 • 0.5	Green



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.

All cables are cut to length. Please specify.

Use these tools to prepare Super-Duct hoistway cable. See page 98 for details.

ELH17-05-0001  
QuickStrip wire stripper

ELH36-219 automatic  
wire stripper

ELH37-177 manual  
wire stripper



# Hook-up Wire (TEW) 105°C Rated

UL LISTED, CSA CERTIFIED, NEC/CEC COMPLIANT

TEW-TYPE SINGLE CONDUCTOR - 600V RATED						
Part Number	Product Code	Description/Size of Single Conductor	Nominal OD inches • mm	Net Weight lbs/kft • kg/km	Put-ups	Insulation Color
ELC14ATEWBU500	14 AWG TEW	19 / .0147 strand copper 14 AWG	0.13 • 3.3	19 • 28.1	500 ft.	Blue
ELC14ATEWBL500	14 AWG TEW	as above	0.13 • 3.3	19 • 28.1	500 ft.	Black
ELC14ATEWGN500	14 AWG TEW	as above	0.13 • 3.3	19 • 28.1	500 ft.	Green
ELC14ATEWRD500	14 AWG TEW	as above	0.13 • 3.3	19 • 28.1	500 ft.	Red
ELC14ATEWWH500	14 AWG TEW	as above	0.13 • 3.3	19 • 28.1	500 ft.	White
ELC16ATEWBL500	16 AWG TEW	26 / .010 strand copper 16 AWG	0.12 • 3.0	15 • 22.2	500 ft.	Black
16ATEWBU500	16 AWG TEW	as above	0.12 • 3.0	15 • 22.2	500 ft.	Blue
ELC16ATEWOR500	16 AWG TEW	as above	0.12 • 3.0	15 • 22.2	500 ft.	Orange
ELC16ATEWYW500	16 AWG TEW	as above	0.12 • 3.0	15 • 22.2	500 ft.	Yellow
ELC18ATEWBL500	18 AWG TEW	16 / .010 strand copper 18 AWG	0.11 • 2.8	11 • 16.3	500 ft.	Black
ELC18ATEWBR500	18 AWG TEW	as above	0.11 • 2.8	11 • 16.3	500 ft.	Brown
ELC18ATEWBU500	18 AWG TEW	as above	0.11 • 2.8	11 • 16.3	500 ft.	Blue
ELC18ATEWGN500	18 AWG TEW	as above	0.11 • 2.8	11 • 16.3	500 ft.	Green
ELC18ATEWGY500	18 AWG TEW	as above	0.11 • 2.8	11 • 16.3	500 ft.	Grey
ELC18ATEWMR500	18 AWG TEW	as above	0.11 • 2.8	11 • 16.3	500 ft.	Maroon
ELC18ATEWOR500	18 AWG TEW	as above	0.11 • 2.8	11 • 16.3	500 ft.	Orange
ELC18ATEWPK500	18 AWG TEW	as above	0.11 • 2.8	11 • 16.3	500 ft.	Pink
ELC18ATEWPU500	18 AWG TEW	as above	0.11 • 2.8	11 • 16.3	500 ft.	Purple
ELC18ATEWRD500	18 AWG TEW	as above	0.11 • 2.8	11 • 16.3	500 ft.	Red
ELC18ATEWTN500	18 AWG TEW	as above	0.11 • 2.8	11 • 16.3	500 ft.	Tan
ELC18ATEWYW500	18 AWG TEW	as above	0.11 • 2.8	11 • 16.3	500 ft.	Yellow
1000123657	20 AWG TEW	10 / .030 strand copper 20 AWG	0.10 • 2.5	8 • 3.6	1000 ft.	Black
1000123658	20 AWG TEW	as above	0.10 • 2.5	8 • 3.6	1000 ft.	Red
1000123659	20 AWG TEW	as above	0.10 • 2.5	8 • 3.6	1000 ft.	White



Use these tools to prepare Super-Duct hoistway cable. See page 98 for details.

ELH17-05-0001  
QuickStrip wire stripper



ELH36-219 automatic  
wire stripper



ELH37-177 manual  
wire stripper



# Power, Signal & Communication Cable

UL LISTED, CSA CERTIFIED, NEC/CEC COMPLIANT

## SOOW-TYPE FOUR CONDUCTOR PORTABLE CORD - 600V 90°C RATED



Part Number	Product Code	Strands/Size/Description of Conductors	Nominal OD inches • mm	Net Weight lbs/kft • kg/km	Put-ups	Jacket Colors
1000123691	6 AWG SOOW	133 / .0142 strand copper	1.06 • 26.9	856 • 388	250 ft.	Black
1000123708	8 AWG SOOW	65 / .0159 strand copper	0.93 • 23.6	605 • 274	250 ft.	Black
1000123550	10 AWG SOOW	104 / .010 strand copper	0.70 • 17.8	357 • 162	250 ft.	Black

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

## CONTROL AND SIGNAL OR POWER CABLE FOR HOISTWAY AND MACHINE ROOM



Part Number	Description	Suggested Use
1000123734	7 / 18 AWG stranded copper, PVC insulation, unjacketed, 300V 90°C	Control and signal

## DATA COMMUNICATIONS CABLE FOR HOISTWAY AND MACHINE ROOM



Part Number	Description	Suggested Use
1000123346	Cat5e UTP / 24 AWG stranded tin copper, unshielded, grey PVC jacket, 75°C (sold on 1000 ft. reels)	Data communications
1000123644	1 shielded twisted pair / 18 AWG stranded copper, PVC jacket, foil shield, 600V 60°C	Control and signal
1000123735	2 shielded twisted pairs / 18 AWG stranded copper, PVC jacket, individual foil shield, 300V 80°C	Control and signal
1000123523	3 shielded twisted pairs / 18 AWG stranded copper, PVC jacket, individual foil shield, 300V 105°C, sold on 1000 ft. reels	Instrumentation
1000123972	3 pairs / 24 AWG stranded tin/copper, PVC insulation, foil and braid shields, PVC jacket, 300V 80°C, sold on 1000 ft. reels	Data communications
1000123723	1 pair / 22 AWG stranded tin copper, 120 ohm • overall foil shield, PVC jacket, 300V 60°C	Data communications

## COAX CABLE FOR HOISTWAY & MACHINE ROOM



Part Number	Description	Suggested Use
ELH109259	RG59/U coax with a stranded copper conductor, PVC jacket	Video, CCTV
1000123967	RG59/U coax with a solid copper conductor, PVC jacket	Video, CCTV
1000123525	RG6/U coax with a stranded copper conductor, PVC jacket	Video, CCTV

## INSTRUMENTATION CABLE FOR HOISTWAY AND MACHINE ROOM



Part Number	Description	Suggested Use
1000123527	2 pair / 22 AWG stranded tin/copper, PVC insulation, overall foil shield, PVC jacket, 300V 105°C	Instrumentation
1000123529	4 pair / 22 AWG stranded tin/copper, PVC insulation, overall foil shield, PVC jacket, 300V 105°C	Instrumentation

## POWER CABLE FOR HOISTWAY AND MACHINE ROOM



Part Number	Description	Suggested Use
1000123643	1 twisted pair / 18 AWG stranded copper, unjacketed, orange/black, 600V 105°C	Power
1000123642	1 twisted pair / 12 AWG stranded copper, unjacketed, red/black, 600V 105°C	Power

## FIBER OPTIC CABLE FOR COMMUNICATIONS AND VIDEO

Part Number	Description	Suggested Use
1000123684	Six tight-buffered OM3 50 µm multimode fiber, 850/1300 wavelength with 1500/500 MHz bandwidth, 1 GbE performance at 1000 meters, 10 GbE performance at 300 meters	Video, data communications

# Rails, Ferrules & Connectors

UL LISTED, CSA CERTIFIED

## CARRIER RAILS



Part Number	Description
ELH210-113	DIN 35 rail, steel/unslotted, 6.6 ft • 2 meters long
ELH210-112	DIN 35 rail, steel/slotted, 6.6 ft • 2 meters long
ELH210-111	DIN 15 rail, steel/slotted, 6.6 ft • 2 meters long
ELH249-116	Screwless end stop for carrier rail

ELH210-113



ELH249-116



## FERRULES



Part Number	Description
Ask for specific sizes	Insulated ferrules, 0.25 mm <sup>2</sup> to 16 mm <sup>2</sup>
Ask for specific sizes	Uninsulated ferrules, 0.25 mm <sup>2</sup> to 16 mm <sup>2</sup>

Use the Draka EHC QuickCrimp - see page 99 - to attach these ferrules.

ELH98-03-78



ELH98-03-80



ELH98-03-79



ELH98-03-81



ELH98-05-48



ELH98-05-15



ELH222-412



Custom harness connectorization service is available - see page 3.

Other connectors are available. Call for details.



# Wireway & Electrical



Metal wireway & accessories - elbows, tees, connectors, etc.	33	Flexible conduit & fittings	44
Hinged metal wireway	39	Liquid-tight flexible conduit & fittings	45
Electrical Metallic Tubing (EMT) & fittings	41	Threaded fittings for rigid pipe	46
EMT conduit bodies & EMT-to-Flex couplings	43	Electrical boxes	47
		Junction boxes & knockout punches/plugs	49

# Metal Wireway

UL 870 AND CSA C22.2 NO. 26, MEETS ELEVATOR INDUSTRY STANDARDS

GALVANIZED STEEL WIREWAY				LIFETIME WARRANTY	UL us
Part Number	Dimension A inches	Dimension B inches	Dimension C inches		
ELTGTR0250251200	2-1/2	2-1/2	120		
ELTGTR0250401200	2-1/2	4	120		
ELTGTR0250601200	2-1/2	6	120		
ELTGTR0250801200	2-1/2	8	120		
ELTGTR0400401200	4	4	120		
ELTGTR0400601200	4	6	120		
ELTGTR0400801200	4	8	120		
ELTGTR0600601200	6	6	120		
ELTGTR0800801200	8	8	120		

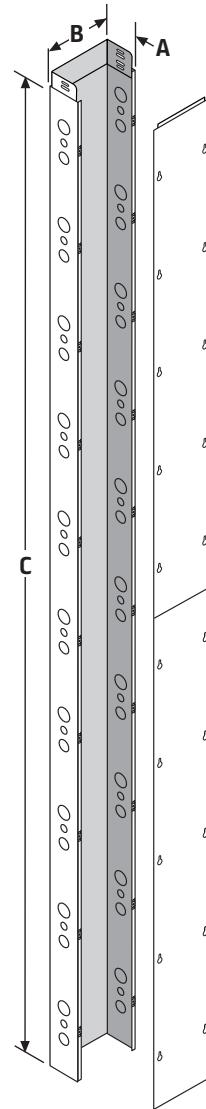
Wireway comes with two five-foot covers, #10-5/16 hexhead screws, screw protection and spot-welded coupling on one end.

Special size wireway and wireway without knockouts are available with short lead times. Call Draka EHC at 1877 372 5237 for further information.

Tolerances: Inside dimensions from 0 to + 1/16 in.;  
joints, corners and adjoining edges to + 1/32 in.;  
screw and hole placement to + 1/32 in.

Materials: Hot-dipped, mill-galvanized steel

General: Uniform knockouts 1/2 in. and 3/4 in. every 12 in.  
EXCEPT FOR ELTGTR0250401200 which has knockouts  
1/2 in., 3/4 in. and 1 in. every 12 in.



## COVERS

Part Number	Description inches	Dimension B inches	Dimension C
ELTCU0250600	Cover	2-1/2	60
ELTCU0400600	Cover	4	60
ELTCU0600600	Cover	6	60
ELTCU0800600	Cover	8	60

## SCREWS

Part Number	Description Pitch x length inches	Size	Quantity
ELH59-020	Cover screw	#10-32 x 5/16	1

# Metal Wireway Accessories

## WIREWAY NUTS & BOLTS – USED TO ATTACH FITTINGS TO WIREWAY

Part Number	Description and Size inches	Standard Packaging
ELH26-006A	1/4 x 1/2 nut and round-headed machine screw	25
ELH26-006B	1/4 x 1/2 nut and round-headed machine screw	50
ELH26-006C	1/4 x 1/2 nut and round-headed machine screw	100
ELH50-042	1/4-20 x 1/2 serrated flange nut and bolt	50
ELH50-042A	1/4-20 x 1/2 serrated flange nut and bolt	75

ELH26-006A



ELH50-042



## PLASTIC U-CHANNEL EDGE PROTECTION

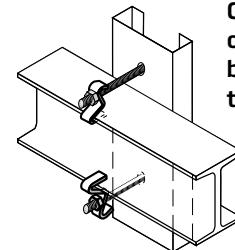
Part Number	Description
ELH19-003	Edge protection, plastic U-channel, available in 100 ft. rolls



## WIREWAY MOUNTING BRACKET KIT USED TO ATTACH WIREWAY TO I-BEAMS

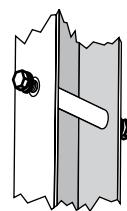
Part Number	Description	Quantity
TR-MTG-KIT	Bracket, with 5 in. mounting bolt, nut and two washers	1

Can be mounted on the top or bottom of the beam



## STRAIN BARS

Part Number	For wireway width inches
ELHSTB 25	2-1/2
ELHSTB 4	4
ELHSTB 6	6
ELHSTB 8	8



The NEC requires supports (strain bars) to be used every 100 ft. in wireway.

Don't forget to order edge protection (ELH19-003).

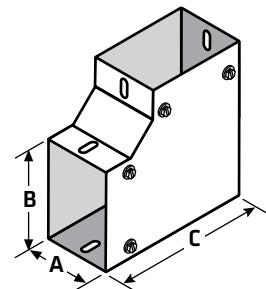
# Metal Wireway Fittings

UL 870 AND CSA C22.2 NO. 26

## 90° ELBOWS/TYPE C

LIFETIME WARRANTY 

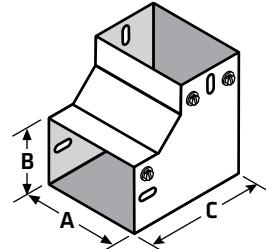
Part Number	Dimension A inches	Dimension B inches	Dimension C inches	For use with Wireway P/N
ELTL90025025	2-1/2	2-1/2	6-1/4	ELTGTR0250251200
ELTL90025040	2-1/2	4	7-3/4	ELTGTR0250401200
ELTL90025060	2-1/2	6	9-3/4	ELTGTR0250601200
ELTL90025080	2-1/2	8	11-3/4	ELTGTR0250801200
ELTL90040040	4	4	7-3/4	ELTGTR0400401200
ELTL90040060	4	6	9-3/4	ELTGTR0400601200
ELTL90040080	4	8	11-3/4	ELTGTR0400801200
ELTL90060060	6	6	9-3/4	ELTGTR0600601200
ELTL90080080	8	8	11-3/4	ELTGTR0800801200



## 90° ELBOWS/TYPE D

LIFETIME WARRANTY 

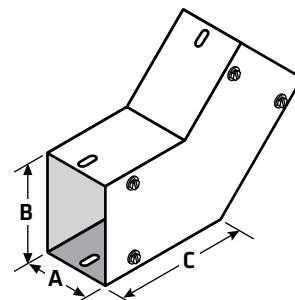
Part Number	Dimension A inches	Dimension B inches	Dimension C inches	For use with Wireway P/N
ELTL90040025	4	2-1/2	6-1/4	ELTGTR0250401200
ELTL90060025	6	2-1/2	6-1/4	ELTGTR0250601200
ELTL90080025	8	2-1/2	6-1/4	ELTGTR0250801200
ELTL90060040	6	4	7-3/4	ELTGTR0400601200
ELTL90080040	8	4	7-3/4	ELTGTR0400801200



## 45° ELBOWS/TYPE C

LIFETIME WARRANTY 

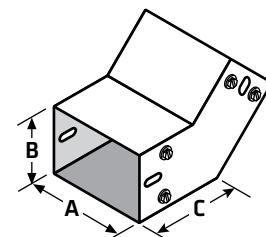
Part Number	Dimension A inches	Dimension B inches	Dimension C inches	For use with Wireway P/N
ELTL45025025	2-1/2	2-1/2	4-9/16	ELTGTR0250251200
ELTL45025040	2-1/2	4	5-1/4	ELTGTR0250401200
ELTL45025060	2-1/2	6	6	ELTGTR0250601200
UL45 258CSA	2-1/2	8	6-1/2	ELTGTR0250801200
ELTL45040040	4	4	5-1/4	ELTGTR0400401200
ELTL45040060	4	6	6	ELTGTR0400601200
UL45 48CSA	4	8	6-1/2	ELTGTR0400801200
ELTL45060060	6	6	6	ELTGTR0600601200
ELTL45080080	8	8	6-1/2	ELTGTR0800801200



## 45° ELBOWS/TYPE D

LIFETIME WARRANTY 

Part Number	Dimension A inches	Dimension B inches	Dimension C inches	For use with Wireway P/N
ELTL45040025	4	2-1/2	4-9/16	ELTGTR0250401200
ELTL45060025	6	2-1/2	4-9/16	ELTGTR0250601200
ELTL45080025	8	2-1/2	4-9/16	ELTGTR0250801200
ELTL45060040	6	4	5-1/4	ELTGTR0400601200
ELTL45080040	8	4	5-1/4	ELTGTR0400801200



Elbows come with #10-5/16 hexhead screws & screw protection.

Special size wireway and wireway without knockouts are available with short lead times.  
Call Draka EHC at 1 877 372 5237 for further information.

Tolerances: Inside dimensions from 0 to + 1/16 in.;  
joints, corners and adjoining edges to + 1/32 in.;  
screw and hole placement to + 1/32 in.;

Materials: Hot-dipped, mill-galvanized steel

General: Connector slots 3/4 x 1/4 in.

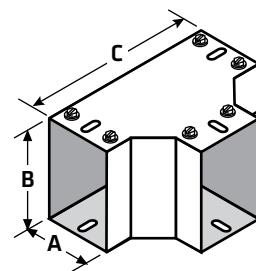
# Metal Wireway Fittings

UL 870 AND CSA C22.2 NO. 26

## TEES/TYPE C

LIFETIME WARRANTY 

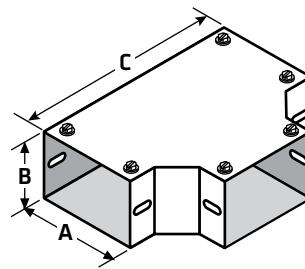
Part Number	Dimension A inches	Dimension B inches	Dimension C inches	For use with Wireway P/N
ELTT025025	2-1/2	2-1/2	9-7/8	ELTGTR0250251200
ELTT025040	2-1/2	4	9-7/8	ELTGTR0250401200
ELTT025060	2-1/2	6	9-7/8	ELTGTR0250601200
ELTT025080	2-1/2	8	9-7/8	ELTGTR0250801200
ELTT040040	4	4	11-3/8	ELTGTR0400401200
ELTT040060	4	6	11-3/8	ELTGTR0400601200
ELTT040080	4	8	11-3/8	ELTGTR0400801200
ELTT060060	6	6	13-3/8	ELTGTR0600601200
ELTT080080	8	8	15-3/8	ELTGTR0800801200



## TEES/TYPE D

LIFETIME WARRANTY 

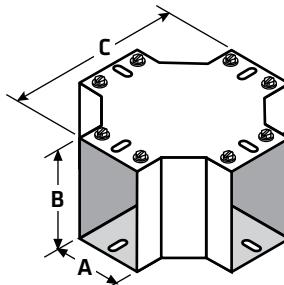
Part Number	Dimension A inches	Dimension B inches	Dimension C inches	For use with Wireway P/N
ELTT040025	4	2-1/2	11-3/8	ELTGTR0250401200
ELTT060025	6	2-1/2	13-3/8	ELTGTR0250601200
ELTT080025	8	2-1/2	15-3/8	ELTGTR0250801200
ELTT060040	6	4	13-3/8	ELTGTR0400601200
ELTT080040	8	4	15-3/8	ELTGTR0400801200



## CROSSES/TYPE C

LIFETIME WARRANTY 

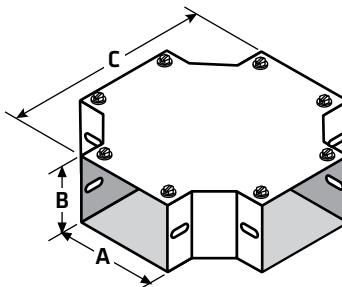
Part Number	Dimension A inches	Dimension B inches	Dimension C inches	For use with Wireway P/N
ELTCRS025025	2-1/2	2-1/2	9-7/8	ELTGTR0250251200
ELTCRS254CSA	2-1/2	4	9-7/8	ELTGTR0250401200
ELTCRS025060	2-1/2	6	9-7/8	ELTGTR0250601200
ELTCRS025080	2-1/2	8	9-7/8	ELTGTR0250801200
ELTCRS040040	4	4	11-3/8	ELTGTR0400401200
ELTCRS040060	4	6	11-3/8	ELTGTR0400601200
UCRS 48CSA	4	8	11-3/8	ELTGTR0400801200
ELTCRS060060	6	6	13-3/8	ELTGTR0600601200
ELTCRS080080	8	8	15-3/8	ELTGTR0800801200



## CROSSES/TYPE D

LIFETIME WARRANTY 

Part Number	Dimension A inches	Dimension B inches	Dimension C inches	For use with Wireway P/N
ELTCRS040025	4	2-1/2	11-3/8	ELTGTR0250401200
ELTCRS060025	6	2-1/2	13-3/8	ELTGTR0250601200
ELTCRS080025	8	2-1/2	15-3/8	ELTGTR0250801200
ELTCRS060040	6	4	13-3/8	ELTGTR0400601200
UCRS 84CSA	8	4	15-3/8	ELTGTR0400801200



Tees and crossovers come with #10-5/16 hexhead screws and screw protection.

Special size wireway and wireway without knockouts are available with short lead times. Call Draka EHC at 1877 372 5237 for further information.

Tolerances: Inside dimensions from 0 to + 1/16 in.;  
joints, corners and adjoining edges to + 1/32 in.;  
screw and hole placement to + 1/32 in.

Materials: Hot-dipped, mill-galvanized steel

General: Connector slots 3/4 x 1/4 in.

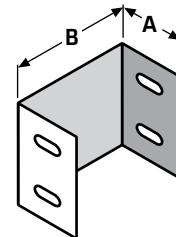
# Metal Wireway Fittings

UL 870 AND CSA C22.2 NO. 26

## COUPLINGS

LIFETIME WARRANTY 

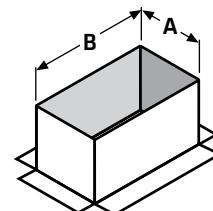
Part Number	Dimension A inches	Dimension B inches
ELTCNO25025	2-1/8	2-7/16
ELTCNO25040	2-1/8	3-15/16
ELTCNO25060	2-1/8	5-15/16
ELTCNO25080	2-1/8	7-15/16
ELTCNO40040	3-5/8	3-15/16
ELTCNO40060	3-5/8	5-15/16
ELTCNO40080	3-5/8	7-15/16
ELTCNO60060	5-5/8	5-15/16
ELTCNO80080	7-5/8	7-15/16



## PANEL CONNECTORS

LIFETIME WARRANTY 

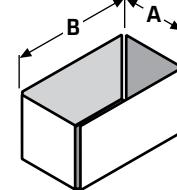
Part Number	Dimension A inches	Dimension B inches
ELTPCN025025	2-1/8	2-7/16
ELTPCN025040	2-1/8	3-15/16
ELTPCN025060	2-1/8	5-15/16
ELTPCN025080	2-1/8	7-15/16
ELTPCN040040	3-5/8	3-15/16
ELTPCN040060	3-5/8	5-15/16
ELTPCN040080	3-5/8	7-15/16
ELTPCN060060	5-5/8	5-15/16
ELTPCN080080	7-5/8	7-15/16



## END PLATES

LIFETIME WARRANTY 

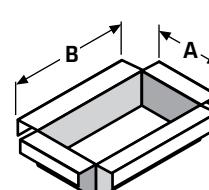
Part Number	Dimension A inches	Dimension B inches
ELTEPT025025	2-1/8	2-7/16
ELTEPT025040	2-1/8	3-15/16
ELTEPT025060	2-1/8	5-15/16
ELTEPT025080	2-1/8	7-15/16
ELTEPT040040	3-5/8	3-15/16
ELTEPT040060	3-5/8	5-15/16
ELTEPT040080	3-5/8	7-15/16
ELTEPT060060	5-5/8	5-15/16
ELTEPT080080	7-5/8	7-15/16



## INSULATED BUSHINGS

LIFETIME WARRANTY 

Part Number	Dimension A inches	Dimension B inches
ELTISB025025	2-1/8	2-7/16
ELTISB025040	2-1/8	3-15/16
ELTISB025060	2-1/8	5-15/16
ELTISB025080	2-1/8	7-15/16
ELTISB040040	3-5/8	3-15/16
ELTISB040060	3-5/8	5-15/16
ELTISB040080	3-5/8	7-15/16
ELTISB060060	5-5/8	5-15/16
ELTISB080080	7-5/8	7-15/16



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

Call Draka EHC at 1 877 372 5237 for further information.

See next page for tolerances and materials.

# Metal Wireway Fittings

UL 870 AND CSA C22.2 NO. 26

## REDUCERS

LIFETIME  
WARRANTY

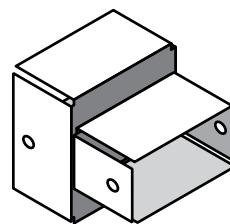


Part Number	Adapts from this size... inches	...to this size inches
ELTRED025040025025	2-1/2 x 4	2-1/2 x 2-1/2
ELTRED025040025060	2-1/2 x 4	2-1/2 x 6
ELTRED025060060060	2-1/2 x 6	6 x 6
ELTRED025080040040	2-1/2 x 8	4 x 4
ELTRED025080080080	2-1/2 x 8	8 x 8
ELTRED040040025025	4 x 4	2-1/2 x 2-1/2
ELTRED040040025040	4 x 4	2-1/2 x 4
ELTRED040040025060	4 x 4	2-1/2 x 6
ELTRED040040040060	4 x 4	4 x 6
URED 4448CSA	4 x 4	4 x 8
ELTRED040060025040	4 x 6	2-1/2 x 4
ELTRED040080025040	4 x 8	2-1/2 x 4
URED 48256CSA	4 x 8	2-1/2 X 6
ELTRED060060040040	6 x 6	4 x 4
ELTRED060060060040	6 x 6	6 x 4
ELTRED080080040040	8 x 8	4 x 4
ELTRED080080040080	8 x 8	4 x 8
ELTRED080080060060	8 x 8	6 x 6

Special size wireway and wireway without knockouts are available with short lead times.  
Call Draka EHC at 1877 372 5237 for further information.

Tolerances: Inside dimensions from 0 to + 1/16 in.;  
joints, corners and adjoining edges to + 1/32 in.;  
screw and hole placement to + 1/32 in.

Materials: Hot-dipped, mill-galvanized steel



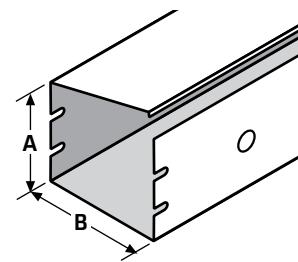
# Hinged Metal Wireway & Fittings

ETL CERTIFIED – STOCKED ONLY IN CANADA

## GALVANIZED HINGED WIREWAY



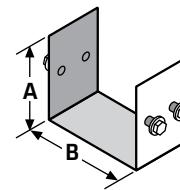
Part Number	Dimension A inches	Dimension B inches	Length inches
UGTR 252596CSACND	2-1/2	2-1/2	96
UGTR 4496CSACND	4	4	96
UGTR 6696CSACND	6	6	96



## COUPLINGS FOR HINGED WIREWAY



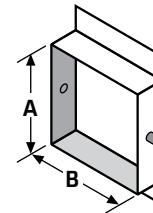
Part Number	Dimension A inches	Dimension B inches	For use with wireway part number
UCON 2525CSACND	2-1/2	2-1/2	UGTR 252596CSACND
UCON 44CSACND	4	4	UGTR 4496CSACND
UCON 66CSACND	6	6	UGTR 6696CSACND



## FLANGES FOR HINGED WIREWAY



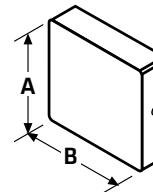
Part Number	Dimension A inches	Dimension B inches	For use with wireway part number
UPCN 2525CSACND	2-1/2	2-1/2	UGTR 252596CSACND
UPCN 44CSACND	4	4	UGTR 4496CSACND
UPCN 66CSACND	6	6	UGTR 6696CSACND



## END CAPS FOR HINGED WIREWAY



Part Number	Dimension A inches	Dimension B inches	For use with wireway part number
UEPT 2525CSACND	2-1/2	2-1/2	UGTR 252596CSACND
UEPT 44CSACND	4	4	UGTR 4496CSACND
UEPT 66CSACND	6	6	UGTR 6696CSACND



Special size wireway is available with short lead times.  
Call Draka EHC at 1 877 372 5237 for further information.

Material: Hot-dipped, mill-galvanized steel

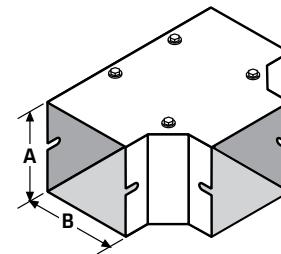
# Hinged Metal Wireway & Fittings

ETL CERTIFIED – STOCKED ONLY IN CANADA

## TEE FITTINGS FOR HINGED WIREWAY



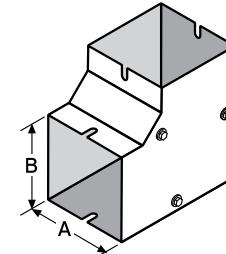
Part Number	Dimension A inches	Dimension B inches	For use with wireway part number
ELHUTEE 2525CSACND	2-1/2	2-1/2	UGTR 252596CSACND
ELHUTEE 44CSACND	4	4	UGTR 4496CSACND
ELHUTEE 66CSACND	6	6	UGTR 6696CSACND



## 90° ELBOWS FOR HINGED WIREWAY - TYPE C



Part Number	Dimension A inches	Dimension B inches	For use with wireway part number
ELHUL90 2525CSACND	2-1/2	2-1/2	UGTR 252596CSACND
ELHUL90 44CSACND	4	4	UGTR 4496CSACND
ELHUL90 66CSACND	6	6	UGTR 6696CSACND



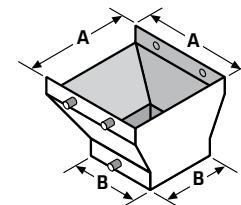
## REDUCERS FOR HINGED WIREWAY



Part Number	Dimension A inches	Dimension B inches
ELHURED442525CSCND	4 x 4	2-1/2 x 2-1/2
ELHURED 6644CSACND	6 x 6	4 x 4

Special size wireway is available with short lead times.  
Call Draka EHC at 1877 372 5237 for further information.

Material: Hot-dipped, mill-galvanized steel



# Electrical Metallic Tubing (EMT) & Fittings

UL LISTED, CSA CERTIFIED AS NOTED

## EMT – LIGHTWEIGHT, THIN WALL

Part Number	Trade Sizes	Please Specify Quantity
ELH01-001	1/2 in. x 10 ft	
ELH01-002	3/4 in. x 10 ft	
ELH01-003	1 in. x 10 ft	
ELH01-004	1-1/4 in. x 10 ft	
ELH01-005	1-1/2 in. x 10 ft	
ELH01-006	2 in. x 10 ft	
ELH01-007	2-1/2 in. x 10 ft	



## 90° ELBOWS

Part Number	Trade Sizes	Please Specify Quantity
ELH02-005	1/2	
ELH02-006	3/4	
ELH02-001	1	
ELH02-002	1-1/4	
ELH02-003	1-1/2	
ELH02-004	2	
ELH02-010	2-1/2	



## STEEL ONE-HOLE STRAPS

Part Number	Trade Sizes	Please Specify Quantity
ELH05-000†	3/8	
ELH05-001	1/2	
ELH05-002	3/4	
ELH05-003	1	
ELH05-004	1-1/4	
ELH05-005	1-1/2	
ELH05-006	2	
ELH05-014	2-1/2	



## STEEL HANGERS WITH BOLTS

Part Number	Trade Sizes	Please Specify Quantity
ELH78-053	1/2	
ELH78-078	3/4	
ELH78-054	1	
ELH78-080	1-1/4	
ELH78-055	1-1/2	
ELH78-079	2	



## DIE-CAST CHASE NIPPLES

Part Number	Trade Sizes	Please Specify Quantity
ELH06-001	1/2	
ELH06-002	3/4	
ELH06-005	1	
ELH06-009	1-1/4	
ELH06-010	1-1/2	
ELH06-003	2	
ELH06-011	2-1/2	



## STEEL LOCK NUTS

Part Number	Trade Sizes	Please Specify Quantity
ELH07-001	1/2	
ELH07-002	3/4	
ELH07-005	1	
ELH07-006	1-1/4	
ELH07-004	1-1/2	
ELH07-003	2	
ELH07-007	2-1/2	



## THREADED INSULATED BUSHINGS

Part Number	Trade Sizes	Please Specify Quantity
ELH27-006	1/2	
ELH27-007	3/4	
ELH27-005	1	
ELH27-002	1-1/4	
ELH27-003	1-1/2	
ELH27-004	2	
ELH27-022	2-1/2	



## STEEL REDUCING WASHERS

Part Number	Trade Sizes	Please Specify Quantity
ELH45-001	3/4 - 1/2	
ELH45-002	1 - 1/2	
ELH45-009	1 - 3/4	
ELH45-014	1-1/4 - 1/2	
ELH45-024	1-1/4 - 3/4	
ELH45-008	1-1/4 - 1	
ELH45-010	1-1/2 - 1	
ELH45-003	1-1/2 - 1-1/4	
ELH45-004	2 - 1-1/4	
ELH45-005	2 - 1-1/2	
ELH45-038	2-1/2 - 1	
ELH45-012	2-1/2 - 2	



EMT / conduit benders can be found on page 101.



# Electrical Metallic Tubing (EMT) Fittings

UL LISTED, CSA CERTIFIED

## DIE-CAST COMPRESSION CONNECTORS

c  us

Part Number	Trade Sizes	Please Specify Quantity
ELH08-001	1/2	
ELH08-002	3/4	
ELH08-003	1	
ELH08-004	1-1/4	
ELH08-005	1-1/2	
ELH08-006	2	
ELH08-007	2-1/2	



## STEEL COMPRESSION CONNECTORS

c  us

Part Number	Trade Sizes	Please Specify Quantity
ELH69-004	1/2	
ELH69-005	3/4	
ELH69-006	1	
ELH69-007	1-1/4	
ELH69-008	1-1/2	
ELH69-009	2	
ELH69-003	2-1/2	



## DIE-CAST SET SCREW CONNECTORS

c  us

Part Number	Trade Sizes	Please Specify Quantity
ELH08-021	1/2	
ELH08-022	3/4	
ELH08-023	1	
ELH08-024	1-1/4	
ELH08-025	1-1/2	
ELH08-026	2	
ELH08-027	2-1/2	



## STEEL SET SCREW CONNECTORS

c  us

Part Number	Trade Sizes	Please Specify Quantity
ELH69-010	1/2	
ELH69-011	3/4	
ELH69-012	1	
ELH69-013	1-1/4	
ELH69-014	1-1/2	
ELH69-015	2	
ELH69-070	2-1/2	



## DIE-CAST COMPRESSION COUPLINGS

c  us

Part Number	Trade Sizes	Please Specify Quantity
ELH09-001	1/2	
ELH09-002	3/4	
ELH09-003	1	
ELH09-004	1-1/4	
ELH09-005	1-1/2	
ELH09-006	2	
ELH09-013	2-1/2	



## STEEL COMPRESSION COUPLINGS

c  us

Part Number	Trade Sizes	Please Specify Quantity
ELH69-016	1/2	
ELH69-017	3/4	
ELH69-018	1	
ELH69-019	1-1/4	
ELH69-020	1-1/2	
ELH69-021	2	
ELH69-075	2-1/2	



## DIE-CAST SET SCREW CONNECTORS

c  us

Part Number	Trade Sizes	Please Specify Quantity
ELH09-027	1/2	
ELH09-028	3/4	
ELH09-029	1	
ELH09-030	1-1/4	
ELH09-031	1-1/2	
ELH09-032	2	
ELH09-033	2-1/2	



## DIE-CAST SET SCREW CONNECTORS

c  us

Part Number	Trade Sizes	Please Specify Quantity
ELH69-022	1/2	
ELH69-023	3/4	
ELH69-024	1	
ELH69-025	1-1/4	
ELH69-026	1-1/2	
ELH69-027	2	
69-105	2-1/2	



# EMT Conduit Bodies & EMT-to-Flex Couplings

UL LISTED, CSA CERTIFIED

## TYPE LB / SET SCREW (COVER SEPARATE)



Part Number	Trade Sizes	Please Specify Quantity
ELH30-011	1/2	
ELH30-012	3/4	
ELH30-013	1	
ELH30-014	1-1/4	
ELH30-015	1-1/2	
ELH30-021	2	
ELH30-023 <sup>†</sup>	2-1/2	



<sup>†</sup>ELH30-023 comes with cover

## TYPE LR / SET SCREW (COVER SEPARATE)



Part Number	Trade Sizes	Please Specify Quantity
ELH30-030	1/2	
ELH30-031	3/4	
ELH30-032	1	
ELH30-033	1-1/4	
ELH30-034	1-1/2	
ELH30-035	2	
ELH30-116 <sup>†</sup>	2-1/2	



<sup>†</sup>ELH30-116 comes with cover

## TYPE LL / SET SCREW (COVER SEPARATE)



Part Number	Trade Sizes	Please Specify Quantity
ELH30-040	1/2	
ELH30-041	3/4	
ELH30-042	1	
ELH30-043	1-1/4	
ELH30-044	1-1/2	
ELH30-045	2	
3ELH0-054 <sup>†</sup>	2-1/2	



<sup>†</sup>ELH30-054 comes with cover

## COVERS FOR CONDUIT BODIES ABOVE



Part Number	Trade Sizes	Please Specify Quantity
ELH30-017	1/2	
ELH30-018	3/4	
ELH30-019	1	
ELH30-020	1-1/4 to 1-1/2	
ELH30-022	2	



## EMT-TO-FLEX COMPRESSION COUPLINGS - MALLEABLE IRON



Part Number	Trade Sizes	Please Specify Quantity
ELH69-049	1/2 EMT to 3/8 flex	
ELH69-048	1/2 EMT to 1/2 flex	
ELH69-050	3/4 EMT to 3/4 flex	
ELH12-004	1 EMT to 1 flex	
ELH12-006	1-1/4 EMT to 1-1/4 flex	
1ELH2-007	1-1/2 EMT to 1-1/2 flex	
ELH12-005	2 EMT to 2 flex	
12-107	2-1/2 EMT to 2-1/2 flex	



Wireway &  
Electrical

## EMT-TO-FLEX COMPRESSION COUPLINGS - MALLEABLE IRON



Part Number	Trade Sizes	Please Specify Quantity
ELH12-001	1/2 EMT to 3/8 flex	
ELH12-002	1/2 EMT to 1/2 flex	
ELH12-003	3/4 EMT to 3/4 flex	
ELH12-016	1 EMT to 1 flex	



## EMT-TO-FLEX COMPRESSION COUPLINGS - MALLEABLE IRON



Part Number	Trade Sizes	Please Specify Quantity
ELH12-012	1/2 EMT to flex	
ELH12-013	3/4 EMT to flex	



# Flexible Conduit & Fittings

UL LISTED, CSA CERTIFIED AS NOTED

## THIN-WALL STEEL CONDUIT<sup>†</sup>



Part Number	Trade Sizes	Please Specify Length
ELH03-001	3/8	
ELH03-002	1/2	
ELH03-003	3/4	
ELH03-004	1	
ELH03-005	1-1/4	
ELH03-006	1-1/2	
ELH03-007	2	
ELH03-009	2-1/2	



<sup>†</sup>Available in full reels or cut-to-length

## THIN-WALL ALUMINUM CONDUIT<sup>†</sup>



Part Number	Trade Sizes	Please Specify Length
ELH03-030	3/8	
ELH03-029	1/2	
ELH03-036	3/4	
ELH03-031A	1	
ELH03-043	1-1/4	
ELH03-041	1-1/2	
ELH03-057	2	



<sup>†</sup>Available in full reels or cut-to-length

## DIE-CAST 90° SQUEEZE-TYPE FLEX BOX CONNECTORS

Part Number	Trade Sizes	Please Specify Quantity
ELH11-001	3/8	
ELH11-002	1/2	
ELH11-003	3/4	
ELH11-004	1	
ELH11-005	1-1/4	
ELH11-006	1-1/2	
ELH11-008	2	
ELH11-040	2-1/2	



## DIE-CAST STRAIGHT SQUEEZE-TYPE FLEX BOX CONNECTORS

Part Number	Trade Sizes	Please Specify Quantity
ELH10-001	3/8	
ELH10-002	1/2	
ELH10-003	3/4	
ELH10-004	1	
ELH10-005	1-1/4	
ELH10-006	1-1/2	
ELH10-010	2	
ELH10-040	2-1/2	



#36-216 Roto-Flex cutter for flexible conduit - see page 100 for details.



## DIE-CAST 45° SQUEEZE-TYPE FLEX BOX CONNECTORS



Part Number	Trade Sizes	Please Specify Quantity
ELH11-034	3/8	
ELH11-035	1/2	
ELH11-036	3/4	



## MALLEABLE IRON 90° SQUEEZE-TYPE FLEX BOX CONNECTORS



Part Number	Trade Sizes	Please Specify Quantity
ELH69-028	3/8	
ELH69-029	1/2	
ELH69-030	3/4	
ELH69-031	1	
ELH69-032	1-1/4	
ELH69-033	1-1/2	
ELH69-034	2	
ELH69-061	2-1/2	



## MALLEABLE IRON STRAIGHT SQUEEZE-TYPE FLEX BOX CONNECTORS



Part Number	Trade Sizes	Please Specify Quantity
ELH69-035	3/8	
ELH69-036	1/2	
ELH69-037	3/4	
ELH69-038	1	
ELH69-039	1-1/4	
ELH69-040	1-1/2	
ELH69-041	2	
ELH69-042	2-1/2	



## SCREW-IN CONNECTORS FOR FLEX



Part Number	Trade Sizes	Please Specify Quantity
ELH10-021	1/2	
ELH10-022	3/4	
ELH10-023	1	
ELH10-035	1-1/4	
ELH10-029	1-1/2	
ELH10-036	2	
ELH11-045	90° 'Jake L' for 1/2	
ELH11-046	90° 'Jake L' for 3/4	
ELH11-064	90° 'Jake L' for 1	



## SCREW-IN COUPLINGS FOR FLEX



Part Number	Trade Sizes	Please Specify Quantity
ELH12-101	1/2	
ELH12-102	3/4	
ELH12-100	1	



# Liquid-tight Flexible Conduit & Fittings

UL LISTED, CSA CERTIFIED – ALL ITEMS ARE NOT IN STOCK / SPECIAL ORDER

## LIQUID-TIGHT FLEXIBLE STEEL CONDUIT<sup>†</sup>



Part Number	Trade Sizes	Please Specify Length
ELH03-032	3/8	
ELH03-012	1/2	
ELH03-013	3/4	
ELH03-014	1	
ELH03-015	1-1/4	
ELH03-016	1-1/2	



<sup>†</sup>Available in full reels or cut-to-length

## LIQUID-TIGHT DIE-CAST STRAIGHT ZINC CONNECTORS



Part Number	Trade Sizes	Please Specify Quantity
ELH10-017	3/8	
ELH10-011	1/2	
ELH10-015	3/4	
ELH10-013	1	
ELH10-012	1-1/4	
ELH10-099	1-1/2	



## LIQUID-TIGHT DIE-CAST 90° ZINC CONNECTORS



Part Number	Trade Sizes	Please Specify Quantity
ELH11-052	3/8	
ELH11-009	1/2	
ELH11-013	3/4	
ELH11-011	1	
ELH11-012	1-1/4	
ELH11-015	1-1/2	



# Threaded Fittings for Rigid Pipe

UL LISTED, CSA CERTIFIED AS NOTED

## LB CONDUIT BODIES



Part Number	Trade Sizes	Please Specify Quantity
ELH30-052	1/2, includes cover & gasket	
ELH30-058	3/4, includes cover & gasket	
ELH30-053	1, includes cover & gasket	
ELH30-065	1-1/4, includes cover & gasket	
ELH30-066	1-1/2, includes cover & gasket	
ELH30-046	2, includes cover & gasket	
ELH30-051	2-1/2, includes cover & gasket	



## LR CONDUIT BODIES



Part Number	Trade Sizes	Please Specify Quantity
ELH30-061	1/2, includes cover & gasket	
ELH30-049	3/4, includes cover & gasket	
ELH30-113	1, includes cover & gasket	
ELH30-084	1-1/4, includes cover & gasket	
ELH30-088	1-1/2, includes cover & gasket	
ELH30-080	2, includes cover & gasket	
ELH30-116	2-1/2, includes cover & gasket	



## LL CONDUIT BODIES



Part Number	Trade Sizes	Please Specify Quantity
ELH30-056	1/2, includes cover & gasket	
ELH30-086	3/4, includes cover & gasket	
ELH30-114	1, includes cover & gasket	
ELH30-083	1-1/4, includes cover & gasket	
ELH30-087	1-1/2, includes cover & gasket	
ELH30-079	2, includes cover & gasket	
ELH30-054	2-1/2, includes cover & gasket	



## TEE CONDUIT BODIES



Part Number	Trade Sizes	Please Specify Quantity
ELH30-106	1/2, includes cover & gasket	
ELH30-107	3/4, includes cover & gasket	
ELH30-115	1, includes cover & gasket	
ELH31-044	1-1/4, includes cover & gasket	
ELH30-105	1-1/2, includes cover & gasket	
ELH30-108	2, includes cover & gasket	



## THREADED COUPLINGS



Part Number	Trade Sizes	Please Specify Quantity
ELH09-041	1/2	
ELH09-042	3/4	
ELH09-052	1	
ELH09-045	1-1/4	
ELH09-046	1-1/2	
ELH09-043	2	
ELH09-044	2-1/2	



Other threaded items available with short lead times.

# Electrical Boxes

UL LISTED

## 4" SQUARE '1900' BOXES 1-1/2" DEEP - TYPE 52151



Part Number	K/O Trade Sizes	Please Specify Quantity
ELH04-020	1/2	
ELH04-021	3/4	
ELH04-022	1/2 & 3/4	



## 4" X 2-1/8" UTILITY 'HANDY' BOXES 1-7/8" DEEP - TYPE 58361



Part Number	K/O Trade Sizes	Please Specify Quantity
ELH04-026	1/2	
ELH04-027	3/4	



## 4" SQUARE '1900' BOXES 2-1/8" DEEP - TYPE 52171



Part Number	K/O Trade Sizes	Please Specify Quantity
ELH04-024	1/2 & 3/4	
ELH04-025	1	



## 4" X 2-1/8" UTILITY 'HANDY' BOXES 2-1/8" DEEP - TYPE 58371



Part Number	K/O Trade Sizes	Please Specify Quantity
ELH04-028	1/2	
ELH04-029	3/4	



## 4-11/16" SQUARE BOXES 2-1/8" DEEP - TYPE 72171



Part Number	K/O Trade Sizes	Please Specify Quantity
ELH04-041	1/2 & 3/4	



## 4" OCTAGONAL BOXES 1-1/2" DEEP - TYPE 54151



Part Number	K/O Trade Sizes	Please Specify Quantity
ELH42-012	1/2	
ELH42-011	3/4	



## 4" SQUARE '1900' BOXES 1-1/2" DEEP - TYPE 52151



Part Number	K/O Trade Sizes	Please Specify Quantity
ELH42-008	1	



# Box Covers, Plates & Fixtures

UL LISTED, CSA CERTIFIED

## 4" SQUARE BOX COVER

 cUL us

Part Number	Fits these Part Numbers	Please Specify Quantity
ELH04-030	ELH04-020	
	ELH04-021	
	ELH04-022	
	ELH04-024	
	ELH04-025	



## 4" X 2-1/8" BOX COVER

 cUL us

Part Number	Fits these Part Numbers	Please Specify Quantity
ELH04-037	ELH04-026	
	ELH04-027	
	ELH04-028	
	ELH04-029	



## 4" X 2-1/8" OUTLET COVER

 cUL us

Part Number	Fits these Part Numbers	Please Specify Quantity
ELH04-038	ELH04-026	
	ELH04-027	
	ELH04-028	
	ELH04-029	



## GFCI OUTLET

 cUL us

Part Number	Description	Please Specify Quantity
ELH37-178	GFCI with cover 125VAC, 15A	



## 4-11/16" SQUARE BOX COVER

 cUL us

Part Number	Fits these Part Numbers	Please Specify Quantity
ELH04-040	ELH04-041	



## 4" X 4" OCTAGONAL BOX COVER

 cUL us

Part Number	Fits these Part Numbers	Please Specify Quantity
ELH42-013	ELH42-008	
	ELH42-011	
	ELH42-012	



## 4" X 2-1/8" SWITCH COVER

 cUL us

Part Number	Fits these Part Numbers	Please Specify Quantity
ELH04-039	ELH04-026	
	ELH04-027	
	ELH04-028	
	ELH04-029	



# Junction Boxes & Knockout Punches/Plugs

UL LISTED, CSA CERTIFIED AS NOTED

## JUNCTION BOXES - FULLY ASSEMBLED WITH COVER & TERMINALS

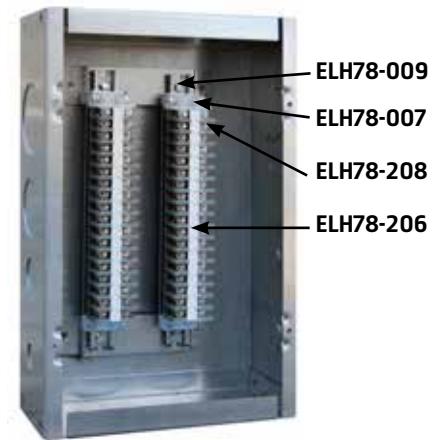
Part Number	H x W inches	Depth and Capacity inches • wire count
ELT43-036-A	13-3/4 x 8-1/2	3-1/4 • 36 terminals, 72 wires
ELT43-072-A	24 x 8-1/2	3-1/4 • 72 terminals, 144 wires
ELT43-108-A	36 x 8-1/2	3-1/4 • 108 terminals, 216 wires

Junction boxes have knockouts on top, bottom and sides.

Top/bottom knockouts are 2 and 1-1/2 in.

Sides are 2, 1-1/2, 3/4 and 1/2 in.

Photo shows box with components that may also be ordered separately



## JUNCTION BOX COMPONENTS



Part Number	Description
ELH78-206	Tubular terminal clamps (Buchanan 0925) for wire sizes 22 to 10 AWG
78-007	Channel clamps (Buchanan 61)
ELH78-208	End section (Buchanan 0930)
78-009*	Zinc-plated track (Buchanan 60)

\*78-009 is not UL listed/CSA certified.



## SCREW-COVER BOXES - WITH COVER AND KNOCKOUTS



Part Number	H x W inches	Depth inches	K/O Pattern
ELH42-007	4 x 4	4	A
ELH42-006	6 x 6	4	B
ELH42-054	8 x 8	4	B
ELH42-025	10 x 10	4	B
ELH42-051	12 x 12	4	C
ELH42-022	18 x 18	4	D
ELH42-021	24 x 24	4	D
ELH42-055	8 x 8	6	B



Pattern A  
1 1/8" 1/2 - 3 1/4"

Pattern B  
1 1/16" 1 1/8" 1/2 - 3 1/4" and 3/4 - 1"

Pattern C  
1 1/16" 1 1/8" 1/2 - 3 1/4" and 3/4 - 1"

Pattern D  
1 1/16" 1 1/8" 1/2 - 3 1/4" and 3/4 - 1"

## METAL KNOCKOUT PLUG

Part Number	Size inches
ELH19-021	1/2
ELH19-026	3/4
ELH19-027	1
ELH19-028	1-1/4
ELH19-029	1-1/2
ELH19-030	2





# Wire Rope, Compensation Cable & Accessories



## Wire rope ordering information

### Gustav Wolf wire rope selection guide

Imperial diameters

Metric diameters

With electrical conductors

### IPH wire rope selection guide

Imperial diameters

Metric diameters

### Brugg Lifting wire rope selection guide

Imperial diameters

Metric diameters

### Wedge sockets, isolation bushings, wedges clips & pulling grips

### Wire rope splices, bands, clips & grips

51	Selector / doorway relating cable	72
53	ERB rope brake	73
54	Rope tensioning systems	74
56	Load weighing device control units & individual sensors	75
58	Load weighing devices & displays	76
59	Acculube™ automatic lubricators &	78
60	DrakaLube® lubricant	78
63	Whisper-Flex® compensation cable	79
65	Steady-Flex® compensation cable	80
66	Whisper-Flex & Steady-Flex installation kits	81
68	Damping devices	83
71	Pull Out Switch Kit (POSK)	85

# Wire Rope Ordering Information

## IMPORTANT NOTE:

### NEW WIRE ROPES & EXISTING SHEAVES

**IT IS STRONGLY RECOMMENDED** that the sheaves of existing elevators be carefully checked and re-grooved or replaced as necessary prior to rope replacement.

The diameter of the new ropes is greater than that of the old ropes and failure to bring the sheave grooves into the machine manufacturer's specified tolerances can lead to vibration, metal shavings and other problems.

### ORDERING HOIST ROPES

The information needed to order hoist ropes is the number (quantity), length and diameter of the ropes; the stranding, construction and lay; the grade or tensile strength; and the breaking force (load or strength). While this information may be provided on the wire rope tag, it should be noted that the tag information may not always be accurate; it is not uncommon to find that the wrong tag has been applied. Use the following procedure for ordering hoist ropes for a traction elevator:

- 1) Count the number of ropes on the elevator.
- 2) Determine the length of each rope. The length can often be found on the installation layout.
- 3) Measure the diameter of the rope. If you don't have a measuring tool, the crosshead data plate on top of the car should show the diameter or the diameter may be stamped on the existing shackles.
- 4) Determine the stranding and construction of the rope. Stranding is the number of strands per rope and the number of wires per strand (e.g. an 8-strand rope with 19 wires per strand has 8 x 19 stranding). Determine whether the rope has 6, 8 or 9 strands by looking at the shackles where the stranding is more easily seen. The rope construction (Seale, Warrington, Filler Wire, etc.) can be found by matching up the rope cross-section with the cross-sections shown in this catalog.
- 5) Determine the lay of the rope. Compare a Right Regular lay rope to a Right Lang lay rope:

Right Regular



Right Lang



Note that the orientation of the individual wires is parallel to the centerline in a Right Regular lay rope. Right Regular lay is assumed if the lay is not indicated on your order.

6) Determine the grade or tensile strength of the rope. In North America, grades are commonly expressed as Iron, Traction or Extra High Strength Traction (EHST).

Iron rope is normally used for governor and compensation ropes.

Traction rope can be used for hoist, governor and compensation applications.

Extra High Strength Traction (EHST) rope is frequently specified for high-rise/high-speed hoisting conditions.

Grade is sometimes expressed as tensile strength in Newtons/square millimeter (N/mm<sup>2</sup>) or pounds/square inch (psi).

7) Determine the breaking force, which can aid in confirming the grade and is usually indicated on the crosshead data plate.

### OTHER CONSIDERATIONS

**Core:** The purpose of the core is to provide support for the strands. Natural fiber is the most common core used in elevator ropes in North America. However, in some high-rise/high-speed, most MRL and certain hydraulic applications, the use of steel-reinforced or full steel core (IWRC) ropes is becoming more common.

**Preforming:** In the preforming process, the strands are formed into a helix (spiral) prior to closing. Preformed rope is the industry standard and provides longer service life while being easier to handle. All the ropes in this catalog are preformed.

**Coating:** Bright (uncoated) is the industry standard and comes without any coating on the rope other than lubrication. For protection from weather and corrosion (e.g. outdoor and mine elevators), the use of a galvanized coating is often recommended.

**Compacted strands:** A rope design with flattened wires/strands to increase contact area, reduce surface pressure and help to extend rope service life associated with rope fatigue due to reverse bends (e.g. basement machines).

**Stretch/Elongation:** Elevator wire rope stretch results from two main factors. Elastic stretch is an increase in rope length due to increase in load (as load increases, the rope becomes longer and narrower and vice versa). Constructional stretch is an increase in rope length due to the settling/compression of the core and strands when a load is applied (most occurs shortly after the rope is put into service). Ropes made by different manufacturers and ropes of different strandings, constructions, grades, etc. exhibit different stretch characteristics.

# Wire Rope Ordering Information

## ORDERING GOVERNOR AND/OR COMPENSATION ROPE

The ordering procedure is similar to hoist ropes but you may have to rely on the rope tag to a greater degree because there is no crosshead data plate for governor or compensation ropes. However:

- 1) Measure the diameter of the rope. Use a caliper, micrometer or Go/No Go gauge.
- 2) Go to the shackles and confirm the stranding (6 or 8) of the ropes. Almost all compensation and governor ropes have 8 strands.

Look at the rope tag to determine breaking strength and then refer to the information in this catalog or contact your Draka EHC representative for the correct grade (Iron or Traction).

- 3) Consider the rope grade or tensile strength. Governor and compensation ropes are either Iron or Traction – never Extra High Strength Traction (EHST).
- 4) Confirm the lay of the rope. Governor and compensation ropes are always Right Regular lay and never Right Lang lay.

## OTHER CONSIDERATIONS

Preformed rope is always preferred for its longer life and ease of installation. Replace all governor and compensation ropes with preformed ropes.

## HANDLING OF WIRE ROPES PRIOR TO AND DURING INSTALLATION

Reels are best transported on the job site by rolling on a clean flat surface or by lifting from a pipe in the reel center hole.

Wire rope should be stored indoors, off the ground and covered to protect it from moisture, dirt, dust, sunlight, etc.

Care must be taken to unroll and not laterally pull wire rope when paying it off the reel. Kinking and dragging ropes over sharp edges must be avoided.

Ropes must be prevented from rotating during installation since free-hanging ropes will untwist under their own weight. The use of reeving splices is recommended - see page 72 of this catalog.

Loose rope ends should always be seized or secured with cable bands to prevent untwisting. Cable bands are available on page 72 of this catalog.

The installers should continually inspect wire rope during installation to identify any areas which may have been damaged in shipment or while in storage on the job site. Per ASME A17.1b-2009/CSA B44b-09 8.6.3.2 and ASME A17.6-2010 1.10.5, where one suspension rope has been damaged during installation or acceptance testing prior to being subjected to elevator service, it shall be permissible to replace a single damaged rope with a new rope, provided that the requirements of 8.6.3.2.1 through 8.6.3.2.6 and 1.10.4.4 and 1.10.5.1 through 1.10.5.6 respectively are met.

Use these tools to cut and measure wire rope. See page 100 for details.

#WR-IMPACT  
Impact cutter



#WR-HYDRAULIC  
Hydraulic cutter



#WR-RATCHET  
Ratchet cutter



#WR-MT  
Rope gauge



#WR-QBTM-2  
Tension meter



#WR-CALIPER-C  
Digital caliper



## TENSIONING

It is important to equally tension all the hoist ropes immediately after installation and during subsequent inspections in order to avoid differential wear of sheave grooves and ropes and to extend rope service life.

Ropes are considered to be equally tensioned when the smallest tension measured is within 10% of the highest tension measured. Ropes with greater tension/load will press harder into the sheave grooves resulting in increased overall rope wear while ropes with lesser tension/load will slide through the sheave grooves causing increased crown and sheave wear.

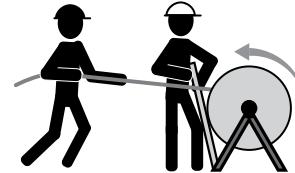
Highly accurate rope tension measuring devices are available which allow the quick and accurate checking of tension. Tension measuring devices are available on pages 74, 75 and 100 of this catalog.

## FIELD LUBRICATION POLICY

Draka EHC strongly recommends the use of a continuous lubrication device such as our Acculube™ automatic lubricator (see page 78). If the ropes are manually lubricated, they should be lubricated prior to summer and the increased temperature and humidity it brings. Condensation caused by the combination of an air conditioned machine room and a humid hoistway must be kept from entering the rope core.

The practice of re-lubrication based on time interval alone is no longer valid. As already mentioned, ropes on modern elevators are subject to greater stress which requires that cycle counts also be considered when deciding the right time to re-lubricate. Studies show that following the 250,000 cycle guideline will contribute to extended rope service life. Never field lubricate governor ropes. See Draka EHC Tech Tip #6 for detailed lubrication instructions.

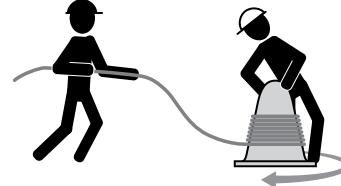
Wire rope may be paid off a reel supported by jack stands with a helper using a board as a brake...



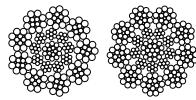
...or by paying it off a coil as the helper rotates it...



...or by paying it off a bollard as the helper rotates it.



# Gustav Wolf Wire Rope Selection Guide

SELECTION GUIDE			
Application	Rope Construction	Rope Name and Part Numbers per 100'	Projected Stretch
<b>HOIST</b>	8x19 Seale Traction grade Natural fiber core		F 819 S-FE DT 3/8" - ELWGA0308xxxxx 1/2" - ELWGA0127xxxxx 5/8" - ELWGA0508xxxxx
	8x19 Seale EHS Traction grade Natural fiber core		F 819 S-FE DT EHS 3/8" - ELWGA0308DBBA0A 1/2" - ELWGA0127DBBA0A 5/8" - ELWGA0508DBBA0A
	8x19 Seale EHS Traction grade Steel-reinforced natural fiber core		PAWO F3 3/8" - ELWGF0308BBBA0A 1/2" - ELWGF0127BBBA0A 5/8" - ELWGF0160BBBA0A
	9x17 or 9x21 Filler Wire EHS Traction grade* Full steel core		PAWO F10 3/8" - ELWGE0308BOAA0 1/2" - ELWGE0127BOCA0 5/8" - ELWGE0160BOCA0
Installations with reverse bends (e.g. basement machines)	8x19 Seale / compacted strands Traction grade Natural fiber core		CompactTrac™ 1/2" - ELWGA0127ABBC1A 5/8" - ELWGA0508ABBC1A
<b>GOVERNOR</b>	8x19 Seale / traction grade		Same as Hoist - Low/mid-rise
	8x19 Warrington / traction grade		3/8" - ELWGA0308AFBA0
	8x19 Warrington / iron grade		3/8" - ELWGA0300PFBA0
<b>COMPENSATING/GOVERNOR</b>	8x25 Filler wire / traction grade		1/2" - ELWGA0127ANDA0 5/8" - ELWGA0508ANDA0
	8x25 Filler wire / iron grade		1/2" - ELWGA0127PNDA0 5/8" - ELWGA0508PNDA0

\*Actual minimum tensile strength of PAWO F10 outer wires is 1570 N/mm<sup>2</sup> (227,800 psi).

These guidelines apply to standard 1:1 overhead machine installations. Other machine arrangements should be discussed with your Draka EHC representative prior to ordering.

It is strongly recommended that the sheaves of existing elevators be carefully checked and re-grooved or replaced as necessary prior to rope replacement. The diameter of the new ropes is greater than that of the old ropes and failure to bring the sheave grooves into the machine manufacturer's specified tolerances can lead to vibration, metal shavings and other problems.

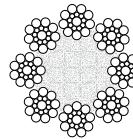
Other sizes (metric and imperial) than those listed above are available.

# Wire Rope by Gustav Wolf

IMPERIAL DIAMETERS TO MEET ASME A17.1 / CSA B44 & A17.6 FOR STANDARD APPLICATIONS

## HOIST, HOIST / GOVERNOR AND GOVERNOR – 8 X 19 SEALE WITH NATURAL FIBER CORE

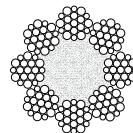
Part Number	Application	Diameter	Grade	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWGA0104ABBAOA	Hoist / Gov.	1/4 in.	Traction	Regular	3600 • 16025	0.09 • 0.14
ELWGA0308ABBAOR	Hoist / Gov.	3/8 in.	Traction	Regular	8200 • 36475	0.21 • 0.31
ELWGA0308DBBAOA	Hoist	3/8 in.	EHST	Regular	9900 • 44050	0.21 • 0.31
ELWGA0308DBBCOA	Hoist	3/8 in.	EHST	Lang	9900 • 44050	0.21 • 0.31
ELWGA0716PBBAOK	Governor	7/16 in.	Iron	Regular	5600 • 24900	0.28 • 0.42
ELWGA0127ABBAOR	Hoist	1/2 in.	Traction	Regular	14500 • 64500	0.36 • 0.54
ELWGA0127ABBCOR	Hoist	1/2 in.	Traction	Lang	14500 • 64500	0.36 • 0.54
ELWGA0127DBBAOR	Hoist	1/2 in.	EHST	Regular	17500 • 77850	0.36 • 0.54
ELWGA0127DBBCOA	Hoist	1/2 in.	EHST	Lang	17500 • 77850	0.36 • 0.54
ELWGA0916ABBAOA	Hoist	9/16 in.	Traction	Regular	18500 • 82300	0.46 • 0.68
ELWGA0916DBBAOA	Hoist	9/16 in.	EHST	Regular	22100 • 98300	0.46 • 0.68
ELWGA0508ABBAOR	Hoist / Gov.	5/8 in.	Traction	Regular	23000 • 102300	0.58 • 0.86
ELWGA0508ABBCOA	Hoist	5/8 in.	Traction	Lang	23000 • 102300	0.58 • 0.86
ELWGA0508DBBCOR	Hoist	5/8 in.	EHST	Lang	27200 • 121000	0.58 • 0.86



The most popular rope design in North America. Eight-strand/Seale construction with its larger outer wires better resists abrasion and wear. Dual-tensile design provides high-breaking strength without damage to sheaves with lower Brinell hardness. Available in Traction or Extra High Strength Traction (EHST) grade and Right Regular or Right Lang lay.

## GOVERNOR – 8 X 19 WARRINGTON WITH NATURAL FIBER CORE

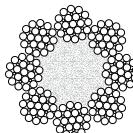
Part Number	Application	Diameter	Grade	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWGA0308AFBAO	Governor	3/8 in.	Traction	Regular	8200 • 36475	0.20 • 0.30
ELWGA0300PFBAO	Governor	3/8 in.	Iron	Regular	4200 • 18675	0.20 • 0.30



Eight-strand/Warrington construction is more flexible and makes this rope well-suited for governor applications. Available in Traction or Iron grade.

## COMPENSATION / GOVERNOR AND COMPENSATION – 8 X 25 FILLER WIRE WITH NATURAL FIBER CORE

Part Number	Application	Diameter	Grade	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWGA0127ANDAO	Comp./Gov.	1/2 in.	Traction	Regular	14500 • 64500	0.36 • 0.54
ELWGA0127PNDAO	Comp./Gov.	1/2 in.	Iron	Regular	7200 • 32025	0.36 • 0.54
ELWGA0508ANDAO	Comp./Gov.	5/8 in.	Traction	Regular	23000 • 102300	0.62 • 0.92
ELWGA0508PNDAO	Comp./Gov.	5/8 in.	Iron	Regular	11200 • 49825	0.62 • 0.92
ELWGA0304ANDAO	Compensation	3/4 in.	Traction	Regular	32000 • 142350	0.82 • 1.22
ELWGA0304PNDAO	Compensation	3/4 in.	Iron	Regular	16000 • 71175	0.82 • 1.22



Eight-strand/Filler Wire construction with its higher wire count provides greater flexibility and makes this rope a good match for compensating applications. Available in Traction or Iron grade.

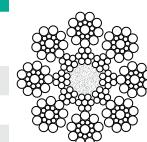
All listed Gustav Wolf wire rope is preformed, right lay with a bright (uncoated) finish. All popular items are in stock for immediate delivery. Less popular items and other diameters, strandings, constructions, grades, coatings, etc. are available by special order.

# Wire Rope by Gustav Wolf

IMPERIAL DIAMETERS TO MEET ASME A17.1 / CSA B44 & A17.6 FOR SPECIAL HOIST APPLICATIONS

## HOIST PAWO F3 – 8 X 19 SEALE WITH STEEL-REINFORCED NATURAL FIBER CORE

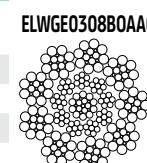
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWGF0308BBBAOA	Hoist	3/8 in.	1570	Regular	12229 • 54358	0.24 • 0.35
ELWGF0127BBBAOA	Hoist	1/2 in.	1570	Regular	22100 • 98300	0.42 • 0.62
ELWGF0160BBBAOA	Hoist	5/8 in.	1570	Regular	34800 • 154800	0.66 • 0.98
ELWGF0304BBBAO	Hoist	3/4 in.	1570	Regular	48925 • 217600	0.93 • 1.38



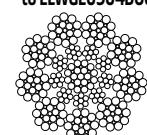
Steel-reinforced natural fiber core provides reduced stretch and cross-section deformation with higher breaking strength. Eight-strand/Seale construction with its larger outer wires increases wear resistance. Recommended for use on mid/high-rise elevators wherever Extra High Strength Traction (EHST) grade wire rope is specified to extend rope service life and reduce or eliminate the labor cost of repeated rope shortenings. PAWO F3 comes with a green surface line.

## HOIST PAWO F10 – 9 X 17 OR 9 X 21 FILLER WIRE WITH INDEPENDENT WIRE ROPE CORE

Part Number	Construction	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWGE0308B0AAO	9 x 17	Hoist	3/8 in.	1570	Regular	13600 • 60500	0.26 • 0.38
ELWGE0127B0CAO	9 x 21	Hoist	1/2 in.	1570	Regular	24625 • 109500	0.46 • 0.68
ELWGE0160B0CAO	9 x 21	Hoist	5/8 in.	1570	Regular	39125 • 174028	0.73 • 1.08
ELWGE0160B0CAOG	9 x 21	Hoist	5/8 in.	1570	Regular	39116 • 173870	0.73 • 1.08
ELWGE0304B0CAO	9 x 21	Hoist/Comp.	3/4 in.	1570	Regular	55050 • 244900	1.02 • 1.51
ELWGE0304B0CAOG	9 x 21	Hoist/Comp.	3/4 in.	1570	Regular	55050 • 244900	1.02 • 1.51



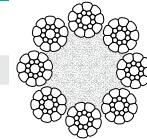
ELWGE0308B0AAO  
ELWGE0127B0CAO to ELWGE0304B0CAO



Designed specifically for demanding high-rise/high-speed applications. Full steel core (TWRC) and nine-strand/Filler Wire construction work together to achieve minimal stretch, a round cross-section, excellent flexibility, increased resistance to rope fatigue due to bending and maximized breaking strength. Recommended for use on high-rise/high-speed elevators wherever Extra High Strength Traction (EHST) grade wire rope is specified to achieve the ultimate in wire rope performance. PAWO F10 comes with a white surface line.

## HOIST COMPACTTRAC™ COMPAKTED STRAND – 8 X 19 SEALE WITH NATURAL FIBER CORE

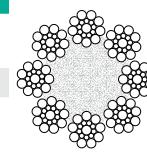
Part Number	Application	Diameter	Grade	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWGA0127ABBC1A	Hoist	1/2 in.	Traction	Lang	17500 • 77787	0.39 • 0.58
ELWGA0508ABBC1A	Hoist	5/8 in.	Traction	Lang	26925 • 119800	0.62 • 0.92



Compacted strand design of this eight-strand/Seale rope increases bending resistance. The larger contact area between ropes and sheaves reduces surface pressure and helps extend short rope service life associated with rope fatigue due to reverse bends e.g. basement machines. This is a Right Lang lay rope in Traction grade.

## HOIST/GOVERNOR GALVANIZED – 8 X 19 SEALE WITH FIBER CORE

Part Number	Application	Diameter	Grade	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWGB0308HBBAOK	Hoist / Gov.	3/8 in.	Traction	Regular	8200 • 36475	0.21 • 0.31



Galvanized coating on wires helps protect ropes from weather and corrosion associated with outdoor and mine elevators. This is an eight-strand/Seale construction rope in Traction grade.

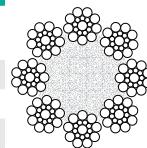
All listed Gustav Wolf wire rope is preformed, right lay with a bright (uncoated) finish (EXCEPT FOR ELWGB0308HBBAOK, ELWGA0127HBBAOA, and ELWGA0508HBBAOA above which are galvanized). Other diameters, strandings, constructions, grades, coatings, etc. are available by special order.

# Wire Rope by Gustav Wolf

METRIC DIAMETERS TO MEET DIN EN 12385, ISO 4344, ASME A17.1 / CSA B44 & A17.6

## HOIST AND COMPENSATION F 819 S-FC DT – 8 X 19 SEALE WITH NATURAL FIBER CORE

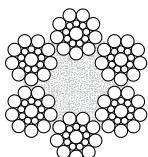
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWGA0080CBB0A0	Hoist	8.0 mm	1370/1770	Regular	6856 • 30475	0.15 • 0.22
ELWGA0100CBB0A0	Hoist	10.0 mm	1370/1770	Regular	10835 • 48162	0.24 • 0.35
ELWGA0110CBB0A0S	Hoist	11.0 mm	1370/1770	Regular	13128 • 58354	0.29 • 0.43
ELWGA0110CBB0A0G	Hoist	11.0 mm	1370/1770	Regular	13128 • 58354	0.29 • 0.43
ELWGA0120CBB0A0	Hoist	12.0 mm	1370/1770	Regular	15556 • 69146	0.34 • 0.50
ELWGA0130CBB0A0	Hoist	13.0 mm	1370/1770	Regular	18142 • 80641	0.40 • 0.59
ELWGA0160CBB0A0	Hoist/Comp.	16.0 mm	1370/1770	Regular	27200 • 121000	0.60 • 0.89



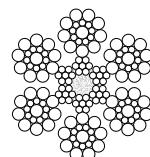
A popular metric rope design used in many standard hoist and compensating applications. Eight-strand/Seale construction with its larger outer wires better resists abrasion and wear. Dual-tensile design provides high-breaking strength without damage to sheaves with lower Brinell hardness.

## GOVERNOR – REFER TO SPECIFICATIONS BELOW

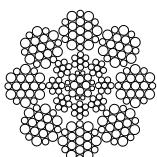
Part Number	Construction	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWGB0060KABA0S	6 x 19 Seale	Governor	6.0 mm	1770	Regular	4720 • 20980	0.09 • 0.13
ELWGF0060EABA0	6 x 19 Seale - PAWO F3	Governor	6.0 mm	1960	Regular	6182 • 27479	0.10 • 0.15
ELWGF0065BABA0A	6 x 19 Seale - PAWO F3	Governor	6.5 mm	1570	Regular	5822 • 25879	0.11 • 0.16
ELWGE0065DFBA0	8 x 19 Warrington - PAWO 819W	Governor	6.5 mm	1770	Regular	6676 • 29675	0.12 • 0.17
ELWGF0080BBBA0A	8 x 19 Seale - PAWO F3	Governor	8.0 mm	1570	Regular	8542 • 37969	0.16 • 0.24
ELWGE0080BOAA0	9 x 17 Filler Wire - PAWO F10	Governor	8.0 mm	1570	Regular	9711 • 43165	0.18 • 0.27
ELWGB0308KBBA0A	8 x 19 Seale	Governor	9.5 mm	1770	Regular	10525 • 46800	0.21 • 0.31
ELWGF0308BBBA0A	8 x 19 Seale - PAWO F3	Governor	9.5 mm	1570	Regular	12229 • 54357	0.24 • 0.35
ELWGE0308BOAA0	9 x 17 Filler Wire - PAWO F10	Governor	9.5 mm	1570	Regular	13600 • 60500	0.26 • 0.38
ELWGE0100BOAA0S	9 x 17 Filler Wire - PAWO F10	Governor	10.0 mm	1570	Regular	15107 • 67151	0.28 • 0.42



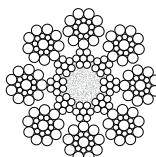
ELWGB0060KABA0S is a 6 x 19 Seale with synthetic fiber cores and is galvanized.



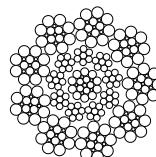
ELWGF0060EABA0 and ELWGF0065BABA0A are 6 x 19 PAWO F3 Seale with steel-reinforced natural fiber cores.



ELWGE0065DFBA0 is 8 x 19 PAWO 819W Warrington with full steel core (IWRC).



ELWGF0080BBBA0A and ELWGF0308BBBA0A are 8 x 19 PAWO F3 Seale with steel-reinforced natural fiber cores.



ELWGE0080BOAA0, ELWGE0308BOAA0 and ELWGE0100BOAA0S are 9 x 17 PAWO F10 Filler Wire with full steel core (IWRC).

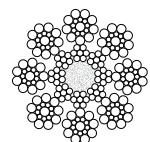
All listed Gustav Wolf wire rope is preformed, right lay with a bright (uncoated) finish (EXCEPT FOR ELWGB0060KABA0S above which is galvanized). All popular items are in stock for immediate delivery. Less popular items and other diameters, strandings, constructions, grades, coatings, etc. are available by special order.

# Wire Rope by Gustav Wolf

METRIC DIAMETERS TO MEET DIN EN 12385, ISO 4344, ASME A17.1 / CSA B44 & A17.6

## HOIST AND COMPENSATION PAWO F3 – 8 X 19 SEALE WITH STEEL-REINFORCED NATURAL FIBER CORE

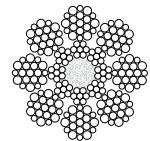
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWGF0080BBBAOA	Hoist	8.0 mm	1570	Regular	8542 • 37969	0.16 • 0.24
ELWGE0100BBBAOA	Hoist	10.0 mm	1570	Regular	13600 • 60500	0.26 • 0.39
ELWGF0130BBBAOA	Hoist	13.0 mm	1570	Regular	23177 • 103021	0.44 • 0.65
ELWGF0160BBBAOA	Hoist/Comp.	16.0 mm	1570	Regular	34800 • 154800	0.66 • 0.98
ELWGF0304BBBAO	Hoist/Comp.	19.0 mm	1570	Regular	48925 • 217600	0.93 • 1.38



Steel-reinforced natural fiber core provides reduced stretch and cross-section deformation with higher breaking strength. Eight-strand/Seale construction with its larger outer wires increases wear resistance. PAWO F3 comes with a green surface line.

## HOIST PAWO F7 – 8 X 19 WARRINGTON WITH STEEL-REINFORCED NATURAL FIBER CORE

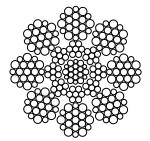
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWGF0100BFBAOA	Hoist	10.0 mm	1570	Regular	14252 • 63350	0.27 • 0.40
ELWGF0100BFBAOR	Hoist	10.0 mm	1570	Regular	14252 • 63350	0.27 • 0.40
ELWGF0130BFBAOA	Hoist	13.0 mm	1570	Regular	23604 • 104919	0.45 • 0.67
ELWGF0160BFBAOA	Hoist	16.0 mm	1570	Regular	36059 • 160282	0.69 • 1.02



Steel-reinforced natural fiber core provides reduced stretch and cross-section deformation with higher breaking strength. More flexible eight-strand/Warrington construction resists rope fatigue due to bending in installations with numerous rope bends. PAWO F7 comes with a green surface line.

## HOIST PAWO F7S – 8 X 19 WARRINGTON WITH INDEPENDENT WIRE ROPE CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWGE0080BFBAO	Hoist	8.0 mm	1570	Regular	10026 • 44565	0.19 • 0.28
ELWGE0100BFBAOS	Hoist	10.0 mm	1570	Regular	15624 • 69449	0.30 • 0.44
ELWGE0100BFBAOG	Hoist	10.0 mm	1570	Regular	15624 • 69449	0.30 • 0.44
ELWGE0130BFBAO	Hoist	13.0 mm	1570	Regular	26077 • 115912	0.49 • 0.73
ELWGE0160BFBAO	Hoist	16.0 mm	1570	Regular	39588 • 175969	0.74 • 1.10



Full steel core (IWRC) reduces stretch and cross-section deformation to a minimum while maximizing breaking strength. More flexible eight-strand/Warrington construction resists rope fatigue due to bending in installations with numerous rope bends and smaller sheaves. PAWO F7S comes with a green surface line.

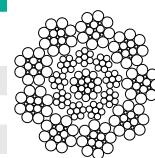
All listed Gustav Wolf wire rope is preformed, right lay with a bright (uncoated) finish. All popular items are in stock for immediate delivery. Less popular items and other diameters, strandings, constructions, grades, coatings, etc. are available by special order.

# Wire Rope by Gustav Wolf

METRIC DIAMETERS TO MEET DIN EN 12385, ISO 4344, ASME A17.1 / CSA B44 & A17.6

## HOIST PAWO F10 – 9 X 17 FILLER WIRE WITH INDEPENDENT WIRE ROPE CORE

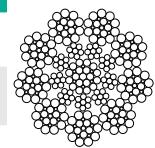
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWGE0080BOAA0	Hoist	8.0 mm	1570	Regular	9711 • 43165	0.18 • 0.27
ELWGE0110BOAA0S	Hoist	11.0 mm	1570	Regular	18029 • 80319	0.34 • 0.51
ELWGE0110BOAA0G	Hoist	11.0 mm	1570	Regular	18029 • 80319	0.34 • 0.51



Designed specifically for demanding high-rise/high-speed applications using rope diameters of 8.0 to 12.0 mm. Full steel core (IWRC) and nine-strand/Filler Wire construction work together to achieve minimal stretch, a round cross-section, excellent flexibility, increased resistance to rope fatigue due to bending and maximized breaking strength. PAWO F10 comes with a white surface line.

## HOIST AND COMPENSATION PAWO F10 – 9 X 21 FILLER WIRE WITH INDEPENDENT WIRE ROPE CORE

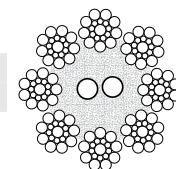
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWGE0130BOCA0	Hoist	13.0 mm	1570	Regular	25493 • 113316	0.48 • 0.71
ELWGE0150BOCA0S	Hoist/Comp.	15.0 mm	1570	Regular	34350 • 152800	0.64 • 0.95
ELWGE0150BOCA0G	Hoist /Comp.	15.0 mm	1570	Regular	34350 • 152800	0.64 • 0.95
ELWGE0160BOCA0S	Hoist/Comp.	16.0 mm	1570	Regular	39116 • 173871	0.73 • 1.08
ELWGE0304BOCA0S	Hoist/Comp.	19.0 mm	1570	Regular	55050 • 244900	1.02 • 1.51



Designed specifically for demanding high-rise/high-speed applications using rope diameters of 13.0 mm and larger. Full steel core (IWRC) and nine-strand/Filler Wire construction work together to achieve minimal stretch, a round cross-section, excellent flexibility, increased resistance to rope fatigue due to bending and maximized breaking strength. PAWO F10 comes with a white surface line.

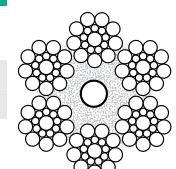
## HOIST PAWO F4E – 8 X 19 SEALE WITH SYNTHETIC FIBER CORE AND TWO 0.96 MM<sup>2</sup> (>18 AWG) CONDUCTORS

Part Number	Construction	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWGB0080KBBA3	8 x 19 Seale (PAWO F4e)	Hoist	8.0 mm	1770	Regular	7463 • 33173	0.17 • 0.25



## HOIST PAWO F5E – 6 X 19 SEALE WITH SYNTHETIC FIBER CORE AND ONE 0.96 MM<sup>2</sup> (>18 AWG) CONDUCTORS

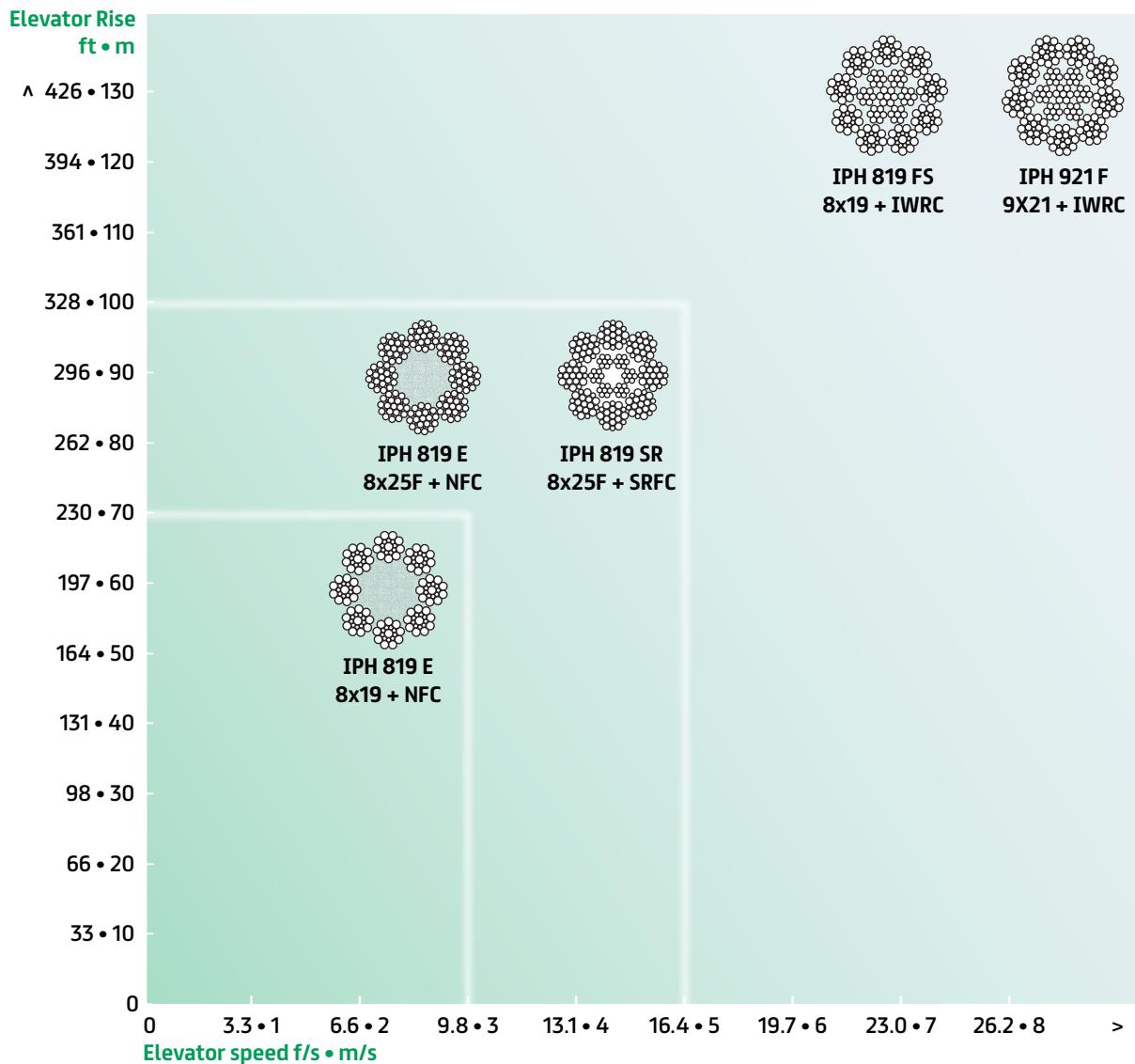
Part Number	Construction	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWGB0080DABAO	6 x 19 Seale (PAWO F5e)	Hoist	8.0 mm	1770	Regular	8587 • 38169	0.16 • 0.23



Galvanized coating on wires and 0.96 mm<sup>2</sup> (>18 AWG) electrical conductors make these six- or eight-strand/Seale ropes suitable for use on outdoor maintenance platforms and similar applications. Diameters in addition to 8.0 mm are available.

All listed Gustav Wolf wire rope is preformed, right lay with a bright (uncoated) finish (EXCEPT FOR ELWGB0080KBBA3 and ELWGB0080DABAO above which are galvanized). 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.

# IPH hoist rope application chart



Wire Rope &  
Compensation

## ABOUT IPH WIRE ROPES

Founded in 1949, IPH has become a global player in the manufacturing of elevator wire ropes.

The IPH business model is based on innovation coupled with investment in design and manufacturing. Our high quality and customer service standards allow the company to successfully compete on five continents.

Our 480,000+ square foot facility has the capacity to produce up to 1500 tons of wire rope per month. It combines cutting edge technology with a very capable workforce and a quality system certified to leading international standards.

Our vertically-integrated production process involves each and every component of the wire rope. We draw our own wire and manufacture our steel and fiber cores, following each customer specification down to the selection of wood or steel for the reel. This model is the key to the optimization of the design, versatility, sustainability and quality assurance of our final products.

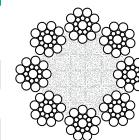
In our two state-of-the-art sales and service centers (Buenos Aires and São Paulo,) IPH keeps a large and versatile supply of finished products; along with facilities to manufacture custom ropes, cut orders to specified lengths, final conditioning of products, and research and quality assurance facilities.

# Wire rope by IPH

IMPERIAL DIAMETERS TO MEET ASME A17.1 / CSA B44, A17.6 & ISO 4344 FOR STANDARD APPLICATIONS

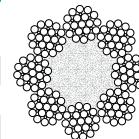
## 8 X 19 SEALE WITH NATURAL FIBER CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIA0308DBBCO	Hoist/Comp/Gov	3/8 in.	1770	Lang	NFC	10520 • 46761	0.206 • 0.307
ELWIA0308DBBAO	Hoist/Comp/Gov	3/8 in.	1770	Regular	NFC	10520 • 46761	0.206 • 0.307
ELWIA0308CBBBAO	Hoist/Comp/Gov	3/8 in.	1370/1770	Regular	NFC	9300 • 41500	0.206 • 0.307
ELWIA0308CBBCO	Hoist/Comp/Gov	3/8 in.	1370/1770	Lang	NFC	9300 • 41500	0.206 • 0.307
ELWIA0308QBBBAO	Hoist/Comp/Gov	3/8 in.	900/1770	Regular	NFC	7500 • 33600	0.206 • 0.307
ELWIC0110CBBBAO	Hoist/Comp/Gov	7/16 in.	1370/1770	Regular	NFC	12500 • 55700	0.276 • 0.411
ELWIA0127BBBAO	Hoist/Comp/Gov	1/2 in.	1570	Regular	NFC	17470 • 77654	0.368 • 0.548
ELWIA0127BBBCO	Hoist/Comp/Gov	1/2 in.	1570	Lang	NFC	17470 • 77654	0.368 • 0.548
ELWIA0127DBBAO	Hoist/Comp/Gov	1/2 in.	1770	Regular	NFC	19700 • 87567	0.368 • 0.548
ELWIA0127DBBCO	Hoist/Comp/Gov	1/2 in.	1770	Lang	NFC	19700 • 87567	0.368 • 0.548
ELWIA0127CBBBAO	Hoist/Comp/Gov	1/2 in.	1370/1770	Regular	NFC	17470 • 77654	0.368 • 0.548
ELWIA0127CBBCO	Hoist/Comp/Gov	1/2 in.	1370/1770	Lang	NFC	17470 • 77654	0.368 • 0.548
ELWIA0916DBBAO	Hoist/Comp/Gov	9/16 in.	1770	Regular	NFC	23800 • 106000	0.467 • 0.695
ELWIA0916CBBBAO	Hoist/Comp/Gov	9/16 in.	1370/1770	Regular	NFC	21100 • 94000	0.467 • 0.695
ELWIA0508BBBAO	Hoist/Comp/Gov	5/8 in.	1570	Regular	NFC	26500 • 118000	0.585 • 0.870
ELWIA0508BBCO	Hoist/Comp/Gov	5/8 in.	1570	Lang	NFC	26500 • 118000	0.585 • 0.870
ELWIA0508DBBAO	Hoist/Comp/Gov	5/8 in.	1770	Regular	NFC	29900 • 133000	0.585 • 0.870
ELWIA0508DBBCO	Hoist/Comp/Gov	5/8 in.	1770	Lang	NFC	29900 • 133000	0.585 • 0.870
ELWIA0508CBBBAO	Hoist/Comp/Gov	5/8 in.	1370/1770	Regular	NFC	26500 • 118000	0.585 • 0.870
ELWIA0508CBBCO	Hoist/Comp/Gov	5/8 in.	1370/1770	Lang	NFC	26500 • 118000	0.585 • 0.870
ELWIA1116BBBAO	Hoist/Comp/Gov	11/16 in.	1570	Regular	NFC	31700 • 141000	0.699 • 1.040
ELWIA1116DBBAO	Hoist/Comp/Gov	11/16 in.	1770	Regular	NFC	35700 • 159000	0.699 • 1.040
ELWIA1116DBBCO	Hoist/Comp/Gov	11/16 in.	1770	Lang	NFC	35700 • 159000	0.699 • 1.040
ELWIA1116CBBBAO	Hoist/Comp/Gov	11/16 in.	1370/1770	Regular	NFC	31700 • 141000	0.699 • 1.040
ELWIA1116RBBAO	Hoist/Comp	11/16 in.	2050/1960	Regular	NFC	36400 • 162000	0.699 • 1.040
ELWIA0190BBBAO	Hoist/Comp/Gov	3/4 in.	1570	Regular	NFC	37300 • 166000	0.827 • 1.230
ELWIA0304CBBBAO	Hoist/Comp/Gov	3/4 in.	1370/1770	Regular	NFC	37300 • 166000	0.827 • 1.230
ELWIA0190RBBAO	Hoist/Comp	3/4 in.	2050/1960	Regular	NFC	42900 • 191000	0.827 • 1.230
ELWIA0220BBBAO	Hoist/Comp	7/8 in.	1570	Regular	NFC	50100 • 2230000	1.109 • 1.650
ELWIA0708DBBCO	Hoist/Comp	7/8 in.	1770	Lang	NFC	56400 • 2510000	1.109 • 1.650
ELWIA0220DBBAO	Hoist/Comp	7/8 in.	1770	Regular	NFC	56400 • 2510000	1.109 • 1.650
ELWIA0220CBBBAO	Hoist/Comp	7/8 in.	1370/1770	Regular	NFC	50100 • 2230000	1.109 • 1.650
ELWIA1000CBBBAO	Hoist/Comp	1 in.	1370/1770	Regular	NFC	63800 • 283591	1.478 • 2.200



## 8 X 25 FILLER WIRE WITH NATURAL FIBER CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIA0127CNDAO	Hoist/Comp/Gov	1/2 in.	1370/1770	Regular	NFC	16600 • 73787	0.368 • 0.548
ELWIA0127QNDAO	Hoist/Comp/Gov	1/2 in.	900/1770	Regular	NFC	13500 • 60200	0.368 • 0.548
ELWIA0508CNDAO	Hoist/Comp/Gov	5/8 in.	1370/1770	Regular	NFC	26500 • 11800	0.585 • 0.870



IPH natural fiber core hoist ropes have a high-density core that holds a special lubricant designed for traction sheaves.

E modulus is 50000 N/mm<sup>2</sup> for the above ropes. Maximum construction stretch is 0.60% - Maximum elastic stretch is 0.20%

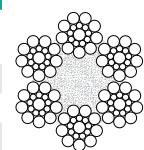
All IPH ropes have a bright (uncoated) finish. Galvanized ropes are available by special order.

# Wire rope by IPH

IMPERIAL DIAMETERS TO MEET ASME A17.1 / CSA B44, A17.6 & ISO 4344 FOR STANDARD APPLICATIONS

## 6 X 19 SEALE WITH NATURAL FIBER CORES

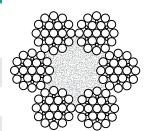
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIA0127CABA0	Hoist/Comp	1/2 in.	1370/1770	Regular	NFC	17900 • 79800	0.389 • 0.579
ELWIA0160CABA0	Hoist/Comp	5/8 in.	1370/1770	Regular	NFC	28600 • 127000	0.618 • 0.919
ELWIA0175DABCO	Hoist/Comp	11/16 in.	1770	Lang	NFC	40200 • 179000	0.739 • 1.100
ELWIA0175CABA0	Hoist/Comp	11/16 in.	1370/1770	Regular	NFC	34200 • 152000	0.739 • 1.100
ELWIA0304DABA0	Hoist/Comp	3/4 in.	1770	Regular	NFC	47400 • 211000	0.874 • 1.300
ELWIA0190CABCO	Hoist/Comp	3/4 in.	1370/1770	Lang	NFC	40200 • 179000	0.874 • 1.300
ELWIA1316DABA0	Hoist/Comp	13/16 in.	1770	Regular	NFC	55800 • 248000	1.021 • 1.520



E modulus is 60000 N/mm<sup>2</sup> for the above ropes. Maximum construction stretch is 0.60% - Maximum elastic stretch is 0.20%

## 6 X 25 FILLER WIRE WITH NATURAL OR SYNTHETIC FIBER CORES

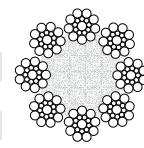
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIA0127DMDAO	Hoist/Comp	1/2 in.	1770	Regular	NFC	21200 • 94200	0.389 • 0.579
ELWIA0508DMDAO	Hoist/Comp	5/8 in.	1770	Regular	NFC	33700 • 150000	0.618 • 0.919
ELWIA1116DMDAO	Hoist/Comp	11/16 in.	1770	Regular	NFC	40200 • 179000	0.739 • 1.100
ELWIB0190BMDAO	Compensation	3/4 in.	1570	Regular	SFC	42000 • 187000	0.874 • 1.300



E modulus is 50000 N/mm<sup>2</sup> for the above ropes. Maximum construction stretch is 0.60% - Maximum elastic stretch is 0.20%

## 8 X 19 SEALE WITH SYNTHETIC FIBER CORES

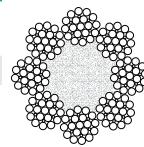
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIB0080BBBA0	Compensation	5/16 in.	1570	Regular	SFC	6600 • 29400	0.146 • 0.218
ELWIB0308CBBA0	Compensation	3/8 in.	1370/1770	Regular	SFC	9300 • 41500	0.206 • 0.307
ELWIB0127CBBBA0	Compensation	1/2 in.	1370/1770	Regular	SFC	17500 • 77700	0.368 • 0.548



E modulus is 50000 N/mm<sup>2</sup> for the above ropes. Maximum construction stretch is 0.60% - Maximum elastic stretch is 0.20%

## 8 X 25 FILLER WIRE WITH SYNTHETIC FIBER CORES

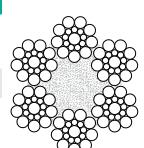
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIB0508CNDAO	Compensation	5/8 in.	1370/1770	Regular	SFC	26500 • 118000	0.585 • 0.870
ELWIB0190CNDAO	Compensation	3/4 in.	1370/1770	Regular	SFC	37300 • 166000	0.827 • 1.230



E modulus is 50000 N/mm<sup>2</sup> for the above ropes. Maximum construction stretch is 0.60% - Maximum elastic stretch is 0.20%

## 6 X 19 SEALE WITH SYNTHETIC FIBER CORE

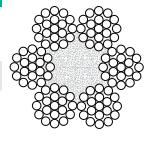
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIB0308DABCO	Governor	3/8 in.	1770	Lang	SFC	11800 • 52700	0.218 • 0.324



E modulus is 60000 N/mm<sup>2</sup> for this rope. Maximum construction stretch is 0.60% - Maximum elastic stretch is 0.20%

## 6 X 19 WARRINGTON WITH SYNTHETIC FIBER CORE

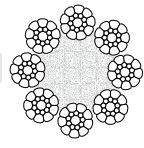
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIB0063DEBA0	Governor	1/4 in.	1770	Regular	SFC	5200 • 23200	0.096 • 0.143



E modulus is 60000 N/mm<sup>2</sup> for this rope. Maximum construction stretch is 0.60% - Maximum elastic stretch is 0.20%

## 8 X 19 SEALE (COMPACTED) WITH NATURAL FIBER CORES

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIA0175RBBA0	Hoist/Comp	11/16 in.	2050/1960	Regular	NFC	41100 • 183000	0.766 • 1.140
ELWIA0304RBBA1	Hoist/Comp	3/4 in.	2050/1960	Regular	NFC	48600 • 216000	0.900 • 1.340



E modulus is 50000 N/mm<sup>2</sup> for the above ropes. Maximum construction stretch is 0.60% - Maximum elastic stretch is 0.20%

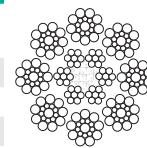
# Wire rope by IPH

IMPERIAL DIAMETERS TO MEET ASME A17.1 / CSA B44, A17.6 & ISO 4344 FOR STANDARD APPLICATIONS

## 8 X 19 SEALE WITH STEEL REINFORCED FIBER CORES

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIF0308BBBBAO	Hoist/Comp/Gov	3/8 in.	1570	Regular	SRFC	12800 • 56900	0.247 • 0.367
ELWIF0127BBBBAO	Hoist/Comp	1/2 in.	1570	Regular	SRFC	22700 • 101000	0.441 • 0.656
ELWIF0508BBBBAO	Hoist/Comp	5/8 in.	1570	Regular	SRFC	36200 • 161000	0.699 • 1.040

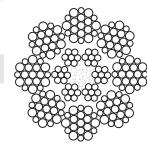
E modulus is 70000 N/mm<sup>2</sup> for the above ropes. Construction stretch is 0.12% - Elastic stretch is 0.18%.



## 8 X 19 WARRINGTON WITH STEEL REINFORCED FIBER CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIF0080NFBAO	Hoist/Comp/Gov	5/16 in.	1570/1770	Regular	SRFC	9700 • 43117	0.175 • 0.260

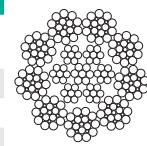
E modulus is 70000 N/mm<sup>2</sup> for this rope. Construction stretch is 0.30% - Elastic stretch is 0.18%.



## 9 X 21 FILLER WIRE WITH IWRC CORES

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIE0127BOCA0	Hoist/Comp/Gov	1/2 in.	1570	Regular	IWRC	24300 • 108000	0.450 • 0.670
ELWIE0508BOCA0	Hoist/Comp/Gov	5/8 in.	1570	Regular	IWRC	38700 • 172000	0.719 • 1.070
ELWIE1116BOCA0	Hoist/Comp	11/16 in.	1570	Regular	IWRC	46300 • 206000	0.860 • 1.280
ELWIE0190NGBAO	Hoist/Comp	3/4 in.	1570	Regular	IWRC	54400 • 242000	1.015 • 1.510
ELWIE0220BOCA0	Hoist/Comp	7/8 in.	1570	Regular	IWRC	73100 • 325000	1.357 • 2.020

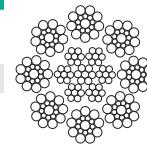
E modulus is 90000 N/mm<sup>2</sup> for the above ropes. Construction stretch is 0.10% - Elastic stretch is 0.12%



## 8 X 19 SEALE WITH IWRC CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIE0308DBBAO	Hoist/Comp/Gov	3/8 in.	1770	Regular	IWRC	14400 • 63900	0.206 • 0.307

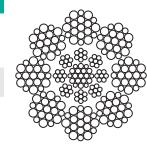
E modulus is 70000 N/mm<sup>2</sup> for this rope. Construction stretch is 0.12% - Elastic stretch is 0.18%



## 8 X 19 WARRINGTON WITH IWRC CORES

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIE0508NFBAO	Hoist/Comp	5/8 in.	1570/1770	Regular	IWRC	39100 • 174000	0.712 • 1.060
ELWIE0190NFBAO	Hoist/Comp	3/4 in.	1570/1770	Regular	IWRC	55100 • 245000	1.008 • 1.500

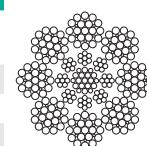
E modulus is 70000 N/mm<sup>2</sup> for the above ropes. Construction stretch is 0.12% - Elastic stretch is 0.18%



## 8 X 25 FILLER WIRE WITH IWRC CORES

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIE0160BNDAO	Hoist/Comp	5/8 in.	1570	Regular	IWRC	36200 • 161000	0.699 • 1.040
ELWIE0190BNDAO	Hoist/Comp	3/4 in.	1570	Regular	IWRC	51000 • 227000	1.008 • 1.500
ELWIE0190DNDAO	Hoist/Comp	3/4 in.	1770	Regular	IWRC	56700 • 252000	1.008 • 1.500
ELWIE0220DNDAO	Hoist/Comp	7/8 in.	1770	Regular	IWRC	76200 • 339000	1.324 • 1.970

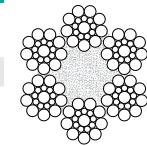
E modulus is 70000 N/mm<sup>2</sup> for the above ropes. Construction stretch is 0.12% - Elastic stretch is 0.18%



## 6 X 19 SEALE WITH SYNTHETIC FIBER CORE - GALVANIZED

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIB0063LABAO	Governor	6.3 mm	1960	Regular	SFC	5200 • 23130	0.096 • 0.143

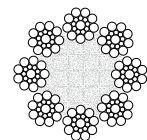
E modulus is 60000 N/mm<sup>2</sup> for this rope. Maximum construction stretch is 0.60% - Maximum elastic stretch is 0.20%



# Wire rope by IPH

METRIC DIAMETERS TO MEET ASME A17.1 / CSA B44, A17.6 & ISO 4344 FOR STANDARD APPLICATIONS

8 X 19 SEALE WITH NATURAL FIBER CORE							
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIA0080CBBAO	Hoist	8 mm	1370/1770	Regular	NFC	6600 • 29357	0.146 • 0.217
ELWIA0100CBBAO	Hoist/Comp/Gov	10 mm	1570	Regular	NFC	10300 • 46000	0.228 • 0.340
ELWIA0100CBBAO	Hoist/Comp/Gov	10 mm	1370/1770	Regular	NFC	10300 • 46000	0.228 • 0.340
ELWIA0130DBBAO	Hoist/Comp/Gov	13 mm	1770	Regular	NFC	19700 • 87567	0.386 • 0.575
ELWIA0180BBBAO	Hoist/Comp/Gov	18 mm	1570	Regular	NFC	33500 • 149000	0.739 • 1.100
ELWIA0180BBBAN*	Hoist	18 mm	1770	Regular	NFC	33500 • 149000	0.739 • 1.100
ELWIA0180DBBA4	Hoist	18 mm	1770	Regular	NFC	38000 • 169024	0.739 • 1.100
ELWIA0180DBBAO	Hoist/Comp/Gov	18 mm	1770	Regular	NFC	37800 • 169000	0.739 • 1.100
ELWIA1000BBBAO	Hoist/Comp	25 mm	1570	Regular	NFC	64700 • 2880000	1.431 • 2.130

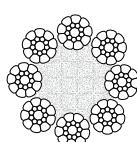


\* ELWIA0180BBBAN features Nyrostan lubricant

8x19 Seale hoist ropes have a high-density natural fiber core holds a special lubricant designed for traction sheaves.

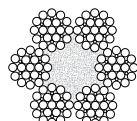
E modulus is 50000 N/mm<sup>2</sup> for the above ropes. Construction stretch is 0.60% - Elastic stretch is 0.20%

8 X 19 SEALE (COMPACTED) WITH NATURAL FIBER CORE							
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIA0508CBBC1	Hoist/Comp	16 mm (5/8 in.)	1370/1770	Lang	NFC	30600 • 136000	0.638 • 0.950



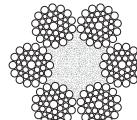
E modulus is 50000 N/mm<sup>2</sup> for this rope. Maximum construction stretch is 0.60% - Maximum elastic stretch is 0.20%

6 X 25 FILLER WIRE WITH NATURAL OR SYNTHETIC FIBER CORES							
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIA0180DMDAO	Compensation	18 mm	1770	Regular	NFC	42500 • 189000	0.779 • 1.160
ELWIB0200BMDAO	Compensation	20 mm	1570	Regular	SFC	46500 • 207000	0.968 • 1.440

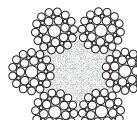


E modulus is 60000 N/mm<sup>2</sup> for the above ropes. Maximum construction stretch is 0.60% - Maximum elastic stretch is 0.20%

6 X 36 WARRINGTON SEALE WITH SYNTHETIC FIBER CORES							
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIB0240EIGAO	Compensation	24 mm	1960	Regular	SFC	83900 • 373000	1.418 • 2.110
ELWIB0280EIGAO	Compensation	28 mm	1960	Regular	SFC	114000 • 507000	1.935 • 2.880

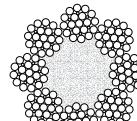


6 X 29 FILLER WIRE WITH SYNTHETIC FIBER CORES							
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIA0300BMLAO	Compensation	30 mm	1570	Regular	SFC	104800 • 466000	2.217 • 3.300



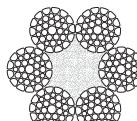
E modulus is 60000 N/mm<sup>2</sup> for this rope. Maximum construction stretch is 0.60% - Maximum elastic stretch is 0.20%

8 X 25 FILLER WIRE WITH NATURAL OR SYNTHETIC FIBER CORES							
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIB0180CNDAO	Compensation	18 mm	1370/1770	Regular	SFC	33500 • 149000	0.739 • 1.100
ELWIA0180DNDAO	Hoist/Comp	18 mm	1770	Regular	NFC	37800 • 168134	0.739 • 1.100



E modulus is 50000 N/mm<sup>2</sup> for the above rope. Maximum construction stretch is 0.60% - Maximum elastic stretch is 0.20%

6 X 36 WARRINGTON SEALE (COMPACTED) WITH SYNTHETIC FIBER CORE							
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIB0420EIGA1	Compensation	42 mm	1960	Regular	SFC	247300 • 1100000	4.730 • 7.040



E modulus is 60000 N/mm<sup>2</sup> for this rope. Maximum construction stretch is 0.60% - Maximum elastic stretch is 0.20%

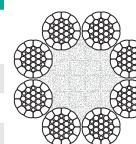
# Wire rope by IPH

METRIC DIAMETERS TO MEET ASME A17.1 / CSA B44, A17.6 & ISO 4344 FOR STANDARD APPLICATIONS

## 8 X 31 WARRINGTON SEALE (COMPACTED) WITH SYNTHETIC FIBER CORES

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIB0330DJFA1	Compensation	33 mm	1770	Regular	SFC	139400 • 620000	2.654 • 3.950
ELWIB0410DJFA1	Compensation	41 mm	1770	Regular	SFC	215800 • 960000	4.032 • 6.000
ELWIB0420DJFA1	Compensation	42 mm	1770	Regular	SFC	224800 • 1000000	4.233 • 6.300
ELWIB0440DJFA1	Compensation	44 mm	1770	Regular	SFC	247300 • 1100000	4.650 • 6.920

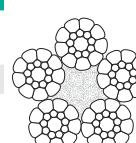
E modulus is 50000 N/mm<sup>2</sup> for the above ropes. Maximum construction stretch is 0.60% - Maximum elastic stretch is 0.20%



## 5 X 19 SEALE (COMPACTED) WITH SYNTHETIC FIBER CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIB0083LDBA1	Comp/Gov	8.3 mm	1960	Regular	SFC	12400 • 55000	0.177 • 0.263

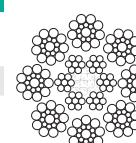
E modulus is 70000 N/mm<sup>2</sup> for this rope. Construction stretch is 0.30% - Elastic stretch is 0.20%.



## 8 X 19 SEALE WITH STEEL REINFORCED FIBER CORES

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIF0130BBBA0	Hoist/Comp	13 mm	1570	Regular	SRFC	23800 • 105791	0.462 • 0.688

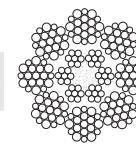
E modulus is 70000 N/mm<sup>2</sup> for this rope.. Construction stretch is 0.30% - Elastic stretch is 0.18%.



## 8 X 19 WARRINGTON WITH STEEL REINFORCED FIBER CORES

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIF0100NFBAO	Hoist/Comp/Gov	10 mm	1570/1770	Regular	SRFC	15300 • 68200	0.273 • 0.407
ELWIF0120BFBA0	Hoist	12 mm	1570	Regular	SRFC	20400 • 90739	0.394 • 0.586

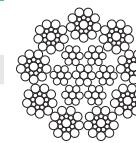
E modulus is 70000 N/mm<sup>2</sup> for this rope. Construction stretch is 0.30% - Elastic stretch is 0.18%.



## 9 X 19 SEALE WITH IWRC CORES

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIE0100BCBA0	Hoist/Comp/Gov	10 mm	1570	Regular	IWRC	14800 • 65786	0.282 • 0.420

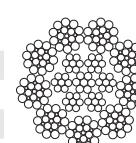
E Modulus is 90000 N/mm<sup>2</sup> for this rope. Construction stretch is 0.10% - Elastic stretch is 0.12%



## 9 X 21 FILLER WIRE WITH IWRC CORES

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIE0100BOCA0	Hoist/Comp/Gov	10 mm	1570	Regular	IWRC	15100 • 67000	0.282 • 0.420
ELWIE0130BOCA0	Hoist/Comp	13 mm	1570	Regular	IWRC	25400 • 113000	0.477 • 0.710
ELWIE0180BOCA0	Hoist/Comp	18 mm	1570	Regular	IWRC	49000 • 218000	0.907 • 1.350

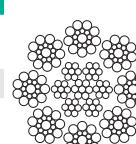
E Modulus is 90000 N/mm<sup>2</sup> for the above ropes. Construction stretch is 0.10% - Elastic stretch is 0.12%



## 8 X 19 SEALE WITH IWRC CORES

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIE0130CBBBA0	Hoist/Comp	13 mm	1370/1770	Regular	IWRC	24100 • 107000	0.472 • 0.702

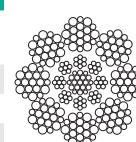
E modulus is 70000 N/mm<sup>2</sup> for this rope. Construction stretch is 0.12% - Elastic stretch is 0.18%



## 8 X 19 WARRINGTON WITH IWRC CORES

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWIE0060DFBA0	Hoist/Gov	6 mm	1770	Regular	IWRC	6050 • 26900	0.101 • 0.150
ELWIE0065DFBA0	Hoist/Gov	6.5 mm	1770	Regular	IWRC	7100 • 31600	0.118 • 0.176
ELWIE0100BFBA0	Hoist/Gov	10 mm	1570	Regular	IWRC	14200 • 63119	0.279 • 0.415

E modulus is 70000 N/mm<sup>2</sup> for the above ropes. Construction stretch is 0.12% - Elastic stretch is 0.18%

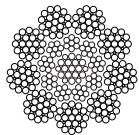
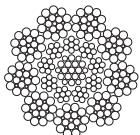


# Brugg Wire Rope Selection Guide

ALL ROPES MEET ASME A17.1 / CSA B44, A17.6 & ISO 4344 FOR STANDARD APPLICATIONS

Along with the selections listed below, Brugg wire rope offerings include other constructions.

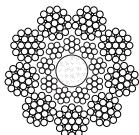
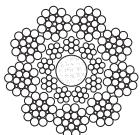
Review the next three pages for a more complete listing, or contact your Draka EHC representative if you require other constructions/sizes.



## HRS

Full Steel Core Rope  
Parallel Lay (PWRC)  
9 Strands

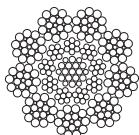
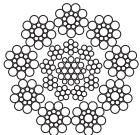
For applications demanding high MBF,  
minimum elongation and heavy usage



## DP9

Mixed Core Rope  
Parallel Lay (PWRC)  
9 Strands

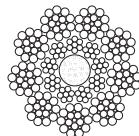
For applications demanding high MBF,  
minimum elongation and heavy usage  
Recommended for difficult installation conditions



## SCX9

Full Steel Core Rope  
Separate Lay (IWRC)  
9 Strands

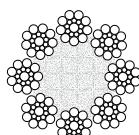
For applications demanding high MBF,  
minimum elongation and heavy usage



## MCX9

Mixed Core Rope  
Separate Lay (IWRC)  
9 Strands

For applications demanding high MBF,  
minimum elongation and heavy usage  
Recommended for difficult installation conditions



## 8 x 19

Fiber Core Rope  
NFC (Sisal)  
8 Strands

Recommended for standard low rise installation conditions

## ABOUT BRUGG LIFTING

Brugg Lifting is a global manufacturer of elevator ropes, architectural ropes, wire ropes and lashing and lifting gear. From strategic product development to global delivery, installation training to long-term customer service, we take the guesswork out of elevator design to make it easier, more inventive and more successful.

With Swiss and Chinese production sites and a global distribution network, Brugg Lifting is a partner in elevator development to customers worldwide.

Brugg Group is a Swiss-based global group with more than 120 years of experience in rope and cable technology. In 1896, the foundation of our company was laid when founder Gottlieb Suhner opened a cable factory in Brugg, Switzerland.

In 1910, Brugg became the first company in Switzerland to manufacture ropes for mountain cable cars. Kabelwerke Brugg entered the global market in 1985 with the establishment of a branch in Houston, Texas. The wire ropes manufacturing segment was extended that same year with the acquisition of Schweizerische Seilindustrie AG, based in Shaffhausen.

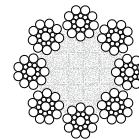
# Wire Rope by Brugg

IMPERIAL DIAMETERS TO MEET ASME A17.1 / CSA B44, A17.6 & ISO 4344 FOR STANDARD APPLICATIONS

## 8 X 19 SEALE WITH NATURAL OR SYNTHETIC FIBER CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWRB0308CBA0	Compensation	3/8 in.	1370/1770	Regular	SFC	9557 • 42510	0.20 • 0.30
ELWRA0127DBBA0	Hoist	1/2 in.	1770	Regular	NFC	20108 • 89440	0.36 • 0.54
ELWRA0127HBBA0*	Hoist	1/2 in.	1370/1770	Regular	NFC	17070 • 75927	0.36 • 0.54
ELWRB0127CBA0	Compensation	1/2 in.	1370/1770	Regular	SFC	17063 • 75896	0.36 • 0.54
ELWRA0508BBBAS	Hoist/Comp	5/8 in.	1570	Regular	NFC	28189 • 125385	0.57 • 0.85
ELWRA0508BBBC0	Hoist	5/8 in.	1570	Lang	NFC	28181 • 125350	0.57 • 0.85
ELWRA1116CBA0	Hoist/Comp	11/16 in.	1370/1770	Regular	NFC	33049 • 147002	0.70 • 1.04

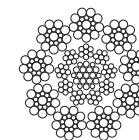
E modulus is 110000 N/mm<sup>2</sup> for the above ropes. Maximum construction stretch is 0.26% - Maximum elastic stretch is 0.122%



## SCX9 - 9 X 19 SEALE WITH IWRC CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWRE0110BCBA0	Hoist	7/16 in.	1570	Regular	IWRC	18187 • 80900	0.34 • 0.51

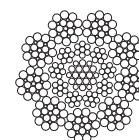
E modulus is 120000 N/mm<sup>2</sup> for this rope. Maximum construction stretch is 0.16% - Maximum elastic stretch is 0.108%



## SCX9 - 9 X 21 FILLER WIRE WITH IWRC CORE

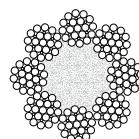
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWRE0127BCBA0	Hoist	1/2 in.	1570	Regular	IWRC	24347 • 108300	0.46 • 0.68
ELWRE0127BCBA0R	Hoist	1/2 in.	1570	Regular	IWRC	24347 • 108300	0.46 • 0.68
ELWRE0160BCBA0	Hoist	5/8 in.	1570	Regular	IWRC	38937 • 173200	0.73 • 1.09
ELWRE0190BCBA0	Hoist	3/4 in.	1570	Regular	IWRC	54696 • 243300	1.03 • 1.53

E modulus is 120000 N/mm<sup>2</sup> for the above ropes. Maximum construction stretch is 0.16% - Maximum elastic stretch is 0.108%



## 8 X 25 FILLER WIRE WITH NATURAL OR SYNTHETIC FIBER CORE

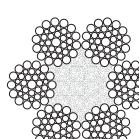
Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWRB0508CND0	Compensation	5/8 in.	1370/1770	Regular	SFC	28360 • 126145	0.60 • 0.89
ELWRB0304CND0	Compensation	3/4 in.	1370/1770	Regular	SFC	35732 • 158935	0.83 • 1.22
ELWRA1000CND0	Compensation	1 in.	1370/1770	Regular	NFC	73734 • 327969	1.56 • 2.32



## 8 X 36 WARRINGTON WITH SYNTHETIC FIBER CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWRB1000DJG0	Compensation	1 in.	1770	Regular	SFC	75311 • 335000	1.51 • 2.25

E modulus is 88000 N/mm<sup>2</sup> for this rope. Maximum construction stretch is 0.26% - Maximum elastic stretch is 0.122%



\*NOTE: All ropes are bright finished, except for ELWRA0127HBBA0 which is galvanized.

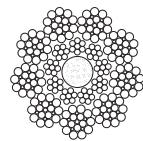
# Wire Rope by Brugg

IMPERIAL DIAMETERS TO MEET ASME A17.1 / CSA B44, A17.6 & ISO 4344 FOR STANDARD APPLICATIONS

## DP9 - 9 X 21 FILLER WIRE WITH PWRC CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWRG0127COCDAO	Hoist	1/2 in.	1570	Regular	PWRC	21492 • 95601	0.44 • 0.65

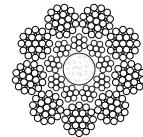
E modulus is 115000 N/mm<sup>2</sup> for this rope. Maximum construction stretch is 0.25% - Maximum elastic stretch is 0.112%



## DP9 - 9 X 25 FILLER WIRE WITH PWRC CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWRF0508B0DAO	Hoist	5/8 in.	1570	Regular	PWRC	33924 • 150901	0.68 • 1.01

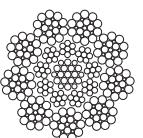
E modulus is 115000 N/mm<sup>2</sup> for this rope. Maximum construction stretch is 0.25% - Maximum elastic stretch is 0.112%



## HRS - 9 X 21 FILLER WIRE WITH PWRC CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWRG0102BFCA0	Hoist	1/2 in.	1570	Regular	PWRC	24752 • 111100	0.47 • 0.70

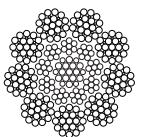
E modulus is 125000 N/mm<sup>2</sup> for this rope. Maximum construction stretch is 0.13% - Maximum elastic stretch is 0.104%



## HRS - 9 X 25 FILLER WIRE WITH PWRC CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWRF0508BFDAO	Governor	5/8 in.	1570	Regular	PWRC	39319 • 174900	0.74 • 1.10

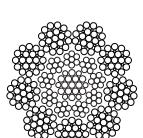
E modulus is 125000 N/mm<sup>2</sup> for this rope. Maximum construction stretch is 0.13% - Maximum elastic stretch is 0.104%



## MCX9 - 9 X 25 FILLER WIRE WITH STEEL REINFORCED FIBER CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWRF0508B0DAO	Hoist	5/8 in.	1570	Regular	SRFC	33924 • 150894	0.63 • 0.94
ELWRF0508BCDAO	Hoist	5/8 in.	1570	Regular	SFRC	33029 • 146913	0.63 • 0.94

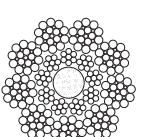
E modulus is 115000 N/mm<sup>2</sup> for these ropes.



## MCX9 - 9 X 21 FILLER WIRE WITH STEEL REINFORCED FIBER CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWRC0127BCBA0	Hoist	1/2 in	1570	Regular	SRFC	20682 • 92000	0.39 • 0.59
ELWRF0127B0CO0	Hoist	1/2 in.	1570	Regular	SRFC	20678 • 91976	0.49 • 0.72

E modulus is 115000 N/mm<sup>2</sup> for the above ropes. Maximum construction stretch is 0.25% - Maximum elastic stretch is 0.116%



NOTE: All ropes are bright finished.

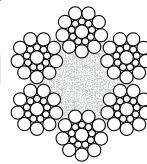
# Wire Rope by Brugg

METRIC DIAMETERS TO MEET ASME A17.1 / CSA B44, A17.6 & ISO 4344 FOR STANDARD APPLICATIONS

## 6 X 19 SEALE WITH SYNTHETIC FIBER CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWRB0060EABA0	Compensation	6 mm	1960	Regular	SFC	5485 • 24397	0.08 • 0.12

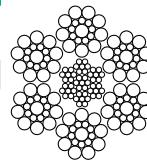
E modulus is 105000 N/mm<sup>2</sup> for this rope.



## 6 X 19 SEALE WITH IWRC CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWRE0065LABA0*	Hoist/Gov	6.5 mm	1960	Regular	IWRC	6741 • 29984	0.11 • 0.16

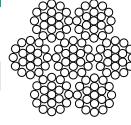
E modulus is 125000 N/mm<sup>2</sup> for this rope.



## 6 X 19 WARRINGTON

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWRE0065LABA0	Governor	6.5 mm	1960	Regular	IWRC	6741 • 29900	0.11 • 0.16

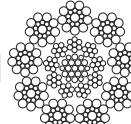
E modulus is 96000 N/mm<sup>2</sup> for this rope. Maximum construction stretch is 0.108% - Maximum elastic stretch is 0.160%



## SCX9 - 9 X 19 SEALE WITH IWRC CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWRE0100BCBA0	Hoist	10 mm	1570	Regular	IWRC	14968 • 66580	0.28 • 0.42
ELWRE0100BCBA0R	Hoist	10 mm	1570	Regular	IWRC	12800 • 56934	0.33 • 0.49

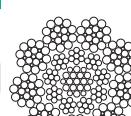
E modulus is 120000 N/mm<sup>2</sup> for the above ropes. Maximum construction stretch is 0.16% - Maximum elastic stretch is 0.108%



## SCX9 - 9 X 21 FILLER WIRE WITH IWRC CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWRE0130BCBA0	Hoist	13 mm	1570	Regular	IWRC	25156 • 111900	0.47 • 0.70
ELWRE0130BCBA0R	Hoist	13 mm	1570	Regular	IWRC	24954 • 110995	0.48 • 0.71

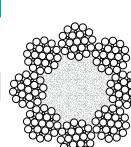
E modulus is 120000 N/mm<sup>2</sup> for the above ropes. Maximum construction stretch is 0.16% - Maximum elastic stretch is 0.108%



## 8 X 25 FILLER WIRE WITH NATURAL OR SYNTHETIC FIBER CORE

Part Number	Application	Diameter	Tensile Strength N/mm <sup>2</sup>	Right Lay	Core	Min. Breaking Force lbf • N	Net Weight lbs/ft • kg/m
ELWRB0190CNDAO	Compensation	19 mm	1370/1770	Regular	SFC	35732 • 158936	0.77 • 1.15

NOTE: All these ropes are bright finished, except for ELWRE0065LABA0 (6x19 compensation) which is galvanized.



# Wire Rope Wedge Sockets

TO MEET ASME A17.1 / CSA B44 • NEW YORK MEA APPROVAL #410-03-M

## WIRE ROPE WEDGE SOCKETS

Part Number	Rope size inches • mm	Dim (A) nom inches • mm ( $\pm 3/16$ • 5)	Dim (B) nom inches • mm ( $\pm 3/16$ • 5)	Dim (C) Thread and Diameter	Usable Thread min inches • mm	Dim (D) nom inches • mm ( $\pm 3/8$ • 10)
ELHWSY-516-12	5/16 • 8	17-1/2 • 445	12-19/32 • 320	M12	7-7/8 • 200	8-27/32 • 225
ELHWSY-516-18	5/16 • 8	23-3/4 • 603	18-7/8 • 480	M12	9-13/16 • 250	10-13/16 • 275
ELHWSY-516-24	5/16 • 8	30-1/8 • 765	24-3/16 • 640	M12	15-3/4 • 400	16-23/32 • 425
ELHWSY-38-12	3/8 • 9 to 10	17-1/2 • 445	12-19/32 • 320	M12	7-7/8 • 200	8-27/32 • 225
ELHWSY-38-18	3/8 • 9 to 10	23-3/4 • 603	18-7/8 • 480	M12	9-13/16 • 250	10-13/16 • 275
ELHWSY-38-24	3/8 • 9 to 10	30-1/8 • 765	24-3/16 • 640	M12	15-3/4 • 400	16-23/32 • 425
ELHWSY-12-12-A	7/16 to 1/2 • 11 to 13	18 • 457	12-19/32 • 320	M20	7-7/8 • 200	8-27/32 • 225
ELHWSY-12-18-B	7/16 to 1/2 • 11 to 13	24-3/8 • 619	18-7/8 • 480	M20	9-13/16 • 250	10-13/16 • 275
ELHWSY-12-24-B	7/16 to 1/2 • 11 to 13	30-5/8 • 778	24-3/16 • 640	M20	15-3/4 • 400	16-23/32 • 425
ELHWSY-12-30-B	7/16 to 1/2 • 11 to 13	36-7/8 • 937	30-1/2 • 800	M20	15-3/4 • 400	16-23/32 • 425
ELHWSY-12-36-B	7/16 to 1/2 • 11 to 13	43-1/4 • 1099	36-13/16 • 960	M20	15-3/4 • 400	16-23/32 • 425
ELHWSY-58-12	9/16 to 5/8 • 14 to 16	19-3/4 • 502	12-19/32 • 320	M20	7-7/8 • 200	8-27/32 • 225
ELHWSY-58-18	9/16 to 5/8 • 14 to 16	26-1/8 • 664	18-7/8 • 480	M20	9-13/16 • 250	10-13/16 • 275
ELHWSY-58-24	9/16 to 5/8 • 14 to 16	32-3/8 • 822	24-3/16 • 640	M20	15-3/4 • 400	16-23/32 • 425
ELHWSY-58-30	9/16 to 5/8 • 14 to 16	38-3/4 • 984	30-1/2 • 800	M20	15-3/4 • 400	16-23/32 • 425
ELHWSY-58-36	9/16 to 5/8 • 14 to 16	45 • 1143	36-13/16 • 960	M20	15-3/4 • 400	16-23/32 • 425
ELHWSY-34-12	11/16 to 3/4 • 17.5 to 19	21-1/4 • 540	12-19/32 • 320	M24	7-7/8 • 200	8-27/32 • 225
ELHWSY-34-18	11/16 to 3/4 • 17.5 to 19	27-1/2 • 699	18-7/8 • 480	M24	9-13/16 • 250	10-13/16 • 275
ELHWSY-34-24	11/16 to 3/4 • 17.5 to 19	33-3/4 • 857	24-3/16 • 640	M24	15-3/4 • 400	16-23/32 • 425
ELHWSY-34-30	11/16 to 3/4 • 17.5 to 19	39-3/4 • 1010	30-1/2 • 800	M24	15-3/4 • 400	16-23/32 • 425
ELHWSY-34-36	11/16 to 3/4 • 17.5 to 19	46-1/4 • 1175	36-13/16 • 960	M24	15-3/4 • 400	16-23/32 • 425

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

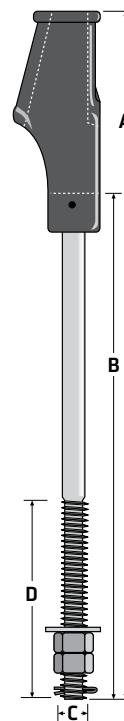
Draka EHC wedge sockets are tested with steel core (IWRC) wire rope and exceed ASME A17.1 Rule 2.20.9 and all other applicable safety codes.

### 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



Wire Rope & Compensation

## GOVERNOR ROPE WEDGE SOCKETS

Part Number	Description
ELHWSY-38-GOV	3/8 • 10 mm governor rope wedge socket, includes socket, wedge and 2 retaining clips, 0.55 in • 14 mm mounting hole
ELHWSY-12-GOV	1/2 • 13 mm governor rope wedge socket, includes socket, wedge and 2 retaining clips, 0.69 in • 17.5 mm mounting hole

Use these items to maintain wire rope. See item for location in this catalog.

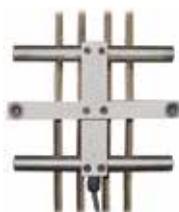
ELHWR-RTS Rope Tensioning Systems - page 74 - 75

Load weighing devices - pages 76 - 77

ELKACCULUBE 200 or 300 Acculube rope lubricator and cleaner - page 78

ELHWR-DRAKALUBE DrakaLube rope treatment - page 78

ELHMIS-100 or 101 Automatic rope oiler - page 78



# Wire Rope Wedge Sockets

ISOLATION BUSHINGS FOR WEDGE SOCKETS ON PAGE 69

## ROPE ISOLATION BUSHING SPRINGS – COMPLETE ASSEMBLIES AND COMPONENTS

Part Number	Size and Description inches • mm	Spring length inches • mm	Spring O.D. inches • mm	Spring I.D. inches • mm
ELHWS-SA-38	5/16 to 3/8 • 8 to 10 complete	n/a	n/a	n/a
ELHWS-SA-12-A	7/16 to 1/2 • 11 to 13 complete	n/a	n/a	n/a
ELHWS-SA-58	9/16 to 5/8 • 14 to 16 complete	n/a	n/a	n/a
ELHWS-SA-34	11/16 to 3/4 • 17.5 to 19 complete	n/a	n/a	n/a
ELHWS-IBUSH-38	5/16 to 3/8 • 8 to 10 bushing	n/a	n/a	n/a
ELHWS-IBUSH-12-A	7/16 to 1/2 • 11 to 13 bushing	n/a	n/a	n/a
ELHWS-IBUSH-58	9/16 to 5/8 • 14 to 16 bushing	n/a	n/a	n/a
ELHWS-IBUSH-34	11/16 to 3/4 • 17.5 to 19 bushing	n/a	n/a	n/a
ELHWS-SPR-38	5/16 to 3/8 • 8 to 10 spring	4-13/16 • 122 ( $\pm 1/8 \cdot 3$ )	1-5/16 • 33 ( $\pm 1/32 \cdot 0.6$ )	11/16 • 17 ( $\pm 1/32 \cdot 0.6$ )
ELHWS-SPR-12	7/16 to 1/2 • 11 to 13 spring	6-1/8 • 156 ( $\pm 9/64 \cdot 3.5$ )	1-15/16 • 49.2 ( $\pm 1/32 \cdot 0.7$ )	1 • 25.5 ( $\pm 1/32 \cdot 0.7$ )
ELHWS-SPR-58	9/16 to 5/8 • 14 to 16 spring	6-7/8 • 176 ( $\pm 1/8 \cdot 3$ )	2-1/2 • 64 ( $\pm 1/16 \cdot 1.5$ )	1-1/4 • 32 ( $\pm 1/16 \cdot 1.5$ )
ELHWS-SPR-34	11/16 to 3/4 • 17.5 to 19 spring	7-1/16 • 178 ( $\pm 5/32 \cdot 4$ )	3-11/32 • 85 ( $\pm 3/32 \cdot 2.5$ )	2-9/16 • 65 ( $\pm 3/32 \cdot 2.5$ )
ELHWS-BUSH-12-A	7/16 to 1/2 • 11 to 13 washer	n/a	n/a	n/a
ELHWS-BUSH-58	9/16 to 5/8 • 14 to 16 washer	n/a	n/a	n/a
ELHWS-BUSH-34	11/16 to 3/4 • 17.5 to 19 washer	n/a	n/a	n/a



Isolation bushing spring assemblies include 1 spring, 3 bushings and 2 washers. They DO NOT include the wedge socket.

Springs measured when relaxed.

### 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 INDIVIDUAL COMPONENTS

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



# Wedge Socket Components & Accessories

FOR WEDGE SOCKETS ON PAGE 69

## WEDGE SOCKET WEDGES

Part Number	Size and Description inches • mm (color)
ELHWS-WEDGE-516	5/16 • 8 wedge insert (green)
ELHWS-WEDGE-38	3/8 to 1/2 • 9 to 10 wedge insert (blue)
WS-WEDGE-12-A	7/16 to 1/2 • 11 to 13 (black)
ELHWS-WEDGE-58	9/16 to 5/8 • 14 to 16 wedge insert (red)
ELHWS-WEDGE-34	11/16 to 3/4 • 17.5 to 19 wedge insert (yellow)



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

These wedges are for use only in Draka EHC wedge sockets.

## WEDGE SOCKET RETAINING CLIPS

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



## PULLING GRIPS – GALVANIZED STEEL WITH ROTATING EYE

Part Number	For Wire Rope Diameters	Weave length	MBL kN
ELH033-02-016	6.3 - 12.4 mm	660 mm	20.5 kN
ELH033-02-018	2.7 - 18.8 mm	810 mm	44.4 kN
033-02-044	6.3 - 12.4 mm	660 mm	20.5 kN
ELH033-02-046	2.7 - 18.8 mm	810 mm	44.4 kN



Use these items to maintain wire rope. See item for location in this catalog.

ELHWR-RTS Rope Tensioning Systems - page 74 - 75

Load weighing devices - pages 76 - 77

ELKACCULUBE 200 or 300 Acculube rope lubricator and cleaner - page 78

ELHWR-DRAKALUBE DrakaLube rope treatment - page 78

ELHMIS-100 or 101 Automatic rope oiler - page 78



# Wire Rope Accessories

## REEVING SPLICES

Part Number	Color Code	For Rope Size inches	Length inches	Rod Diameter inches	Max. Load lbs
ELHRS-2103	Yellow	3/8	22	.051	300
ELHRS-2105	Orange	1/2	29	.070	2000
ELHRS-2107	Black	5/8	36	.086	2000



Reeving splices are provided three to a package. Use only once, then discard. Use ONLY for right lay ropes. Other sizes are available.

## CABLE BANDS

Part Number	Description	Standard Packaging
ELHWR-CB-38	Cable bands for 3/8 in. rope	50
ELHWR-CB-12	Cable bands for 1/2 in. rope	50
ELHWR-CB-58	Cable bands for 5/8 in. rope	50



## WIRE ROPE (CROSBY) CLIPS - MALLEABLE IRON

Part Number	Description
ELH79-107	1/8 in. rope wire rope clip
ELH79-114	3/16 in. rope wire rope clip
ELH79-122	1/4 in. rope wire rope clip
ELH79-123	3/8 in. rope wire rope clip
ELH79-126	1/2 in. rope wire rope clip
ELH79-127	5/8 in. rope wire rope clip



DO NOT use for hoisting applications.

## FIST GRIPS

Part Number	Description
ELH79-130	Fist grip, 3/16 to 1/4 in.
ELH79-131	Fist grip, 3/8 in.
ELH79-132	Fist grip, 7/16 to 1/2 in.
ELH79-133	Fist grip, 9/16 to 5/8 in.



## SELECTOR / HOISTWAY DOOR RELATING CABLE - PREFORMED, FLEXIBLE, ZINC-COATED

Part Number	Size inches	Stranding	MBL lbs	Cable Weight lbs/kft
ELWVE0116LUIA0	1/16	7x7	480	7.5
ELWVE0332LUIA0	3/32	7x7	920	16
ELWVE0108LUJA0	1/8	7x19	2,000	29
ELWVE0532LUJA0	5/32	7x19	2,800	45
ELWVE0316LUJA0	3/16	7x19	4,200	65
ELWVE0104LUJA0	1/4	7x19	7,000	110



DO NOT use selector / hoistway door relating cable for hoisting applications.

# Elevator Rope Brake (ERB) ERB10 / ERB20 / ERB35

MEETS ASME A17.1 2019, CSA B44.1/ASME A17.5, EN 81-20:2020 & EN-81-50:2020 STANDARDS

## PROTECTION AGAINST OVERSPEED AND UNINTENDED CAR MOVEMENT

Introducing the Draka EHC series of Elevator Rope Brakes (ERBs).

Draka EHC's new Elevator Rope Brake (ERB) series delivers enhanced safety for passengers and technicians by protecting against ascending car overspeed, unintended car movement, and exceeding rated buffer striking speed.

Consisting of three models (ERB10 / ERB20 / ERB35) to accommodate a wide range of operating parameters, configurations, rope diameters and spreads, the ERB's electromechanical design offers numerous value-added benefits over hydraulic rope brakes.

## FEATURES

- Electromechanical design
- No hydraulic pump or fluid required
- Compact design and small footprint
- Quick and simple installation
- Pads do not require grooving
- Easy to maintain
- LED operating and warning indicators
- Remote customer support
- Lower cost of ownership

Each ERB comes in a standard width version and a version with a wider clamp to accommodate broader rope spreads (see chart below).



## PERFORMANCE COMPARISON

Criteria	ERB10	ERB20	ERB35
Rope diameters	3/8 - 5/8 in 9.5 - 11 mm	3/8 - 5/8 in 9.5 - 11 mm	7/16 - 3/4 in*** 11 - 19 mm***
Rope spread	standard wide version	4.92 in 125 mm 5.98 in 152 mm	6.30 in 160 mm 7.56 in 192 mm
<b>1:1 Roping</b>			
Rated Speed (min - max)	1.3 - 10.1 ft/sec 0.4 - 3.1 m/sec	1.3 - 13.1 ft/sec 0.4 - 4.0 m/sec	1.3 - 10.1 ft/sec 0.4 - 3.1 m/sec
Car Rated Load* (min - max)	772 - 2205 lbs 350 - 1000 kg	1322 - 3527 lbs 600 - 1600 kg	2205 - 5511 lbs 1000 - 2500 kg
System Mass** (min - max)	2094 - 9480 lbs 950 - 4300 kg	3306 - 14880 lbs 1500 - 6750 kg	4630 - 18740 lbs 2100 - 8500 kg
Total Mass (min - max)	2866 - 11684 lbs 1300 - 5300 kg	4630 - 18408 lbs 2100 - 8350 kg	6834 - 23149 lbs 3100 - 10500 kg
<b>2:1 Roping</b>			
Rated Speed (min - max)	0.66 - 5.2 ft/sec 0.2 - 1.6 m/sec	0.66 - 6.6 ft/sec 0.2 - 2.0 m/sec	0.66 - 5.2 ft/sec 0.2 - 1.6 m/sec
Car Rated Load* (min - max)	1543 - 4409 lbs 700 - 2000 kg	2644 - 7054 lbs 1200 - 3200 kg	4410 - 11022 lbs 2000 - 5000 kg
System Mass** (min - max)	4189 - 18960 lbs 1900 - 8600 kg	6612 - 29760 lbs 3000 - 13500 kg	9260 - 37490 lbs 4200 - 17000 kg
Total Mass (min - max)	5732 - 23369 lbs 2600 - 10600 kg	9260 - 36816 lbs 4200 - 16700 kg	13669 - 46297 lbs 6200 - 21000 kg

\*Car, CWT & Rope   \*\*(Car, Load, CWT & Rope)   \*\*\*3/4 in and 19 mm diameters require ELH-ERB35-EXTKIT (see below)

## ELEVATOR ROPE BRAKE (ERB) ERB10 / ERB20 / ERB35

Part Number	Description
ELH-DRAKA-ERB10	ERB10 rope brake for 3/8 to 5/8 in • 9.5 to 16 mm ropes (includes power cable and manual)
ELH-DRAKA-ERB10-0	ERB10 rope brake with larger/optional pad installed
ELH-DRAKA-ERB20	ERB20 rope brake for 3/8 to 5/8 in • 9.5 to 16 mm ropes (includes power cable and manual)
ELH-DRAKA-ERB20-0	ERB20 rope brake with larger/optional pad installed
ELH-DRAKA-ERB35	ERB35 rope brake for 7/16 to 11/16 in • 11 to 17.5 mm ropes (includes power cable and manual)
ELH-DRAKA-ERB35-0	ERB35 rope brake with larger/optional pad installed
ELH-ERB35-EXTKIT	ERB35 extension kit to accommodate 3/4 in and 19 mm ropes
ELH-SDT-A5623	Step-down transformer (230V/120V (all models)

Replacement brake linings, printed circuit boards, solenoids, microswitches, locking devices, gearboxes and motors are available. Contact Draka EHC for specifics.

# Rope Tensioning System

## MICELECT RTS ROPE TENSIONING SYSTEMS

### RTS ROPE TENSIONING SYSTEM

Part Number	Description
ELHWR-RTS	RTS system, including control unit, power supply, USB cable for PC connection, T-handle allen wrench (for attaching sensors to rope), six (6) sensors and hard-shell case.
ELHWR-WRS	Additional wire rope sensor and couplings for 1/6 - 5/8 in • 4 - 16 mm) wire rope. Order one per rope.

The Micelect RTS (Rope Tensioning System) is a portable tool for quickly and accurately measuring the tension of elevator wire ropes. Rope tensions are quickly displayed on a backlit LCD screen.

Operating the RTS is simple: Small sensors (six are included) are attached to each wire rope using the supplied T-handle allen wrench. USB cables connect the sensors to the RTS control unit which displays rope tension in real time, allowing the tensions to be adjusted. Additional sensors are available.

Pre- and post-adjustment values are stored in the RTS memory and can be downloaded to a PC for accurate record keeping.

### FEATURES

- Portable
- Readout in both pounds and kilograms
- Accurate to within 3%
- Can measure up to 12 ropes at once with a maximum weight of 2200 lbs • 1000 kg per rope
- Both graphic and numeric displays
- Fits 5/32 to 5/8 in • 4 to 16 mm ropes
- Display languages include English, Spanish, German, Italian, French and Portuguese
- Comes with all cables, T-handled allen wrench and a hard-shell case
- Six sensors are included, can handle as many as twelve
- Stores and downloads to PC pre- and post-tensioning values
- Low battery indicator
- Factory reset switch



### HEAVY DUTY RTS ROPE TENSIONING SYSTEM

Part Number	Description
ELHWR-RTS-A	Heavy duty RTS system, including control unit, power supply, USB cable for PC connection, T-handle allen wrench (for attaching sensors to rope), six (6) sensors and hard-shell case.
ELHWR-WRS-A	Additional wire rope sensor and couplings for 1/2 - 3/4 in • 13 - 20 mm wire rope. Order one per rope.

The heavy duty version of the RTS is for higher-capacity elevators with larger hoist ropes. It has all of the features of the standard RTS but with a sensor that fits 1/2 to 3/4 in • 13 to 20 mm ropes. Maximum weight per rope is 6600 lbs • 3000 kg. Spacers to fit the various rope diameters are included.

### FEATURES

- Portable
- Readout in both pounds and kilograms
- Accurate to within 3%
- Can measure up to 12 ropes at once with a maximum weight of 6600 lbs • 3000 kg per rope
- Both graphic and numeric displays
- Fits 1/2 to 3/4 in • 13 to 20 mm ropes
- Display languages include English, Spanish, German, Italian, French and Portuguese
- Comes with all cables, T-handled allen wrench and a hard-shell case
- Six sensors are included, can handle as many as twelve
- Stores and downloads to PC pre- and post-tensioning values
- Low battery indicator
- Factory reset switch



The manual Quick-Balance tension meter is also available. See page 100 for details.

# Rope Tensioning Systems & Load Weighing Devices

## MICELECT RTS RF & LM3D CONTROL UNIT

### RTS RF WIRELESS ROPE TENSIONING SYSTEM

Part Number	Description
WR-RTS-RF	Wireless RTS system, including control unit, recharging cable, T-handle allen wrench (for attaching sensors to rope), six (6) WR-WRF small sensors and hard-shell case.
WR-WRF	Additional wire rope sensor

The Micelect wireless RTS RF does not require a physical connection between the sensors and the control unit. Rope tensions are displayed in real time on a backlit LCD screen. Operating range is 10 meters • 33 ft. Depending on the configuration, sensors fit rope sizes from 3/16 to 7/16 in • 4 to 11 mm and 1/2 to 3/4 in • 13 to 20 mm. Parts are included for both sizes.

Like the wired RTS, small rechargeable sensors (six are included in the basic kit) are attached to individual ropes using the supplied T-handle allen wrench. The sensors communicate with the control unit via radio and are accurate to within 5% of actual load. Additional sensors are available. The control unit can receive signals from up to twelve sensors.

Pre- and post-adjustment values are stored in the RTS memory and can be downloaded to a PC for accurate record keeping.

#### FEATURES

- Fits 3/16 to 3/4 in • 4 to 20 mm
- No wiring required
- Readout in both pounds and kilograms
- Accurate to within 5%
- Sensor maximum capacity is 6600 lbs • 3000 kg



### LM3D CONTROL UNIT FOR LOAD WEIGHING DEVICES PAGES 76 - 77

Part Number	Description
ELHL3D-UL-ANALOG	LMC control with three relay outputs and one 0-20, 4-20 or 0-24 mA analog output, 115-120VAC
ELHL3D-UL-5V	LMC control with three relay outputs and one voltage (not current) analog output, 115VAC
ELHL3D-EMC-CSA-POD	LMC control with same features as LM3D-UL-ANALOG but configured to operate with systems having a pre-opening doors option



The LM3D control unit is the brain of the Micelect LMC family and others (pages 76 and 77). The LM3D relays indicate "presence," "full" and "overload" conditions to trigger appropriate controller response. The presence relay can be used to eliminate nuisance calls. A cab display that shows overload condition is available as an option (see below). Integrated software automatically corrects for increases in load caused by compensating cable or chain.

For the LM3D unit, choose either digital or analog (0-20 mA, 0-24 mA, 4-20 mA) output.

#### FEATURES

- Three programmable alarm values (Presence, Full Load and Overload)
- Weight is visually displayed - built-in memory saves data
- Simple programming - just four keys program all parameters

### LW-WR LOAD WEIGHING SENSORS



Part Number	Description
ELHLW-WR-SENSOR-38	WR load weighing sensor, for individual 10 mm • 3/8 in. ropes - LM3D-EMC-CSA control unit required - see above. Automatic calibration. The WR attaches to individual ropes, operating capacity of 1200 kg • 2645 lbs per rope. Up to eight WR sensors can be wire into a LM3D-EMC-CSA unit.
ELHLW-WR-SENSOR-12	WR load weighing sensor, for individual 13 mm • 1/2 in. ropes - LM3D-EMC-CSA control unit required
ELHLW-WR-SENSOR-58	WR load weighing sensor, for individual 16 mm • 5/8 in. ropes - LM3D-EMC-CSA control unit required



LW-WR sensors attach directly to individual ropes. Up to eight of them may be connected to the control unit at one time. LW-WR sensors require an LM3D control unit - see above. Each sensor has a cable 6.56 ft • 2 meters in length.

# Load Weighing Devices

## LMC LOAD WEIGHING DEVICE – INSTALLS ACROSS ALL ROPES

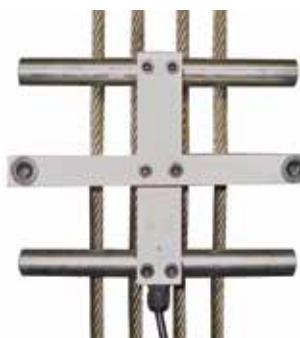
### LMC LOAD WEIGHING DEVICE



Part Number	Description
ELHLW-LMC	Load weighing device (sensor only), for 1:1 (8,800 lbs • 4000 kg), 2:1 (17,600 lbs • 8,000 kg) or 4:1 roping (35,200 lbs • 16,000 kg) capacity (please call if higher capacity is needed), automatic calibration, accurate to within 5%. Select spacers and clamps (below) and optional cab display (see page 75)

The LMC intelligent wire rope sensor is a precise device for monitoring the load in traction elevators. It mounts across all hoist ropes in as little as five minutes - calibration is automatic and no test weights are required. It's perfect for both modernizations and for new installations.

The LMC requires an LM3D control unit (see page 75). Clamps and spacers (sold separately) are determined by the spread of the ropes. A cab display for overload condition is available (see page 77).



### FEATURES

- Measures up to 35,200 lbs. for 4:1 roping (17,600 lbs. for 2:1 roping, 8,800 lbs. for 1:1 roping)
- Accurate to within 0.5%
- Fast, easy installation
- Suitable for wire ropes from 3/8 to 3/4 in. • 6 to 20 mm diameter.
- Choose either digital or analog (0-20 mA, 0-24 mA, 4-20 mA) output

### HEAVY DUTY LMC-REF LOAD WEIGHING DEVICE



Part Number	Description
ELHLW-LMC-REF	LMC-style load weighing device for heavier applications for 1:1 (16,500 lbs • 7,500 kg), 2:1 (33,000 lbs • 15,000 kg) and 4:1 (66,000 • 30,000 kg) cab weight (cab weight + cargo + compensation) - Select spacers and clamps (below). Can accommodate rope spreads of up to 8-1/2 in. • 226 mm and rope diameters up to 3/4 in. • 19 mm

The Micelect LMC-REF load weighing device is designed for heavier applications, such as freight elevators or larger passenger cars. It can determine weights up to 16,500 lbs • 7,500 kg in 1:1 roping and more in 2:1 and 4:1 roping schemes. The LMC-REF is an enhancement over the standard LMC device in that it features a special humidity-resistant housing for extended life and reliability while carrying an IP65 rating.

The LMC-REF requires an LM3D control unit (see page 75). Clamps and spacers (sold separately) are determined by the spread of the ropes. NOTE: Test weights are not required for calibration.



### FEATURES

- Operating capacity up to 30000 kg for 4:1 roping (15000 kg for 2:1 roping)
- Fast, easy installation
- Choose either digital or analog (0-20 mA, 0-24 mA, 4-20 mA) output

### CLAMPS FOR LMC AND LMC-REF LOAD WEIGHING DEVICES

Part Number	Description
ELHLW-LMC-CLAMP-4	Size 4 clamp, up to 6-1/4 in. • 160 mm of rope spread, two LW-SPACER required
ELHLW-LMC-CLAMP-5	Size 5 clamp, 6-3/8 to 7-3/8 in. • 161 to 188 mm of rope spread, four LW-SPACER required
ELHLW-LMC-CLAMP-6	Size 6 clamp, 7-1/2 to 8-1/2 in. • 189 to 226 mm of rope spread, four LW-SPACER required
ELHLMC-CLAMP-4-REF	Size 4 clamp, up to 6-1/4 in. • 160 mm of rope spread, two LW-SPACER required
ELHLMC-CLAMP-5-REF	Size 5 clamp, 6-3/8 to 7-3/8 in. • 161 to 188 mm of rope spread, four LW-SPACER required
ELHLMC-CLAMP-6-REF	Size 6 clamp, 7-1/2 to 8-1/2 in. • 189 to 226 mm of rope spread, four LW-SPACER required

### SPACERS FOR LMC AND LMC-REF LOAD WEIGHING DEVICES

Part Number	Description
ELHLW-SPACER-38	Spacer for LMC, 3/8 in. • 10 mm, two required for CLAMP- and CLAMP-REF-4, four for 5 and 6
ELHLW-SPACER-12	Spacer for LMC, 1/2 in. • 13 mm, two required for CLAMP- and CLAMP-REF-4, four for 5 and 6
ELHLW-SPACER-58	Spacer for LMC, 5/8 in. • 16 mm, two required for CLAMP- and CLAMP-REF-4, four for 5 and 6
ELHLW-SPACER-1116	Spacer for LMC, 11/16 in. • 17.5 mm, two required for CLAMP- and CLAMP-REF-4, four for 5 and 6
ELHLW-SPACER-34	Spacer for LMC, 3/4 in. • 19 mm, two required for CLAMP- and CLAMP-REF-4, four for 5 and 6

# Load Weighing Devices

## NON-WIRE ROPE WEIGHING DEVICES & CAB DISPLAYS

### UNDER CAB SENSOR



Part Number	Description
ELHLW-CAB-SENSOR	Under cab sensor, sold in multiples of 2 (4 to 16 may be used), features automatic calibration

Under cab sensors are ideal for new installations. They easily mount under the cab and are extremely accurate. They are self-calibrating and do not require test weights. An LM3D-EMC-CSA control unit is required (see page 75).

Under cab sensors are not recommended for modernizations.



### BELT SENSOR



Part Number	Description
023-4-0003	Belt sensor, for individual 1/8 in. • 3 mm belts (sensor only), attaches to individual belts, operating capacity 2645 lbs • 1200 kg per belt.
023-4-0004	Belt sensor, for individual 3/16 in. • 4.6 mm belts (sensor only), attaches to individual belts, operating capacity 2645 lbs • 1200 kg per belt.

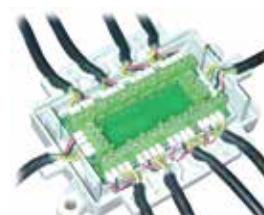
Up to eight belt sensors can be attached to a required LM3D-EMC-CSA control unit (see page 75).

Test weights are presently required for calibration – automatic calibration is pending.



### WR CONNECTION BOX

Part Number	Description
ELHLW-CONN-BOX	WR connection box, used with the LM3D-EMC-CSA control unit, provides a clean and protected connection for cabling
000000001000123730	CSA cable for WR connection box, connects LW-CONN-BOX to LM3D-EMC-CSA



### BEAM SENSOR



Part Number	Description
ELH023-4-0001	Cross beam-mounted load weighing device, with 6.5 ft • 2 meter cord and all necessary mounting hardware, 0-20, 4-20 or 0-24 mA analog output

This load weighing sensor mounts on the cross beams. An LM3D-EMC-CSA control unit is required (see page 75). Test weights are also required for calibration.

USE ONE SENSOR when the cab capacity is 2200 lbs • 1000 kg or less,  
AND when the cross beams are fixed to the same vertical beam,  
AND when the cab is situated symmetrically within the car sling.

USE TWO SENSORS when the cab capacity exceeds 2200 lbs • 1000 kg,  
OR when the depth of the cab is 1.4x the cab's width,  
OR when the cab is NOT situated symmetrically within the car sling.



### CAB DISPLAYS



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



# Wire Rope Lubrication

## ACCULUBE™ AUTOMATIC ROPE LUBRICATOR & CLEANER KIT DESCRIPTION

Part Number	Description
ELKACCULUBE 200	Automatic rope lubricator/cleaner kit, with three 70 mm brushes (210 mm • 8.25 inch span), bracket and three (3) 125ml lubricator cartridges filled wire rope treatment
ELKACCULUBE 300	Automatic rope lubricator/cleaner kit, with three 100 mm brushes (300 mm • 11.8 inch span), bracket and three (3) 125ml lubricator cartridges filled wire rope treatment
ELHSLX125 DRAKALUBE	Replacement 125 ml lubricator reservoir filled with DrakaLube
ELHSLX250 DRAKALUBE	Replacement 250ml lubricator reservoir filled with Drakalube
ELH2036	One (1) replacement 70 mm brush for Acculube 200
ELH2037	One (1) replacement 100 mm brush for Acculube 300
ELH98-02-87	One (1) steel mounting bracket
ELH1015	One (1) reservoir attachment nipple



The Acculube automatic rope lubricator/cleaner is a set-and-forget way of efficiently lubricating traction ropes for up to a year.

The unit is quickly and easily assembled in the machine room. Simply install it so that the brushes are in contact with the ropes, set the canisters to the proper time setting for your application (one year for standard indoor elevators, six months for exterior or high-contaminant environments) and walk away knowing that your hoist ropes are being consistently treated and cleaned as the elevator operates.

The lubricator canisters come pre-filled with our specially-formulated DrakaLube™ rope treatment. Please note that if your ropes are dirty, there will be greasy residue at the unit for a short while as the Acculube unit does its job. DO NOT attempt to refill the canisters. Contact Draka EHC for new canisters once depleted.

## FEATURES

- Labor and time-saving way to keep ropes lubricated
- No oil spills or splashes in the machine room or the car
- Easy installation
- Constant, reliable lubricant application
- Ropes are continually cleaned by the brushes

## DRAKALUBE™ WIRE ROPE TREATMENT / LUBRICANT

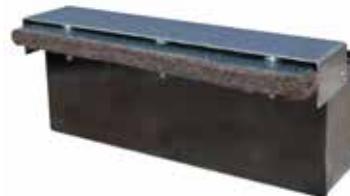
Part Number	Description
ELHWR-DRAKALUBE	DrakaLube wire rope treatment / lubricant, one gallon jug

DrakaLube wire rope treatment / lubricant has been specifically formulated to fight bending stresses, high groove pressures and moisture. DrakaLube has additives that protect against corrosion, wear and most importantly, it can also displace moisture in the rope core.



## ROPE OILERS FOR ELEVATOR HOIST ROPES, ESCALATOR CHAINS AND SELECTOR TAPES

Part Number	Description
ELHMIS-100	Automatic oiler, with 9" wick
ELHMIS-102	Automatic oiler, with 12" wick
ELHMIS-103	Extension bracket, for rope oiler
ELHMIS-103A	Replacement wick, for all size rope oilers
ELHMIS-103B	Replacement wick, 1/2" x 6 1/2" x 12"



The rope oiler lubricates by electrostatic attraction and requiring only minimal wick adjustment after installation.

## FEATURES

- Automatically lubricates rope for increased rope and sheave life
- Has an adjustable oiling rate-wick lock and wick length
- Features a top-fill external oil level indicator

# Whisper-Flex® Compensation Cable

LIFETIME WARRANTY – PATENT NUMBER 4716989

US PATENT 4,716,989

LIFETIME  
WARRANTY

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	Nom. Loop Width inches • mm
20417486	WF 075	0.75 • 1.1	3/16 • 5.5	1.05 • 27	600 • 183	22 • 540
20417557	WF 10	1.0 • 1.5	3/16 • 5.5	1.15 • 29	600 • 183	24 • 610
20417692	WF 15	1.5 • 2.2	1/4 • 7	1.36 • 35	600 • 183	24 • 610
20417693	WF 20	2.0 • 3.0	1/4 • 7	1.50 • 38	520 • 158	26 • 660
20417695	WF 25	2.5 • 3.7	5/16 • 8	1.63 • 41	600 • 183	26 • 660
20417559	WF 30	3.0 • 4.5	5/16 • 8	1.77 • 45	505 • 154	26 • 660
20417558	WF 35	3.5 • 5.2	3/8 • 10	1.91 • 49	600 • 183	27 • 690
20417742	WF 40	4.0 • 6.0	3/8 • 10	2.03 • 52	530 • 162	27 • 690



Whisper-Flex compensation cable provides smooth operation at temperatures of 5° F to 140° F • -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 (per ASME A17.1 - 2013, Rule 2.21.4.2 Compensating Rope Tie-Down).

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 81 - 82 for details on this hardware.

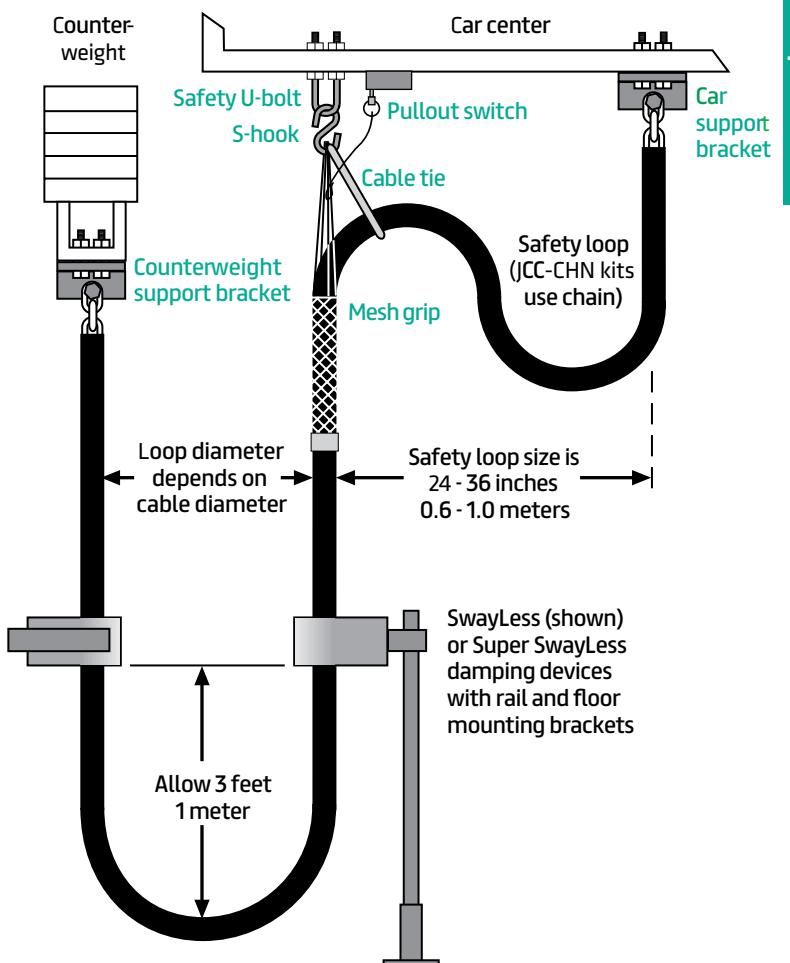
Draka EHC damping devices are recommended to minimize cable sway for car speeds above 350 ft/min • 1.8 m/sec. See pages 83 - 84 for information on these devices.

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

**Draka EHC can help you determine which size of Whisper-Flex or Steadi-Flex cable to use.**

Call 1 877 372 5237 or +1-252-984-5100 and have the following information ready:

- Number of hoist ropes per car
- Outer diameter of the hoist ropes
- Stranding and core of the hoist ropes (i.e. 8x19, 8x25...)
- Car roping (i.e. 1:1, 2:1, other...)
- Number of Whisper-Flex or Steadi-Flex cables per car,
- Length of Whisper-Flex or Steadi-Flex cable needed.



## STRIPPING SERVICE 1½ OR 3½ LINKS EXPOSED

Part Number	Description
000000000000104899	Cable with 1-1/2 links stripped at one end
000000000000104900	Cable with 3-1/2 links stripped at one end



The Whisper-Flex/Steadi-Flex strip kit makes preparing compensation cables easy. See page 101 for details.

1877 372 5237

 prysmian

# Stedi-Flex® Compensation Cable

LIFETIME WARRANTY – USE WITH SIDE COUNTERWEIGHTS AND LONG (> 400 FT • 122 M) HANG LENGTHS

US PATENT 7610944 • EUROPEAN PATENT 1721859

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	Dynamic Loop Width* inches • mm
20417741	SFC 15	1.5 • 2.2	1/4 • 7	1.39 • 35	600 • 183	46 • 1170
20417751	SFC 20	2.0 • 3.0	1/4 • 7	1.56 • 40	520 • 158	47 • 1200
20417744	SFC 25	2.5 • 3.7	5/16 • 8	1.67 • 42	600 • 183	48 • 1220
20417752	SFC 30	3.0 • 4.5	5/16 • 8	1.82 • 46	505 • 154	49 • 1250
20417753	SFC 35	3.5 • 5.2	3/8 • 10	1.91 • 49	600 • 183	50 • 1270
20417743	SFC 40	4.0 • 6.0	3/8 • 10	2.04 • 52	530 • 162	50 • 1270



Stedi-Flex compensation cable is a wide-loop version of our standard Whisper-Flex compensation cable. Because of its wider natural loop, Stedi-Flex cable can be positioned closer to the car's centerline. This improves car balance and ride quality for installations with side counterweights and long hang lengths (over 400 ft • 122 m).

It provides smooth operation at temperatures of 23° F to 140° F • -5° C to +60° C and can be used for elevators with rated speeds up to 700 ft/min • 3.56 m/sec (per ASME A17.1 - 2013, Rule 2.21.4.2 Compensating Rope Tie-Down).

Support brackets, U-bolts, S-hooks and heavy duty couplings specifically designed for Stedi-Flex cable must be used to ensure safe installations. Installation hardware (JCC-XX-CHN) is recommended for use with Stedi-Flex. See pages 81 - 82 for details on this hardware.

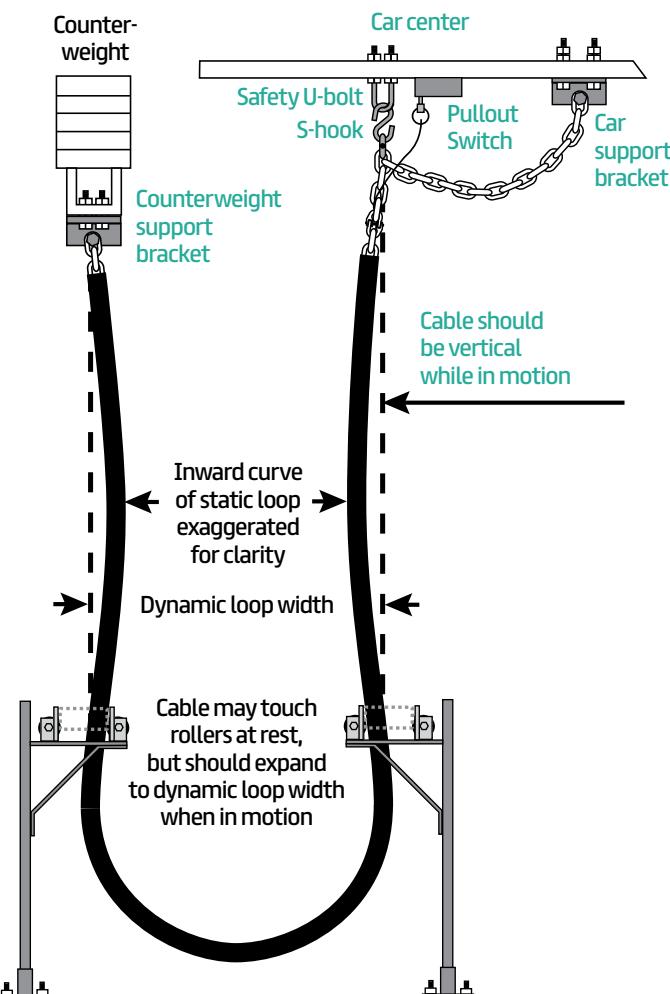
Draka EHC's Super SwayLess (p/n WF-RDD4) damping device is recommended for use with Stedi-Flex to minimize cable sway for car speeds above 350 ft/min (1.8 m/sec). See page 84.

## STEADI-FLEX INSTALLATION AND THE DYNAMIC LOOP WIDTH

When choosing Stedi-Flex, give special consideration to the dynamic loop width. The dynamic loop width is the width of the loop when the cable is in motion and will vary with car speed, distance between support points and other factors. The static loop width will be up to 10" smaller. Position the attachment points and damping devices per the dynamic loop width in the above table. At rest, the cable should touch the damping device inside rollers; in motion, the loop will expand.

**Stedi-Flex is NOT a one-for-one replacement for Whisper-Flex.** Pit dimension and possible obstructions should be considered when specifying Stedi-Flex. Counterweight and car attachment points should be spaced to match the dynamic loop width.

Refer to the Draka EHC Compensation Cable Installation Guide for exact instructions on installation procedures.



## STRIPPING SERVICE 1-1/2 OR 3-1/2 LINKS EXPOSED

Part Number	Description
000000000000104899	Cable with 1-1/2 links stripped at one end
000000000000104900	Cable with 3-1/2 links stripped at one end



The Whisper-Flex/Steadi-Flex strip kit makes preparing compensation cables easy. See page 101 for details.

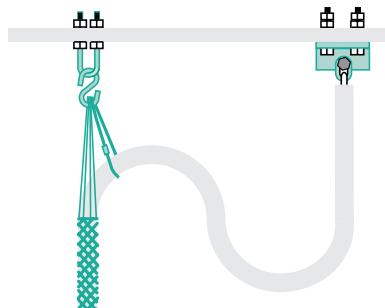
# Compensation Cable Installation Kits

## INSTALLATION KITS FOR WHISPER-FLEX & STEADI-FLEX

### JCC KITS FOR WHISPER-FLEX IN STANDARD PITS (IMPERIAL COMPONENTS)

Part Number	For Use on Cables	U-bolt Size	S-hook Part No.	Mesh grip Part No.	Electrical Tape Part No.
ELKJCC-10	WF 075 and WF 10	3/8 in.	79-011	024-20-1504	16-005
ELKJCC-15	WF 15	3/8 in.	79-013	024-20-1470	16-005
ELKJCC-20	WF 20	3/8 in.	79-013	024-20-1510	16-005
ELKJCC-25	WF 25	3/8 in.	79-016	024-20-1510	16-005
ELKJCC-30	WF 30	3/8 in.	79-016	024-20-1499	16-005
ELKJCC-35	WF 35	3/8 in.	79-016	024-20-1499	16-005
ELKJCC-40	WF 40	3/8 in.	79-016	024-20-1542	16-005

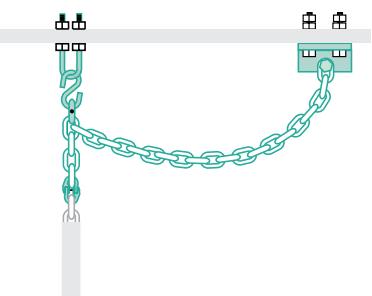
JCC installation kits contain two Support Brackets (includes grade 8 nuts, bolts, lockwashers and hardened washers), one U-bolt (includes nuts and washers), one S-hook, one mesh grip, electrical tape and one cable tie.



### JCC-CHN KITS FOR STEADI-FLEX (AND WHISPER-FLEX IN SHALLOW PITS)

Part Number	For Use on Cables	U-bolt Size	S-hook Part No.	Coupling Quantity/Size	Chain Size
ELKJCC-10-CHN	WF 075 WF 10	3/8 in.	79-011	(1) 9/32 in.	5/16 in.
ELKJCC-20-CHN	WF 15 & 20 SFC 15 & 20	3/8 in.	79-013	(1) 9/32 in.	5/16 in.
ELKJCC-30-CHN	WF 25 & 30 SFC 25 & 30	3/8 in.	79-016	(2) 9/32 in.	3/8 in.
ELKJCC-40-CHN	WF 35 & 40 SFC 35 & 40	3/8 in.	79-016	(1) 9/32 in., (1) 3/8 in.	3/8 in.

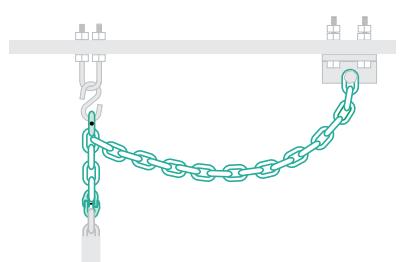
JCC-CHN installation kits contain two Support Brackets (includes grade 8 nuts, bolts, lockwashers and hardened washers), one U-bolt (includes nuts and washers) and one S-hook. JCC-CHN kits also include one or two couplings and a 4 ft. length of chain to form the safety/adjustment loop.



### COUPLING KITS FOR SHALLOW PITS

Part Number	For Use on Compensation Cable	Chain Size	Coupling Quantity and Size
ELKWF-20-CPLG	WF 075/SFC 15 & 20	5/16 in.	(1) 9/32 in.
ELKWF-30-CPLG	WF/SFC 25 & 30	3/8 in.	(2) 9/32 in.
ELKWF-40-CPLG	WF/SFC 35 & 40	3/8 in.	(1) 9/32 in., (1) 3/8 in.

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.



#### IMPORTANT NOTE ON SAFETY AND WARRANTY FOR WHISPER-FLEX AND STEADI-FLEX:

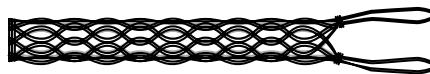
These components are specifically designed for the installation of Whisper-Flex/Steadi-Flex cables. ONLY THE S-HOOK, MESH GRIP AND COUPLINGS ARE AVAILABLE SEPARATELY. USE OF OTHER HARDWARE (non-Draka EHC components) COULD SERIOUSLY JEOPARDIZE THE SAFETY OF THE WHISPER-FLEX OR STEADI-FLEX CABLE INSTALLATION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

# Compensation Cable Installation Hardware

USED IN WHISPER-FLEX AND STEADI-FLEX INSTALLATION KITS

## STAINLESS STEEL MESH GRIP – DOUBLE EYE/DOUBLE WEAVE/CLOSED MESH

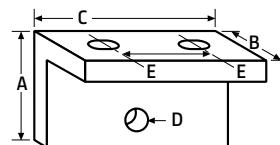
Part Number	For use on Cables	Eye Length inches • mm	Nom. Mesh Length inches • mm	Maximum Load lbs • kg
ELH024-20-1504	WF 075, WF 10	12.0 • 305	14.0 • 356	1200 • 545
ELH024-20-1470	WF 15	12.0 • 305	15.0 • 381	1640 • 745
ELH024-20-1510	WF 20, WF 25	12.0 • 305	17.0 • 432	1660 • 755
ELH024-20-1499	WF 30, WF 35	12.0 • 305	19.0 • 483	1800 • 818
ELH024-20-1542	WF 40	12.0 • 305	21.0 • 533	1800 • 818



Maximum load is based on minimum breaking strength with a 5:1 safety factor.

## SUPPORT BRACKET – TWO REQUIRED

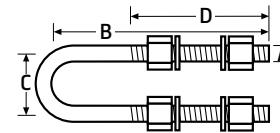
Part Number	For use on Cables	Overall Size (AxBxC) in • mm	Hole D Dia. in • mm	Slot Size in • mm	Slot E to E in • mm
n/a	WF 075 WF 10	3x3x5 • 76x76x127	3/8 • 9.5	1/2 x 7/8 • 13 x 22	2-5/8 • 66.7
n/a	WF/SFC 15 to WF/SFC 30	3x3x5 • 76x76x127	7/16 • 11	1/2 x 7/8 • 13 x 22	2-5/8 • 66.7
n/a	WF/SFC 35 to WF/SFC 40	3x3x5 • 76x76x127	1/2 • 13	1/2 x 7/8 • 13 x 22	2-5/8 • 66.7



Support brackets are sold as part of the JCC kits and cannot be ordered separately.

## STEEL U-BOLT – ONE REQUIRED

Part Number	For use on Cables	Dim. A in • mm	Dim. B in • mm	Dim. C in • mm	Dim. D in • mm	Maximum Load* lbs • kg
n/a	WF 075, WF 10 WF/SFC 15 to WF/SFC 40	3/8 • 9.5	4-3/4 • 121	2-7/8 • 73	3 • 76	2200 • 998

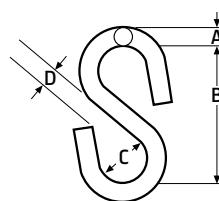


U-bolts are sold as part of the JCC kits and cannot be ordered separately.

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

## STEEL S-HOOK – ONE REQUIRED – AVAILABLE FOR INDIVIDUAL REPLACEMENT

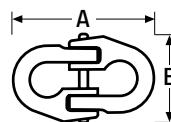
Part Number	For use on Cables	Dim. A in • mm	Dim. B in • mm	Dim. C in • mm	Dim. D in • mm	Yield Strength lbs • kg
ELH79-011	WF 075, WF 10	3/8 • 9.5	2-3/8 • 60	3/4 • 19	17/32 • 14	1200 • 544
ELH79-013	WF/SFC 15 to WF/SFC 20	3/8 • 9.5	2-3/4 • 70	3/4 • 19	1/2 • 13	2400 • 1088
ELH79-016	WF/SFC 25 to WF/SFC 40	17/32 • 13.5	3 • 76	1 • 25	19/32 • 15	4800 • 2177



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 as shown in the Draka EHC Compensation Cable Installation Guide.

## COUPLING – ONE OR TWO REQUIRED FOR JCC-CHN INSTALLATION – SEE PAGE 81

Part Number	For use on Cables	For Chain Size in • mm	Dim. A in • mm	Dim. B in • mm	Working Load Limit lbs • kg
ELH79-116	WF 075 to 30	9/32 • 7	2-17/32 • 64	15/16 • 23	4300 • 1950
ELH79-117	WF/SFC 35 to 40	3/8 • 10	3-7/16 • 87	2-3/8 • 60	8800 • 4000



### IMPORTANT NOTE ON SAFETY AND WARRANTY FOR WHISPER-FLEX AND STEADI-FLEX:

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 EHC components) COULD SERIOUSLY JEOPARDIZE THE SAFETY OF THE WHISPER-FLEX OR STEADI-FLEX CABLE INSTALLATION AND WILL VOID ANY WARRANTY.**

# Compensation Cable Accessories

SWAYLESS® DAMPING DEVICE FOR WHISPER-FLEX WITH SPEEDS UP TO 500 FT/MIN • 2.54 M/SEC

## US PATENT 6234277, EURO PATENT 1177150

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

Two SwayLess devices are required per installation. The WF-SRD-M metric version uses metric nuts and bolts for closure and attachment. Mounting brackets are sold separately (below). Use only with Whisper-Flex cables. DO NOT use with Steadi-Flex cables.

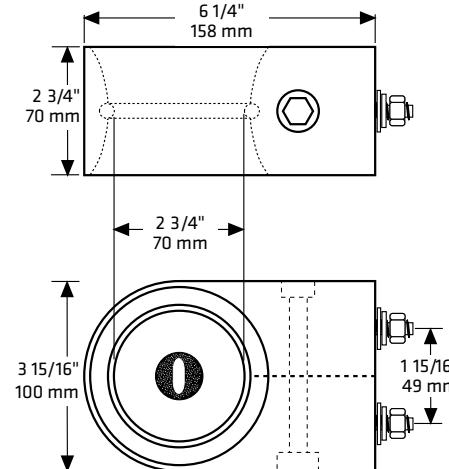
WF-SRD SwayLess damping devices are recommended for maintaining smooth operation of Whisper-Flex compensation cables for speeds of up to 500 feet/min • 2.54 m/sec.

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 damping device is not usually required but can be used for speeds less than 350 feet/min • 1.78 m/sec. Proper installation requires that compensation cable should not contact the ring of the damping device when the cable is stationary. Cable must be centered within the holes.

As the car and counterweight move, the damping device keeps the compensation cable in position for optimum operation.

The WF-SRD can be used for Whisper-Flex sizes WF075 to WF30. Draka EHC offers mounting brackets for easy installation in the elevator pit. Consult the Draka EHC Compensation Cable Installation Guide for the installation of damping devices.

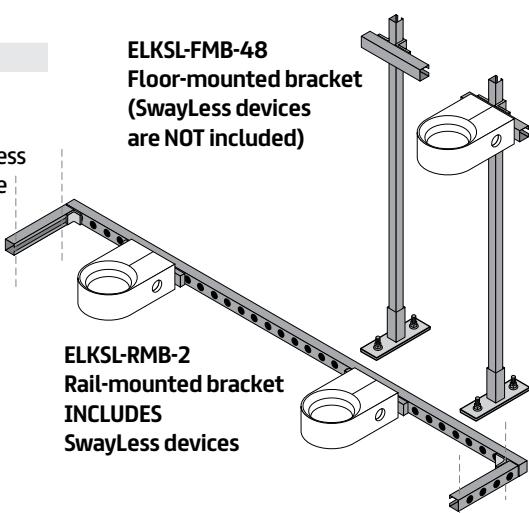
For shallow pits not allowing three feet height above cable loop, please call Draka EHC for engineering assistance.



## SWAYLESS MOUNTING BRACKETS

Part Number	Description
ELKSL-FMB-48	(2) floor-mounted brackets, adjustable to 48 in. • 1.2 m height
ELKSL-FMB-2	(2) floor-mounted brackets, adjustable to 48 in. • 1.2 m height, includes (2) SwayLess devices
ELKSL-RMB-60	Counterweight rail-mounted bracket, adjustable to 60 in. • 1.5 m width
ELKSL-RMB-2	Counterweight rail-mounted bracket, adjustable to 60 in. • 1.5 m width, includes (2) SwayLess devices

These brackets are specially 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, bolts and anchors.



# Compensation Cable Accessories

SUPER SWAYLESS® DAMPING DEVICE FOR SPEEDS UP TO 700 FT/MIN • 3.56 M/SEC

## SUPER SWAYLESS WITH LARGER ROLLERS

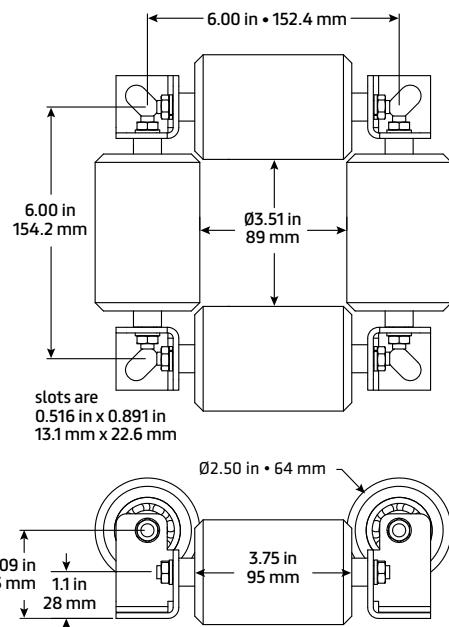
Part Number	Application	Overall Dimensions in • mm	Mounting Hole Dia. in • mm	Quantity
ELHWF-RDD4	Whisper-Flex, Stedi-Flex	8 x 8 x 3.1 • 203 x 203 x 79	1/2 • 13	1
ELHISOLATION PADS	Replacement pads	1.5 X 1.5 • 38.1 X 38.1	1/2 • 13	4

The new Super SwayLess WF-RDD4 is designed for use on any size Whisper-Flex® or Steadi-Flex® compensating cable. It is recommended for smooth compensating cable operation for speeds up to 700 ft/min (3.56 m/sec).

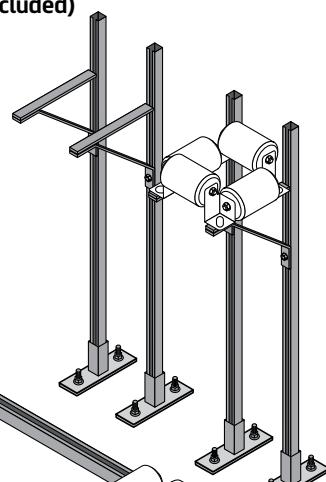
Larger free-turning nylon rollers have been engineered with a bigger shaft for increased durability. The increased size of the rollers also permits quieter operation. Grease-filled high-strength bearings are built to handle the higher pressures and impact of Steadi-Flex cables.

This enhanced design uses the formed steel mounting brackets from the earlier version of the Super SwayLess for simpler installation and cushioned isolation pads to reduce vibration noise.

Two Super SwayLess devices are required per cable. Mounting brackets are sold separately (below).



**ELKSSL-FMB-48**  
Floor-mounted bracket  
(Super SwayLess devices  
are NOT included)



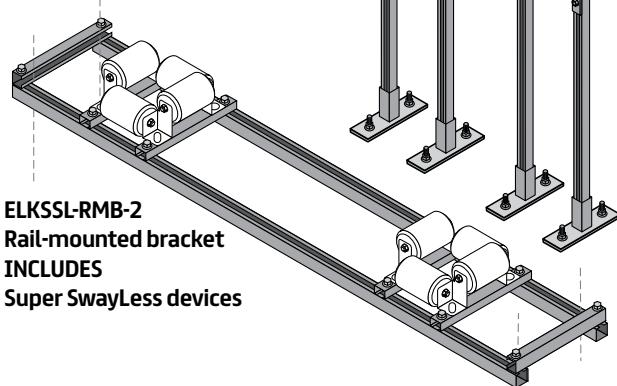
## SUPER SWAYLESS MOUNTING BRACKETS

Part Number	Description
ELKSSL-FMB-48	(2) floor-mounted brackets, adjustable to 48 in. • 1.2 m height, order WF-RDD4 separately
ELKSSL-RMB-72	Counterweight rail-mounted bracket, adjustable to 72 in. • 1.8 m width, order WF-RDD4 separately
ELKSSL-RMB-2	Counterweight rail-mounted bracket, adjustable to 72 in. • 1.8 m width, includes (2) WF-RDD4 devices

These brackets are specially 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, bolts and anchors.

Two Super SwayLess damping devices are required per installation. These devices are sold separately (above).



# Compensation Cable Accessories

SHALLOWSWAYLESS® FOR SPEEDS UP TO 700 FT/MIN • 3.56 M/SEC AND PULLOUT SWITCH KIT

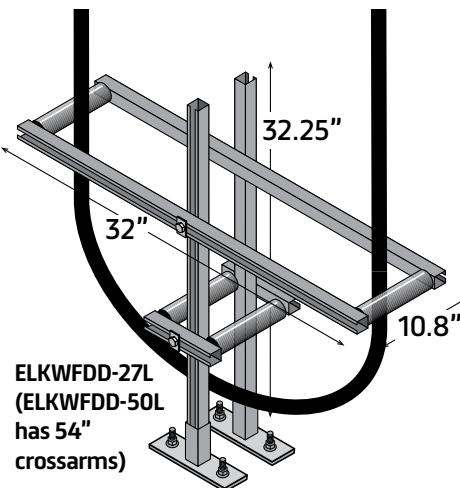
## SHALLOWSWAYLESS DAMPING DEVICE

Part Number	Description
ELKWFDD-27L	ShallowSwayless kit, for Whisper-Flex cable with maximum loop of 27 inches
ELKWFDD-50L	ShallowSwayless kit, for Steadi-Flex cable with maximum loop of 50 inches

The ShallowSwayless is a sway reduction device for shallow pit applications where there is insufficient pit depth for SwayLess or Super SwayLess devices. It reduces compensation 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.

NOTE: The ShallowSwayless is ONLY for shallow pit applications. To determine if a ShallowSwayless is required, note that compensating cable must remain vertical as it passes through the SwayLess or Super SwayLess damping devices. If this is not possible, even when the damping device is mounted at the compressed buffer height and the cable loop is within 6 inches of the pit floor, there is insufficient pit depth and the ShallowSwayless should be used.

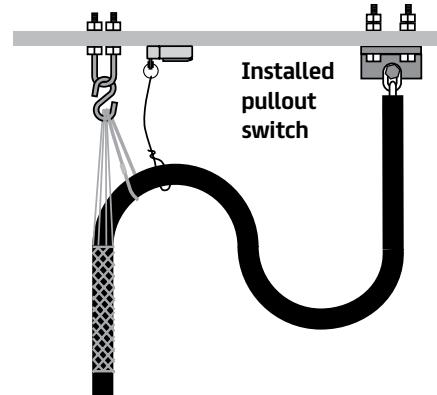
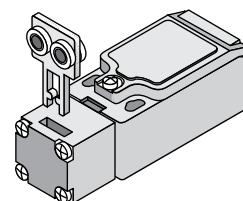
The kit includes all components shown, including mounting bolts, washers and anchors.



## PULLOUT SWITCH & INSTALLATION KIT (POSK)

Part Number	Description
ELK36-207A	Pullout switch, with flat key actuator, rotating head and M16 to 1/2 inch NPT adapter
ELKWF-POSK	Pullout switch installation kit, which includes one pullout switch (#36-207A), 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

The pullout switch is UL and C-UL listed and conforms to EN60947-5-1 and EN50047. The switch enclosure meets IP65.





# Components and Systems



Seismic detection equipment	87	Victaulic hydraulic valves, fittings and reducers	91
Rail mounting hardware	88	Hydraulic accessories - coolers, silencers, etc.	93
Deflecting sheaves	90	Light curtains	95

# Seismic Detection Equipment

NOW RoHS COMPLIANT

## EVENT MONITORING DEVICE (EMD) SEISMIC DETECTOR



Part Number	Description
ELHDRK-S701-ROHS	EMD seismic detector with relays for external sensors - AC or DC power
ELH30016	Replacement battery for DRK-S701
ELH78-108	Fuse for DRK-S701

The ELKDRK-S701-ROHS EMD detects and measures seismic events and signals elevator controls to take appropriate action based on their magnitude. Properly installed, the EMD will detect a potentially dangerous seismic event and alert the controller to stop the car at the nearest floor to discharge the passengers. It can also be connected to the Draka EHC 'Ring-on-a-String' 'counterweight displacement sensor.

While the EMD is highly flexible and can be configured for various applications, its three main functions are to 1) detect a seismic event and trip a latching and non-latching relay (referenced as an Alarm Event Trigger), 2) detect an internal failure and trip a latching relay (referenced as a Trouble Event Trigger), and 3) detect an event from an auxiliary sensor and trip a latching relay (referenced as an Auxiliary Event Trigger).



## FEATURES

- Economical and easy to install – mount it, level it and turn it on
- Can also be custom programmed
- Auxiliary interface for counterweight displacement device
- Uses either 110/220VAC or 12/24VDC power
- Battery backup time approx. 18 hrs on 1 rechargeable battery and up to 36 hrs on two
- Troubleshoots itself and displays trouble codes
- Advanced dual-sensor technology prevents false alarms
- MRL safe – Remote reset and test eliminates hoistway visits

## APPROVALS

Evaluated in accordance with ANSI/ASME A17.1 2013-10-21 and A17.5 2011-03-01.

Also evaluated in accordance with CAN/CSA B44, and B44.1. The EMD is CE and RoHS compliant.

## COUNTERWEIGHT DISPLACEMENT KIT ('RING-ON-A-STRING')

Select either CDH-R8 or CDH-R12:

ELKCDH-R8	Counterweight displacement kit, mounts to T89 (8 lbs.) guide rails - Cable (CDH-L500, CDH-L1000 or CDH-L1500) is ordered separately - see below
ELKCDH-R12	Counterweight displacement kit, mounts to T127 (12 lbs.) guide rails - Cable (CDH-L500, CDH-L1000 or CDH-L1500) is ordered separately - see below

Then select either CDH-L500, CDH-L1000 or CDH-L1500:

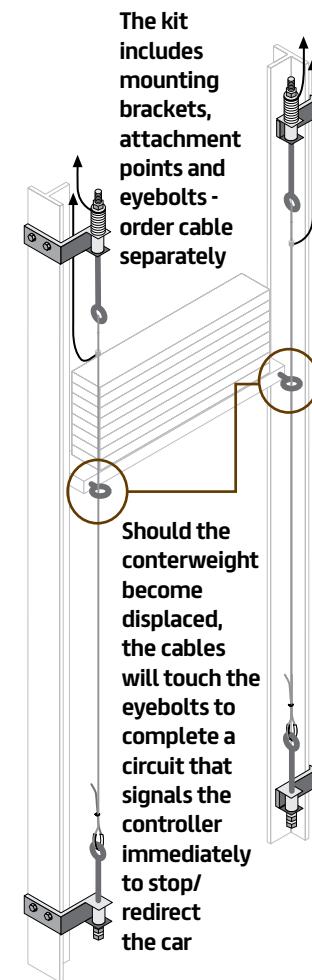
ELKCDH-L500	Cable, 500 ft • 152 m length, 1/16 in. • 1.6 mm diameter, with 4 thimbles and 8 clips (use for up to 250 ft • 71 m of rise)
ELKCDH-L1000	Cable, 1000 ft • 304 m length, 1/16 in. • 1.6 mm diameter, with 4 thimbles and 8 clips (use for up to 500 ft • 152 m of rise)
ELKCDH-L1500	Cable, 1500 ft • 456 m length, 1/16 in. • 1.6 mm diameter, with 4 thimbles and 8 clips (use for up to 750 ft • 223 m of rise)

These are replacement parts:

ELWVE0332LUIAO	Replacement cable, cut to length, does not include attachment hardware, please specify length
ELH79-103	Replacement thimble, for 1/16 in. • 1.6 mm cable attachment
ELH79-104	Replacement wire rope clip, for 1/16 in. • 1.6 mm cable attachment

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.

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 in half and installed on both rails.



# Rail Mounting Hardware

## RAIL BRACKETS

Part Number	Description	Adjustable Range Distance from Wall
ELH9743A-1	Small (1/4 in.) rail bracket assembly, with rail clips	2-1/4 to 3-1/4 in.
ELH9743A-2	Small (1/4 in.) rail bracket assembly, with rail clips	3 to 4-3/4 in.
ELH9750A-1	Small (1/4 in.) rail bracket assembly, without rail clips	2-1/4 to 3-1/4 in.
ELH9750A-2	Small (1/4 in.) rail bracket assembly, without rail clips	3 to 4-3/4 in.
ELH9745A-1	Large (5/16 in.) rail bracket assembly, with rail clips	4 to 6-3/4 in.
ELH9745A-2	Large (5/16 in.) rail bracket assembly, with rail clips	5-3/4 to 8-1/8 in.
ELH9745A-3	Large (5/16 in.) rail bracket assembly, with rail clips	7-1/2 to 10-1/4 in.
ELH9749A-1	Large (5/16 in.) rail bracket assembly, without rail clips	4 to 6-3/4 in.
ELH9749A-2	Large (5/16 in.) rail bracket assembly, without rail clips	5-3/4 to 8-1/8 in.
ELH9749A-3	Large (5/16 in.) rail bracket assembly, without rail clips	7-1/2 to 10-1/4 in.



Rail brackets with rail clips also include locking plates for seismic areas.

Rail brackets without rail clips do not include rail clip fasteners.

Neither bracket includes wall fasteners.

12 and 15 lb. brackets use 5/8 in. fasteners.

Assemblies with rail clips for 8 lb. rail are a special order and include a correctly-sized locking plate and 1/2 in. fasteners.

## RAIL CLIPS

Part Number	Description
ELH55-012	Forged rail clip, for 8 lb. rail, uses 1/2 in. fasteners
ELH55-013	Forged rail clip, for 12 lb. rail, uses 5/8 in. fasteners
ELH55-014	Forged rail clip, for 15 lb. rail, uses 5/8 in. fasteners



## RAIL BRACKET SHIMS

Part Number	Size	Thickness	Cutout(s)
ELH55-020	8 x 2 in.	.030 in.	11/16 in.
ELH55-021	8 x 2 in.	.060 in.	11/16 in.
ELH55-022	8 x 2 in.	.105 in.	11/16 in.
ELH55-023	9-3/8 x 2 in.	.030 in.	13/16 in.
ELH55-024	9-3/8 x 2 in.	.060 in.	13/16 in.
ELH55-025	9-3/8 x 2 in.	.105 in.	13/16 in.
ELH55-026	3 x 2 in.	.015 in.	13/16 in.



# Rail Mounting Hardware

CONCRETE/MASONRY INSERTS ARE DESIGNED TO ASTM A17.1

## CONCRETE / MASONRY INSERTS

Part Number	Description	Seismic Zone	Allowable Maximum 2-bolt Connections	Allowable Maximum Point Loads	Allowable Maximum Shear and Slip Loads*
INSERT-12	Insert, 12 in. long	0 and 1	2,000 lbs (1) load pair	1,370 lbs (1) point load	1,040* lbs per bolt (1) connection
ELHINSERT-18	Insert, 18 in. long	0 and 1	2,000 lbs (1) load pair	1,370 lbs (2) point load	1,040* lbs per bolt (2) connection
ELHINSERT-24	Insert, 24 in. long	0 and 1	2,000 lbs (2) load pair	1,370 lbs (3) point load	1,040* lbs per bolt (2) connection
ELHINSERT-30	Insert, 30 in. long	0 and 1	2,000 lbs (2) load pair	1,370 lbs (3) point load	1,040* lbs per bolt (3) connection
ELHINSERT-36	Insert, 36 in. long	0 and 1	2,000 lbs (3) load pair	1,370 lbs (3) point load	1,040* lbs per bolt (3) connection
ELHINSERT-48	Insert, 48 in. long	0 and 1	2,000 lbs (4) load pair	1,370 lbs (4) point load	1,040* lbs per bolt (4) connection

Max. load pair for standard inserts is limited to 2,000 lb. regardless of the number of load pairs used per insert.

\*Shear and slip loads can be increased to 1,500 lbs/bolt if a 16 in. tall by (insert length + 10 in.) block opening is used.

ELHINSERT-30



## HEAVY DUTY CONCRETE / MASONRY INSERTS

Part Number	Description	Seismic Zone	Allowable Maximum 2-bolt Connections	Allowable Maximum Point Loads	Allowable Maximum Shear and Slip Loads*
INSERT-HD-12	Insert, 12 in. long	2 to 4	2,760 lbs (1) load pair	1,900 lbs (1) point load	1,040* lbs per bolt (1) connection
INSERT-HD-18	Insert, 18 in. long	2 to 4	2,760 lbs (1) load pair	1,900 lbs (2) point load	1,040* lbs per bolt (2) connection
ELHINSERT-HD-24	Insert, 24 in. long	2 to 4	2,760 lbs (2) load pair	1,900 lbs (3) point load	1,040* lbs per bolt (2) connection
ELHINSERT-HD-30	Insert, 30 in. long	2 to 4	2,760 lbs (2) load pair	1,900 lbs (3) point load	1,040* lbs per bolt (3) connection
ELHINSERT-HD-36	Insert, 36 in. long	2 to 4	2,760 lbs (3) load pair	1,900 lbs (3) point load	1,040* lbs per bolt (3) connection
ELHINSERT-HD-48	Insert, 48 in. long	2 to 4	2,760 lbs (4) load pair	1,900 lbs (4) point load	1,040* lbs per bolt (4) connection

Max. load pair for HD inserts is limited to 2,760 lb. regardless of the number of load pairs used per insert.

\*Shear and slip loads can be increased to 1,500 lbs/bolt if a 16 in. tall by (insert length + 10 in.) block opening is used.

ELHINSERT-HD-30



## NOTES FOR INSERTS AND INSERT-HDS:

- Allowable loads at S.F. = 3.0
- Minimum required grout strength = 3,000 psi with a min. air dry density = 110pcf.
- Min. required bolt spacing for load pairs = 6 in.
- Min. spacing between multiple load pairs = 12 in. as used on 24 in. through 48 in. inserts.
- Min. required spacing between point loads = 12 in.
- All connections require use of 1/2 in. through 3/4 in. strut nuts placed a min. of 2 in. from the end of the insert.
- Recommended bolt torques: 1/2 in. = 50 ft/lbs, 5/8 and 3/4 in. = 100 ft/lbs (3/8 in. thick anchor recommended).
- Required min. end distance from end of insert to edge of grout = 3 in. (required block opening = insert length + 6 in.).
- Required min. edge distance from centerline of insert to top and bottom edge of grout = 4 in. (8 in. tall min. block opening required).
- 5 in. min. end distance, 8 in. min. edge distance.
- Strut cross-sectional measurements are 1-5/8 x 1-5/8 in.

## INSERT SPRING NUTS

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



# Deflecting Sheaves/Pulleys

ASSEMBLED - INCLUDES AXLE FOR KEEPER PLATES

## T235 DEFLECTING SHEAVES – WITH FIXED OR DISMOUNTABLE AXLES

Part Number	Sheave dia. mm	Wire rope mm	Number of grooves/groove face width mm	Sheave width mm	Max. static load kg
G320308x	320	8.0	3 / 60	120	1580
G320408x	320	8.0	4 / 77	120	2100
G320508x	320	8.0	5 / 94	144	2600
G320608x	320	8.0	6 / 111	144	3200
G360308x	360	8.0 - 9.0	3 / 60	120	1580
G360408x	360	8.0 - 9.0	4 / 77	120	2100
G360508x	360	8.0 - 9.0	5 / 94	144	2600
G360608x	360	8.0 - 9.0	6 / 111	144	3200
G400309x	400	9.0 - 10.0	3 / 60	120	1900
G400409x	400	9.0 - 10.0	4 / 77	120	2500
G400509x	400	9.0 - 10.0	5 / 94	144	3100
G400609x	400	9.0 - 10.0	6 / 111	144	3700
G450309x	450	9.0 - 11.0	3 / 60	120	2350
G450409x	450	9.0 - 11.0	4 / 77	120	3100
G450509x	450	9.0 - 11.0	5 / 94	144	3900
G450609x	450	9.0 - 11.0	6 / 111	144	4700
G500309x	500	9.0 - 12.0	3 / 60	120	2350
G500409x	500	9.0 - 12.0	4 / 77	120	3100
G500509x	500	9.0 - 12.0	5 / 94	144	3900
G500609x	500	9.0 - 12.0	6 / 111	144	4700
G550309x	550	9.0 - 11.0	3 / 60	120	2350
G550409x	550	9.0 - 11.0	4 / 77	120	3100
G550509x	550	9.0 - 11.0	5 / 94	144	3900
G550609x	550	9.0 - 11.0	6 / 111	144	4700
G550312x	550	12.0 - 13.0	3 / 94	144	3100
G550412x	550	12.0 - 13.0	4 / 94	144	4200
G550512x	550	12.0 - 13.0	5 / 111	144	5200
G550612x	550	12.0 - 13.0	6 / 130	164	6300

For FIXED AXLES, replace the 'x' in the part number with F (i.e. G550612F)

For DISMOUNTABLE AXLES, replace the 'x' in the part number with S (i.e. G550612S)

Sizes up to 750 mm diameter are available – please call for details.



# Hydraulic Ball Valves & Pipe Fittings

BY VICTAULIC®

## SERIES 726 - GROOVED BALL VALVES

Part Number	Description/Size
ELHHOGBV15	Ball valve, 1-1/2 in.
ELHHOGBV20	Ball valve, 2 in.
ELHHOGBV25	Ball valve, 2-1/2 in.
ELHHOGBV30	Ball valve, 3 in.
ELHHOGBV40	Ball valve, 4 in.



## #10 - 90° ELBOW

Part Number	Description/Size
ELHHO90E15	90° elbow, 1-1/2 in.
ELHHO90E20	90° elbow, 2 in.
ELHHO90E25	90° elbow, 2-1/2 in.
ELHHO90E30	90° elbow, 3 in.
ELHHO90E40	90° elbow, 4 in.



## STYLE 77 - FLEXIBLE COUPLINGS

Part Number	Description/Size
ELHHOFC015	Flexible coupling, 1-1/2 in.
ELHHOFC020	Flexible coupling, 2 in.
ELHHOFC025	Flexible coupling, 2-1/2 in.
ELHHOFC030	Flexible coupling, 3 in.
ELHHOFC040	Flexible coupling, 4 in.
ELHHOFC080	Flexible coupling, 8 in.



## #11 - 45° ELBOW

Part Number	Description/Size
F014011P00	45° elbow, 1-1/2 in.
F020011P00	45° elbow, 2 in.
F024011P00	45° elbow, 2-1/2 in.
F030011P00	45° elbow, 3 in.
F040011P00	45° elbow, 4 in.



## STYLE 77 - COUPLING GASKET

Part Number	Description/Size
ELHHONGT15	Nitrile gasket, 1-1/2 in.
ELHHONGT20	Nitrile gasket, 2 in.
ELHHONGT25	Nitrile gasket, 2-1/2 in.
ELHHONGT30	Nitrile gasket, 3 in.
ELHHONGT40	Nitrile gasket, 4 in..



## #12 - 22.5° ELBOW

Part Number	Description/Size
F020012P00	22.5° elbow, 2 in.
F024012P00	22.5° elbow, 2-1/2 in.
F030012P00	22.5° elbow, 3 in.
F040012P00	22.5° elbow, 4 in.



## HP-70 - RIGID COUPLINGS

Part Number	Description/Size
ELHHORC020	Rigid coupling, 2 in.
ELHHORC025	Rigid coupling, 2-1/2 in.
ELHHORC030	Rigid coupling, 3 in.
ELHHORC040	Rigid coupling, 4 in.



## #13 - 11.25° ELBOW

Part Number	Description/Size
F020013P00	11.25° elbow, 2 in.
F024013P00	11.25° elbow, 2-1/2 in.
F030013P00	11.25° elbow, 3 in.
F040013P00	11.25° elbow, 4 in.



## #50 - CONCENTRIC REDUCER

Part Number	Description/Size
ELHHOCR215	Concentric reducer, 2 x 1-1/2 in.
ELHHOCR252	Concentric reducer, 2-1/2 x 2 in.
ELHHOCR320	Concentric reducer, 3 x 2 in.
ELHHOCR325	Concentric reducer, 3 x 2-1/2 in.
ELHHOCR420	Concentric reducer, 4 x 2 in.
ELHHOCR425	Concentric reducer, 4 x 2-1/2 in.
ELHHOCR430	Concentric reducer, 4 x 3 in.



## #20 - TEE

Part Number	Description/Size
F020060P00	Tee, 2 in.
F024060P00	Tee, 2-1/2 in.
F030060P00	Tee, 3 in.
F040060P00	Tee, 4 in.



## #60 - CAP FITTING

Part Number	Description/Size
ELHHOCAP20	End cap, 2 in.
ELHHOCAP25	End cap, 2-1/2 in.
ELHHOCAP30	End cap, 3 in.
ELHHOCAP40	End cap, 4 in.



# Hydraulic Accessories

BY VICTAULIC®

## VAPS112

Part Number	Description
R000112PS0	Pipe support

Designed for supporting pipe to be roll grooved

Four adjustable legged portable self-standing unit

Turnstile design allows pipe to be spun around for grooving of both pipe ends without dismounting pipe from stand

Trough design allows for rotational and forward/transverse movement



## PT100A GO/NO-GO TAPE

Part Number	Description
RW75-100-MCH	Go / No-Go gauge tape

Go/No-Go pocket-sized steel tapes are available for taking circumferential measurements on pipe sizes 3/4 in. to 24 in. / DN20 - DN600.

Tape contains Go/No-Go markings on one side for use with 3/4 in. to - 24 in. / DN20 - DN600 pipe in ANSI B36.19 and many ISO-4200 sizes and is marked in 1/100th of an inch increments on the other side.

The Go/No-Go side can be used to check cut or roll grooved pipe conformance to Victaulic original and Machined for Rubber Lining (ABR) (3/4 in to 12 in. / DN20 - DN300) and Advanced Groove System (AGS™) (14 in. to 24 in. / DN35 - DN600) groove diameter specifications.

Tapes are notched on the lead end to allow proper overlap within the groove for more accurate measurement.

The Go/No-Go side of the tape is not intended for use on sizes 76.1, 139.7, 165.1, 165.2, 216.3, 267.4, and 318.5 mm steel pipe sizes. For the steel pipe sizes listed above, use the side of the tape marked in 0.01 in. increments.

The Go/No-Go pipe tape is a quick reference guide only. To ensure proper grooving dimensions, always refer to the 1-100 Victaulic® Field Installation Handbook or to the latest groove specifications publications located on [www.victaulic.com](http://www.victaulic.com).



# Hydraulic Accessories

## ISOLATION COUPLINGS, MUFFLERS, RUPTURE VALVES & CUSHION CLAMPS

### ISOLATION COUPLINGS BY EECO

Part Number	Description	Size
ELH2060A-1	Grooved to grooved coupling	2 in.
ELH2060A-2	Grooved to National Pipe Thread (NPT) coupling	2 in.
ELH2060A-3	NPT to NPT coupling	2 in.
ELH2070A-1	Grooved to grooved coupling	2-1/2 in.
ELH2070A-2	Grooved to NPT coupling	2-1/2 in.
ELH2070A-3	NPT to NPT coupling	2-1/2 in.
ELH2080A-1	Grooved to grooved coupling	3 in.
ELH2080A-2	Grooved to NPT coupling	3 in.
ELH2080A-3	NPT to NPT coupling	3 in.



### MUFFLERS BY EECO

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



### RUPTURE VALVES

Part Number	Description	Flow Rate/Max. Pressure
ELHPRV-2-NPT	Pipe rupture valve, 2 in. - NPT	111 to 208 GPM / 1200 PSI
ELHPRV-2-GRV	Pipe rupture valve, 2 in. - Grooved	111 to 208 GPM / 1200 PSI
ELHPRV-25-NPT	Pipe rupture valve, 2-1/2 in. - NPT	209 to 318 GPM / 1000 PSI
ELHPRV-25-GRV	Pipe rupture valve, 2-1/2 in. - Grooved	209 to 318 GPM / 1000 PSI
ELHPRV-3-NPT	Pipe rupture valve, 3 in. - NPT	319 to 546 GPM / 800 PSI
ELHPRV-3-GRV	Pipe rupture valve, 3 in. - Grooved	319 to 546 GPM / 800 PSI



### CUSHION CLAMPS FOR HYDRAULIC PIPE

Part Number	Description	Pipe Trade Size
FS-1400P-075	Cushion clamp	3/4
ELHFS-1400P-150	Cushion clamp	1-1/2
ELHFS-1400P-200	Cushion clamp	2
ELHFS-1400P-250	Cushion clamp	2-1/2
ELHFS-1400P-300	Cushion clamp	3
ELHFS-1400P-400	Cushion clamp	4



# Hydraulic Accessories

## SILENCERS, OIL COOLER, SILENCERS, PRESSURE SENSORS & PIPE STANDS

### SILENCER BY MINNESOTA ELEVATOR

Part Number	Description
ELHMEI-19317	Silencer, 220 max. GPM, fits 2 x 2 in. grooved coupling 13-1/4 L x 4-5/8 in. O.D., 28 lbs, rated to 1000 PSI
ELHMEI-19319	Silencer, 360 max. GPM, fits 2-1/2 x 3 in. grooved coupling, 13-1/4 L x 4-5/8 in. O.D., 28 lbs, rated to 1000 PSI
ELHMEI-19316	Silencer, 100 max. GPM, fits 2 x 2 in. grooved coupling, 13-1/4 L x 3-7/8 in. O.D., 28 lbs, rated to 1000 PSI
ELHMEI-19318	Silencer, 325 max. GPM, fits 2-1/2 x 2-1/2 in. grooved coupling, 13-1/4 L x 4-5/8 in. O.D., 28 lbs, rated to 1000 PSI



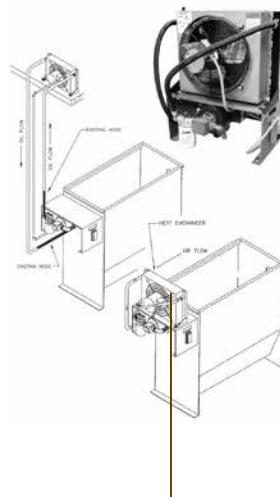
The MEI Silencer uses a bladder system with air pressure to reduce excessive noise that may be generated by a hydraulic system.

### OIL COOLER BY MINNESOTA ELEVATOR – COMPONENTS CSA CERTIFIED

Part Number	Description
ELHMEI-10248	Oil cooler, with filter

The MEI Oil Cooler reduces the oil temperature by nearly 40° F • 22° C, (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.

Remote installations should not exceed 110 ft • 33.5 m horizontal or 55 ft • 17.5 m vertical from tank.



### PIPE STAND – ADJUSTABLE TO 22" HEIGHT

Part Number	Description	Pipe Trade Size
ELHPIPE22-15	Pipe stand	1-1/2
ELHPIPE22-2	Pipe stand	2
ELHPIPE22-25	Pipe stand	2-1/2
ELHPIPE22-3	Pipe stand	3
ELHPIPE22-4	Pipe stand	4



# Light Curtains

BY WECO & FORMULA SYSTEMS

## WECO 957P LIGHT CURTAINS



### Part Number

ELHWECO-957P

### Description

WECO 957P light curtain pair, cables, mounting hardware and power supply

The ELHWECO 957P light curtain is an economical light curtain that can be installed universally for both center opening and side opening doors, with or without nudging. Unlike competing units, the power unit and all mounting hardware is included.

Installation is fast and simple – it is designed to attach to either the door or the wall with equal ease. The 957P's elements are quickly plugged into the 120VAC power supply (also included). The TX and RX cables are identical, making mis-plugging them impossible.

The units are 78.75 inches • 2 meters tall and create a curtain using 94 crossbeams that work even in sunlight.

The ELHWECO 957P complies with appropriate CE and cCSAus specifications.



## FEATURES

- Works for both center opening and side slide doors
- Meets CE and cCSAus standards
- Power supply with and without nudging is included (unlike some competitors who sell them separately)
- Easy to install - all hardware included
- Cables are true traveling cables and are TX/RX interchangeable
- Economical
- In stock and quickly delivered

## FORMULA SYSTEMS' SAFESCREEN



### Part Number

ELHFDS-0547US05

### Description

SafeScreen light curtain/interface, 1.18 x 0.78 in. • 30 x 20 mm profile with 47 beam paths, interface is selectable 115/230VAC, signal output is volt-free changeover relay contacts, FPS-0271US01 universal interface and installation kit included.

ELHFEXT-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.

SafeScreen is cULus listed and ANSI/ASME A171/A17.5 / CSA B44/B44.1 compliant.





# Tools and Hardware



Jacket and sock strippers	97	WAGO tools	101
Wire strippers	98	Wire and reel organization	102
Crimpers and cutters	99	Guide rail alignment gauges	102
Wire rope cutting and measuring	100	Drill bits, door wedges and saw blades	103
Compensation cable stripping kits	101	Electrical hardware	104
Swaging tools and punches	101	Fasteners	107
Conduit benders	101	Strut	109

# Tools

## JACKET & SOCK STRIPPERS

### FLEXIPEELER™ ROUND CABLE STRIPPER

Part Number	Description
ELH36-060	FlexiPeeler, for cable dia. 0.2 to 1.5 in. • 4.5 to 40 mm, one replacement blade included
ELH36-061	Replacement blade

The FlexiPeeler precisely cuts a jacket with rotary, straight lengthwise and spiral cuts. Two quickly switched hooks permit its use on cables from 0.2 in. to 1.5 in. • 4.5 to 40 mm in diameter. Cut depth is adjustable. A replacement blade is included in the handle.



### SUPER PEELER ROUND CABLE STRIPPER

Part Number	Description
ELH36-146	Super Peeler, for cable dia. 3/4 to 1-1/4 in. • 19 to 32 mm
ELH36-147	Super Peeler, for cable dia. 1-1/4 to 2 in. • 32 to 51 mm
ELH36-148	Replacement blade, for both versions

Easy to calibrate and use, these unique cable 'peelers' allow you to precisely score round traveling cable jackets for fast removal without nicking the conductors underneath. By turning the dial, the spring-loaded blade on either stripper can be adjusted to a scoring depth of .05 to .14 in • 1.27 to 3.56 mm.



### FCJ FLAT CABLE STRIPPER

Part Number	Description
ELH36-135-M1	FCJ Stripper
ELH36-138	Replacement blades, package of six
ELH36-139-M1	Replacement blade guide

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.



### SOCK SLICER™

Part Number	Description
ELH36-177	Sock Slicer braid cutter

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



# Tools

## WIRE STRIPPERS

### QUICKSTRIP

Part Number	Description
ELH017-05-0001	Draka EHC QuickStrip wire stripper, self-adjusting, 'black' cartridge included
ELH017-05-0002	'Black' blade cartridge, straight blade, for PVC insulation, 34 - 8 AWG
ELH017-05-0004	'Red' blade cartridge, straight blade, for PVC insulation, 10 - 5 AWG
ELH017-05-0003	'Blue' blade cartridge, V-blade, for PTFE (Teflon) insulation, 28 - 12 AWG

The Draka EHC QuickStrip is a self-adjusting stripping tool that is lightweight but strong and is equally suitable for both high volume production and field usage. It permits fine insulation to be stripped without damaging the conductors. The ergonomic design ensures comfort in the shop or field.



### AUTOMATIC WIRE STRIPPER

Part Number	Description
ELH36-219	Automatic wire stripper, for 22 to 10 AWG
ELH36-220	Replacement blades, one pair



### MANUAL WIRE STRIPPER

Part Number	Description
ELH37-177	Wire stripper, for 26 to 16 AWG



# Tools

## CRIMPERS & CUTTERS

### DRAKA EHC QUICKCRIMP

Part Number	Description
ELH017-5-0005	QuickCrimp, ratchet-style, tool only (no dies)
ELH017-5-0006	Die set, for 26 - 22 AWG and 12 - 10 AWG green and yellow insulated terminals and splices
ELH017-5-0007	Die set, for 22 - 14 AWG red and blue insulated terminals and splices
ELH017-5-0008	Die set, for 22 - 10 AWG non-insulated terminals, lugs and splices
ELH017-5-0009	Die set, for 24 - 8 AWG insulated and non-insulated wire ferrules
ELH017-5-0010	Die set, for 26 - 12 AWG power contacts

The Draka EHC QuickCrimp handles a wide range of crimping applications.

Interchangeable dies enable the user to tackle wire sizes from 26 to 8 AWG with one tool. Ergonomic design provides comfort while rugged construction delivers durability.



### CRIMPING TOOL

Part Number	Description
ELH36-097	Crimping tool, for bare or insulated terminals and splices for wire sizes 22 - 10 AWG



### ROTO-FLEX™ CONDUIT CUTTER

Part Number	Description
ELH36-216	Flex conduit cutter, for 1/2 to 3/4 in. conduit
ELH36-218	Replacement blade, one



### STEEL CORE CUTTER

Part Number	Description
ELH36-178	Steel core cutter

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 tool belt.



### IMPACT CUTTER

Part Number	Description
ELHWR-IMPACT	Impact-style wire rope cutter, Morse-Starrett 101, for wire rope sizes up to 3/4 in. • 19 mm



### HYDRAULIC CUTTER

Part Number	Description
ELHWR-HYDRAULIC	Hydraulic-style wire rope cutter, Morse-Starrett W-075, for wire rope sizes up to 3/4 in. • 19 mm



### RATCHET CUTTER

Part Number	Description
ELHWR-RATCHET	Ratchet-style wire rope cutter, Cooper Tools 8690 TN, for wire rope sizes up to 3/4 in. • 19 mm



### ROPE GAUGE

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



If the rope fits in the groove, or if a rope with rouge fits the stepped groove, retire the rope. Measurements based on ASME 17.6. Machined aluminum.

### QUICK-BALANCE TENSION METER

Part Number	Description
ELHWR-QBTM-2	Wire rope tension measurement meter, 10000 lb/45 kN/4500 kg range



The Quick-Balance tension meter can be attached to a rope, used to measure tension and removed in just seconds. The digital load cell assures accuracy of up to +/- 3%.

The meter is shipped from the factory with 1/2 in. • 12.7 mm, 9/16 in. • 14 mm and 5/8 in. • 16 mm diameter calibrations (other diameters are available by special order). The included sheave set accommodates wire diameters of 1/4 in. to 3/4 in.

### DIGITAL CALIPER WITH CASE

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



# Tools

## COMPENSATION CABLE STRIPPING KITS, SWAGING TOOLS & PUNCHES, CONDUIT BENDERS, WAGO TOOLS

### WHISPER-FLEX & STEADI-FLEX STRIP KIT

Part Number	Description
ELHWF-STRP	Strip kit, with instructions

This kit includes angle mounting bracket (already assembled), clamps, nippers, utility knife, cable jacket cutter, hacksaw and gloves for use in preparing the end of all Draka EHC compensation cables. Carrying case included. Other tools required but not included are 3/4 in. wrench and flathead screwdriver.



### SWAGING TOOL, FERRULES & STOPS

Part Number	Description
ELH36-143	Swaging tool
ELH36-145	3/32 in. • 2 mm ferrules, 2 ferrules/2 stops
ELH36-144	1/8 in. • 3 mm ferrules, 2 ferrules/2 stops

This bolt cutter-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 in. • 3 mm diameter.



### GREENLEE KNOCKOUT PUNCHES

Part Number	Description
ELH36-008	1/2 to 1-1/4, one per package
ELH36-009	1-1/2 to 2, one per package

For use with junction boxes found on page 49.



### CONDUIT BENDER

Part Number	Description
ELH36-002	Conduit bender with handle, for 1/2 in. EMT, 4 in. inside bending radius
ELH36-001	Conduit bender with handle, for 3/4 in. EMT, 5 in. inside bending radius
ELH36-000	Conduit bender with handle, for 1 in. EMT, 6 in. inside bending radius
ELH36-214	Conduit bender with handle, for 1-1/4 in. EMT, 9 in. 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.



### WAGO TOOLS

Part Number	Description
ELH210-720	Screwdriver, with partially insulated shaft
ELH285-172	Universal T-tool, for use with high-current terminal blocks
ELH210-658	Operating tool, with partially isolated shaft, blade 3.5 x 0.5 mm, particularly suitable for actuator and sensor terminal blocks



# Tools

## WIRE / REEL ORGANIZATION & GUIDE RAIL ALIGNMENT

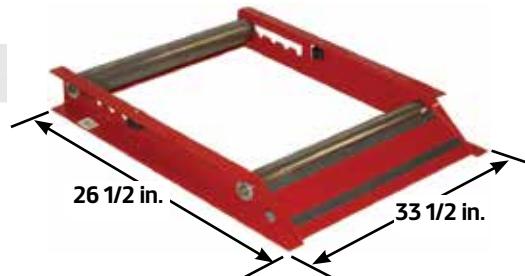
### WIRE CADDY

Part Number	Description
ELH36-221	Hand wire caddy



### REEL ROLLER

Part Number	Description
ELH36-222	Reel roller, for up to 30 in. reels, 2,000 lbs. capacity, 26 1/2 L X 33 1/2 W X 4 1/2 T in., 50 lbs. weight



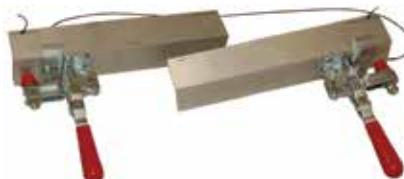
### GUIDE RAIL ALIGNMENT GAUGES

Part Number	Description
ELHDRAKA-RAG-001	Rail alignment gauges, pair of clamp-style gauges, hard-shell case included

Draka EHC's easy-to-use rail alignment gauges are the perfect tool for ensuring that your elevator guide rails are properly installed. Clamp the gauges to the rails directly across from each other (the clamps are adjustable depending on rail thickness). This straightens the alignment string like a plumb line.

If you can see the line through the precisely-machined viewing holes, the rails are aligned.

If you can't, then adjust the rails while the gauges are attached to confirm proper alignment.



# Tools

## DRILL BITS, SAW BLADES & DOOR WEDGES

### DRILL BITS

Part Number	Description
ELH36-003	3/8 x 6 in. masonry bit
ELH36-042	1/2 x 6 in. masonry bit
ELH36-004	1/4 in. masonry carbide bit
ELH36-037	1/8 in. high-speed bit
ELH36-041	1/4 in. high-speed bit
ELH36-014	5/16 in. high-speed bit
ELH36-007	3/8 in. high-speed bit
ELH36-040	#7 high-speed bit
ELH36-039	#21 high-speed bit
ELH36-038	#29 high-speed bit



### HOLE SAWS

Part Number	Description
ELH36-080	7/8 in. hole saw
ELH36-084	1 in. hole saw
ELH36-081	1-1/8 in. hole saw
ELH36-086	1-1/4 in. hole saw
ELH36-099	2 in. hole saw
ELH36-047	2-1/8 in. hole saw
ELH36-049	2-7/8 in. hole saw



### HOLE SAW ARBORS

Part Number	Description
ELH36-083	9/16 to 1-3/16 in. hole saw arbor
ELH36-048	1-1/4 to 6 in. hole saw arbor



### HACKSAW BLADES

Part Number	Description
ELH36-006	32 teeth/in. hacksaw blade



### DOOR WEDGE

Part Number	Description
ELHMIS-DW-T2	Door wedge safety tool, for use on single-slide, center-opening, or two-speed hoistway door systems with sill grooves at least 7/16 in. wide



# Hardware for Electrical Work

UL LISTED, CSA CERTIFIED AS NOTED

## NYLON-INSULATED BUTT SPLICES



Part Number	Size AWG	Quantity	Color
ELH21-001	22 - 18	1	Red
ELH21-002	16 - 14	1	Blue
ELH21-002-BAG	16 - 14	100	Blue
ELH21-009	12 - 10	1	Yellow
ELH21-009-BAG	12 - 10	100	Yellow



## SCOTCHLOK® COMPONENTS



Part Number	Size AWG	Quantity	Color
ELH22-000	18 - 14	1	Style 560 - blue
ELH22-000-BAG	18 - 14	100	Style 560 - blue
ELH22-001	22 - 16	1	Style 557 pigtail - red
ELH22-001-BAG	22 - 16	100	Style 557 pigtail - red
ELH22-020	22 - 16	1	Style 558 tap - red
ELH22-020-BAG	22 - 16	100	Style 558 tap - red
ELH22-021	12 - 10	1	Style 562 tap - yellow



## WIRE NUTS



Part Number	Size AWG	Quantity	Color
ELH22-004	18 - 10	1	76B - red
ELH22-005	18 - 12	1	74B - yellow
ELH22-003	22 - 14	1	73B - orange
ELH22-010	22 - 14	1	72B - blue
ELH22-009	22 - 16	1	71B - grey
22-009-BAG	22 - 16	100	71B - grey



## LEVER NUTS



Part Number	Size AWG	Quantity	Color
ELH22-413	28 - 14	1	3-pole Cage Clamp connection
ELH22-415	28 - 14	1	5-pole Cage Clamp connection



# Hardware for Electrical Work

UL LISTED, CSA CERTIFIED AS NOTED

## WIRE JOINTS



Part Number	Description	Quantity
ELH22-031	Wire joint, min. 2 #24, max. 2 #16	1
2ELH2-031-BAG	Wire joint, min. 2 #24, max. 2 #16	100
ELH22-032	Wire joint, min. 4 #18, max. 2 #12	1
ELH22-032-BAG	Wire joint, min. 4 #18, max. 2 #12	100



## CABLE TIES & MOUNTING BASE



Part Number	Length Inches	Quantity	Max. Width Inches
ELH23-001	4.0	1	.095
ELH23-004	6.1	1	.141
ELH23-002	8.0	1	.185
ELH23-002-BAG	8.0	100	.185
ELH23-012	11.1	1	.141
ELH23-012-BAG	11.1	100	.141
ELH23-003	14.9	1	.275
ELH23-013	30.7	1	.275
ELH23-032*	Mounting Base	1	.19
ELH23-032-BAG*	Mounting Base	100	.19



\*Mounting base is UR rated and not UL listed.

## WIRE MARKER CARDS & DISPENSERS

Part Number	Description
ELH25-001	Wire marker cards, nos. 1 - 33
ELH25-003	Wire marker cards, nos. 34 - 66
ELH25-005	Wire marker cards, nos. 67 - 99
ELH25-006	Wire marker dispenser



# Hardware for Electrical Work

UL LISTED, CSA CERTIFIED AS NOTED

## MECHANICAL LUGS



Part Number	Wire Size / Hole Size AWG
ELH17-002	14-6 / #10
ELH17-005	1/0-4/0 / 3/8 in.
ELH17-001	8-2 / 1/4 in.
ELH17-031	14-6 / 3/8 in.
ELH17-032	4-2/0 / 3/8 in.



## COMPRESSION LUGS



Part Number	Wire Size / Hole Size AWG
17-019	1/0 / 3/8 in.
ELH17-034	2/0 / 3/8 in.
ELH17-035	3/0 / 3/8 in.
ELH17-036	4/0 / 3/8 in.
ELH17-015	1 / 3/8 in.
ELH17-020	2 / 3/8 in.
ELH17-021	4 / 3/8 in.
ELH17-037	6 / 3/8 in.
ELH17-022	8 / 3/8 in.
17-008	1 / 1/2 in.



## FEMALE DISCONNECTS



Part Number	Type and Size AWG
20-004	#22-18 non-insulated .110 x .032 in.
ELH20-047	#22-18 insulated .110 x .032 in.



## TAPE



Part Number	Description
ELH16-006	All Tape 3/4" Wide
ELH16-007	#33 black electrical, 66 ft.
ELH16-008	#35 white electrical, 66 ft.
ELH16-009	#35 red electrical, 66 ft.
ELH16-010	#35 blue electrical, 66 ft.
ELH16-011	#35 green electrical, 66 ft.
ELH16-012	#35 yellow electrical, 66 ft.
ELH16-013	#35 orange electrical, 66 ft.
ELH16-014	#35 brown electrical, 66 ft.
ELH16-002	Friction, 60 ft.
ELH16-003	Rubber, 22 ft.
ELH16-005	#1700 electrical, 60 ft.



Use these tools for crimping. See page 99 for details.

#017-5-0005 Draka EHC QuickCrimp



#36-097 Crimping tool



## RING TERMINALS

Part Number Wire Size / Type AWG

ELH20-015	22-18 insulated - red #6 ring - 1
ELH20-015-BAG	22-18 insulated - red #6 ring - 100
ELH20-026	22-18 non-insulated #8 ring - 1
ELH20-002	22-18 insulated - red #10 ring - 1
ELH20-001	18-14 non-insulated #10 ring - 1
ELH20-003	16-14 insulated - blue #10 ring - 1
ELH20-003-BAG	16-14 insulated - blue #10 ring - 100
ELH20-113	16-14 insulated - blue #8 ring - 1



## FORK TERMINALS

Part Number Wire Size / Type AWG

ELH20-012	22-18 non-insulated #6 fork - 1
ELH20-048	22-18 insulated - red #6 fork - 1
ELH20-019	22-18 insulated - red #8 fork - 1
ELH20-019-BAG	22-18 insulated - red #8 fork - 1
ELH20-016	16-14 insulated - blue #6 fork - 1
ELH20-017	16-14 insulated - blue #8 fork - 1
ELH20-017-BAG	16-14 insulated - blue #8 fork - 100
ELH20-018	16-14 insulated - blue #10 fork - 1



## SPLIT BOLT CONNECTORS

Part Number Wire Size / Type AWG

ELH17-041	1-3/0
ELH17-046	2-6
ELH17-073	4-8
ELH17-086	10-12



## LIGHTS AND ELECTRICAL

Part Number Description

ELH36-070	Rough service bulbs, 100 watt, package of 60
ELH37-001	Porcelain fixture, with collar and pull chain
ELH37-021	Plastic cage
ELH36-033	Drop light with cage and hook, 25 ft. cord
ELH36-034	Drop light with cage and hook, 50 ft. cord
ELH37-178	GFCI with cover, 125VAC, 15A

# Fasteners

## ROUND-HEAD NUTS & SCREWS

Part Number	Description
ELH26-005	Round-head nuts and screws, 1/4 x 3/4 in.
ELH26-001	Round-head nuts and screws, 1/4 x 1 in.
ELH26-002	Round-head nuts and screws, 1/4 x 1-1/4 in.
ELH26-003	Round-head nuts and screws, 1/4 x 1-1/2 in.
ELH26-004	Round-head nuts and screws, 1/4 x 2 in.



## WASHERS

Part Number	Description
ELH54-003	Flat washers, 1/4 in.
ELH54-001	Flat washers, 3/8 in.
ELH55-009	Flat washer, 1/2 in.
ELH55-005	Flat washers, 5/8 in.
ELH54-002	Lock washers, 1/4 in.
ELH59-004	Lock washers, 3/8 in.
ELH55-010	Lockwashers, 1/2 in.
ELH55-006	Lockwashers, 5/8 in.
ELH54-061	Fender washers, 3/8 x 1-1/2 in



## HEX NUTS

Part Number	Description
ELH55-001	Hex nuts, 1/4 in.
ELH55-002	Hex nuts, 3/8 in.
ELH55-008	Hex nuts, 1/2 in.
ELH55-003	Hex nuts, 5/8 in.



## NAIL-INS

Part Number	Description
ELH24-001	Nail-ins, 1/4 x 1 in.
ELH24-025	Nail-ins, 1/4 x 1-1/2 in.



Standard fasteners are grade 2, zinc-coated.

## LEAD ANCHORS

Part Number	Description
ELH24-004	Lead anchors, 3/8 in.
ELH24-002	Lead anchors, 1/4 in.



## TOGGLE BOLTS

Part Number	Description
ELH36-035	Toggle bolts, 1/4 x 3 in.
ELH36-223	Toggle bolts, 1/4 x 4 in.



## HEX-HEAD BOLTS

Part Number	Description
ELH36-036	Hex-head bolt, 1/4 x 1 in.



## THREADED ROD & COUPLINGS

Part Number	Description
ELH44-017	Threaded rods, 3/8 in. x 6 ft.
ELH44-099	Threaded rods, 3/8 in. x 10 ft.
ELH09-051	Threaded couplings, 3/8 in.



## CAP SCREWS

Part Number	Description
ELH59-088	Cap screws, 1/4-20 x 3/4 in., G2HH
ELH54-131	Cap screws, 1/4-20 x 1 in., G2HH
ELH55-043	Cap screws, 3/8-16 x 3/4 in., G2HH
ELH59-121	Cap screws, 1/2-13 x 1 in., G2HH
ELH59-122	Cap screws, 1/2-13 x 2 in., G2HH



Standard fasteners are grade 2, zinc-coated.

# Strut

## STRUT

Part Number	Description
ELH44-338	14-gauge strut, holes one side, 13/16 in. x 1-5/8 in. x 120 in.
ELH44-339	12-gauge strut, holes one side, 1-5/8 in. x 1-5/8 in. x 120 in.
ELH44-340	12-gauge strut, holes three sides, 1-5/8 in. x 1-5/8 in. x 120 in.

Draka EHC also carries other strut configurations and sizes. Call for details.



## NUTS

Part Number	Description
ELH44-021	1/4 in. spring nut, for 1-5/8 in. strut
ELH44-064	5/16 in. spring nut, for 1-5/8 in. strut
ELH44-014	3/8 in. spring nut, for 1-5/8 in. strut
ELH44-023	1/2 in. spring nut, for 1-5/8 in. strut
ELH44-024	1/4 in. spring nut, for 13/16 in. strut
ELH44-018	3/8 in. spring nut, for 13/16 in. strut
ELH44-072	1/2 in. spring nut, for 13/16 in. strut
ELH44-058	1/4 in. nut, for all strut
ELH44-059	3/8 in. nut, for all strut
ELH44-057	1/2 in. nut, for all strut



## CONNECTORS

Part Number	Description
ELH44-341	Two-hole corner connector
ELH44-342	Three-hole corner connector
ELH44-343	Four-hole corner connector
ELH44-347	Five-hole corner connector
ELH44-344	Eight-hole two-way wing connector



## STRAPS

Part Number	Description
ELH44-002	1/2 in. EMT strap, for all strut
ELH44-009	3/4 in. EMT strap, for all strut
ELH44-003	1 in. EMT strap, for all strut
ELH44-019	1-1/4 in. EMT strap, for all strut
ELH44-012	1-1/2 in. EMT strap, for all strut
ELH44-004	2 in. EMT strap, for all strut
ELH44-030	2-1/2 in. EMT strap, for all strut





# Maintenance & Safety



LED elevator lighting systems	111	Door gibs & fire tabs	118
Inspection stations & stop switches	114	Spirators & alarm bells	119
Pendant stations	115	Barricades, grips & signage	120
Top of Car (TOC) safety rails	116	Pit safety kits, car escape latch switches	121
Hoistway safety (HOSS™)	117	& exhaust fans	

# LED Lighting Systems

## FOUR REASONS WHY i2Systems' LEDs ARE THE WAY TO LIGHT YOUR CAB

### EFFICIENCY – MORE LIGHT WITH LESS POWER

Since their inception, LEDs have always been remarkably efficient at around 8% of power converted to lumens. While other types of lamps use 13 to 40 watts per lamp to produce ANSI-mandated levels of illumination, an i2Systems LED uses as little as 4 watts to produce as many as 200 lumens. A standard installation of an Apeiron LTE+ fifth generation LED six-lamp package for a 2000 - 3500 lbs. capacity cab exceeds ANSI A17.1-2007 standards for illumination by a substantial amount.

### LONGEVITY – 4X TO 20X MORE LIFE THAN CFLS AND HALOGEN

Longevity is another i2Systems advantage. LEDs from i2Systems last four times longer than a fluorescent lamp and twenty times longer than a halogen lamp. Not only is that a substantial saving in material, it's a big savings in labor when replacing bulbs and ballasts. And as 'green' mandates become more and more prevalent, that also means fewer special disposal problems for 'dirty' burnt-out lamps.

### INSTALLED COST – THEY PAY FOR THEMSELVES

i2Systems fifth generation LED cab lighting is not only within reach of any modernization budget, it is also the undisputed leader in installed and maintained cost. Based on energy savings alone, LEDs from i2Systems typically pay back the cost of installation in under one year (not including government rebates for energy efficient products).



### LIGHT COLOR AND QUALITY –

### WARM AND BRIGHT BEATS GREEN AND FLICKERING

It has been shown that people are most comfortable with warm to neutral white light. Lamps from i2Systems are available in warm (3000°K) and bright white (4000°K) colors. And, unlike fluorescents, there is no annoying flicker.

Most important, LEDs from i2Systems are designed to look as good as they work. The Aperion LTE+ puck-style lights come in gold, chrome, brushed nickel and black finishes, and in round and square styles. The Gen5 elevator linear LEDs easily replace up to 20 feet of fluorescent tubes with 12, 18, 24, 36 and 48 inch lengths that offer perfectly focused light that fit the ambience of an elevator cab perfectly.

For cab modernization, the goal is improvement. Puck and linear LEDs from i2Systems are a major improvement over traditional and outdated technologies. Not only do they improve performance, they do it at a best installed and operational cost.



# LED Lighting Systems

## i2Systems APEIRON LTE+ RECESSED LIGHTING

APEIRON LTE+ ROUND & SQUARE DIMMABLE LED LAMPS				UL US LISTED	FC	ANSI	LM 79 TESTED	LM 80 TESTED	RoHS COMPLIANT 2002/95/EC	IGCC COMPLIANT	MADE IN THE USA
Part Number*	Description	Finish	Size and Shape								
ELHA4390Z-11CBBR *	Apeiron LTE+ warm white lamp	Chrome	3 in. diameter round								
ELHA4390Z-11BBD	Apeiron LTE+ neutral white lamp	Chrome	3 in. diameter round								
ELHA4390Z-14CBBR	Apeiron LTE+ warm white lamp	Chrome	3 in. x 3 in. square								
ELHA4390Z-14BBD	Apeiron LTE+ neutral white lamp	Chrome	3 in. x 3 in. square								
ELHA4390Z-21CBBR	Apeiron LTE+ warm white lamp	Gold	3 in. diameter round								
ELHA4390Z-21BBD	Apeiron LTE+ neutral white lamp	Gold	3 in. diameter round								
ELHA4390Z-24CBBR	Apeiron LTE+ warm white lamp	Gold	3 in. x 3 in. square								
ELHA4390Z-24BBD	Apeiron LTE+ neutral white lamp	Gold	3 in. x 3 in. square								
ELHA4390Z-41CBBR *	Apeiron LTE+ warm white lamp	Brushed nickel	3 in. diameter round								
ELHA4390Z-41BBD *	Apeiron LTE+ neutral white lamp	Brushed nickel	3 in. diameter round								
ELHA4390Z-44CBBR	Apeiron LTE+ warm white lamp	Brushed nickel	3 in. x 3 in. square								
ELHA4390Z-44BBD *	Apeiron LTE+ neutral white lamp	Brushed nickel	3 in. x 3 in. square								
ELHA4390Z-61CBBR	Apeiron LTE+ warm white lamp	Black	3 in. diameter round								
ELHA4390Z-61BBD *	Apeiron LTE+ neutral white lamp	Black	3 in. diameter round								
ELHA4390Z-64CBBR *	Apeiron LTE+ warm white lamp	Black	3 in. x 3 in. square								
ELHA4390Z-64BBD	Apeiron LTE+ neutral white lamp	Black	3 in. x 3 in. square								
ELHPS24V45W-E12D	Power supply with dimming										
ELHPS24V45W-E12E	Power supply with dimming and battery backup (two lamps for 4+ hours)										

\*Denotes in-stock and ready to ship models

NOTE: Each power box will power up to 9 lamps.

The Apeiron LTE+ is a premium *dimmable* and cost-effective LED lighting system that outlasts similar halogen lights by a factor of 20. Unlike replacement LED lamps, it is engineered specifically for elevators and uses only 1/5th the energy of a halogen system, yet is affordably priced.

The LTE+ system is literally a snap to install. The handsome lightweight lights click into position with spring clips – no screws are needed. They simply plug into the compact power box (available with an optional 4+ hour battery backup) – no wire nuts or terminals.

The beam is focused for best illumination of the cab and the Color Rendering Index (CRI) is rated at 90+ for a 'true to life' light.

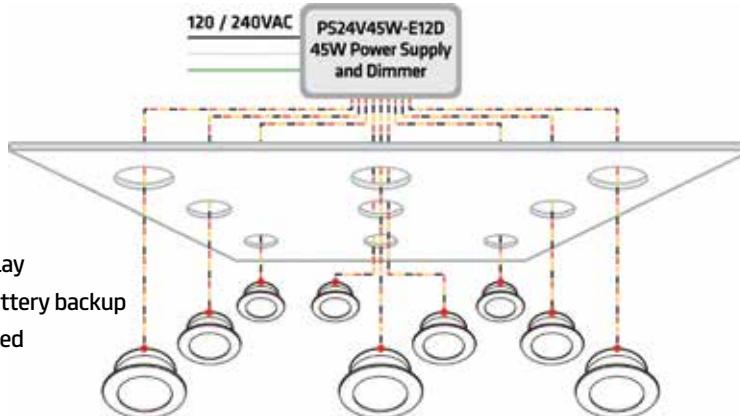
The Apeiron LTE+ is available in either a 3" round or 3" square size. The metal bezel is available in either chrome, gold, brushed nickel or black finishes. Dimmable power units are available with or without battery backup.

Parts listed here are in-stock and ready to ship. Additional models and options are available.

### FEATURES

- 3" round and square designs
- Available in multiple light system kits
- Emergency light operation with 4+ hour backup
- Industry's best color rendering (CRI 90+)
- Simple installation – light clips in, wiring is plug and play
- Lightweight power box with dimming and optional battery backup
- cULus, RoHS, IGCC, uses LM-80 tested LEDs, LM-79 tested
- Made in the USA

NUMBER OF FIXTURES REQUIRED			
Typical Capacity	Soft Light	Standard light	Bright light
2100 lbs	4	6	9
2500 lbs	4	6	9
3000 lbs	6	9	12
3500 lbs	6	9	12



# LED Lighting Systems

## i2Systems Gen5 LINEAR LIGHTING SYSTEMS

### Gen5 LINEAR DIMMABLE LED LAMPS & POWER SUPPLIES

Part Number	Description	Length
ELHS1205B-16BBD	S1205 neutral white lamp	12.43 in • 316 mm
ELHS1205B-16CBB	S1205 warm white lamp	12.43 in • 316 mm
ELHS1205B-86BBD	S1205 neutral white lamp	18.43 in • 468 mm
ELHS1205B-86CBB	S1205 warm white lamp	18.43 in • 468 mm
ELHS1205B-26BBD	S1205 neutral white lamp	24.43 in • 621 mm
ELHS1205B-26CBB	S1205 warm white lamp	24.43 in • 621 mm
ELHS1205B-36BBD	S1205 neutral white lamp	36.43 in • 621 mm
ELHS1205B-36CBB	S1205 warm white lamp	36.43 in • 621 mm
ELHS1205B-48BBD	S1205 neutral white lamp	48.43 in • 1230 mm
ELHS1205B-48CBB	S1205 warm white lamp	48.43 in • 1230 mm
ELHPS24V75W-E01D	Power box	
ELHLL-101-01	LightLink dimmer	



NOTE: Each power box will power up to 20 feet of lamps - plan accordingly,

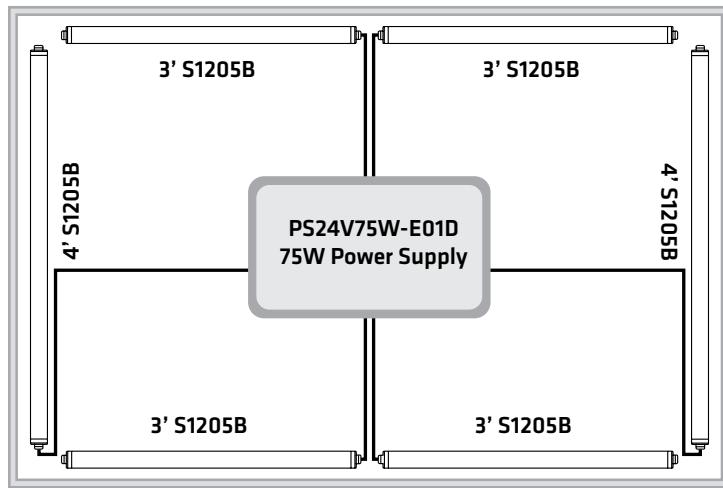
Gen5 lamps are long strips of evenly lit LED covering 12 to 48 inch lengths with a very wide (65°) throw. This eliminates dark spots (socket shadow) between lamps. The Gen5 designation means that these lamps use power more efficiently.

The Gen5 system has been engineered specifically for elevators in that a standard cab uses 20 feet of linear lamps – a single power supply comfortably delivers the necessary wattage. Where dimming is required, simply plug a LightLink dimmer into the power box.

Installation is simple – each lamp has a 6 foot cable that easily plugs into the power box. Adjustable brackets allow the linear lamps to be mounted either flat or pivoted on a drop ceiling.

### FEATURES

- Available in 12, 18, 24, 36 and 48 inch lengths
- Compact 0.75 x 0.75 • 19 mm x 19 mm cross-section
- Industry's best color rendering (CRI 90+)
- Light beam engineered specifically for elevators
- Simple installation – custom mounting brackets, wiring is plug and play
- Lightweight power box with dimming and optional battery backup
- cULus, RoHS, IGCC, uses LM-80 tested LEDs, LM-79 tested
- Made in the USA



### MOUNTING BRACKETS FOR LINEAR LEDS ORDER TWO FOR EACH LAMP

Part Number	Description
ELHSLA-1	Adjustable mounting bracket
ELHSLA-2	Fixed mounting bracket
ELHSLA-3	End mount pivot



# Inspection Stations & Stop Switches

## TOP OF CAR INSPECTION (TOCI) STATIONS

Part Number	Description
ELKTOCI-L	Top of car inspection box, with GFCI receptacle and light fixture/cage
ELKTOCI-LF	Top of car inspection box, with GFCI receptacle, light fixture/cage and fire service light/buzzer indicators
ELKTOCI-LA	Top of car inspection box, with GFCI receptacle, light fixture/cage and audible 6 - 28VDC alarm
ELKTOCI-LFA	Top of car inspection box, with GFCI receptacle, light fixture/cage, fire service light/buzzer indicators and audible 6 - 28VDC alarm
ELHCNTBLK-NO	Additional NO contact block
ELHCNTBLK-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, 125VAC/25A 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

Part Number	Description
ELKEN418-A	Locking stop switch
ELHSLA11NPNC002	Locking stop switch

EN418-A stop switches 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. The EN418-A has one NO and one NC contact.

SLA11NPNC002 stop switches are the same as the EN418-A except they have a single NC contact and zero NO contact.

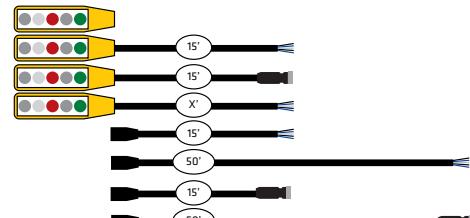


# Pendant Stations

## FIVE-BUTTON PENDANT STATIONS (UP, DOWN, COMMON, LOCKING STOP & TUBULAR KEY SWITCH)

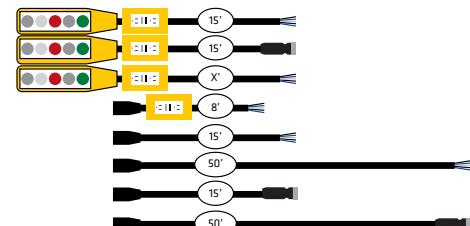
### STANDARD PENDANT STATIONS

Part Number	Description	Cable Length ft • m	Termination(s)
ELKPEND-5B-T	Pendant station	unwired	none
ELPPPEND-5W-T	Pendant station with pigtail	15 • 4.6	loose wires
ELPPPEND-5W-TC	Pendant station with pigtail	15 • 4.6	male
ELPPPEND-5W-TV	Pendant station with pigtail	specify	loose wires
ELPPPEND-15-1	Cable extension	15 • 4.6	female/loose wires
ELPPPEND-50-1	Cable extension	50 • 15.2	female/loose wires
ELPPPEND-15-2	Cable extension	15 • 4.6	female/male
ELPPPEND-50-2	Cable extension	50 • 15.2	female/male
1000123617	Cut-to-length cable	specify	none



### PENDANT STATIONS WITH 125V/20A GFCI

Part Number	Description	Cable Length ft • m	Termination(s)
ELPPPEND-5W-TG	Pendant station with pigtail and GFCI	15 • 4.6	loose wires
ELPPPEND-5W-TGC	Pendant station with pigtail and GFCI	15 • 4.6	male
ELPPPEND-5W-TGV	Pendant station with pigtail and GFCI	specify	loose wires
ELKPEND-8GC-1	Cable extension for PEND-5WG-TC with GFCI	8 • 2.45	female/loose wires
ELPPPEND-15G-1	Cable extension for GFCI versions	15 • 4.6	female/loose wires
ELPPPEND-50G-1	Cable extension for GFCI versions	50 • 15.2	female/loose wires
ELPPPEND-15G-2	Cable extension for GFCI versions	15 • 4.6	female/male
ELPPPEND-50G-2	Cable extension for GFCI versions	50 • 15.2	female/male
1000123581	Cut-to-length cable for GFCI versions	specify	none



PEND-5 series pendant stations are made of high-impact plastic for durability and electrical safety. Keyed lockout and two-handed operation further increase their safe usage. Options include a 15 ft. • 4.6 meter pigtail; GFCI (Ground Fault Circuit Interrupter 120VAC) on the pigtail; connectorized pigtails; and cable extensions of either 15 ft. or 50 ft. • 4.6 m or 15.2 m.



### REPLACEMENT PARTS

Part Number	Description
ELKPEND-8REC	8-conductor replacement receptacle kit, with female connector
ELKPEND-8PLUG	8-conductor replacement receptacle kit, with male connector
ELKPEND-6REC	6-conductor replacement receptacle kit, with female connector
ELKPEND-6PLUG	6-conductor replacement receptacle kit, with male connector
ELKPEND-TUBEKEY	Key switch tubular replacement, with mounting hardware
ELKPEND-UP	Up button replacement, with 1 NO + 1 NC contact blocks and mounting hardware
ELKPEND-DOWN	Down button replacement, with 1 NO + 1 NC contact blocks and mounting hardware
ELKPEND-ENABLE	Common button replacement, with 1 NO contact block and mounting hardware
ELKPEND-STOP	Emergency stop button replacement, with 1 NC contact block and mounting hardware

# Top of Car (TOC) Safety Rails

TOC KITS / CONFORMS TO ASME 17.1 SPECIFICATIONS

## BIG-TOC AND LIL-TOC TOP OF CAR SAFETY RAILS

Part Number	Toe-board Part Number	Description	Opening	Size Range (min > max) Width (in • m)	Depth (in • m)	Weight lbs • kg
ELK100-01	ELK100-01TB	LIL-TOC	front	57 > 82 • 1.45 > 2.08	57 > 82 • 1.45 > 2.08	148 • 67.2
ELK100-01 / ELK100-20		LIL-TOC w/ two-sided extension kit	front	57 > 82 • 1.45 > 2.08	99 > 123 • 2.51 > 3.12	183 • 83.2
ELK100-01 / ELK100-19		LIL-TOC w/ three-sided ext. kit	front	99 > 123 • 2.51 > 3.12	99 > 123 • 2.51 > 3.12	200 • 90.9
ELK100-03	ELK100-03TB	BIG-TOC 60	front	69 > 118 • 1.75 > 3.00	69 > 118 • 1.75 > 3.00	184 • 83.6
ELK100-03 / ELK100-20		BIG-TOC 60 w/ two-sided ext. kit	front	69 > 118 • 1.75 > 3.00	123 > 159 • 3.12 > 4.0	219 • 99.5
ELK100-03 / ELK100-19		BIG-TOC 60 w/ three-sided ext. kit	front	123 > 159 • 3.12 > 4.04	123 > 159 • 3.12 > 4.04	236 • 107.3
ELK100-05	ELK100-05TB	BIG-TOC 72	front	69 > 118 • 1.75 > 3.00	81 > 130 • 2.06 > 3.30	192 • 87.3
ELK100-05 / ELK100-20		BIG-TOC 72 w/ two-sided ext. kit	front	69 > 118 • 1.75 > 3.00	135 > 171 • 3.43 > 4.34	227 • 103.2
ELK100-05 / ELK100-19		BIG-TOC 72 w/ three-sided ext. kit	front	123 > 159 • 3.12 > 4.04	135 > 171 • 3.43 > 4.34	244 • 110.9
ELK100-13	ELK100-13TB	LIL-TOC	front	45 > 70 • 1.14 > 1.78	69 > 106 • 1.75 > 2.69	158 • 71.8
ELK100-15	ELK100-15TB	LIL-TOC	front	57 > 82 • 1.45 > 2.08	69 > 106 • 1.75 > 2.69	162 • 73.6
ELK100-17	ELK100-17TB	LIL-TOC	front	57 > 82 • 1.45 > 2.08	45 > 70 • 1.14 > 1.78	141 • 64.1
ELK100-13 / ELK100-20		LIL-TOC w/ two-sided ext. kit	front	45 > 70 • 1.14 > 1.78	123 > 147 • 3.12 > 3.73	193 • 87.7
ELK100-15 / ELK100-20		LIL-TOC w/ two-sided ext. kit	front	57 > 82 • 1.45 > 2.08	123 > 147 • 3.12 > 3.73	197 • 89.5
ELK100-17 / ELK100-20		LIL-TOC w/ two-sided ext. kit	front	57 > 82 • 1.45 > 2.08	99 > 111 • 2.51 > 2.89	176 • 80.0
ELK100-13 / ELK100-19		LIL-TOC w/ three-sided ext. kit	front	99 > 111 • 2.51 > 2.89	123 > 147 • 3.12 > 3.73	210 • 95.5
ELK100-15 / ELK100-19		LIL-TOC w/ three-sided ext. kit	front	99 > 123 • 2.51 > 3.12	123 > 147 • 3.12 > 3.73	214 • 97.3
ELK100-17 / ELK100-19		LIL-TOC w/ three-sided ext. kit	front	99 > 123 • 2.51 > 3.12	99 > 111 • 2.51 > 2.89	193 • 87.7
ELK100-07	ELK100-07TB	LIL-TOC F&R	front & rear	n/a	57 > 82 • 1.45 > 2.08	116 • 52.7
ELK100-09	ELK100-09TB	BIG-TOC 60 F&R	front & rear	n/a	69 > 118 • 1.75 > 3.00	142 • 64.5
ELK100-11	ELK100-11TB	BIG-TOC 72 F&R	front & rear	n/a	81 > 130 • 2.06 > 3.30	149 • 67.7
100-07 / 100-20		LIL-TOC F&R w/ two-sided ext. kit	front & rear	n/a	99 > 123 • 2.51 > 3.12	151 • 68.6
ELK100-09 / ELK100-20		BIG-TOC 60 F&R w/ two-sided ext. kit	front & rear	n/a	123 > 159 • 3.12 > 4.04	177 • 80.5
ELK100-11 / ELK100-20		BIG-TOC 72 F&R w/ two-sided ext. kit	front & rear	n/a	135 > 171 • 3.43 > 4.34	184 • 83.6

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. The toe board is ordered separately and serves as an added measure to prevent the loss of tools and other important items.

## DETERMINING WIDTH & DEPTH REQUIREMENTS FOR YOUR TOC SAFETY RAIL KIT

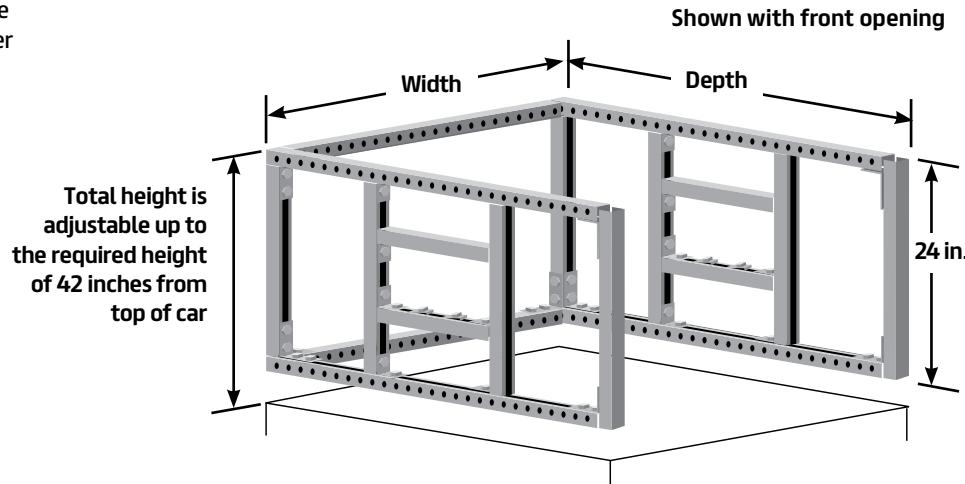
**Width** – The distance between the roller guide plates determines width, because the TOC side rails mount inside the roller guide plates.

**Depth** – Measure the inside car depth.

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

**NOTE:** If clearance between the top of the car and the bottom of the cross-head is less than 18", please call for assistance.

All listed toe boards are 4" height; 5" height available upon request.



# Hoistway Safety

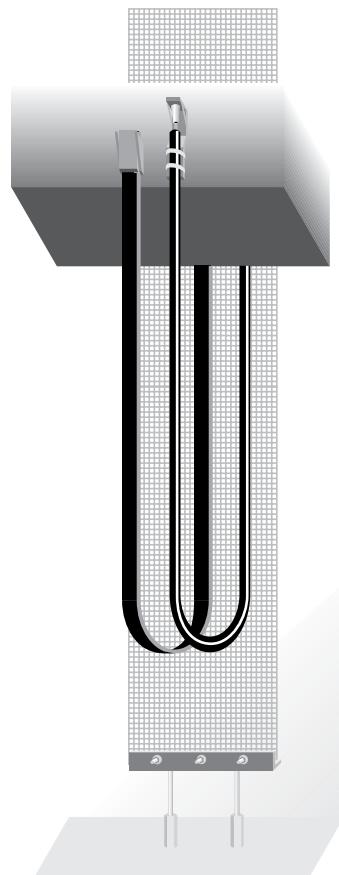
## HOSS™ SYSTEMS

### BIG-HOSS™ HOISTWAY OBSTRUCTION SHIELD SYSTEM

Part Number	Description
ELKBIG-HOSS	Hardware Cloth Base Mounting Kit, 100 feet • 30.48 m length
ELKBIG-HOSS-75	Hardware Cloth Base Mounting Kit, 75 feet • 22.86 m length
ELKBIG-HOSS-150	Hardware Cloth Base Mounting Kit, 150 feet • 45.72 m length

The Hoistway Obstruction Shield Systems (HOSS) 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 ELKBIG-HOSS kit includes 100 ft • 30.48 m of the 1.5 ft • 0.46 m wide shielding material (1/2 in. • 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™ SHIELD SYSTEM EXTENSIONS

Part Number	Description
ELKLIL-HOSS	Hardware Cloth Extension Mounting Kit, 100 feet • 30.48 m length
ELKLIL-HOSS-75	Hardware Cloth Extension Mounting Kit, 75 feet • 22.86 m length
ELKLIL-HOSS-150	Hardware Cloth Extension Mounting Kit, 150 feet • 45.72 m length

The ELKLIL-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.

# Door Gibbs & Fire Tabs

FROM NYLUBE

## DOOR GIBS

Part Number	Size and Description
ELHGIB-DW-2	Door gib, universal, 15/32" green nylon gib, for up to 1", includes metal bracket (4.5" long) and hardware, has 2 fire tabs
ELHGIB-DL-2	Door gib, universal, 15/32" green nylon gib, for 1 to 1-1/4", includes metal bracket (4.5" long) and hardware, has 2 fire tabs



ELHGIB-DW-3	Door gib, universal, 1/2" white nylon gib, for up to 1", includes metal bracket (4.5" long) and hardware, has 3 fire tabs
ELHGIB-DL-3	Door gib, universal, 1/2" white nylon gib, for 1 to 1-1/4", includes metal bracket (4.5" long) and hardware, has 3 fire tabs



ELHGIB-DW-1	Door gib, universal, 7/16" red nylon gib, for up to 1", includes metal bracket (4.5" long) and hardware, has 3 fire tabs
ELHGIB-DL-1	Door gib, universal, 7/16" red nylon gib, for 1 to 1-1/4", includes metal bracket (4.5" long) and hardware, has 3 fire tabs



## FIRE TABS

Part Number	Size and Description
ELHFT-2981	Fire tab, 0" offset
ELHFT-2982	Fire tab, 1/4" offset
ELHFT-2983	Fire tab, 3/8" offset
ELHFT-2976	Fire tab, 1/2" offset
ELHFT-2977	Fire tab, 5/8" offset
ELHFT-2980	Fire tab, 3/4" offset
ELHFT-2979	Fire tab, 7/8" offset
ELHFT-2978	Fire tab, 1" offset



# Alarm Bells & Spirators

FROM SEES®

## ALARM BELLS

Part Number	Size and Description
ELHMIS-125E	Alarm bell, 6 inches diameter, 120VAC
ELHMIS-125M	Alarm bell, 6 inches diameter, 12VDC
ELHMIS-125N	Alarm bell, 6 inches diameter, 6VDC

MIS-125E



MIS-125M



MIS-125N



## SPIRATORS

Part Number	Size and Description
ELHMIS-124	Spirator, reel type door closer, 5" dia. w/ universal mounting, square or two hole
ELHMIS-160	Spirator bracket, with square shank for MIS-124 spirator
ELHMIS-124-ST	Spirator, SmarTork™ door closer, 6" dia., overcomes wind velocities on elevator hoistway doors by an increase of up to 20% tension at the last 2" of closing
ELHMIS-124-ST-BK	Spirator bracket, for MIS-124-ST SmarTork™ door closer

MIS-124 and MIS-160



Maintenance & Safety

MIS-124-ST and MIS-124-BK



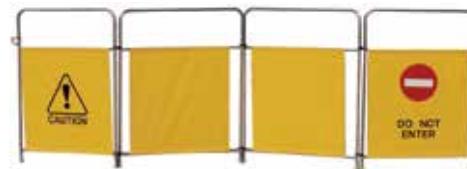
# Safety Barricades, Grips & Signage

## SAFETY SERVICE BARRICADES – METAL FRAME CONSTRUCTION

Part Number	Description
ELHSK-SSB3	Safety barricades, three panels wide, interior panel is 34 in. • 86.4 cm wide, outer panels are 30 in. • 76.2 cm wide, 42 in. • 106.7 cm tall
ELHSK-SSB4	Safety barricades, four panels wide, interior panels are 34 in. • 86.4 cm wide, outer panels are 30 in. • 76.2 cm wide, 42 in. • 106.7 cm tall
ELHSK-SSB6	Safety barricades, six panels wide, interior panels are 34 in. • 86.4 cm wide, outer panels are 30 in. • 76.2 cm wide, 42 in. • 106.7 cm tall

Safety service barricades can be ordered with customized graphics – ask for details.

SK-SSB6



## SAFETY SERVICE BARRICADES – SOLID PLASTIC CONSTRUCTION FROM SEES

Part Number	Description
ELHBARR-001A	Safety barricades, single panel, 3/8 in. • 10 mm thick plastic construction will interlock with other BARR products, 36 in. • 91 cm wide, 42 in. • 112.3 cm tall
BARR-003	Safety barricades, like above but with three panels, with anchors and two locks, will interlock with other BARR products, panels 36 in. • 91 cm wide, 42 in. • 112.3 cm tall
ELHBARR-004	Safety barricades, like above but with four panels, with anchors and three locks, will interlock with other BARR products, panels 36 in. • 91 cm wide, 42 in. • 112.3 cm tall

BARR-001A



BARR-003



BARR-004



## EZ GRIP – US PATENT 8,403,283 B2

Part Number	Description
EZ GRIP	One EZ Grip barricade clamp
ELKEZ GRIP KIT	One pair (two) of EZ Grip barricade clamps

The EZ Grip quickly and easily attaches barricades directly to escalator balustrades (as mandated by recent safety policies).



## 'DO NOT USE' SIGNS

Part Number	Description
ELH022-6-0001	Do Not Use signs, 4 x 6 in., self-adhesive, 50 per pack



## CERTIFICATE FRAME

Part Number	Description
ELHMIS-CF-100	Certificate frame, stainless steel, 7" x 10"

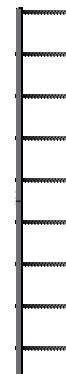


## Pit Safety Kits, Car Escape Hatch Switches & Exhaust Fans

## PIT LADDER

Part Number	Description
ELHPIT-LDR-16RR	Pit ladder, 9 ft. tall with 16 in. anti-skid round rungs (measured inside uprights)
ELHPIT-LDR-16RR2X	Pit ladder extension, 2 ft. tall with 16 in. anti-skid round rungs
ELHPIT-LDR-12RR	Pit ladder, 9 ft. tall with 12 in. anti-skid round rungs (measured inside uprights)
ELHPIT-LDR-12RR2X	Pit ladder extension, 2 ft. tall with 12 in. anti-skid round rungs

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



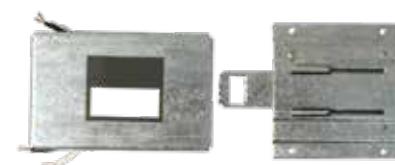
## PIT LIGHT

Part Number	Description
ELHPIT-LIGHT-MC	Pit light, with metal cage, safety guard, GFCI outlet and switch, 120VAC, 15A



## PIT STOP SWITCH

Part Number	Description
ELHPIT-SWITCH	Pit toggle stop switch, lockable, 120/277VAC, 20A



## EMERGENCY ESCAPE HATCH SWITCH

Part Number	Description
ELHMIS-197	Ceiling emergency latch switch, DPDT, allows for building security circuit to be notified as well as code-required separate circuit for car shut down

## TWO-SPEED EXHAUST FANS

Part Number	Description
ELHX12F9	Exhaust fan, two speed, octagonal, 10 in. diameter
ELHX14F6	Exhaust fan, two speed, octagonal, 14 in. diameter
ELHX2S06	Exhaust fan, two speed, square, 14 in. diameter

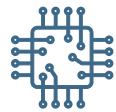


ELHX12F9

**ELHX14F6**



ELHX2SQ6



# Electronics & Modernization



Magnet & limit switches from EECO & others

123

Electro-optical converters

127

Limit switches from Schmersal & accessories

124

Cat5e emulation connectors & kits

128

# Hoistway/Hatch Switches

UL LISTED, CSA CERTIFIED

## EECO LS-1B LIMIT SWITCH



Part Number	Description
ELHLS-1B	Limit switch, for setting zoning, normal and final limits, 1 NO and 1 NC contacts, rated for 300VAC@8A or 230VDC@1A



## EECO MV-4C MAGNET SWITCH



Part Number	Description
ELHMV-4C	Permanent magnet switch, for zone switches and leveling control units, dead zone, < 1/8 in. @ 1/4 in. gap, 1 NO and 1 NC contacts, rated for 300VAC@8A or 230VDC@1A



## EECO LS-1W LIMIT SWITCH



Part Number	Description
ELHLS-1W	Limit switch, like LS-1B above but with weatherproof design

## EECO MV-4W MAGNET SWITCH



Part Number	Description
ELHMV-4W	Permanent magnet switch, like MV-4C above but with weatherproof design

## EECO LS-1D LIMIT SWITCH



Part Number	Description
ELHLS-1D	Limit switch, for setting zoning, normal and final limits, 2 NO and 2 NC contacts, rated for 300VAC@8A or 230VDC@1A



## EECO MV-4D MAGNET SWITCH



Part Number	Description
ELHMV-4D	Permanent magnet switch, for zone switches and leveling control units, dead zone < 1/8 in. @ 1/4 in. gap, 2 NO and 2 NC contacts, rated for 300VAC@8A or 230VDC@1A



## EECO LS-1DW LIMIT SWITCH



Part Number	Description
LS-1DW	Limit switch, like LS-1D above but with weatherproof design

## EECO MV-4DW MAGNET SWITCH



Part Number	Description
MV-4DW	Permanent magnet switch, like MV-4D above but with weatherproof design

## MOUNTING BRACKET FOR EECO SWITCHES

Part Number	Description
ELHLS-1B-BRKT	Mounting bracket, for all EECO limit/magnetic switches

## MAGNET INDUCTOR SWITCH



Part Number	Description
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



# Hoistway/Hatch Switches

FROM SCHMERSAL - OPTIONS INCLUDE SIZES, ACTUATOR STYLES, CABLE ENTRIES & MORE

## T1R236-11Z-M20

### LIMIT SWITCH



#### Part Number

ELH020-4-0042

#### Description

Slow action position switch, offset roller lever, 1NO + 1NC contacts, adjustable actuator head, thermoplastic, M20 cable entry



## TV10H236-11Z-M20

### LIMIT SWITCH



#### Part Number

ELH020-4-0047

#### Description

Slow action position switch, rod lever actuator, 1NO + 1NC contacts, adjustable actuator head, thermoplastic, M20 cable entry



## Z1R236-11Z-M20

### LIMIT SWITCH



#### Part Number

ELH020-4-0044

#### Description

Snap action position switch, offset roller lever, 1NO + 1NC contacts, adjustable actuator head, thermoplastic, M20 cable entry



## TV7H236-11Z-1058

### LIMIT SWITCH



#### Part Number

ELH020-4-0160

#### Description

Slow action position switch with large rubber roller, adjustable lever actuator, 1NO + 1NC contacts, adjustable actuator head, thermoplastic, M20 cable entry



## TS236-11Z-M20

### LIMIT SWITCH



#### Part Number

ELH020-4-0046

#### Description

Slow action position switch, plunger actuator, 1NO + 1NC contacts, adjustable actuator head, thermoplastic, M20 cable entry



## TV7H236-11Z-M20

### LIMIT SWITCH



#### Part Number

ELH020-4-0048

#### Description

Slow action position switch, adjustable roller lever actuator, 1NO + 1NC contacts, adjustable actuator head, thermoplastic, M20 cable entry



# Hoistway/Hatch Switches

FROM SCHMERSAL - OPTIONS INCLUDE SIZES, ACTUATOR STYLES, CABLE ENTRIES & MORE

**ZS236-11ZR-1816**  
**LIMIT SWITCH**



Part Number	Description
ELH020-4-0039	Snap action position switch, latching/manual reset pin, plunger actuator, 1NO + 1NC contacts, thermoplastic, M20 cable entry



**T1R236-02Z-M20**  
**LIMIT SWITCH**



Part Number	Description
ELH020-4-0043	Slow action position switch, offset roller lever actuator, 2NC contacts, adjustable actuator head, thermoplastic, M20 cable entry



**ZS236-11ZR-M20-1519**  
**LIMIT SWITCH**



Part Number	Description
ELH020-4-0040	Snap action position switch, latching/manual reset, mushroom-shaped plunger actuator, 1NO + 1NC contacts, thermoplastic, M20 cable entry



**Z1R236-02Z-M20**  
**LIMIT SWITCH**



Part Number	Description
ELH020-4-0045	Snap action position switch, offset roller lever actuator, 2NC contacts, adjustable actuator head, thermoplastic, M20 cable entry



**TV14H236-11Z-M20**  
**LIMIT SWITCH**



Part Number	Description
ELH020-4-0041	Slow action position switch, roller lever 14H actuator, 1NO + 1NC contacts, adjustable actuator head, thermoplastic, M20 cable entry



# Hoistway/Hatch Switch Accessories

## CABLE GLAND

Part Number	Description
ELH020-4-0052	Cable gland, to fit bottom of switches, M20 thread, cable OD range 0.19 - 0.39 in.



## ADAPTER

Part Number	Description
ELH020-4-0053	Adapter, plastic, to fit bottom of switches, converts M20 female to 1/2 in. NPT female



## LOCK NUT

Part Number	Description
ELH020-4-0161	Lock nut, plastic, for use with cable gland 020-4-0052 when mounting to box



## MOUNTING BRACKETS FOR LIMIT SWITCH

Part Number	Description
ELKLS-BRKT-G	Mounting bracket, for 020-4-0160 limit switches, 020-4-0053 adapter required for M20 to 1/2 in. NPT female connection
ELKLS-BRKT-KIT-G	Mounting bracket kit, includes mounting bracket, hardware and one 020-4-0160 limit switch
ELKLS-STRUTBRKT-17	17 in. adjustable strut-style bracket, assembled, with mounting hardware and one 020-4-0160 limit switch



# Fiber Optic Transmission Kits for UTP Connections

UL LISTED, CSA CERTIFIED

The amount and content of elevator communications (high-resolution video surveillance, telephony, control signals, audio, etc.) is ever increasing. Fiber optic cable is an ideal answer for these needs.

Fiber optic transmission kits convert electronic signals from cameras and the like into optical signals and back to electronic signals at the other end. Draka EHC offers two solutions for electro-optical signal tx/rx:

## SIGNAMAX FULL DUPLEX (TWO WAY) ETHERNET 10/100BASET TO FIBER TRANSMISSION

Part Number	Description
ELKF10651100KIT62ST	Two box-style units with RJ-45 electronic and ST optical input/output for Ethernet to 62.5µm 100BaseFX conversion - includes two Cat6 five foot jumpers and two three meter ST patchcords
ELKF10651110KIT62SC	As above but with 62.5µm SC input/output and two three meter SC patchcords
F10651100KIT50ST	Two box-style units with RJ-45 electronic and ST optical input/output for Ethernet to 50µm 100BaseFX conversion - includes two Cat6 five foot jumpers and two three meter ST patchcords
ELKF10651110KIT50SC	As above but with 50µm SC input/output and two three meter SC patchcords



Signamax tx/rx units accept 10/100BaseT electronic signals through RJ-45 jacks and convert them for duplex (two-way) optical transmission over either 62.5µm or 50µm multimode fiber and ST and SC connectors. The system consists of two units, power supplies and patchcords. Call for other configuration options.

## AMERICAN FIBERTEK M100C SIMPLEX (ONE WAY) VIDEO

Part Number	Description
F1-MTRM100KIT62	Tx/Rx pair of modules for coax to 62.5µm fiber conversion - includes power supplies and two 62.5µm ST patchcords
F1-MTRM100KIT50	As above but with 50µm input/output and two 50µm ST patchcords



American Fibertek M100C units are compact video converters that transmit one-way from cab to security center. They can operate over either 62.5µm or 50µm multimode fiber with any camera with a coaxial output. ST and SC versions are available. The system consists of a tx/rx pair with power units and patchcords.

# Data Communications Connectors

## CAT5e AND FIBER OPTIC TOOLS / CONNECTORS

### FIBER OPTIC CONNECTORIZATION KITS AND SUPPLIES

Part Number	Description
ELHS153AEX900V2	Fusion connectorization kit featuring Furakawa's S153A automatic fusion splicer, FITEL S326 fiber cleaver, stripper and tools as shown NOTE: connectors not included
ELHFI-0053MSB	Mechanical connectorization kit – contains all hand tools as well as consumables for five splices NOTE: connectors not included
ELHFI9000	Fault locator for visually detecting flaws and breaks
ELHFASTSCM6256900	SC fiber optic connector
ELHFASTSTMM6256900	ST fiber optic connector

Optical fiber can be connectorized in as little as three minutes with the right equipment and some simple training. Draka EHC offers all the equipment necessary to terminate optical fiber. Check your local code requirements for installation guidance and/or certification.

See page 127 for electro-optic conversion modules.

On-site training is available for fiber optic splicing. Contact your sales representative or Draka EHC directly for details.

### FIBER OPTIC CONNECTORS

Draka EHC uses a variety of fiber in our cable. Multimode fiber and equipment are much easier to work with than single mode and are the preferred fiber type for elevator usage.

Optical fiber is terminated with connectors that are spliced to the fiber ends. Draka EHC offers two popular options – the ST, a bayonet/twist style, and the SC and ST snap-in styles. Please call us for availability and pricing of these connector styles. Note that ST connectors require an additional oven not included with the kit.

### TYPICAL INSTALLATION

A small section of the optical fiber's buffer layer is stripped to expose the fiber. The fiber end is cleaved to produce a clean and perpendicular cut. The connector is then fusion spliced to the fiber end of the connector and the splice reinforced with a protective sleeve. The fiber is then tested with a light source and power meter.

With the right equipment and a little practice, a clean and low-loss splice can be quickly performed by any competent installer.

### ELHS153AEX900V2 Connectorization Kit



### FI-0053MSB Connectorization Kit



### SC connector



### ST connector



### CAT5e EMULATION CONNECTORS (PHOENIX MODULES)

Part Number	Description
ELPVCAT5E-1-END	Connectorization Kit – cable connectorized at one end, an additional Phoenix module, double-sided tape, installation instructions
CAT5E-2-END	Connectorization Kit – cable connectorized at both ends, double-sided tape, installation instructions
ELKCAT5E-KIT	For field installation – includes 2 Phoenix modules, double-sided tape, installation instructions

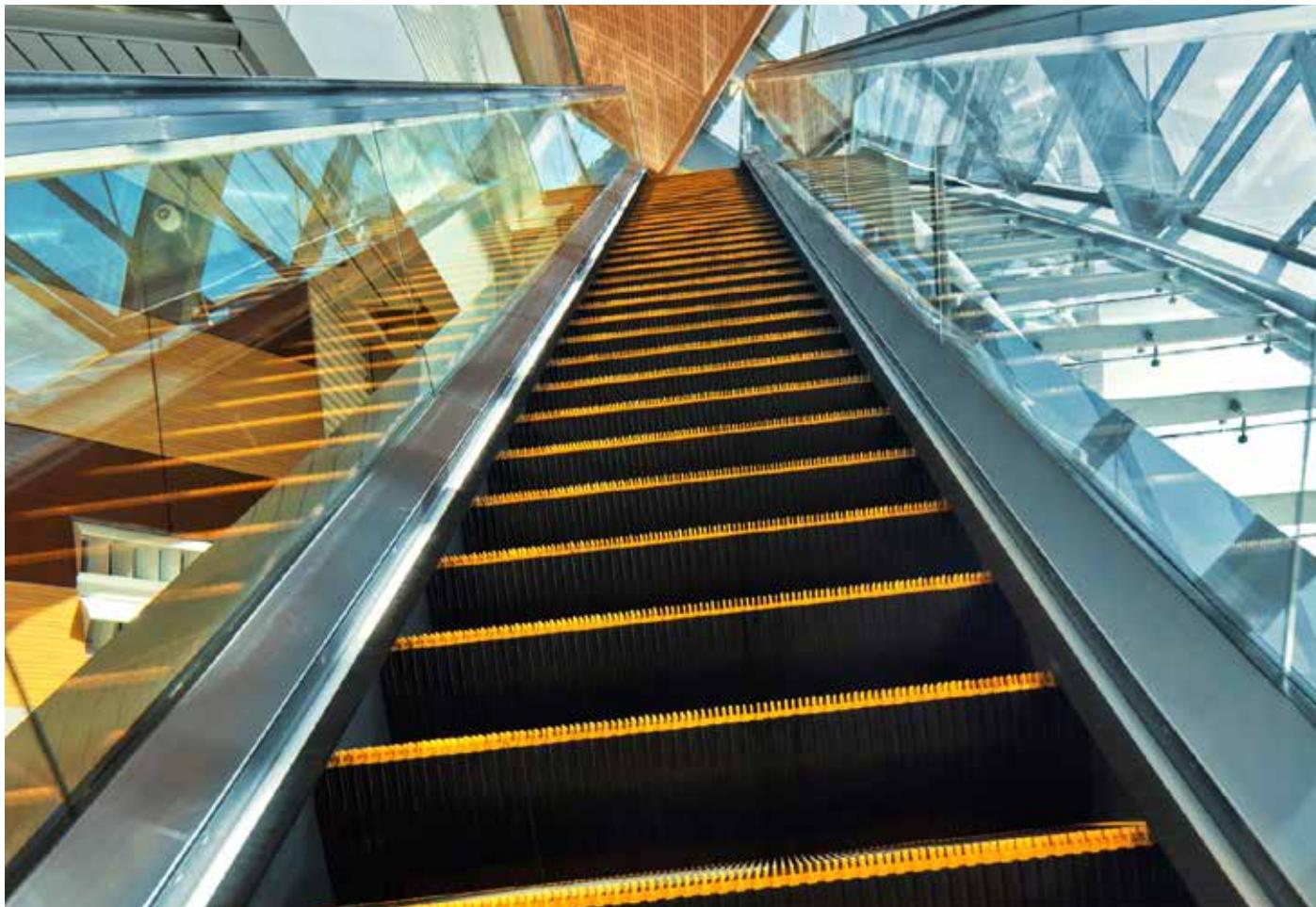
Cat5e connectors permit up to 1 Gb/s signals over 328 ft • 100 meters when used with our Cat5e-emulation cables (see page 11). They deliver Cat5e performance for a host of Ethernet devices such as video boards, cameras and emergency phones. They connect with standard RJ-45 jacks.

### FEATURES

- Power over Ethernet (PoE) permitted
- Ideal for low- to mid-rise buildings in new installations or modernization projects



# Escalator & Moving Walks



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# Handrails

NT THERMOPLASTIC POLYURETHANE (TPU)

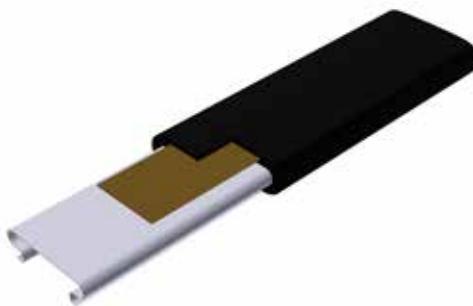


## DIVERSE HANDRAIL SOLUTIONS FOR ALL CUSTOM REQUIREMENTS

NT is straighter than other handrails and requires less energy to travel through escalator drive systems, making it the most energy efficient escalator handrail available. Smooth tracking ensures optimum alignment and operation of all handrail drive components.

NT3000 combines unique aesthetics, durability and ease of installation while being kind to the environment. NT9000 was introduced as a compact, lightweight and cost-effective alternative.

Manufactured in an ISO 14001 facility, NT has been engineered to meet environmental standards, and is free of ozone depleting substances such as chlorosulphonated rubber compounds and PVCs.



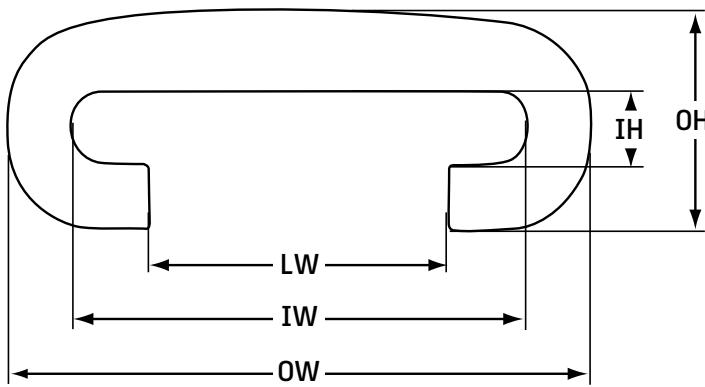
## FEATURES & BENEFITS

- Draka EHC Developed
- Thermoplastic Polyurethane (TPU)
- Patented Technology
- OEM Approved
- High-Gloss Finish
- Minimal Maintenance
- Weatherproof
- Recyclable

## STYLES

Style	Outer Width OW mm	Inner Width IW mm	Lip Width LW mm	Inner Height IH mm	Outer Height OH mm
7239NT9000	72.0	59.0	39.0	9.5	23.5
7440NT9000	76.0	63.5	40.0	10.5	24.0
7539NT3000	76.0	60.0	38.0	9.5	28.0
8040NT3000	80.0	63.5	40.0	10.5	28.0
8141NT3000	82.0	63.0	41.0	12.0	31.0
8339NT3000	82.0	63.0	38.0	16.0	35.5

OW: Outer Width  
OH: Outer Height  
IW: Inner Width  
IH: Inner Height  
LW: Lip Width



# Handrails

NT ColourRail™

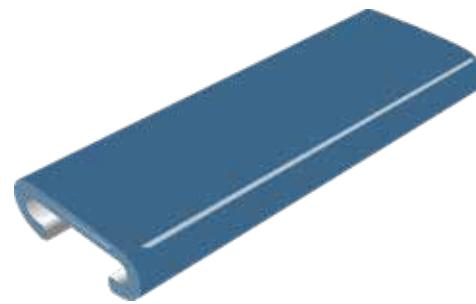


## REVOLUTIONIZE YOUR ESCALATORS BY ADDING COLOR

Draka EHC is proud to be the only handrail manufacturer that offers an unlimited selection of custom colour handrail options. ColourRail is easy to clean and stays vibrant & glossy for the life of the handrail.

Consider matching your new handrails with your surroundings or to make the escalator and environment more appealing. More than ever, building owners are pushing the limits beyond black handrails and realizing the endless possibilities.

NT ColourRail is available in standard or custom colour options for enhanced aesthetics and integration with existing building and interior décor.



## FEATURES & BENEFITS

- Draka EHC developed
- Thermoplastic PolyUrethane (TPU)
- Patented technology
- OEM approved
- High-gloss finish
- Minimal maintenance
- Weatherproof
- Recyclable





Select from a wide variety of preconfigured safety designs and messages, or design custom graphics to meet local code requirements. Our specialized equipment provides high-resolution transfer of safety symbols or messages in any language onto black NT handrail.

Whether in busy transit systems, shopping malls, department stores or airports, SafeRail is sure to encourage safe and responsible escalator use.



## FEATURES & BENEFITS

- Draka EHC developed
- Thermoplastic PolyUrethane (TPU)
- Patented technology
- OEM approved
- High-gloss finish
- Minimal maintenance
- Weatherproof
- Recyclable



# Handrails

NT BrandRail™



Our BrandRail handrails offer a permanent branding solution for logos, directional information, messages or decorative graphics.

Customers now have the ability to strategically target high traffic locations and put their brand into the hands of millions - permanently! Our innovative etching technology allows for detailed graphics and high resolution, while our processing techniques permanently bond graphics to NT handrails.

Manufactured in an ISO14001 facility, BrandRail has been engineered to meet environmental standards and can be recycled.



## FEATURES & BENEFITS

- Branding you can see and touch
- Enhanced brand activation
- Revenue-generating opportunity
- Permanent and vandalism-resistant
- Suitable for indoor and outdoor applications
- Provides a visual indication of the speed and direction of travel, enabling passengers to take a more natural step onto escalator



# Handrails

NT MotionRail™

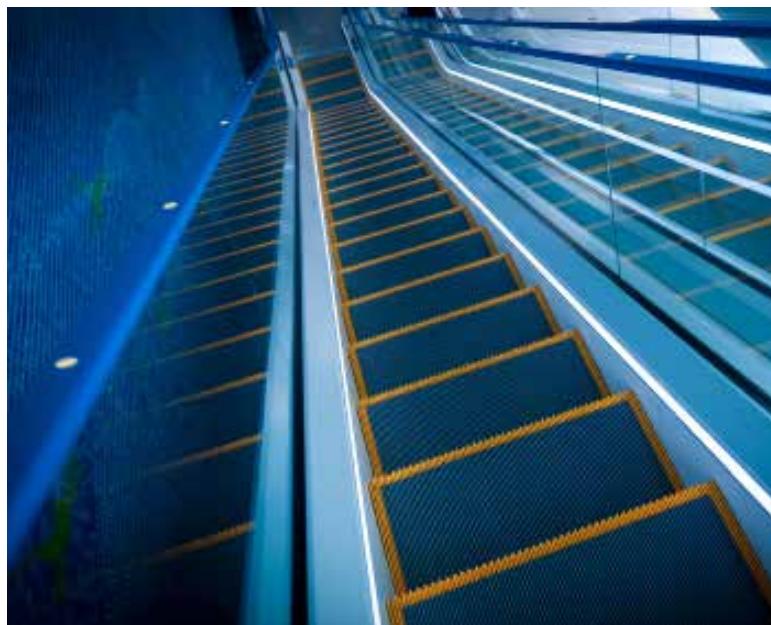


Provide helpful motion indicators to alert passengers, young and elderly, of the speed and direction of travel - ensuring safe escalator entry and exiting. Available in custom or preconfigured shapes, symbols and sizes.



## FEATURES & BENEFITS

- Draka EHC developed
- Thermoplastic PolyUrethane (TPU)
- Patented technology
- OEM approved
- High-gloss finish
- Minimal maintenance
- Weatherproof
- Recyclable



# Handrails

NT AMRail™



NT AMRail is infused with a specially selected antimicrobial additive that is safe, effective and permanent for the life of the handrail. The cleansing compounds provide an added level of protection which keep handrails clean and inhibits the accelerated growth of bacteria that can cause illness or product deterioration.

NT AMRaill encourages passengers to hold on to handrails. Holding the handrail is one of the best ways to defend against accidental falls. With NT AMRail, building owners, operators and property managers can offer their tenants and customers a healthier environment and improved customer experience.



## FEATURES & BENEFITS

- Draka EHC developed
- Thermoplastic PolyUrethane (TPU)
- Patented technology
- OEM approved
- High-gloss finish
- Minimal maintenance
- Weatherproof
- Recyclable



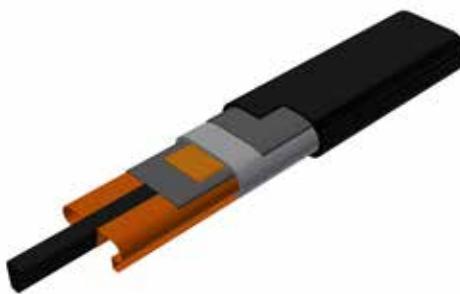
# Handrails

## TufFlex™ STYRENE-BUTADIENE RUBBER (SBR)

TufFlex is constructed to withstand environmental exposure without cracking and have an exceptionally high resistance to ozone. Designed flexible enough to bend through the most extreme drive systems, yet durable enough to endure the constant pressure of drive rollers.

TufFlex preserves the dimensions of the handrail profile through its ability to maintain its structural strength. This is accomplished by utilizing built-in stretch inhibitors to prevent the handrail from growing or shrinking during operation. TufFlex will not shrink, avoiding friction, excess dust, and premature wear. Likewise, TufFlex will not grow, avoiding handrail slippage which could displace a handrail from its guide.

TufFlex is available with helpful motion indicators to alert passengers, young and elderly, of the speed and direction of travel, ensuring safe escalator entry and exiting.

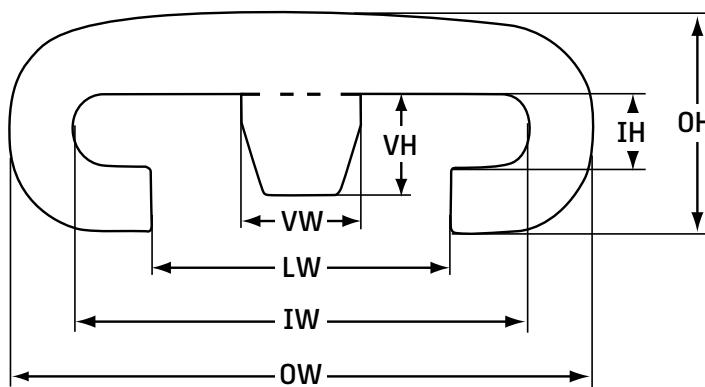


## TUFFLEX STYRENE-BUTADIENE RUBBER HANDRAIL STYLES

Style	Outer Width OW mm	Inner Width IW mm	Lip Width LW mm	Inner Height IH mm	Outer Height OH mm	Vee Height VH mm	Vee Width VW mm
7539SBR	76.0	60.0	38.0	9.5	28.0	-	-
7838SBR*	79.2	62.8	37.5	10.6	28.15	13.0	15.3
7840SBR*	80.0	63.0	40.0	10.0	28.5	13.0	15.3
7841SBR	80.0	62.0	41.0	9.0	27.5	-	-
8038SBR	79.0	62.0	38.0	10.0	28.5	-	-
8040SBR	79.0	62.0	40.0	10.6	28.5	-	-
8133SBR	82.0	62.0	33.0	12.0	33.5	-	-
8141SBR	81.5	63.0	40.0	11.0	32.5	-	-
8339SBR*	82.0	63.5	38.0	15.9	35.5	18.0	15.5
8340SBR	82.0	63.0	40.0	15.9	35.5	-	-
8342SBR	82.0	63.0	41.0	15.9	35.5	-	-
8942SBR*	88.0	68.0	42.0	15.0	35.0	17.7	15.3
8944SBR*	88.0	68.0	44.0	15.0	35.0	17.7	15.3
9947SBR	99.0	75.0	47.0	12.0	37.8	-	-

\*available in Flat and Vee configurations

OW: Outer Width  
OH: Outer Height  
IW: Inner Width  
IH: Inner Height  
LW: Lip Width  
VW: Vee Width  
VH: Vee Height



Square



Round



Vee



# Handrails

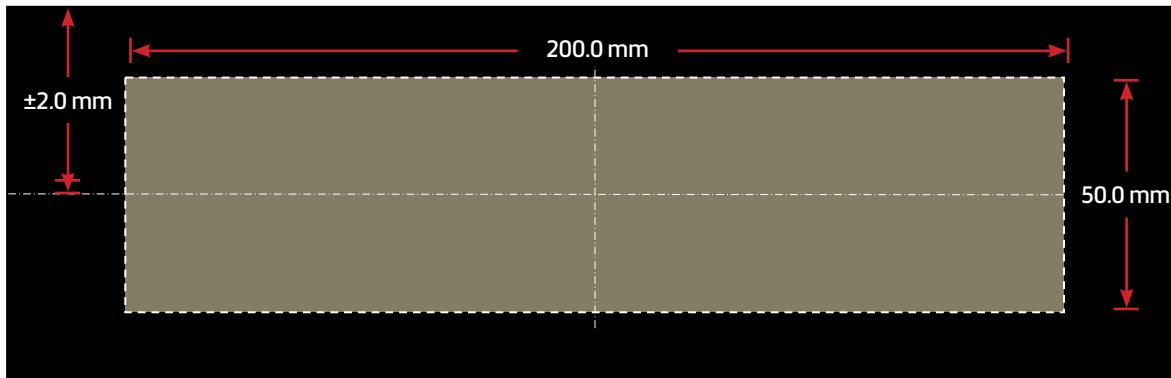
## NT HANDRAIL BRANDING PARAMETERS

Available with NT black handrail, all graphics are subject to shade variances as a result of our process and may appear having a moderately metallic finish. Spacing between graphics must be greater than 650 mm (maximum of 2 metres). Number of graphics that will appear on an individual handrail is determined by handrail length.



## SPECIFICATIONS

Dimensions	50 mm x 200 mm / 2.36 in x 7.87 in
Formats	.tif, .gif, .jpg, .png, .eps, .ai, .pdf, .svg
Fonts	Embed & convert to outlines or curves
Images	Embed & convert to greyscale (300dpi)



650 mm  
±5.0 mm



# Field Service & Training

## DESCRIPTION

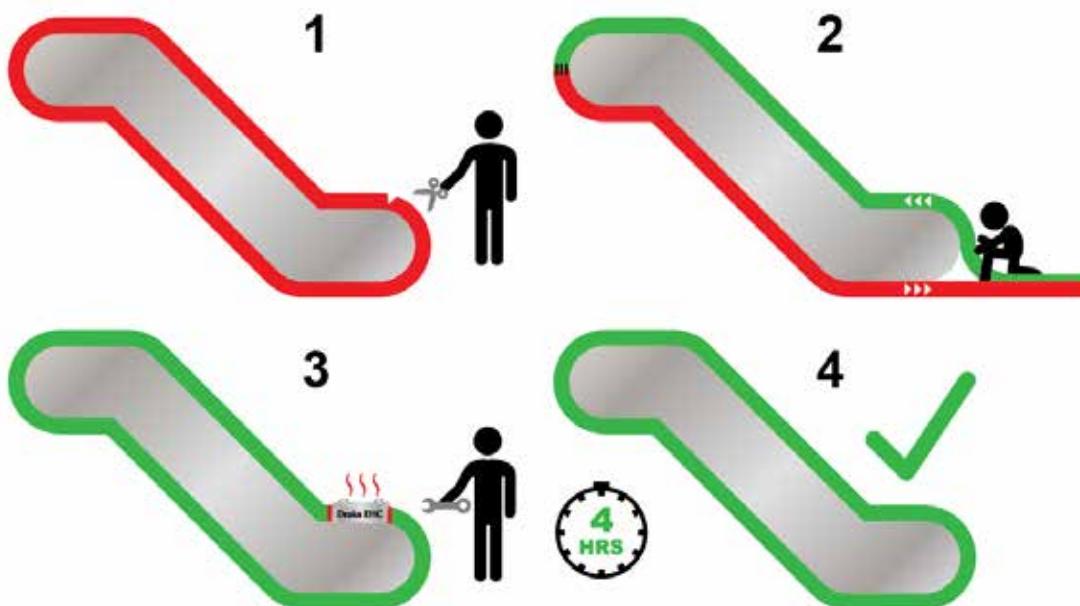
On-site and on-demand field splicing of TufFlex and NT handrail by a global network of trained and certified Field Splicing Service Technicians. When performed by our Service Technicians, field splicing can offer tremendous cost savings over endless installation in the following ways:

## FEATURES & BENEFITS

- Eliminates the need to disassemble and reassemble the escalator or moving walkway
- Significantly reduces the labour hours and unit down times required to change one or both handrails – our service technicians can splice one handrail in less than 5 hours; two in less than 8 hours!
- No dangerous goods, solvents or cements
- All splices come with a warranty

Draka EHC can repair handrails avoiding a complete handrail replacement. Under specific circumstances repairing the damaged area of a handrail is preferred particularly if the handrail is new or longer than 30m. Our skilled technicians can repair large areas of damage handrail by replacing the old damaged product with an insert piece of new handrail. This process can return the escalator or moving walk back into service the same day and significantly reducing waste.

Remove, replace and return to service!



## TOOLS & TRAINING

Our engineers have developed the most sophisticated and versatile field splicing tools and equipment on the market. Comprehensive training programs and annual requalification services ensure Draka EHC certified technicians maintain the level of skill needed to meet industry standards.

RapidRail  
Handrail Tool



NT Field Splice  
Mould & Controller



NT  
Splice Kit



TufFlex Field Splice  
Mould & Controller



TufFlex  
Splice Kit



# Cleaner & Polish

## DESCRIPTION

Dull or dirty handrails are not only unattractive, they can harbour bacteria and deter passengers from safely holding them. Rubber handrails contain compounds that preserve integrity and enhance performance. These compounds eventually migrate to the handrail surface and require proper cleaning.

## HANDRAIL CLEANER (TPU, SBR)

Product Description	Size oz • ml
Draka EHC handrail cleaner, plastic spray bottle (small)	26 • 750
Draka EHC handrail cleaner, plastic container with lid (large)	128 • 3750

Handrail cleaner has been specially formulated to remove stubborn grease and grime that accumulates on the surface of handrails. Escalator handrails cycle through an internal drive system attracting substances collected by other components. Our cleaner provides the strength you need without harsh chemicals.

## HANDRAIL POLISH (SBR)

Product Description	Size oz • ml
Draka EHC handrail polish, plastic container with lid (small)	26 • 750
Draka EHC handrail polish, plastic container with lid (large)	128 • 3750

Handrail polish revitalizes and conditions the surface of your rubber handrails. When left untreated, rubber handrails can crack as they are exposed to elements. Our polish restores luster, and provides a protective barrier.



# Safety Brushes

## MotionGuard™

Designed to meet global safety standards and lower customer costs, MotionGuard Safety Brushes require no surveys and are proven to increase passenger awareness while greatly reducing the risks of step and skirt entrapments. By creating a physical barrier between passengers and moving escalator components, serious injury can be prevented. Our patented one-piece profile is A17 code-compliant and requires only one measurement!



## FEATURES & BENEFITS

- Durable, one-piece construction
- No pre-bending required
- Heavy-duty plastic endcaps supplied
- Easy maintenance and replacement
- Fits wide range of escalators and moving walks
- Meets global safety codes including A17
- Suitable for OEM, replacement and modernization applications

## FASTENER OPTIONS

- Self-drilling screw hardware package
- Drill / Tap / Machine screw package
- Tamper resistant screws (end caps)

## DESIGN OPTIONS

Brush Holder	Description
MG3 40	40 mm short trim, black finish, one-piece extrusion, black brush bristles*
MG3 50	50 mm long trim, black finish, one-piece extrusion, yellow or black brush bristles*

\*Mounting hardware included

### Bristle Colors



# Under-Step Demarcation Lighting

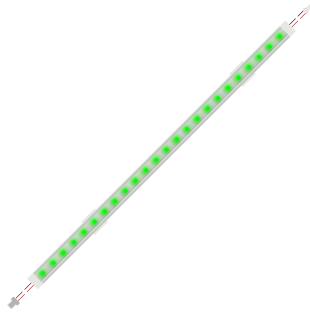
## DEMARCATION LEDs

Escalator under step demarcation lighting is designed to emphasize the hazard in-between steps and the approaching comb plates. LED technology is much brighter, consumes less electricity and has a superior lifespan to conventional, problematic fluorescent demarcation lighting systems.

### UNDER-STEP DEMARCATION LIGHT

#### 120VAC / 24VDC

- 24 high output green LEDs, 4 watts / foot
- Highly durable 18.5" aluminum channel, epoxy-filled assembly
- Bright, long-lasting, maintenance-free
- Singular & dual purpose, easy parallel connection
- Mount & secure on any flat, rigid surface



### UNDER-STEP DEMARCATION LIGHT

#### 24VAC

- 24 high output green LEDs, 3.3 watts / foot
- Highly durable 18" epoxy-poured assembly
- Bright, long-lasting, maintenance-free
- 24 VAC power supply required
- Durable, water-resistant



# Rollers

## THERMOPLASTIC POLYURETHANE

Draka EHC has hundreds of roller designs and configurations available for escalators and moving walks. As a manufacturer and supplier, we produce rollers using durable, high quality components (bearings, hubs, etc.) to reduce noise and undesired vibration.

Our customers are able to collaborate with our specialists to efficiently design or reproduce rollers specific to their needs and code requirements whether low or high volume, cast, single or dual injection.

Our material experts have in-depth knowledge and experience in selecting and formulating the most suitable high-grade materials for any given application. By reviewing the performance criteria, including any standards it needs to pass, our experts then select or develop a suitable material for that application.

Multiple material options are available to ensure optimal combination of physical properties and performance characteristics such as colour, thickness, hardness, moisture resistance, superior durability and precision finishing.

Draka EHC collaborates with several major multi-national material suppliers in developing specialized materials for various applications.

OEM tested & approved. ISO9001, ISO14001 and TÜV certified.

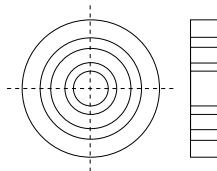
## FEATURES & BENEFITS

- High quality
- Extended service life
- Low maintenance
- Cost-effective
- Customization

## PROFILE TYPES

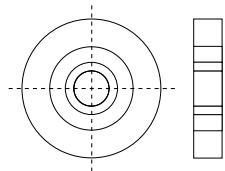
- Standard
- Flat Track
- Chamfer
- Convex
- Concave

## CAST MOLDING



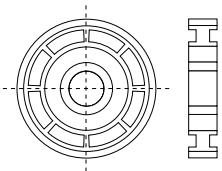
TPU Tread  
Optional Metal Hub

## SINGLE INJECTION



One-Piece TPU Tread & Hub  
Uniform Tread & Hub Width

## DUAL INJECTION



TPU Tread & Nylon Hub  
Total TPU Volume Reduced

## APPLICATIONS

### Step/Pallet



### Step/Pallet Chain



### Guide



### Support



### Drive



### Handrail



### Tension



### Pressure



### Newel



### Pulley



### Idler



### Cluster



## POPULAR CONFIGURATIONS (STEP, STEP CHAIN)

Outer Diameter OD mm	Width W mm	Bearing/Inner Diameter ID mm
75	20 - 25 range	6005/25, 6204/20, 61906/30
76, 76.2	20 - 25 range	6005/25, 6202/15, PB17.1/17, 6203/17, 6204/20
80	25, 27	6006/30, 6202/15, 6204/20, PB20/20, 6205/25
100	25, 28	6204/20

Optimum tread material and hardness determined by requirements, other bearings available pending application review. Dual injection roller end/dust caps available.

## PERFORMANCE TESTING



# Replacement Parts

## ESCALATORS & MOVING WALKS

As escalator and moving walk specialists, Draka EHC maintains a wide selection of in-stock parts for many different makes and models that continues to grow. With a reputation for strong customer service, competitive pricing, and experienced technical support, we make part sourcing easy, stress-free, and cost-effective. Draka EHC stands confident in the reliability of our high-quality replacement parts, sourced from leading global manufacturers.

### FEATURES & BENEFITS

- Global supply chain and distribution network
- Extensive inventory for all OEM models
- Specialist in hard-to-source parts



### ROLLERS & WHEELS

A wide range of replacement rollers for most escalator steps, step chains and newel ends. Also available, handrail guide / support rollers, and drive wheels for multi-roller linear drive handrail systems.



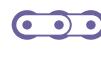
### SAFETY BRUSHES

MotionGuard (MG3) is Draka EHC's patented, one of a kind, flexible one-piece skirt brush that can be found installed on thousands of escalators throughout America. Easy To Order / Quick To Install.



### STEPS, PALLETS & DEMARCATIONS

High-quality, performance tested steps and related parts at competitive prices. We carry many different steps and replacement parts in stock and specialize in sourcing hard to find steps, pallets and demarcations.



### STEP CHAINS & RELATED PARTS

Not all step chains are created equal. Using our network of supply partners we source step chain products that satisfy the demands and preferences of our customers.



### COMB & LANDING PLATES

Large inventory of comb plates in many different shapes, styles, materials and colours. Draka EHC can also source and supply landing plates for all different makes and models.



### NEWEL END & HANDRAIL GUIDE

Newel end track & roller chains, rollers, guide clips, handrail guide and related hardware.



### ELECTRICAL

Illuminated / LED directional indicators, fault code displays, switches and sensors.



### DRIVE CHAIN & BELTS

For escalator main and handrail drive systems, we stock durable power transmission chains and belts.



### DECKING, PANELS & ACCESS

Matching inner decking items, decorative panels, access covers, extrusion profile, trim and hardware.



### BRAKE & RELATED PARTS

Escalator brake replacement items, motors, coils and solenoids.



### LIGHTING

Safety, demarcation, accent escalator lighting for pits, under-step, skirt, and balustrades.



### MAIN DRIVE, MOTORS & TRANSMISSIONS

Replacement main drive components; motors, transmissions, etc.



### HANDRAIL DRIVE SYSTEMS

Linear drive modules, large diameter drive sheaves, traction / pressure belts, tension and support fixtures.



### SPROCKETS & PULLEYS

Replacement sprockets, pulleys and gears for main drive, step chain and handrail drive.



### TOOLS & HARDWARE

A selection of tools and other accessories that make repair and service work easier, safer and/or more efficient, as well as fasteners, assorted clips, screws, nuts, etc.



### GENERAL SUPPLIES

Lubricants, cleaners, temporary floor protection, etc.

# Terms & Conditions

## WARRANTY & 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 EHC are offered for sale only on those terms and conditions appearing on the reverse side of Draka EHC'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 EHC shall be subject to the terms and conditions set forth on Draka EHC 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 EHC 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 EHC its prices for the goods in effect on the date of shipment by Draka EHC. All prices are F.O.B. origin apart from those exceptions set forth in Draka EHC's Quotation, Order Acknowledgment or Invoice forms. The prices specified do not include sales, use, excise, or similar taxes.

#### Transportation & Routing

Draka EHC 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 EHC puts the goods in possession of a common carrier.

#### Force Majeure

Draka EHC 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 EHC's Type ETT Round Traveling 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. Our lifetime warranty does not apply to non-standard and rope lay cable constructions. (b) All other goods manufactured by Draka EHC 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 EHC'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 EHC SHALL HAVE SOLE DISCRETION AS TO WHICH OF THESE REMEDIES IT SHALL PROVIDE. DRAKA EHC 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

EHC. (c) If any of the goods on which Draka EHC's warranties have not expired are claimed to be defective in material or workmanship, Draka EHC 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 EHC, the Buyer shall prepay all transportation charges for such return. (d) Any claim for breach of Draka EHC's warranties shall conclusively be deemed to be waived unless written notice of such claim is given to Draka EHC within ten (10) days after the date on which the claimed defect is discovered. (e) Draka EHC's warranties shall be null and void if the original buyer for use transfers ownership of the warranted goods, unless Draka EHC 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 EHC'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 EHC. Further, Draka EHC's warranties shall not apply to any goods or parts thereof which are obtained from manufacturers other than Draka EHC and resold by Draka EHC. (g) THE WARRANTIES SET FORTH HEREIN ARE DRAKA EHC'S SOLE AND EXCLUSIVE WARRANTIES FOR OR RELATING TO THE GOODS. Draka EHC 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 EHC 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 EHC'S WARRANTIES, OBLIGATIONS AND LIABILITIES AND BUYER'S REMEDIES SET FORTH HEREIN ARE LIMITED TO THEIR PRECISE TERMS. DRAKA EHC 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 EHC'S WARRANTIES OR ANY BREACH THEREOF.

#### Cancellation

Orders may be cancelled only with Draka EHC's written consent.

### ORDERING INFORMATION

All catalogued items are generally in stock and available for immediate delivery. Call Draka EHC for the name of the distributor nearest you.

Draka EHC reserves the right to improve, enhance, or modify the features and specifications of Draka EHC products without prior notification.

### TRADEMARK INFORMATION

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1-877-DRAKA EP (877-372-5237)  
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