

Insul-8 Mobile Electrification

Cable & Hose Reels ◆ Bar ◆ Festoon ◆ Pendants ◆ Radio Controls ◆ Slip Rings

Solutions From A Single Source

Cable Reels



Shown above are cable reels from Insul-8's PowerReel line.

Cable Reel Basics
Determining Cable Requirements
Insul-8 Cable Reels - Features & Dimensions
Options - Added Features and Accessories for Reels
Specialty Reels

See inside for the most complete Reel Selection Chart in the industry.

ABOUT INSUL-8 CORPORATION

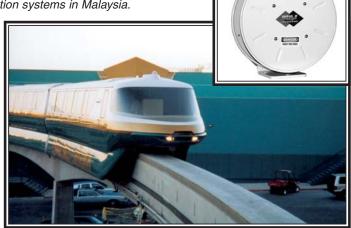
YOUR SINGLE SOURCE FOR MOBILE ELECTRIFICATION



Since our inception in 1902, Insul-8 Corporation's parent company, Delachaux S.A., has been a leading international presence in the business of providing mobile electrification. As the Delachaux arm in North and South America, Insul-8 Corporation (formerly sister companies Insul-8 and Industrial Electric Reels, Inc. - a.k.a. IER) carries on this tradition of innovation and excellence. Insul-8 and IER became part of the Delachaux Group in 1975 and officially became one company on December 31, 1996. Each company has its own rich history.

You'll find Insul-8 products in use everywhere from irrigation systems and manufacturing plants in the heartland of the United States to public transportation systems in Malaysia.

Industrial Electric Reels, Inc., began in 1924 with the founding of Industrial Electric Works (IEW), an electrical contractor based in Omaha, Nebraska. After World War II, IEW began the manufacture of electric cable reeling equipment and started IER as an operating division in 1948. IER's first cable reel, the hand rewind Series 102 PORT-O-REEL, was quickly followed by light-duty spring retractable cable reels. IER pioneered the development of cable reeling devices and slip rings. Soon the business expanded to larger, custom built motor driven reels and custom engineered slip rings. IER's reputation spread as a quality manufacturer of reels running the gamut from small commercial duty reels to large custom built reels for the most demanding applications such as container cranes, stacker/reclaimers and bulk material ship loaders and unloaders.



Insul-8 products can electrify items from small industrial machinery to large amusement park rides and international public transit systems.

Insul-8 Corporation has been a pioneer in providing safety-covered metal conductor systems for the material handling industry since 1944. Insul-8 was the first company to design and produce a stainless steel capped aluminum conductor and the only manufacturer of such a product for almost 20 years. Today, there are over 20 million meters

(nearly 12,500 miles) of Insul-8 contact conductors and tens of thousands of collecting devices throughout the world. Every major port in the United States currently uses Insul-8's aluminum/stainless steel contact conductors on container cranes due to the dependability of the bar under the most severe conditions. Insul-a's festoon systems range from the smallest box-track systems to our most rugged Heavy-Duty Festoon. Insul-3's festoons are known for their safe and efficient operation in which large numbers of conductors can be handled in minimum space.

Insul-8 has been in the business of supplying power from stationary sources to mobile systems for 60 years. Insul-8's cable reels, slip rings, conductor bar, festoon systems, pendants and radio controls are used in a wide variety of applications ranging from material handling and mass transit systems to water treatment plants and performing arts theaters. As it has been for the last 60 years and alway will be, "conducting" business will continue to be our only business.

In December 1997, after a nine month endeavor, Insul-8 Corporation became ISO 9001 certified for the design and manufacture of our entire line of mobile electrification products in both of our U.S.A. plants in Omaha, Nebraska, and Harlan, Iowa.

- ◆ cable and hose reels ◆ conductor bar systems ◆ cable festoon systems ◆
- ♦ slip rings ♦ pendant stations ♦ radio controls ♦ www.insul-8.com



Specifications may change without notice. All products F.O.B. Omaha, NE, or Harlan, IA, unless otherwise specified.

Don't see what you need? Call us!

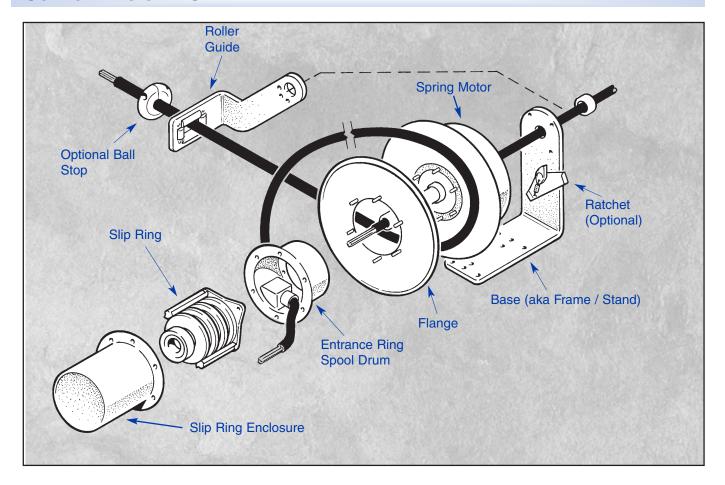
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CABLE REEL BASICS

COMPONENTS OF A CABLE REEL



FIVE E	BASIC PARTS:
BASE/ STAND:	Supports and mounts the reel.
SPRING MOTOR:	Motor which rotates the spool.
SPOOL:	Composed of a Drum and two Flanges.
SLIP RING:	Transfers power from a stationary source to rotating source.
ROLLER GUIDE:	Guides the cable during payout and rewind.

	DEFINITION OF TERMS
ACTIVE LENGTH:	The difference between the minimum and maximum payout of cable. (See "PAYOUT" below)
SAFETY WRAP:	Cable that stays on the reel at maximum payout. (Usually 2 complete wraps.)
SAG FACTOR:	The effect of gravity on actual travel length during stretch applications. (6% - 10%.)
LIFT HEIGHT:	The distance between where the cable lays to the center line of spool. (Drag / Retrieve.)
PAYOUT:	Pulling cable out of the reel.
RETRACT or REWIND:	Rewinding cable back into the reel.

CABLE REEL BASICS

How To Select The Right Cable Reel

In order to use the **Cable Reel Selection Chart** insert, first determine your mechanical, electrical and cable length requirements. Follow these three steps to make sure you get the best reel for your application needs. **Your local representative or the sales team at our factory are glad to help if you need additional assistance.**

Step 1 - Mechanical Requirements:

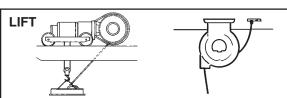
- How will the reel be used? Stretch, Lift, Drag, or Retrieve? (See below for guidance.)
- In what type of environment will the reel be located? (Indoors, outdoors, corrosive environment.)
- What is the Duty Cycle? (How often will the reel payout and retract?)
- What is the maximum speed of equipment? (Maximum recommended speed is 150 feet per minute.)

NOTE: For magnet crane applications, please refer to Insul-8's Magnetic Coupler Reels catalog.

* High cycles (20K plus), harsh environments, etc., may require a premium cable. (Consult factory if any questions.)



The cable is "stretched" horizontally and is unsupported. The reel may be stationary mounted or mounted onto moving equipment. Cable is pulled out by machine. An extra 6%-10% in cable beyond active travel is required for cable sag .



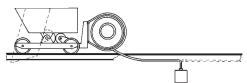
The reel needs to "lift" the cable vertically. The reel is usually stationary. Cable is pulled out of the reel by machine or by hand (as with an overhead lightsource or a pendant station.)

DRAG



The reel needs to "drag" the cable through supports or along the ground horizontally. The reel is usually stationary. Cable can be pulled out by hand or by machine. Note: This application is the hardest on cable life.

RETRIEVE



The reel needs to pickup ("retrieve") the cable. The reel is mounted on moving equipment. Cable is pulled out by machine.

Step 2 - Electrical Requirements: (See Determining Cable Requirements pages 5-8 for help.)

- How much amperage is the cable reel expected to handle?
- At what voltage?
- What will the reel be required to handle: power, control, or communication signals?
- How many total conductors are required? (Please include one conductor for dedicated ground.)
- What gauge (AWG) cable is required? The amperage and total number of conductors required will determine the gauge. (For assistance, please refer to Cable Data Charts on page 6.)

Step 3 - Cable Length Requirements:

ADD: <u>Active Length</u>: The difference between the minimum and maximum operating payout.

PLUS Inactive Length: Cable that always stays out of the reel, even at full retraction.

PLUS Safety Wrap:* Cable that stays on the reel at maximum payout - See note below for details.

PLUS Sag Factor - (Stretch Only): Add 10% to Active and Inactive length total.

PLUS Lift Height - (Drag/Retrieve): The distance between where the cable lays up to the spool center line. Max 4'.

PLUS Hook up Length: Cable required for termination at both ends -- 2-3' Spool End.

(*) NOTE: 1200 SERIES = 2' ♦ 1400 SERIES = 2' ♦ 1400 SERIES = 2' ♦ 1400 SERIES = 5' ♦ DEF-H &M SERIES = 5-7' ♦ 1500 SERIES = 3' ♦ HW20 = 2' ♦ HW30 = 2' ♦ HW40 = 5' ♦ HW40 =

MOTOR DATA

150

200

415.0

550.0

360.0

480.0

			мото	R AMF	PERAGE	E DRAW	(AT FU	LL LO	AD OF	60 Hz)				
3 PHASE A.C. Induction Type - Squirrel Cage & Wound Rotor					Single Phase Direct Cu			ect Cur	rent					
115V	200V	230V	460V	575V	2300V	4160V	HP	115V	230V	HP	120V	240V	HP	240V
4.0	2.3	2.0	1.0	.8			1/6	4.4	2.2					
5.6	3.2	2.8	1.4	1.1			1/4	5.8	2.9	1/4	2.9	1.5	15	55
7.2	4.15	3.6	1.8	1.4			1/3	7.2	3.6	1/3	3.6	1.8	20	72
10.4	6.0	5.2	2.6	2.1			1/2	9.8	4.9	1/2	5.2	2.6	25	89
13.6	7.8	6.8	3.4	2.7			3/4	13.8	6.9	3/4	7.4	3.7	30	106
	11.0	9.6	4.8	3.9			1	16.0	8.0	1	9.4	4.7	40	140
	17.5	15.2	7.6	6.1			1 1/2	20.0	10.0	1 1/2	13.2	6.6	50	173
25.0	22.0	11.0	9.0				2	24.0	12.0	2	17.0	8.5	60	206
	32.0	28.0	14.0	11.0			3	34.0	17.0	3	25.0	12.5	75	225
	48.0	42.0	21.0	17.0			5	56.0	28.0	5	40.0	20.0	100	341
	62.0	54.0	27.0	22.0			7 1/2	80.0	40.0	7 1/2	58.0	29.0	125	425
	78.0	68.0	34.0	27.0			10	100.0	50.0	10	76.0	38.0	150	506
	92.0	80.0	40.0	32.0									200	675
	120.0	104.0	52.0	41.0									Over 20	0
	150.0	130.0	65.0	52.0									Approx.	
	177.0	154.0	77.0	62.0	16.0	8.9							amps/H	P 3.4
	221.0	192.0	96.0	77.0	20.0	11.0		0		/ E				
	285.0	248.0	124.0	99.0	26.0	14.4		CEL	SIUS	/ FAH	IREN	HEIT		
	358.0	312.0	156.0	125.0	31.0	17.0			TEMP	DATUD	- 00111/	- DOLONI	FADLE	
	4.0 5.6 7.2 10.4 13.6	115V 200V 4.0 2.3 5.6 3.2 7.2 4.15 10.4 6.0 13.6 7.8 11.0 17.5 25.0 32.0 48.0 62.0 78.0 92.0 120.0 150.0 177.0 221.0 285.0 285.0	115V 200V 230V 4.0 2.3 2.0 5.6 3.2 2.8 7.2 4.15 3.6 10.4 6.0 5.2 13.6 7.8 6.8 11.0 9.6 17.5 15.2 25.0 22.0 11.0 32.0 28.0 48.0 42.0 62.0 54.0 78.0 68.0 92.0 80.0 120.0 104.0 150.0 130.0 177.0 154.0 221.0 192.0 285.0 248.0	SE A.C. Induction Type - Squir 115V 200V 230V 460V 4.0 2.3 2.0 1.0 5.6 3.2 2.8 1.4 7.2 4.15 3.6 1.8 10.4 6.0 5.2 2.6 13.6 7.8 6.8 3.4 11.0 9.6 4.8 25.0 22.0 11.0 9.0 32.0 28.0 14.0 48.0 42.0 21.0 62.0 54.0 27.0 78.0 68.0 34.0 92.0 80.0 40.0 120.0 104.0 52.0 150.0 130.0 65.0 177.0 154.0 77.0 221.0 192.0 96.0 285.0 248.0 124.0	SE A.C. 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We have supplied this chart *(see above: MOTOR DATA)* outlining the most common combinations of Motor Horsepower (HP) in relation to Voltage used and the resulting Amperage Draw.

240.0

180.0 | 144.0 |

192.0

37.0

49.0

20.5

27.0

- 1) Determine Amperage Draw based on Horsepower and Voltage.
- 2) Use the Cable Data Chart (see page 6) to determine cable gauge and number of conductors for your application.

Direct Current - requires 2 circuits/conductors Single Phase - requires 3 circuits/conductors Three-Phase - requires 4 circuits/conductors

NOTE: DC magnets require double the amp rating of magnet cold amp rating for the <u>slip ring only</u>, <u>not cable</u>.

Insul-8 manufactures a complete selection of magnet reels. To request catalog **MILL001**, contact your rep. or our factory.

	TEMPERATURE CONVERSION TABLE								
	Locate known temperature in °C/°F column. Read converted temperature in °C or °F column.								
°C	°C/°F	٥F	°C	°C/°F	°F	°C	°C/°F	°F	
-45.4	-50	-58	15.5	60	140	76.5	170	338	
-42.7	-45	-49	18.3	65	149	79.3	175	347	
-40	-40	-40	21.1	70	158	82.1	180	356	
-37.2	-35	-31	23.9	75	167	85	185	365	
-34.4	-30	-22	26.6	80	176	87.6	190	374	
-32.2	-25	-13	29.4	85	185	90.4	195	383	
-29.4	-20	-4	32.2	90	194	93.2	200	392	
-26.6	-15	5	35.0	95	203	96.0	205	401	
-23.8	-10	14	37.8	100	212	98.8	210	410	
-20.5	-5	23	40.5	105	221	101.6	215	419	
-17.8	0	32	43.4	110	230	104.4	220	428	
-15	5	41	46.1	115	239	107.2	225	437	
-12.2	10	50	48.9	120	248	110.0	230	446	
-9.4	15	59	51.6	125	257	112.8	235	455	
-6.7	20	68	54.4	130	266	115.6	240	464	
-3.9	25	77	57.1	135	275	118.2	245	473	
-1.1	30	86	60.0	140	284	120.9	250	482	
1.7	36	95	62.7	145	293	123.7	255	491	
4.4	40	104	65.5	150	302	126.5	260	500	
7.2	45	113	68.3	155	311	129.3	265	509	
10	50	122	71.0	160	320	132.2	270	518	
12.8	55	131	73.8	165	329	135	275	527	

 $^{\circ}F = (9/5 \times ^{\circ}C) + 32$ $^{\circ}C = 5/9 (^{\circ}F - 32)$

DATA CHARTS

NOTE: Cable data specific to cable brand supplied on Insul-8 reels sold with cable.

All data based on Assembly of Insul-8 Reels with stated cable with 90°C conductor temperature. Rating based on an ambient temperature of 30°C, derating for a control cable of more than 3 current carrying conductors per N.E.C. Nominal diameters and weights shown will vary with different manufacturers. If you don't see the cable types and sizes you need - contact Insul-8 or your local representative.

	Reel with Type SOW-A / SOOW-A Cable, 600 Volts														
	16 A	WG			14 <i>A</i>	WG		12 AWG				10 AWG			
No. Cond.	amps	Dia. In.	Weight Lb./Ft.	No. Cond.	amps	Dia. In.	Weight Lb./Ft.	No. Cond.	amps	Dia. In.	Weight Lb./Ft.	No. Cond.	amps	Dia. In.	Weight Lb./Ft.
2	10	.405	.083	2	15	.530	.137	2	20	.605	.169	2	25	.640	.221
3	10	.430	.102	3	15	.560	.169	3	20	.640	.230	3	25	.690	.283
4	8	.485	.135	4	12	.605	.209	4	16	.670	.270	4	20	.750	.350
5	8	.525	.153	5	12	.685	.262	5	16	.730	.319	5	20	.815	.419
6	8	.565	.177	6	12	.740	.302	6	16	.800	.372	6	20	.880	.484
7	7	.605	.202	7	10.5	.785	.329	7	14	.860	.429	7	17.5	.980	.590
8	7	.645	.221	8	10.5	.845	.373	8	14	.915	.472	8	17.5	1.050	.652
10	5	.720	.278	10	7.5	.905	.434	10	10	1.015	.577	10	12.5	1.125	.762
12	5	.740	.305	12	7.5	.930	.481	12	10	1.045	.642	12	12.5	1.155	.853
14	5	.775	.348	14	7.5	.980	.556	14	10	1.100	.740	14	12.5	1.225	.987
16	5	.825	.386	16	7.5	1.075	.657	16	10	1.155	.837	16	12.5	1.290	1.121
20	5	.900	.466	20	7.5	1.180	.786	20	10	1.285	1.002	20	12.5	1.460	1.410
24	5	1.015	.573	24	7.5	1.290	.920	24	10	1.445	1.230	24	12.5	1.600	1.645
25 >					Consult	Factory	(Varies du	ie to ava	ilability a	nd manı	ıfacturer).				

Ampacities are based on 90°C insulation when all conductors are carrying power. Data is for engineering information only. Insul-8 cannot specifically recommend ampacities, since the exact application shall comply with applicable codes.

Reel with Type W Cable 600 Volts							
Wire Size AWG	# of Conductors	amps	Diameter Inches	Weight Lbs. / Ft.			
	2	50	.81	.420			
8		50	.91	.585			
	4	45	.99	.675			
	2	65	.93	.570			
6	3	65	1.01	.754			
	4	55	1.10	.880			
	2	75	1.08	.785			
4	3	75	1.17	.980			
	4	65	1.27	1.220			
	2	110	1.27	1.135			
2	3	110	1.34	1.410			
	4	100	1.48	1.625			
	2	140	1.44	1.445			
1	3	130	1.51	1.865			
	4	110	1.68	2.230			
	2	150	1.52	1.685			
1/0	3	145	1.65	2.180			
	4	130	1.79	2.700			
	2	195	1.65	2.040			
2/0	3	170	1.75	2.510			
	4	150	1.93	3.240			
	2	225	1.71	2.420			
3/0	3	195	1.89	3.085			
	4	170	2.07	3.885			
	2	260	1.92	2.950			
4/0	3	220	2.04	3.770			
	4	190	2.26	4.805			

Reel with Type G - GC Cable 600 Volts								
Wire Size AWG	# of Conductors	amps	Diameter Inches	Weight Lbs. / Ft.				
8		50	.97	.597				
6	3 + Grd.	65	1.05	.764				
4		85	1.19	1.070				
2		115	1.34	1.533				
1	3 + Grd.	130	1.51	1.965				
1/0	3 + Glu.	145	1.65	2.315				
2/0		170	1.75	2.750				
3/0	3 + Grd.	195	1.89	3.330				
4/0	3 + Glu.	220	2.04	4.195				

	Reel with Welding Cable								
Wire Size AWG	amps	amps Approx. Diameter Inches							
6	95	.370	.125						
4	150	.420	.200						
2	200	.490	.275						
1	250	.530	.365						
1/0	350	.610	.435						
2/0	450	.635	.550						
3/0	450	.720	.685						
4/0	660	.810	.850						

CABLE TYPES

Insul-8's cable reels are designed to handle several specific types of cable. Type **SJOW-A** is used for smaller cord reels and several of the 1200 Series PowerReels. Type **SOW-A** or Type **SOOW-A** cable is used on cable reels requiring 16 through 10 gauge cable. Typically, reels requiring 8 through 4/0 gauge cable use Type **G** or **W** cable. For more detailed information on Types SOW-A, G and W cable, as well as specialty welding cable, please refer to page 6. (Specifications may vary between manufacturers.)

NOTE: Our reels can be used with other types of cable not specified in this catalog. Since cable diameter and weight are critical to proper reel selection, please contact the factory for assistance.

Туре	Conductor Temperature	Max. Voltage Rating	Conductor Insulation	Jacket	No. of Conductors	Ground Conductors			
SJOW-A	90°C	300	CPE	CPE (or equal)	1-4	N/A			
SOW-A	90°C	600	EPDM	CPE (or equal)	2-36	N/A			
SO	90°C	600	Rubber or EPR	Neoprene (or equal)	2-36	N/A			
W	90°C	600	600 Rubber or EPR Neoprene (or equal) 2-4 N/A						
G - GC	90°C	600	Rubber or EPR Neoprene (or equal) 3 Yes						
Premium	Premium SO/W base cable. Designed for harsh & heavy-duty applications. Availability & specifications vary at time of request.								

CABLE CHARACTERISTICS (May Vary Between Cable Manufacturers)

"SJOW-A"/"SJOOW-A"

- General purpose, CDE jacket cable with fine stranding for flexibility.
- Resistant to oil, water and weather.
- Suitable for Outdoor use.
- ♦ 300 Volts

"SOW-A" / "SOOW-A"

- General purpose, CDE jacket cable (larger over all dia. as compared to SJOW-A/SJOOW-A) with fine stranding for flexibility.
- Resistant to oil, water and weather.
- Suitable for Outdoor use.
- ♦ 600Volts

"SO" or "W"

- ◆ General purpose, neoprene jacket cable with fine stranding for flexibility.
 Type SO ≤ 8 AWG.
 Type W ≥ 8 AWG.
- Resistant to oil and water.
- Suitable for Outdoor use
- ♦ 600 Volts

"G - GC"

- ◆ Same as Type W. Type G GC also has a grounding conductor divided into three smaller wires rather than one large wire as in Type W. Smaller diameter, symmetrical construction.
- Resistant to oil, acids, alkalids, heat, water, most chemicals.
- ◆ Suitable for Outdoor use.
- ♦ 600 volts

CABLE CHARACTERISTICS (May Vary Between Cable Manufacturers)

Cond. No.	Base Color	Tracer Color	Cond. No.	Base Color	Tracer Color	Cond. No.	Base Color	Tracer Color
* 1	Green		11	Blue	Black	21	Orange	Green
* 2	Black		12	Black	White	22	Black	
* 3	White		13	Red	White	23	White	
*4	Red		14	Green	White	24	Red	
5	Orange		15	Blue	White	25	Green	
6	Blue		16	Black	Red	26	Orange	
7	White	Black	17	White	Red	27	Blue	
8	Red	Black	18	Orange	Red	28	White	Black
9	Green	Black	19	Blue	Red	29	Red	Black
10	Orange	Black	20	Red	Green	30	Green	Black

(*) For D, E, F, H, & M Series cable reels manufactured in 1997 and prior years:

1=Black, 2=White, 3=Red, 4=Green. All others remain the same.

ELECTRICAL FORMULAS

Ohms Law

Power

Watts = amperes x volts

Amperes = watts volts

HP = volts x amps x efficiency 746

Power watts
Factor = amperes x volts

3-phase volts x amperes x power factor x 1.732

Kilowatts = 1000

3-phase 746 x HP (Horsepower)

Amperes = 1.732 x volts x efficiency x power factor

3-phase Volt-Amperes = volts x amperes x 1.732

Single-phase volts x amperes x power factor

Kilowatts = 1000

Single-phase
Amperes = 746 x HP (Horsepower)

volts x efficiency x power factor

Speed

METRIC CONVERSION

Celsiusº / Fahrenheitº

For quick and easy temperature conversion, please use the **Celsius / Fahrenheit** crossover chart provided on page 5.

To Obtain	Multiply
Millimeters	Inches x 25.4
Inches	Millimeters x 0.0394
Meters	Feet x .3048
Feet	Meters x 3.281
Square Centimeters	Square Inches x 6.45
Square Inches	Square Centimeters x 0.155
Kilograms	Pounds x 0.4536
Pounds	Kilograms x 2.205
Kilograms per Meter	P/P/F ÷ .6719
Pounds per Foot	Kilograms P/M x .6719

Insul-8's Cable Reel Family



1200 Series PowerReel p. 11



1400 Series PowerReel p. 13



1400 Series Welding Reel p. 41



1500 Series Hazardous Duty p. 39



1900 / 2400 Series PowerReel p. 15



3200 / 3600 Series PowerReel p. 17



D, E, and F Series Reel p. 19



H & M Series Reel p. 23



Series 20 Hand Rewind Reel p. 43



Series 30 Hand Rewind Reel p. 43



Series 40 Hand Rewind Reel p. 43



Series 60 Hand Rewind Reel p. 44



1400 Series Torque Reel p. 45



Series E/F Torque Reel



Series TM Balance Reel



Hand Rewind Cord Reel p. 10



Yellow Economy Cord Reel p. 10



White Economy Cord Reel p. 10



SDR Series Grounding Reel p. 47

Information subject to change without notice

ECONOMY SERIES CORD REELS

ECONOMY HAND REWIND REEL

Rugged and lightweight, offers safe and convenient means of handling and storing electric cable, extension cords or wire. For indoor use only.

Reel	Part		Cab	ole	Cable	Max. F	Rating
Type	Number	Size	Type	Length (ft.)	Accessory	amps	Volts
_	06714-163-0	16/3	SJOW-A	-	-	10	250
1	06714-143-0	14/3	SJOW-A	-	-	15	250
	06714-123-0	12/3	SJOW-A	-	-	20	250
	06714-163-0-QB	16/3	SJOW-A	-	-	10	120
2	06714-143-0-QB	14/3	SJOW-A	-	-	15	120
	06714-123-0-QB	12/3	SJOW-A	-	-	20	120
	06714-163-1-QB	16/3	SJOW-A	100	-	10	120
	06714-163-2-QB	16/3	SJOW-A	200	-	10	120
3	06714-143-1-QB	14/3	SJOW-A	100	-	15	120
	06714-143-2-QB	14/3	SJOW-A	125	-	15	120
	06714-123-1-QB	12/3	SJOW-A	100	-	20	120
	06714-163-1	16/3	SJOW-A	100	-	10	250
	06714-163-2	16/3	SJOW-A	200	-	10	250
4	06714-143-1	14/3	SJOW-A	100	-	15	250
	06714-143-2	14/3	SJOW-A	125	-	15	250
	06714-123-1	12/3	SJOW-A	100	-	20	250
5	06714-163-1-H	16/3	SJOW-A	100	HSR	10	120
J	06714-163-2-H	16/3	SJOW-A	200	HSR	10	120
	06714-163-1-R	16/3	SJOW-A	100	RB	10	120
	06714-163-2-R	16/3	SJOW-A	200	RB	10	120
6	06714-143-1-R	14/3	SJOW-A	100	RB	15	120
	06714-143-2-R	14/3	SJOW-A	125	RB	15	120
	06714-123-1-R	12/3	SJOW-A	100	RB	20	120











Type 4

Type 5



Type 6

Notes: 1) Reel types 1 & 2 are without cable. Cable is for reference only.

- 2) See pages 26 to 38 for specifications on accessories.
- 3) Reel types 2 & 3 are without slip ring, all other types include 120/250V slip ring.

ECONOMY HAND REWIND REEL





Dry Location Use.

Part No.	Description	Weight
06716	Economy hand rewind reel with 25' 16/3 SJT cord. 4 outlets	3.7 Lbs.

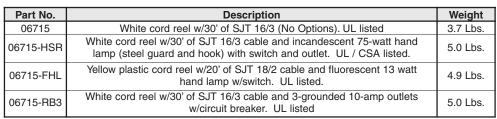
Featuring:

- High impact polymer housing
- UL listed for outdoor use

Reel Includes:

- Cord 25' 16/3 type SJT
- 4 outlets grounded 115V, 60 Hz
- Carrying handle molded into case
- 10 amp circuit breaker

ECONOMY Spring-Driven Cord Reel



Featuring:

- 9-1/4" x 3" dia. steel housing
- Cable guide
- UL listed for indoor use
- 10 amp 125VAC

Reel Includes:

- Feeder cord 2' long with plug
- Locking ratchet
- **Ball stop**
- Hardware for wall or ceiling mount

Don't see what you need? Call us!

FEATURES

Our 1200 Series PowerReel is the best built cord and small cable reel on the market today. The price and quality are outstanding. Let Insul-8 put you into a better reel at a better price.

◆ Ideal for use in: drop lights, truck crane control cables, conveyors and utility trucks.



- UL / CSA Listed
- Reels with SJOW cable rated at 300V (Less Accessory)
- · Reels with SOW-A rated at 600V
- Finish safety yellow Powder-Coated

Reels Include:

- Guide Arm Removable 4-Roller, adjustable to 12 positions for efficient cable storage
- Ratchet Includes auto locking ratchet for constant tension
- · Adjustable ball stop included
- 6' feeder cord (SJOW cable versions include 3-prong molded plug)
- All reels come with one conductor grounded to reel (Example: 3 conductors = 2 live + 1 ground)
- * High cycles (20K plus), harsh environments, etc., may require a premium cable (consult factory if any questions).

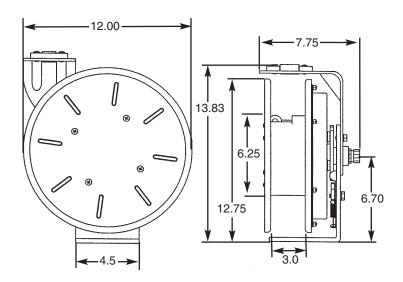
Available with or without Type SJOW-A/SJOOW-A or SOW-A/SOOW-A cable pre-installed (See page 12.)

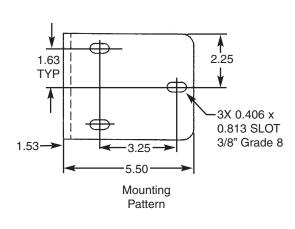
NOTE: Add an extra 3' of cable for hookup/safety wrap, plus 10% extra cable for stretch applications due to sag factor.

Available with and without handlamps or receptacle box pre-installed (See page 12.)

Please see pages 26 to 38 for more options for Insul-8's entire family of reels.

DIMENSIONS





Optional Swing Mount Base (not shown)
Part No: 35087

SELECTION CHART (UL LISTED REELS WITH CABLE & OPTIONS)

Cable is actual length. To calculate active travel, subtract 3 feet from cable length in the description column.

PART #	DESCRIPTION	NEMA	VOLTS/AMPS	EST. Weight
121160302511	Spring Reel w/25' 16/3 SJOW-A, lift/drag appl.	2	125/10*	20 lbs.
121160302512	Spring Reel w/25' 16/3 SJOW-A, w/Recpt. Box, lift/drag appl.	2	125/10*	22 lbs.
121160302513	Spring Reel w/25' 16/3 SJOW-A, w/Handlamp, lift/drag appl.	2	120/10*	24 lbs.
121160302514	Spring Reel w/25' 16/3 SJOW-A, w/Fluor. Handlamp, lift/drag appl.	2	125/10*	24 lbs.
121160303511	Spring Reel w/35' 16/3 SJOW-A, lift/drag appl.	2	125/10*	21 lbs.
121160303512	Spring Reel w/35' 16/3 SJOW-A, w/Recpt. Box, lift/drag appl.	2	125/10*	23 lbs.
121160303513	Spring Reel w/35' 16/3 SJOW-A, w/Handlamp, lift/drag appl.	2	125/10*	25 lbs.
121160303514	Spring Reel w/35' 16/3 SJOW-A, w/Fluor. Handlamp, lift/drag appl.	2	120/10*	25 lbs.
121160305011	Spring Reel w/50' 16/3 SJOW-A, lift/drag appl.	2	125/10*	23 lbs.
121160305012	Spring Reel w/50' 16/3 SJOW-A, w/Recpt. Box, lift/drag appl.	2	125/10*	24 lbs.
121160305013	Spring Reel w/50' 16/3 SJOW-A, w/Handlamp, lift/drag appl.	2	125/10*	26 lbs.
121160305014	Spring Reel w/50' 16/3 SJOW-A, w/Fluor. Handlamp, lift/drag appl.	2	120/10*	26 lbs.
121160403511	Spring Reel w/35' 16/4 SJOW-A, lift/drag appl.	4	300/8	22 lbs.
121160405011	Spring Reel w/50' 16/4 SJOW-A, lift/drag appl.	4	300/8	27 lbs.
121140303011	Spring Reel w/30' 14/3 SJOW-A, lift/drag appl.	2	125/15	24 lbs.
121140303011	Spring Reel w/30' 14/3 SJOW-A, w/Recpt. Box, lift/drag appl.	2	125/15	25 lbs.
121140303012	Spring Reel w/30' 14/3 SJOW-A, w/Handlamp, lift/drag appl.	2	125/15	25 lbs.
121140303013	Spring Reel w/30' 14/3 SJOW-A, w/Fluor. Handlamp, lift/drag appl.	2	120/15	25 lbs.
121140303014	Spring Reel w/30' 14/3 SJOW-A, w/11doi: Halidianip, initidiag appl. Spring Reel w/30' 14/3 SJOW-A, w/15amp GFCI Recpt. Box, lift/drag appl.	2	125/15	29 lbs.
121140303017	Spring Reel w/30 14/3 SJOW-A, w/13amp GPCI Recpt. Box, initidiag appl.	2	125/15	27 lbs.
121140304011	Spring Reel w/40 14/3 SJOW-A, w/Recpt. Box, lift/drag appl.	2	125/15	27 lbs. 29 lbs.
121140304012	7 7 7 0 11	2	125/15	29 lbs.
121140304013	Spring Reel w/40' 14/3 SJOW-A, w/Handlamp, lift/drag appl. Spring Reel w/40' 14/3 SJOW-A, w/Fluor. Handlamp, lift/drag appl.	2	120/15	29 lbs.
	7 17 3 11			
121140304017 121140305011	Spring Reel w/40' 14/3 SJOW-A, w/15amp. GFCl Recpt. Box, lift/drag appl. Spring Reel w/50' 14/3 SJOW-A, lift/drag appl.	2	125/15	29 lbs.
121140305011	Spring Reel w/50 14/3 SJOW-A, illudrag appl. Spring Reel w/50' 14/3 SJOW-A, w/Recpt. Box, lift/drag appl.	2	125/15 125/15	29 lbs.
	, , , , , , , , , , , , , , , , , , , ,			30 lbs.
121140305013	Spring Reel w/50' 14/3 SJOW-A, w/Handlamp, lift/drag appl.	2	125/15	30 lbs.
121140305014	Spring Reel w/50' 14/3 SJOW-A, w/Fluor. Handlamp, lift/drag appl.	2	120/15	30 lbs.
121140305017	Spring Reel w/50' 14/3 SJOW-A, w/15amp GFCI Recpt. Box, lift/drag appl.	2	125/15	30 lbs.
121140403511	Spring Reel w/35' 14/4 SJOW-A, lift/drag appl.	4	300/12	25 lbs.
121120302511	Spring Reel w/25' 12/3 SJOW-A, lift.drag appl.	2	125/20	24 lbs.
121120302516	Spring Reel w/25' 12/3 SJOW-A w/20amp Recpt. Box, lift/drag appl.	2	125/20	26 lbs.
121120302517	Spring Reel w/25' 12/3 SJOW-A w/20amp GFCI Recpt. Box, lift/drag appl.	2	125/20	23 lbs.
121120305011	Spring Reel w/50' 12/3 SJOW-A, lift/drag appl.	2	125/20	28 lbs.
121120305016	Spring Reel w/50' 12/3 SJOW-A, w/20amp Recpt. Box lift/drag appl.	2	125/20	29 lbs.
121120305017	Spring Reel w/50' 12/3 SJOW-A, w/20amp GFCI Recpt. Box, lift/drag appl.	2	125/20	29 lbs.
121120402511	Spring Reel w/25' 12/4 SJOW-A, lift/drag appl.	4	300/16	24 lbs.
121120403511	Spring Reel w/35' 12/4 SJOW-A, lift/drag appl.	4	300/16	26 lbs.
122160302511	Spring Reel w/25' 16/3 SOW-A, lift/drag appl.	4	600/10	21 lbs.
122160303511	Spring Reel w/35' 16/3 SOW-A, lift/drag appl.	4	600/10	22 lbs.
122160305011	Spring Reel w/50' 16/3 SOW-A, lift/drag appl.	4	600/10	23 lbs.
122160403511	Spring Reel w/35' 16/4 SOW-A, lift/drag appl.	4	600/8	23 lbs.
122160405011	Spring Reel w/50' 16/4 SOW-A, lift/drag appl.	4	600/8	25 lbs.
122140303011	Spring Reel w/30' 14/3 SOW-A, lift/drag appl.	4	600/15	24 lbs.
122140304011	Spring Reel w/40' 14/3 SOW-A, lift/drag appl.	4	600/15	25 lbs.
122140403011	Spring Reel w/30' 14/4 SOW-A, lift/drag appl.	4	600/12	22 lbs.
122120303011	Spring Reel w/30' 12/3 SOW-A, lift/drag appl.	4	600/20	27 lbs.
122120402511	Spring Reel w/25' 12/4 SOW-A, lift/drag appl.	4	600/16	25 lbs.

Handlamp option detail on page 28. Receptical Box option detail on page 33. Pivot base option detail on page 31. (*) Although reels have 15 amp accessories, units are UL Listed at 10 amps.

FEATURES

Insul-8's 1400 Series PowerReel is an excellent reel for medium to heavy-duty industrial applications. This is our most popular series of reels, suitable for the majority of reel applications.

Ideal for use in: drop lights and boxes, extendable conveyor control cables, overhead hoists, truck cranes and ladder trucks and utility trucks.









- UL Listed to U.S. and Canadian Safety Standards for selected reels with cable (as shown on page 14)
- Ideal for Indoor and Outdoor Use (wet or dry)
- Weatherproof NEMA 4X Slip Ring Enclosure
- Heavy All-Steel Construction
- · Safety yellow Powder-Coated Finish
- Numbered Terminal Blocks for Simplified Hookup
- Formed Steel Stand with Multiple Mounting Holes
- Guide Arm (4-roller, adjustable to 12 positions for efficient cable storage)
- · Ratchet Positive lock including constant tension feature
- Exclusive R-Series Slip Ring 35 amp/600 Volt
- Available in Welding & Grounding Reel Version (pages 41-42 and 47)
- Available in a hose reel version (see HR001 catalog)
- All reels come with one conductor grounded to reel (Ex. 3 conductors = 2 live cond + 1 ground)

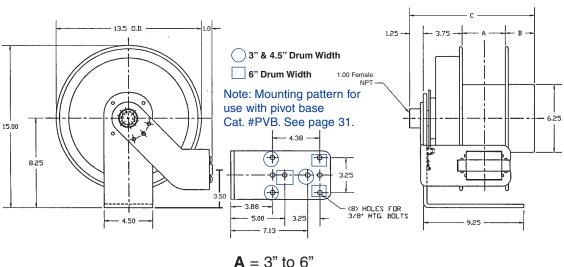
Ideal For Crane Classes A - C

Available with Type SOW-A or SOOW-A Cable Installed. (See page 14.)

Please see pages 26 through 38 for more options for Insul-8's entire family of reels.

* High cycles (20K plus), harsh environments, etc., may require premium cable (consult factory if any questions).

DIMENSIONS



B = 3.5" to 8.5"

C = 13" to 18"

Note: Min. to Max. dimension depicted - consult factory for actual.

UL / CUL LISTED NEMA 4X SELECTION CHART (REELS WITH CABLE)

Cable:		Cable L	ength = Actual ca	able footage insta	alled - (not *active	travel.)	
AWG/ # of Con.	20	30	40	50	60	70	80
16/3	1421603020**	1421603030**	1421603040**	1421603050**	1421603060**	1421603070**	1421603080**
16/4	1421604020**	1421604030**	1421604040**	1421604050**	1421604060**	1421604070**	1421604080xx
16/6	1421606020**	1421606030**	1421606040**	1421606050**	+	+	+
16/8	1421608020**	1421608030**	1421608040**	1421608050**	+	+	+
16/10	1421610020**	1421610030**	1421610040**	+	+	+	+
16/12	1421612020**	1421612030**	1421612040**	+	+	+	+
14/3	1421403020**	1421403030**	1421403040**	1421403050**	1421403060**	1421403070xx	+
14/4	1421404020**	1421404030**	1421404040**	1421404050**	1421404060**	1421404070xx	+
14/6	1421406020**	1421406030**	1421406040**	1421406050xx	+	+	+
14/8	1421408020**	1421408030**	+	+	+	+	+
14/10	1421410020**	+	+	+	+	+	+
14/12	+	+	+	+	+	+	+
12/3	1421203020**	1421203030**	1421203040**	1421203050**	1421203060**	+	+
12/4	1421204020**	1421204030**	1421204040**	1421204050**	1421204060**	+	+
12/6	1421206020**	1421206030**	+	+	+	+	+
12/8	1421208020**	+	+	+	+	+	+
10/3	1421003020**	1421003030**	1421003040**	1421003050**	1421003060**	+	+
10/4	1421004020**	1421004030**	1421004040**	1421004050**	+	+	+
10/6	1421006020**	1421006030**	+	+	+	+	+

^{*}To determine active travel length, simply subtract 5' (dedicated for hookup and safety wrap) from the cable lengths listed below.

+See selection charts located in the back of this catalog for other nonlisted reels built to UL/cUL standards.

To assure you get the best reel for your application please add the following digits to the above part numbers:

- **11 = Lift and Drag Application
 - 21 = Stretch Application
 - 31 = Retrieve Application
 - xx = Not available in stretch application
- 1) All reels above are UL listed to U.S. and Canadian safety standards / NEMA 4X.
- 2) All reels come with one conductor grounded to the reel. (Ex. 3 conductors = 2 live cond. + 1 ground)
- 3) All reels above come with pre-installed Type SOW-A or SOOW-A cable.
- 4) When using the above chart, be sure total cable length requirement does not exceed the cable provided. For assistance, see Step 3 on page 4 or simply subtract 5' on Lift Drag & Retrieve & 10' on Stretch applications. (Dedicated for hookup, safety wrap & sag.)

REMEMBER: Reels operate best when the cable is pulled straight out from the guide and retracted the same way. To payout and retract cable from various directions, we recommend using a pivot base. (*Please see page 31*.)

Please see pages 26 through 38 for more options for Insul-8's entire family of reels.

1900 / 2400 SERIES POWERREEL

FEATURES

Our 1900 Series and 2400 Series PowerReel is your top-quality, low-cost alternative to other spring reels of higher cable capacity. These reels offer heavy-duty performance at some of the most attractive prices in the market. (1900 Series shown below.)

♦ Ideal for use in: utility trucks, overhead cranes and hoists, aviation hangers, automated material handling, large drop lights and receptacle boxes.



- CSA Certified
- Excellent Performance in Industrial Indoor and Outdoor Applications (wet or dry)
- Built to NEMA 4 Standards
- Heavy All-Steel Construction
- Safety yellow Powder-Coated Finish
- Standard Two-Piece Roller-Guide Design with a 345° Mounting Range
- Safety-Sealed, Lifetime Lubricated Spring Motor Canister
- Generously Sized Slip Ring Housing with Fully Articulating Brushes for Flawless Contact in Adverse Conditions.
- Variety of Ring amp Ratings From 35-150 amps (600 volts on 1-4 conductor. Reels with over 4 conductors are rated for 250 volts per UL requirements, -22°F to 266°F)

Ideal for Crane Classes A - C.

Reels are sized to handle Type SOW-A, Type W or Type G-GC cable. For options, please see below and pages 26 through 38.

Note: Add an extra 7-10 feet of cable for hookup / safety wrap, as well as an extra 10% of total travel length for stretch applications.

* High cycles (20K plus), harsh environments etc., may require a different type of cable (consult factory if any questions).

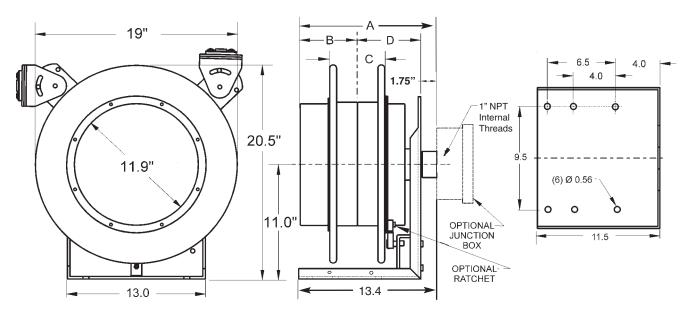
FEATURES

Description	Catalog No	0.									
Guide Rail	40212A (19"	0212A (19"x5") 40212B (24"x5" Reel) 40212AA-K (19"x8" Reel) 40212BB-K (24"x8" Reel)									
Ratchet Assembly	40251 * (A d	or B Pending inte	nded Reel M	odel) <i>Consult Fact</i>	ory						
Spool Lock	40260 * (A d	or B Pending inte	nded Reel M	odel) <i>Consult Fact</i>	ory						
Pivot Base	40274 *										
lunction Boy	Cable Ran	ige									
Junction Box	Catalog No.	W/1" NPT	Catalog No.	W/1.25" NPT	Catalog No.	W/1.50" NPT					
NEMA 12 with 4 Cond. 16-8 AWG	40297	(.31"95" O.D.)									
NEMA 12 with 4 Cond. 6-2 AWG			40298	(.875"-1.2" O.D.)							
NEMA 12 with 12 Cond.	40299A	(.31"95" O.D.)	40299B	(.875"-1.2" O.D.)							
NEMA 12 with 24 Cond.	40921A	(.31"95" O.D.)	40921B	(.875"-1.2" O.D.)	40921C	(1.156"-1.5" O.D.)					
NEMA 12 with 30 Cond.			40922B	(.875"-1.2" O.D.)	40922C	(1.156"-1.5" O.D.)					
NEMA 4 with 4 Cond. 16-8 AWG	40923	(.31"95" O.D.)									
NEMA 4 with 4 Cond. 6-2 AWG			40924	(.875"-1.2" O.D.)							
NEMA 4 with 12 Cond.	40925A	(.31"95" O.D.)	40925B	(.875"-1.2" O.D.)							
NEMA 4 with 24 Cond.	40926A	(.31"95" O.D.)	40926B	(.875"-1.2" O.D)	40926C	(1.156"-1.5" O.D.)					
NEMA 4 with 30 Cond.			40927B	(.875"-1.2" O.D.)	40927C	(1.156-1.5" O.D.)					

● Please see pg 26-38 for more options on Insul-8's entire family of reels ●

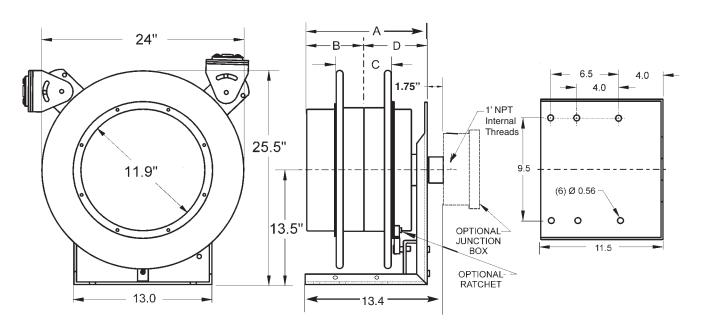
1900 / 2400 SERIES POWERREEL

DIMENSIONS (1900 SERIES)



Dimensions A through D will vary with selected reel and can be provided with quote.

DIMENSIONS (2400 SERIES)



Dimensions A through D will vary with selected reel and can be provided with quote.

3200 / 3600 SERIES POWERREEL

FEATURES

Our Heavy-Duty 3200 & 3600 Series Cable Reels, are designed to meet your applications of the larger magnitude. Standard coverage ranging from 16 AWG to 2 AWG cables, up to 36 conductors in lengths up to 200' (60m)

◆ Ideal for use in: overhead cranes and hoists, aviation hangers, automated material handling and large drop lights.



Standard Features:

- Modular / User Friendly
- Spool Guard Rails
- Roller Guide (Fully Adjustable)
- Integral J-Box & Ring Enclosure
- Lifting Provisions
- External Gear Tensioning
- Quick Change Spring Motor Assembly
- Built to NEMA 4 Standards

Optional Features:

- Options Located on pages 26 through 38
- Limit Switch
- **REELSAFE** (Retraction Governor)
- Ratchet (PN: 43418)
- Left Hand Rotation
- Pivot Base
- Spool Lock (PN: 44433)
- Marine Duty
- Other Customizing Available

Ideal for Crane Classes A - C.

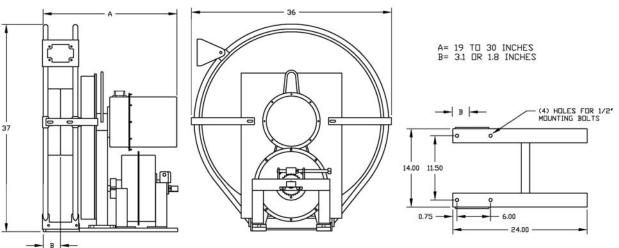
Reels are sized to handle Type SOW-A, Type W or Type G-GC cable. For options, please see below and pages 26 through 38.

Note: Add an extra 7-10 feet of cable for hookup / safety wrap, as well as an extra 10% of total travel length for stretch applications.

* High cycles (20K plus), harsh environments etc., may require a different type of cable (consult factory if any questions).

3200 / 3600 SERIES DIMENSIONS

3200 Series Single Motor



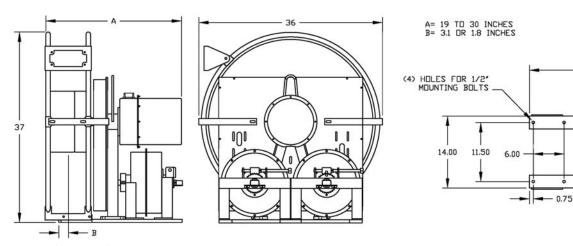
3200 / 3600 SERIES POWERREEL

3200 / 3600 SERIES DIMENSIONS

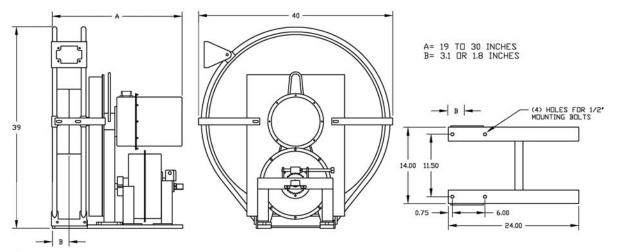
24.00

28.00

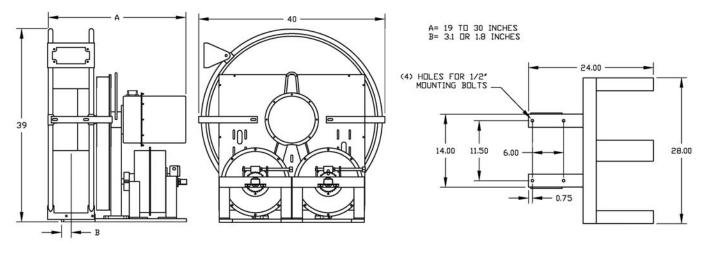
3200 Series Dual Motor



3600 Series Single Motor



3600 Series Dual Motor



D, E, AND F SERIES CABLE REELS

FEATURES

Insul-8's D, E, & F Series Cable Reels are known for their superior performance and ability to be built to custom specifications. A true testament to their durability, many of these D, E, and F Series reels are still in operation after 15, 20 and even 30 years of use.

♦ Ideal for use in: transfer cars in mills, theater lighting, waste water treatment plants, gantry cranes and scrap magnets.



- Built to NEC Standards
- Indoor and Outdoor Use
- Rugged Fabricated Steel Construction
- Heavy-Duty 35 and 150 amp Slip Rings (Customizing Available) (600 volts on 1-4 conductor reels. Reels with over 4 conductors are rated for 250 volts per UL requirements.)
- Weatherproof Slip Ring Enclosure, Built to NEMA 4 Standards
- Direct Drive (1:1 ratio) Spring Motor
- Durable Gray Epoxy-Coated Finish
- Includes NEMA 12 Junction Box as Standard Feature
- 4-Roller Guide, Adjustable to 345° around spool
- Hazardous Duty (Class I & II) Option (See page 29.)
- Can Be Customized to Your Specifications
 (hazardous duty and marine duty options. See pages 29 & 30)
- Long-lasting, Rugged, Reliable Performance
- Available in Hose Reel Version

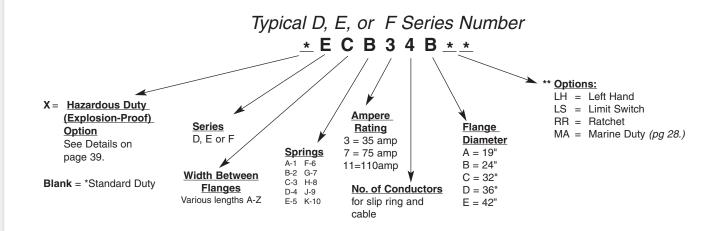
Ideal for Crane Classes A - C.

Available with cable installed and other options. Please see pages 26 to 38.

Note: Add an extra 7 feet of cable for hookup and safety wrap, as well as an extra 6% of total travel length for stretch applications.

* High cycles (20K plus), harsh environments, etc., may require a premium cable (consult factory if any questions).

PART NUMBER DECODER



D, E, and F Series Cable Reels

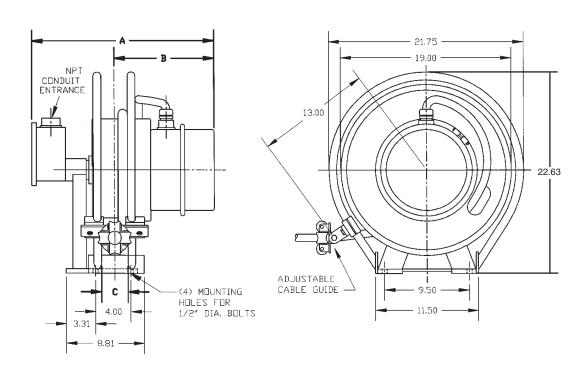
DIMENSIONAL INFORMATION

Insul-8's D, E, & F series cable reels come in five different flange diameters to accommodate an extremely wide range of heavy duty industrial applications. Dimensions for flange diameters of 19", 24", 32", 36" and 42" can be found on pages 20 through 22.

Due to our ability to customize these reels, the "A", "B", and "C" dimensions shown on these drawings will vary widely depending on configuration. All other dimensions are constant. For exact "A", "B", and "C" dimensions, please contact your local Insul-8 representative or a member of the sales team at the Insul-8 factory with your requirements.

NOTE: D, E, & F reels can can be customized for hazardous duty (explosion proof) or marine duty and can meet many other special requirements. This series is also available in a hose reel version.

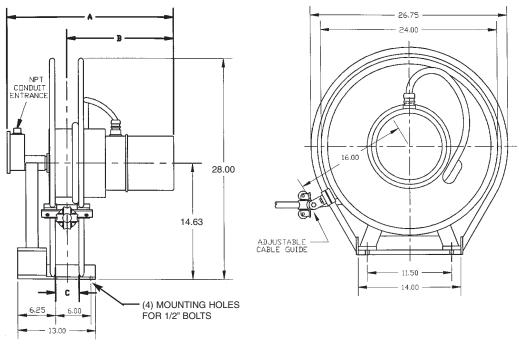
DIMENSIONAL INFORMATION



Dimensions A, B, and C will vary with selected reel and can be provided with quote.

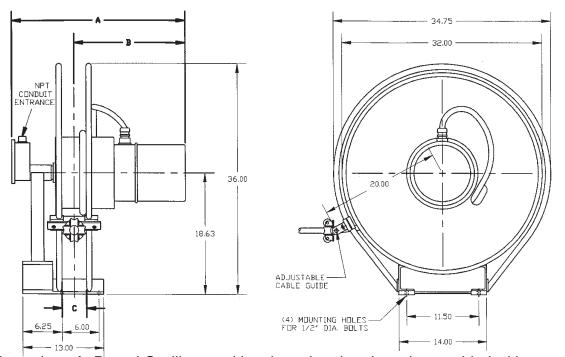
D, E, AND F SERIES CABLE REELS

24" FLANGE DIMENSIONS



Dimensions A, B, and C will vary with selected reel and can be provided with quote.

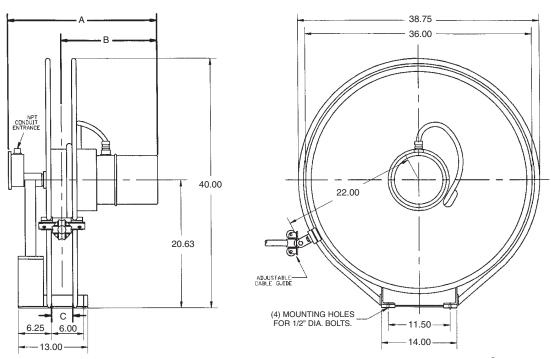
32" FLANGE DIMENSIONS



Dimensions A, B, and C will vary with selected reel and can be provided with quote.

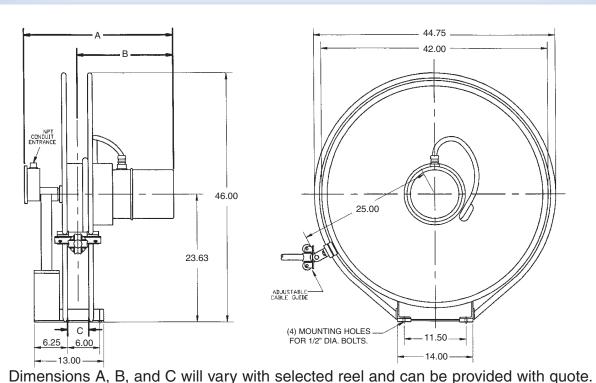
D, E, AND F SERIES CABLE REELS

36" FLANGE DIMENSIONS



Dimensions A, B, and C will vary with selected reel and can be provided with quote.

42" FLANGE DIMENSIONS



Don't see what you need? Call us!

H & M SERIES CABLE REELS

FEATURES

Insul-8's H & M Series Cable Reels are even heavier versions of the D, E, & F Series. These reels can withstand the toughest of applications in extreme environments. If you are looking for a durable heavy duty spring reel, then this is the reel for you.

Ideal for use in: Transfer cars for mills, theater lighting, waste water treatment plants, gantry cranes and scrap magnets.



- Built to NEC Standards
- Indoor and Outdoor Use
- Rugged Fabricated Steel Construction
- Heavy-Duty 600 Volt, Up to 225 amp Rated Slip Ring
- Weatherproof Slip Ring Enclosure Built to NEMA 4 Standards
- Outboard Spring Motor Design
- Durable Gray Epoxy-Coated Finish
- NEMA 12 Junction Box
- **4-Roller Guide** (adjustable to 345° around spool)
- Guide Rails
- Can be customized to your specifications (hazardous duty, mill duty and marine duty options see pages 29 & 30)
- · Long lasting, rugged, reliable performance
- Optional Quick Change Gear. (See page 32)

For your convenience, with every H or M Series quote, Insul-8 can also provide a quote for our Motor Driven Reels which can be a cost-effective and efficient alternative.

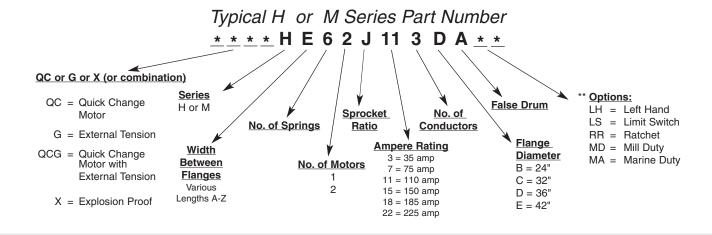
Ideal for Crane Classes A - C.

Available with cable installed and other accessories (see Options section on pages 26-38.)

Note: Add an extra 7' -10' of cable on H Series and an extra 10' - 12' for M Series for hookup and safety wrap, as well as an extra 6% of total travel length for stretch applications.

* High cycles (20K plus), harsh environments, etc., may require a different type of cable (consult factory if anyquestions).

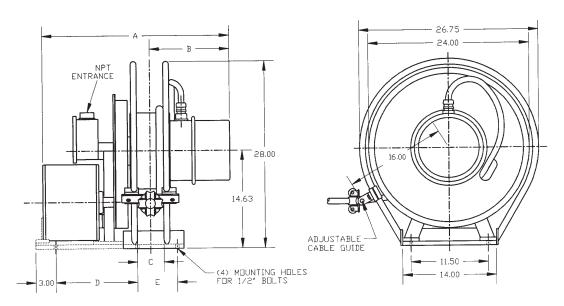
PART NUMBER DECODER



H SERIES CABLE REELS

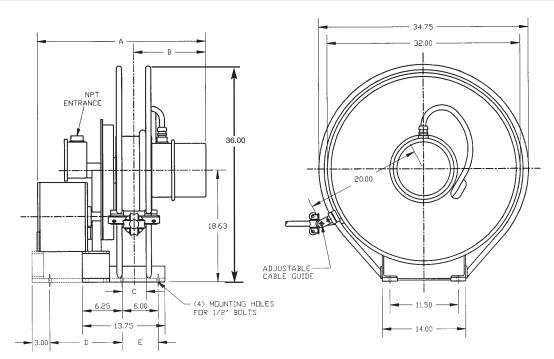
* Consult factory for M-Series Dimensions

24" FLANGE DIMENSIONS



Dimensions A through E will vary with selected reel and can be provided with quote.

32" FLANGE DIMENSIONS

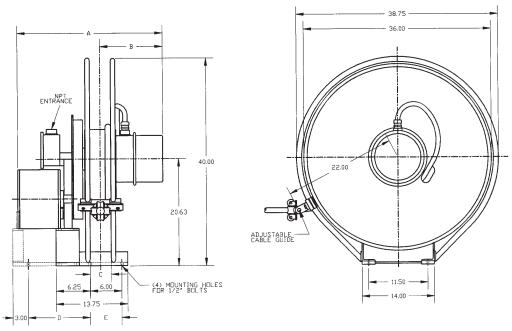


Dimensions A through E will vary with selected reel and can be provided with quote.

H SERIES CABLE REELS

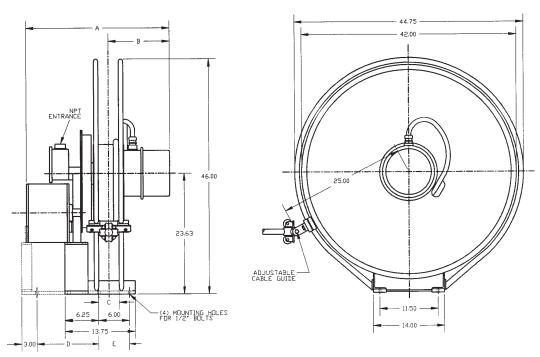
* Consult factory for M-Series Dimensions

36" FLANGE DIMENSIONS



Dimensions A through E will vary with selected reel and can be provided with quote.

42" FLANGE DIMENSIONS



Dimensions A through E will vary with selected reel and can be provided with quote.

QUICK REFERENCE CHART

Options are detailed on pages 27 to 38 in alphabetical order. Use the chart below to find the entire range of options available for each type of reel in the Insul-8 Cable Reel Family. On certain series of reels, we already include some traditional "add-on" options as standard features of the base reel. For your convenience, the chart lists each series of reel, the option, the status (S = Standard, A = Add-On, "*" = on selected models only) and page number detailing each option. Options for any Specialty Reels (pages 39 to 47) not already listed below are the same as the reel from which it is modified. Please call if you need additional help.

Option	Ball Stop Pg: 27	Cable Grip Pg: 27	External Tensioner Pg: 32	Flop Over Guide Kit Pg: 34	Guide Rails Pg: 28	Handlamps Pg: 28 & 29	Hazardous Duty Pg: 29	Junction Box Pg: 15	Limit Switch Pg: 30	Marine Duty Pg: 30	Mill Duty Pg: 30	Pivot Base Pg: 31	Quick Change Motor Pg: 32	Ratchet Pg: 33	Receptacle Box Pg: 33	REELSAFE Pg: 34	Roller Guide Pg: 34 - 36	Slip Ring (custom) Pg: 37	Spool Lock Pg: 29	Swing Mount Pg: N/A	Swivel Base 360° Pg: 38
Economy Series	S					S *								S	S *					S *	
1200 Series	S	Α				S*						Α		S	S*		S	Α		Α	Α
1400 Series	Α	Α		Α		Α						Α		S	Α	Α	S	Α			Α
1900 Series	Α	Α			Α	Α		Α	Α			Α		A	Α	Α	S	A	A		Α
2400 Series	Α	Α			Α	Α		Α	Α			Α		Α	Α	Α	S	Α	Α		Α
3200 Series	Α	Α	S		S	Α		s	Α	Α		Α	S	Α	Α	Α	S	Α	Α		Α
3600 Series	Α	Α	S		S	Α		s	Α	Α		Α	S	A	Α	Α	S	Α	Α		Α
4200 Series	Α	Α	S		S	Α		S	Α	Α		Α	S	Α	Α	Α	S	Α	Α		Α
D, E, F Series	Α	Α			S	Α	Α	s	Α	Α		Α		Α	Α	Α	S	Α	Α		Α
H and M Series	A	A	A		S	Α	A	s	A	A	A	Α	A	A	A	A	S	A	A		

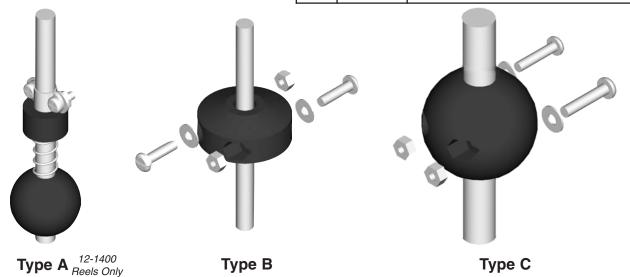
Specialty Reels																	
Hand Rewind Series						A							A		A	A	
1500 Series Hazardous Duty	S	Α				S *					Α	S		s			Α

BALL STOPS

Ball Stops are also commonly referred to as "cable stops," "bumper stops" or even "hose stops."

- ◆ Generally used for manually operated lift and drag applications to govern retraction length. Stops are required when accessories such as handlamps and receptacle boxes are installed on cable reels.
- ◆ Suitable for all Insul-8 Cable Reels.
- ◆ To order, use the following catalog numbers:

Туре	Part No.	Description
A*	34885	For cable O.D. ranges 0.188" to .438"
В	34474	For cable O.D. ranges 0.438" to .624"
В	34475	For cable O.D. ranges 0.625" to .749"
В	34476	For cable O.D. ranges 0.750" to 1.05"
С	34477	For cable O.D. ranges 1.06" to 1.38"
С	34490	For cable O.D. ranges 1.39" to 1.55"

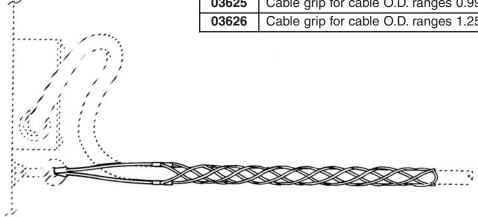


CABLE GRIPS

Cable Grips, also known as "cord grips," are designed to relieve the concentrated strain on cable terminations.

- ◆ Generally used for reels in stretch applications
- ◆ Suitable for all Insul-8 Cable Reels
- **♦** To order, use the following catalog numbers:

Part No.	Description
03622	Cable grip for cable O.D. ranges 0.430" to 0.610"
03623	Cable grip for cable O.D. ranges 0.611" to 0.740"
03624	Cable grip for cable O.D. ranges 0.741" to 0.990"
03625	Cable grip for cable O.D. ranges 0.991" to 1.24"
03626	Cable grip for cable O.D. ranges 1.25" to 1.49"



GUIDE RAILS (GUARD RAILS)

Guide rails (also referred to as "guard rails") encircle the outer diameter of spool flanges. Rails protect against outside interference with the rotating spool, allow mounting of cable guide onto certain series of reels and can aid in centering cable onto the spool.

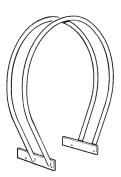
- ◆ **Recommended for** situations where there is a possibility that anyone working near the operating reel may come into contact with the rotating spool.
- ◆ Suitable for Series D, E, F, H, & M (standard feature) and 1900 through 3600 Series PowerReel (optional).
- **♦** To order, use the following catalog numbers:

Optional for 1900 through 3600 Series PowerReel (bolted on)

Series	5.0" Drum Width	7.7" Drum Width	Series	5.0" Drum Width	7.7" Drum Width
1900	40212A	40212AA	3200	43353	43355
2400	40212B	40212BB	3600	43354	43356

Standard on all D, E, F, H, & M Series reels (welded on)

NOTE: Dimensions will vary depending on the type of reel for which the guide rail is chosen. Insul-8 can provide complete dimensional drawings of a reel with guide rails during selection process.



HANDLAMPS

Handlamps provide extra lighting in applications where proper lighting is required for safety or convenience. *Ratchet (page 33) and Ball Stop (page 27) required.*

- ♦ Ideal for manufacturing workcells, automotive work bays, schools, recreation centers and many other applica
 - where mobile lamps are required.
- Suitable for indoor use on all Insul-8 cable reels.
 Standard on <u>selected</u> 1200 Series PowerReels (<u>See page 12.</u>)
- **♦** To order, use the following catalog numbers:



Cat. #HSR wt. 1.3 lbs: High impact yellow handles with recessed on/off switch and side 15 amp 125 Volt outlet. All steel, grounded reflector cage with swivel

INCANDESCENT LAMP

reflector cage with swivel hanger. Accepts up to 14/3 SJOW-A cable. 100-watt bulb not included. UL listed for indoor use.



FLUORESCENT LAMP Cat. #FHL wt. 1.2 lbs:

Rubber handles with switch and hanger.
Features a plastic non-glare shield with cool operating 13-watt lamp (included). Ballast mounted on feeder cord. For use with 16 and 14 AWG 3 conductor SJOW-A cable only. UL listed for indoor use.

HANDLAMPS (HAZARDOUS DUTY)

Ideal for extra lighting in hazardous duty applications when using a hazardous duty reel. Ratchet (page 33) and Ball Stop (page 27) required.



HAZARDOUS DUTY
INCANDESCENT LAMP
Cat. #XHL wt. 4.9 lbs.
Lightweight construction.
Features non-sparking
aluminum guard with full
swivel hook and high impact
glass reinforced phenolic
handle. Resists heat up to
300° F. Accepts up to 14/3
SOW-A cable. 100 Watt,
120 Volt, UL listed.



HAZARDOUS DUTY
FLUORESCENT LAMP
Cat. #100211-AL (Aluminum Guard)
100211-PL (Plastic Guard)
Lightweight construction.
Features non-sparking
aluminum or plastic guard with
full swivel hook and high impact
glass reinforced phenolic
handle. Resists heat up to
300° F. Accepts up to 16/3
SOW-A cable. 13 Watt, 120
Volt, UL listed.

HAZARDOUS DUTY OPTION

Hazardous Duty Option is required for applications falling under the requirements of CLASS I, Division 1, Groups C & D and CLASS II, Groups F & G in Article 500 of the National Electrical Code.

- ◆ Ideal for reels used in coal mines, aircraft facilities and applications involving exposure to flammable gases and other substances.
- ◆ Suitable for D, E, F, H, & M Reels. (See pages 39 & 40 for preconfigured 1500 Series Hazardous Duty Reels.)
- ◆ To order, simply add "X" at the beginning of the series D, E, F cable reel part number or see 1500 Series Reels on Page 40. (See part number examples on pages 19 & 23.)

LOCKS (SPOOL)

Spool Locks are used to lock the spool in place. These devices are used to prevent rotation of the reel in adverse conditions or during routine maintenance.

- ◆ Ideal for rail cars and overhead cranes.
- ◆ Suitable for 1900 through 3600 Series PowerReels, and the D, E, F, H, & M Series Reels.
- **◆** To order, use the following catalog numbers:

For 1900 through 3600 Series PowerReels: Specify Cat. #40260*.

For D, E, F, H, & M Series reels: Spool locks will vary with reel selected. To include this option on a D, E, F, H, or M Series cable reels, please notify Insul-8 at the time of the inquiry.

LIMIT SWITCHES

Limit switches are used when an electrical interlock between cable payout length and other electrical equipment is required. Rotary cam type limit switches are provided which are adjustable for accurate location of the tripping mechanism. A variety of internal gear ratios are available so that the selection of the proper ratio will give maximum rotation of the actuator. The standard limit switch consists of a 2-element switch to provide 2 NO (normally open) and 2 NC (normally closed) sets of contacts in a NEMA 4 enclosure.

- ◆ Ideal for overrun control on overhead cranes and pendant reels.
- ◆ Suitable for D, E, F, H, & M Series Reels.
- ◆ To order, simply add "LS" at the end of the cable reel part number. (See part number examples on pages 19 & 23.)

MARINE DUTY OPTION

Marine Duty option is available for reels used in applications around bodies of water and other moist environments as defined by marine specifications IEEE-45, U.S. Coast Guard, ABS.

- ◆ Ideal for shipping ports, water treatment plants and other extremely moist areas.
- ◆ Suitable for D, E, F, H & M Series Reels.
- ◆ To order, simply add "MA" at the end of the cable reel part number. (See part number examples on pages 19 & 23.)

MILL DUTY OPTION

Mill Duty option consists of heavy gauge steel, cast steel end-bells, external spring tension adjustors with Quick Change Motor option, double-brushed/150 amp rated slip ring, reinforced guide rails with supports, NEMA 4 junction box and lifting eyes.

- ◆ Ideal for reels used in mills and refineries operating in severe environments and demanding applications.
- ◆ Suitable for H & M Series Reels.
- ◆ To order, specify "MD" at the end of the cable reel part number. (See part number example on page 23.)

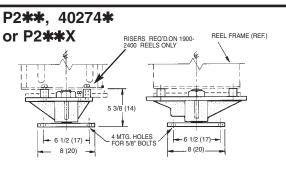
PIVOT BASES

Pivot Bases allow the cable reel to pivot back and forth (< 360°), for alternate directions of cable payout. Where cable payout exceeds 15° away from parallel to the spool, a pivot base should be used. (Note that "Swivel Bases" are available for applications that require a full 360° pivot - see page 38). Pivot Bases are ordered based on the specific style of reel used:

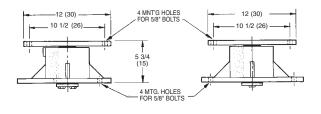
Reel Type	Max. Rotation	Weight	Catalog No.
1200 Series	345°	7.5 lbs.	PVB
1400 Series	345°	7.5 lbs.	PVB
1400 Series Torque Reel	360°	7.5 lbs.	TRPVB
1500 Series	345°	20 lbs.	XPVB
1900 / 2400 Series	330°	43.0 lbs.	40274A
(E, G, H, J spools, E or L springs)			
1900 / 2400 Series	330°	43.0 lbs.	40274B
(E, G, H, J spools, F springs)			
1900 / 2400 Series	330°	43.0 lbs.	40274C
(F, K, L, M spools E, L or F springs)		
D - E - F Series	330°	44.0 lbs.	P2 **
For **, use the alpha characte on page 19. Example: Reel ECB34B uses a			anges - see part number decoder f the Part No. Ex: (P2BCX)
H Series	330°	103.0 lbs.	P3-H *
For Hazardous Duty add "x" to	the end of the Part No. Ex: (P.	3-H * X)	

PVB or TRPVB (4) 0.44 DIA HITES (3) 0.38-16 UI 5.00 5.00 1.62 1.62 0.38 -- 0.99

For *, use the alpha characters designating the width between flanges - see catalog page 23. Example: HC31A34B



P3 - H* and P3-H*X



QUICK CHANGE SPRING MOTOR AND EXTERNAL TENSION ADJUSTMENT

Quick Change Motor consists of a simplified change out procedure with unique slip joint shaft coupling. External Tension Adjustment allows you to adjust tension after cable has already been installed on reel.

- ◆ Ideal for applications where servicing and downtime will cause critical delays. Also recommended for 16 conductors or more.
- Suitable for Series H & M Series Reels.
- ◆ To order, add the following letters to the beginning of the cable reel part number. (See part number example on page 23)

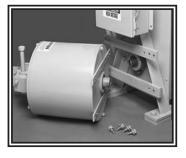
<u>For Quick Change Motor:</u> Add "QC" at the beginning of the cable reel part number. <u>For External Tension Adjustment:</u> Add "G" at the beginning of the cable reel part number. <u>For Both:</u> Add "QCG" at the beginning of the cable reel part number.



Standard Series H and M Series reels are furnished with outboard spring motors that are connected directly to the reel spool with roller chain and sprocket drive. The optional quick change spring motor can be supplied affording the user fast removal of the spring motor without disassembling the sprocket and chain circuit. Standard outboard spring motors can be furnished with or without the tension adjustment feature. The tension adjustment feature requires additional clearance behind the spring motor. Add 4³¹/₄₄" to "A" dimension for reel with tension adjustment. The removal of 4 bolts on the front end of the canister (spring motor and 2 bolts on the back end via the mounting bolts), allows the spring motor to slide off the base frame of the reel and slide a new spring on in minutes.



Spring tension can be achieved by using a crescent wrench, open ended wrench or socket. With wrench in hand, simply turn clockwise or counter clockwise to set tension (remember that there is one canister to adjust). Standard outboard spring motors can be furnished with or without the tension adjustment feature. The tension adjustment feature requires additional clearance behind the spring motor; add 4³/₄" to dimension "A". It includes a counter to indicate preset tension on the cable.



Don't waste time ripping down your outboard spring motor or throwing away your old spring canister. Let Insul-8 change it for you. Simply return the item back to the factory and Insul-8 will take care of the rest. You can also order spare outboard motors so you always have a quick fix when your operation can't afford to be shut down.

RATCHETS

Ratchets are spring activated mechanisms which hold the cable reel spool in place at certain points of payout.

- ◆ Suitable for all 1900 & 2400 Series PowerReels, and D, E, and F Series Reels. Also suitable for some H Series reels. (Ratchets are included on all 1200, 1400 and 1500 Series PowerReels with a lockout option for constant tension operations.)
- Required for manually operated lift and drag applications and when accessories such as handlamps, receptacle boxes and pendants are installed.
- ◆ To order, specify the following:

For 1900 Series and 2400 Series PowerReel: Order Cat. #40251* (See page 15)

For 3200 - 3600 Series PowerReel: Order Cat. #43418 (See page 17)

For D, E, & F Series cable reels: Simply add "RR" to end of the cable reel part number (page. 19)

For H Series: Contact Insul-8 for suitability

RECEPTACLE BOXES

Receptacle Boxes are ideal for use in areas where mobile power supply is needed for safety and convenience. These receptacle boxes are made from a heavy duty, molded yellow thermoplastic elastomer (TPE) with internal cord grip and will accept up to 12/3 SOW-A cable. These boxes are oil resistant and impervious to most chemicals. UL Listed and CSA approved. Ratchet (page 33) and Ball Stop (page 27) required.

- ◆ Ideal for factory work cells, automotive work bays, theaters, schools, recreation centers and other areas where applications require a mobile power source.
- ◆ Suitable for all Insul-8 spring reels. (Receptacle Boxes are already included as a standard item on selected 1200 Series PowerReels. Please see "Description" column on 1200 Series Selection Chart, page 12.)
- ◆ To order, use the following catalog numbers:



Part No.	Description
RB	Dual 15 amp 125 Volt duplex (4 outlets total)
RB-5-20R	Dual 20 amp 125 Volt duplex (4 outlets total)
35995	Single 15 amp 125 Volt duplex (2 outlets) with GFCI (ground fault circuit interrupter)
100467	Single 20 amp 125 Volt duplex (2 outlets) with GFCI (ground fault circuit interrupter)



20 amp 15 amp

REELSAFE



Available for 1400 through 3600, D, E, F, H, & M Series Reels.

The Patented REELSAFE brake is a device designed to limit the retraction speed of a spring-powered reel to a speed that will not injure personnel or damage property should an accidental uncontrolled retraction occur. The REELSAFE is a fully adjustable device. It is preset at the factory to a safe speed but can be adjusted to the user's preference after reel installation. Some variation in retraction rate will be noticeable during large temperature variations such as seasonal temperature change, and minor adjustments may be necessary. U.S. Patent # 6488224

ROLLER GUIDES (CABLE GUIDES)

Insul-8 includes a 4-roller guide as a standard item on each spring driven cable reel. For special cable payout applications, we recommend our Type C.

IMPORTANT NOTE: Do not use the standard rigid mount roller guide supplied with reel in two-way payout applications. (Refer to page 36 for Appropriate Options.)

- ◆ Type A Roller Guides are ideal for applications where cable is pulled in a direction tangent to the drum of the reel not exceeding 15°. These are most commonly used in lift/drag applications and single-direction stretch applications. Their main purpose is to center cable onto the spool. Guides also act as a positive seat to ball stops.
- **◆** To order, use the following catalog numbers:

Cat. #A2: 4-Roller Guide for cables with maximum O.D. of 1.25" (Standard on D, E, F, H, & M

Series Reels. Also available for remote mounting.) Please see dimensions below.

Cat. #A3A: 4-Roller Guide for cables with maximum O.D. of 2" (Standard on D, E, F, H, & M

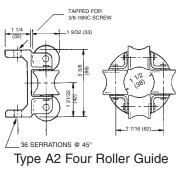
Series Reels. Also available for remote mounting.) Please see dimensions below.

Guide Mount Set for mounting of A2 and A3A Roller Guides on D. E. F. H. & M Series Reels. Cat. #AA or Cat. # 08397Z:

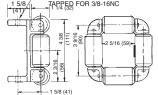
Cat. #FGK:

Flop-Over Guide Kit modifies the standard stationary guide on 1400 Series PowerReels to allow free movement to any point around the outer flange.

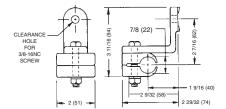
Ideal for two way payout applications. (Not pictured below.)



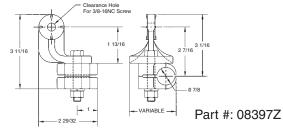
TAPPED FOR 3/8-16NC



Type A3A Four Roller Guide



Type AA Guide Mount Set (Used on 3" or greater drum widths).



Cable Guide Support (Used on 2 1/2" or less Drum Widths).

TYPE "C" ROLLER GUIDE

◆ Type C Roller Guides are ideal for applications where cable is payed-out in two directions with the free end of the cable terminated at the center of total travel. The Type C Guide is used when structural members or other obstructions would interfere with the normal windup and payout attitudes of the cable if the reel was used without cable guides. All Type C guides require separate mounting from the reel and are furnished with sealed ball bearings.

◆ Suitable for all Insul-8 reels.

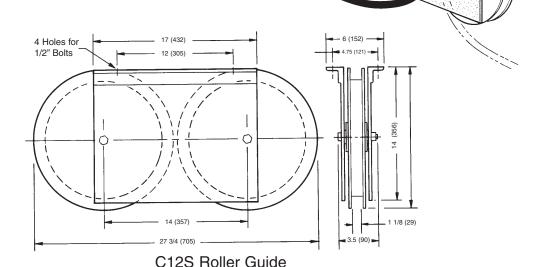
◆ Type C Roller Guide Descriptions:

Cat. #C12S: 12" Two-Roller Guide for use in applications where

cable (up to 1" O.D.) is payed out in two directions.

Cat. #C18S: 18" Two-Roller Guide for use in applications where

cable (up to 1.5" O.D.) is payed out in two directions.



24 (610)

4 Holes for 1/2* Bolts

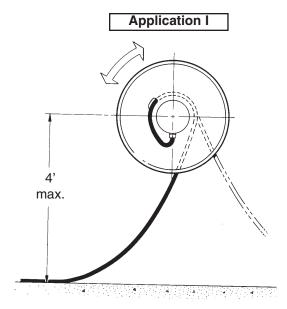
9 3/8 (238)

8 1/8 (206)

20 7/8 (530)

41 3/8 (1051)

ROLLER GUIDE SELECTION / SPECIFICATION INSTRUCTIONS



<u>Application I Description:</u>
Low lift height to centerline of reel without obstructions to nominal catenary of cable.

Application II Allow max. max.

Application II Description:
Lift height center line of reel with obstructions to normal catenary of cable and adequate space between reel flange and cable lay for two sheave roller guide. Cat. #C12S, C18S or C24S

How To Select The Proper Roller Guide

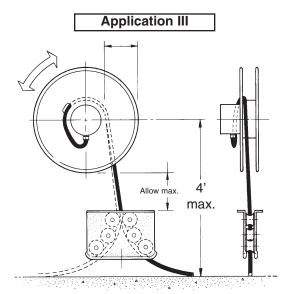
- 1) Determine cable bend diameter required (RULE: cable bend diameter is 12 times the cable diameter.)
- 2) Select roller guide with required bend diameter and lay out cable reel and roller guide to assure that there is no interference. (If in doubt which application illustrated here applies, layout the Application II configuration first.)
- 3) Roller Guide catalog numbers indicate bend radius; (ex.: #C12S Roller Guide has a 12" bend diameter and #C18S Roller Guide has an 18" bend diameter.)
- 4) When ordering, specify catalog number of Roller Guide and state "for separate mounting with cable reel part number..." If the cable reel is not on the same order, specify the cable for which the Roller Guide has been selected or make reference to the cable reel order.

How To Mount A Roller Guide

<u>Front View:</u> Locate center line of the Roller Guide on the mean center line of the spool flange to obtain a vertical line payout of cable from the spool to the Roller Guide when the spool is one half full.

<u>Side View:</u> Locate Roller Guide center line in line with spool center line.

NOTE: Allow maximum distance between spool and guide with a maximum of 4' from spool centerline to the surface supporting the cable.



Application III Description:

Lift height center line of reel with obstructions to normal catenary of cable and adequate space between spool flanges and cable lay for two sheave cable guide. Multiple roller guides provide lower profile necessary for mounting clearance. Cat. # C28M6

OPTIONS

SADDLE CLAMP

Saddle clamps, also known as "strain relief clamps" are used to relieve tension on the cable or hose while allowing the cable or hose to hang properly. These are typically used in conjunction with balance or torque reels.

(See pages 45 and 46.)

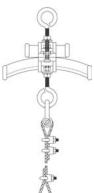
- ◆ Ideal for push-button pendant applications for air and electric tools.
- ◆ Suitable for Insul-8 balance and torque reels.
- ◆ To order, use the following chart.

Provision is made for fast, simple attachment of cable and pendant station. The model SDI clamp is secured to the cable at the proper location thus providing a strain relief and allowing the cable to hang properly.

Typical Installation TORQUE REEL WIRE ROPE FLEXIBLE

I FAD

SDII4



SDI14 Series Saddle Clamp

Part No.	Description	Weight
SDI	Max. OD 1" Cable Saddle Clamp	1 lb.
SDII4A-**	Max. Od 1-3/8" Cable Saddle Clamp	1 lb.
SDII4B-**	Max. OD 1" Cable Saddle Clamp	1 lb.
SDII4C-**	Max. OD 3/4" Cable Saddle Clamp	

(**) 02,04,06,08,10,12 represents footage of lead wire from clamp to accessory.



SADDLE

SLIP RINGS

Insul-8 offers a complete line of standard and custom engineered slip rings for use with a wide variety of industrial machinery. We have over 60 years of experience in slip ring design and can offer many alternate styles of slip rings for custom applications including the following:

- ◆ Precision machined copper alloy rings with copper graphite brushes for power applications.
- Silver-plated rings and silver graphite brushes for low-level signal applications.
- **♦** Combination rings for power, control and signal level circuits.
- ◆ Single or redundant double brushes.
- ◆ A wide range of enclosure styles and bore sizes.

To review more of Insul-8's complete slip ring product offering, please request a catalog from your local representative or inside salesperson.

SWIVEL BASES (CONTINUOUS)

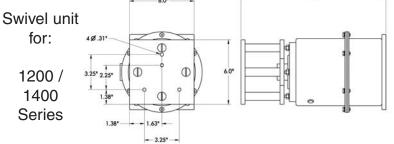
Swivel Bases allow reels to rotate 360° in applications where continuous electrical rotation is required. Insul-8's Swivel Bases feature completely free running ball bearings in a watertight/dust-tight enclosure with access holes for simple slip ring inspection.

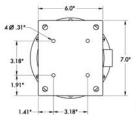
- ♦ Ideal for monorail conveyors, electric hoists and other mobile machinery.
- ◆ Suitable for most Insul-8 reels.
- **◆** To order, use the following part numbers:

Series	Conductors									
Series	3	4	5	6	8	10	12	14 to 36		
1200 / 1400	38036	38036B	38036C	38036D	38036E	38036F	38036G	N/A		
1500	XSM-33-XPVB	XSM-34-XPVB	XSM-35-XPVB	XSM-36-XPVB	XSM-38-XPVB	XSM-310-XPVB	XSM-312-XPVB	CF		
DEF	SM-33**-8	SM34**-8	SM-35**-8	SM-36-**-8	SM-38**-8	SM-310**-8	SM-312**-8	CF		
X-DEF	XSM-33**-8	XSM-34**-8	XSM-35**-8	XSM-36**-8	XSM-38**-8	XSM-31-**-8	XSM-312**-8	CF		
1900 / 2400	SM-33-P***-8	SM34-P***-8	SM-35-P***-8	SM-36-P***-8	SM-38-P***-8	SM-310-P***-8	SM-312-P***-8	CF		

		Conductors							
	3	4	5	6	8	10	12		
AMPS	35	35	35	35	35	35	35		
VOLTS	600	600	250	250	250	250	250		
WEIGHT +- 5 lbs.	53	53	58	58	58	66	66		
DIM. H	13.5"	13.5"	15"	15"	16.5"	16.5"	18.5"		

Standard Fittings on unit
1.0" NPT for cable
0.50" to .75" O.D.
Contact factory for additional fittings for larger size cable.

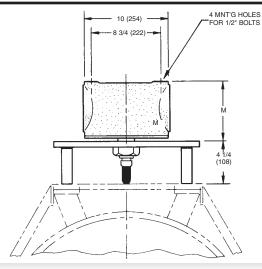


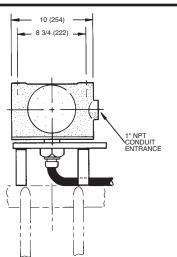




Swivel unit for:

1500 Series DEF Series X-DEF Series 1900 / 2400 Series





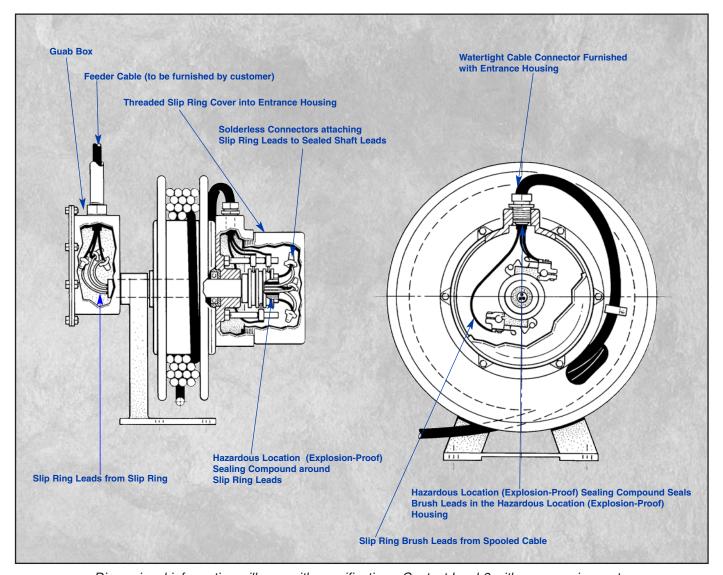
SPECIALTY - HAZARDOUS LOCATION REELS

1500 (L) AND D, E, F, & H SERIES

Insul-8's **UL Listed 1500-Series** Hazardous Location cable reels are certified to meet and comply to requirements for Class 1 - Division 1 - Groups C & D - Zones 0, 1 & 2 and Class 2 - Division 2 - Groups E, F & G as defined in Article 500 of the National Electric Code. Reels Conform to NEMA 4 Standards for applications in wet & dry location.

Insul-8's **D**, **E**, **F**, **& H -Series** reels can be customized to meet hazardous location (explosion proof) requirements. This series is designed to meet your application requirements that are beyond the preconfigured UL LISTED 1500 Series hazardous location reels. The D, E, F, H, & M Series reels with hazardous location option, <u>do</u> utilize UL Listed electrical enclosures. These D, E, F, H, & M Series reels as a whole <u>are not certified by any regulatory body</u>. Contact Insul-8 with your special requirements.

BASIC STRUCTURE



Dimensional information will vary with specifications. Contact Insul-8 with your requirements.

SPECIALTY - HAZARDOUS LOCATION REELS

1500 SERIES

These reels are also commonly referred to as "explosion-proof" or "hazardous location" reels.

◆ Ideal for use in: petroleum facilities, grain storage silos, mines, waste water treatment plants and paint booths.



Features:

- Built to NEC standards
- · Indoor or outdoor use
- Rugged fabricated steel and cast aluminum construction
- 30 amp / 600 Volt advanced R-Series slip ring assembly
- · Threaded slip ring enclosure
- · Gray epoxy-coated finish

Factory Assembled Reel includes:

- SOW-A cable (ON ALL REELS)
- Spring activated ratchet
- 4-roller adjustable cable guide
- Ball Stop
- 6' Feeder Cord



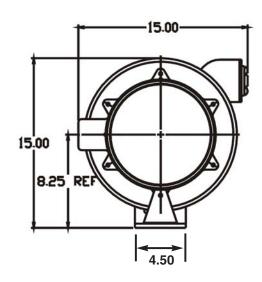
Use 1400 Series reel selection chart on page 14 for selecting your UL listed 1500 Series reel. They are identical part numbers except the first two digits.

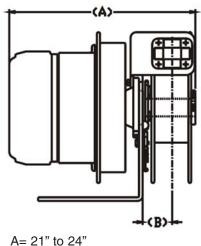
See selection chart at the back of this catalog for other non-listed 1500 reels built to UL / cUL standards.

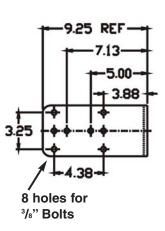
Example: <u>14</u>2160305011 is <u>15</u>2160305011 (* 1500 Series reels only sold with cable *)

Hazardous Location (explosion proof) options are available such as handlamps and swivel bases. See pages 29, 31 & 38.

DIMENSIONS







A= 21 to 24 B= 2.5" to 4"

1400 & 1900 - WELDING REELS

ABOUT INSUL-8'S WELDING REELS

Insul-8's welding reels are specially designed for electric welding and grounding use. These reels are ideal for use in areas such as fabrication shops and mobile utility vehicles because they keep excess cable stored and accessible in a neat, safe and efficient manner.

All-steel welding reels are designed with positive locking ratchets and are suitable for both indoor and outdoor applications. We offer two welding reel models, both of which are based on two of our most rugged cable reel designs: 1400 Series Welding Reel and the 1900 Series Welding Reel.

The 1400 Series Welding Reel is a compact design built to NEMA 4X standards. This series is capable of handling 6 gauge to 2/0 gauge welding cable in lengths up to 75 feet.

The 1900 Series Welding Reel is a compact design built to NEMA 4 standards. This series is capable of handling 6 gauge to 2/0 gauge welding cable in lengths up to 100 feet.

These reels are one of our newest offerings, specifically designed to meet your request for a compact, economical and rugged welding reel capable of offering ground path for these length requirements. *Please contact Insul-8 for dimensional information.* **Reels can be supplied with cable.** (For welding cable specifications, please refer to Cable Data Chart page 6.)

Features:

- Built to NEC Standards
- Rugged, All-Steel Construction
- 450 amp Brushless Slip Ring
- Standard 4-Roller Guide Included
- · Indoor and Outdoor Use
- Weatherproof (NEMA 4 or NEMA 4X) Design
- Ratchet: Positive Lock Including Constant Tension Feature
- 6' Feeder Cord & Ball Stop Included on Reels with cable





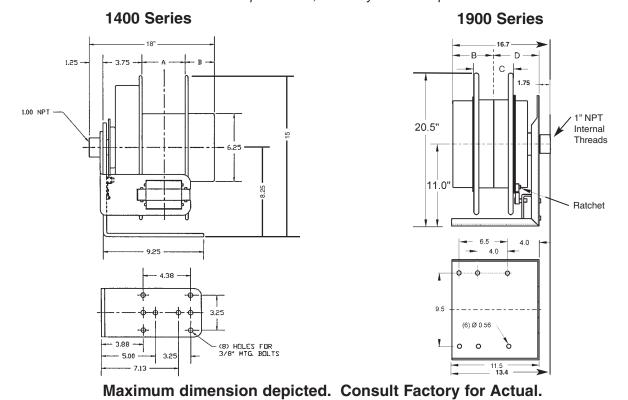
Note: If using customer supplied cable, make sure to add five feet beyond desired active length to account for safety wraps and hook up.

1400 & 1900 - WELDING REELS

LIFT / DRAG SELECTION CHART ONLY

Cable Capacity	Voltage / amperage	Catalog No: (with cable)	Catalog No: (without cable)
25 ft 6 AWG.	600 Volts / 75 amps	145060102511	145060102510
50 ft 6 AWG.	600 Volts / 75 amps	145060105011	145060105010
75 ft 6 AWG.	600 Volts / 75 amps	145060107511	145060107510
100 ft 6 AWG.	600 Volts / 75 amps	195060110011	195060110010
25 ft 4 AWG.	600 Volts / 150 amps	145040102511	145040102510
50 ft 4 AWG.	600 Volts / 150 amps	145040105011	145040105010
75 ft 4 AWG.	600 Volts / 150 amps	145040107511	145040107510
100 ft 4 AWG.	600 Volts / 150 amps	195040110011	195040110010
25 ft 2 AWG.	600 Volts / 225 amps	145020102511	145020102510
50 ft 2 AWG.	600 Volts / 225 amps	145020105011	145020105010
75 ft 2 AWG.	600 Volts / 225 amps	195020107511	195020107510
100 ft 2 AWG.	600 Volts / 225 amps	195020110011	195020110010
25 ft 1 AWG.	600 Volts / 300 amps	145010102511	145010102510
50 ft 1 AWG.	600 Volts / 300 amps	145010105011	145010105010
75 ft 1 AWG.	600 Volts / 300 amps	195010107511	195010107510
100 ft 1 AWG.	600 Volts / 300 amps	195010110011	195010110010
25 ft 1/0 AWG.	600 Volts / 350 amps	145100102511	145100102510
50 ft 1/0 AWG.	600 Volts / 350 amps	145100105011	145100105010
75 ft 1/0 AWG.	600 Volts / 350 amps	195100107511	195100107510
100 ft 1/0 AWG.	600 Volts / 350 amps	195100110011	195100110010
50 ft. 2/0 AWG.	600 Volts / 450 amps	145200105011	145200105010
100 ft. 2/0 AWG.	600 Volts / 450 amps	195200110011	195200110010

For actual dimensional information on a specific reel, contact your local rep. or the Insul-8 inside sales team.



www.insul-8.com

SPECIALTY - HAND REWIND REELS

SERIES 20 AND SERIES 30



Series 20 $24^{3}/_{4}$ " H 19" W $31^{7}/_{8}$ " D (54 lbs.)

Features:

- · Built to NEC standards
- For indoor use
- Welded fabricated steel construction for maximum strength
- 35 amp / 600 Volt slip ring assembly
- · Gray epoxy-coated finish
- · Series 30 features two wheels and a handle for portability

Note: An additional 3' of cable is required for safety wrap & hook up.



Series 30 361/4" H 233/4" W 331/2" D (61 lbs.)

С	able Reels	;	Hose Reels					
Number of Cond.	Number of Cond. Series 20 Cat. No. Cat. No.		Hose Size (Inches)	Series 20 Cat. No.	Series 30 Cat. No.			
None	20-0	30-0-1	1/4 ID x .500 OD	20-H-4	30-H-4-1			
2	20-32	30-32-1	3/8 ID x .656 OD	20-H-6	30-H-6-1			
3	20-33	30-33-1	1/2 ID x .812 OD	20-H-8	30-H-8-1			
4	20-34	30-34-1	3/4 ID x 1.125 OD	20-H-12	30-H-12-1			

SERIES 40 (SIDE MOUNTED)

Features: · Built to NEC standards

- · For indoor use
- · Ideal for stationary applications
- 35 amp / 600 Volt slip ring assembly
- Flanges and drum are rugged steel construction

Note: An additional 3' of cable is required for safety wrap and hook up.



24" H 24" W 185/16" D (53 lbs.)

Cable Reels						
Number of Cond.	Series 40 Catalog No:					
None	40-0					
2	40-32					
3	40-33					
4	40-34					

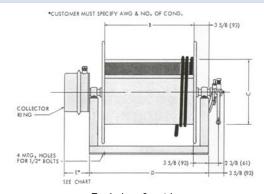
CAPACITY CHART

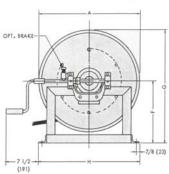
	Cable Capacity in Feet - Hand Rewind Cable Reels									
	16 AWG		14 AWG		12 AWG		10 AWG			
	Reel Series									
# Cond	20 & 30	40	20 & 30	40	20 & 30	40	20 & 30	40		
2	1111	511	616	272	492	217	403	167		
3	972	434	591	238	403	167	340	167		
4	725	362	492	217	383	167	304	124		

SPECIALTY - HAND REWIND REELS

SERIES 60







Features:

35 AMPS - SOW CABLE

60B-34

60D-114

60B-34

60B-36

60D-114

60B-34

60C-36

60D-114

60B-34

60C-36

AWG

No. of

4

6

4

10

- · Built to NEC standards
- Supplied with 4:1 geared drive and hand crank
- Can handle a wide range of cable specifications
- · For indoor & outdoor use
- · Slip ring in 35, 75 and 110 amperage, 600 Volts

SELECTION CHART - SERIES 60

CAPACITY ft. (m)

- Units are also available without slip ring
- · Designed for base mounting where portable power is required

Contact Insul-8 or your local representative for selection.

	Frame & Spool Dimensions										
Cat No.	Α	В	С	D		F	G	Н			
60B	19"	18"	12"	25.2	25"	11.8125	" 21.3125"	19"			
60C	24"	21"	15"	28.2	25"	14.50"	26.50"	24"			
60D	36"	15"	20"	22.2	25"	20.50"	38.50"	36"			
		Add Dime	ension E - If	Unit Has	Collect	tor Ring					
E*	5.875"	7.25"	8	.125"	(9.50"	12.25"	14.25"			
For	32	33 Thru	36 37	Thru 38	73	Thru 74	111 Thru 113	114			

Cond. **100** (30.5) **150** (45.8) **200** (61) **250** (76.3) **300** (91.5) **350** (106.8) **400** (122) **450** (137.3) **500** (152.5) **750** (228.8) **1000** (305) 60B-33 60C-33 3 4 60B-34 60B-34 60B-34 60B-34 60B-34 60B-34 60B-34 60B-34 60B-34 60C-34 60C-34 16 60B-36 60B-36 60B-36 60B-36 60B-36 60B-36 60B-36 60B-36 60C-36 60C-36 60D-36 6 8 60B-38 60B-38 60B-38 60B-38 60B-38 60B-38 60C-38 60C-38 60C-38 60D-38 60D-38 3 60B-33 60B-33 60B-33 60B-33 60B-33 60B-33 60B-33 60B-33 60B-33 60C-33 60D-33 60B-34 60B-34 60C-34 4 60B-34 60B-34 60B-34 60B-34 60C-34 60C-34 60C-34 60D-34 14 6 60B-36 60B-36 60C-36 60C-36 60C-36 60B-36 60B-36 60C-36 60C-36 60D-36 60B-38 60B-38 60B-38 60C-38 60C-38 60C-38 60D-38 60D-38 60D-38 8 60B-33 60C-33 3 60B-33 60B-33 60B-33 60B-33 60B-33 60C-33 60C-33 60C-33 60D-33 60B-34 4 60B-34 60B-34 60B-34 60B-34 60B-34 60C-34 60C-34 60C-34 60D-34 60D-34 6 60B-36 60B-36 60B-36 60C-36 60C-36 60C-36 60C-36 60D-36 60D-36 60D-36 8 60B-38 60B-38 60C-38 60C-38 60D-38 60D-38 60D-38 60D-38 60D-38 3 60B-33 60B-33 60B-33 60B-33 60B-33 60B-33 60C-33 60C-33 60C-33 60D-33 60D-33

60C-34

60C-36

60B-36 60D-36 8 60C-38 60C-38 60C-38 60C-38 60D-38 60D-38 60D-38 60D-38 75 AMPS - W. CABLE For Type G Cable, use 3 Cond. Selection but Change Last Digit (3) to (4) 60C-73 60C-73 60D-73 60B-73 60C-73 60C-73 60D-73 60D-73 60D-73 60B-74 60C-74 60C-74 60C-74 60D-74 60D-74 60D-74 60D-74 60D-74 4 60C-73 60C-73 60C-73 60C-73 60D-73 60D-73 60D-73 60D-73 3 6 4 60C-74 60C-74 60C-74 60D-74 60D-74 60D-74 60D-74 60C-73 60D-73 3 60C-73 60D-73 60D-73 60D-74 60D-74 60D-74 60D-74 110 AMPS - W. CABLE 3 60D-113 60D-113 60D-113

60C-34

60C-36

60C-34

60D-36

60C-34

60D-36

60C-34

60D-34

Don't see what you need? Call us!

SPECIALTY - TORQUE REELS

ABOUT OUR TORQUE REELS

The following rugged, industrial-design torque reels are spring operated without electrical connections. The $\frac{3}{16}$ galvanized steel aircraft cable with protective nylon jacket is supplied on all reels at no additional charge. See selection charts below for weights and lifting range.

Features:

- Ideal for Indoor and Outdoor Use (wet or dry)
- Ratchet Positive lock including constant tension feature
- **Guide Arm** (adjustable to 12 positions for efficient cable storage)
- Formed Steel Stand with Multiple Mounting Holes
- * Strain Relief / Saddle Clamp offerings (See Page 37)
- Rubber ball stop and clevis hook included
- Safety yellow Powder-Coated Finish
- Optional 360° pivot base #TRPVB for 1400 Series

SERIES 1200



Part No:	Description	Wt. (lbs.)
126920103010	Reel for 30' of 5/16" O.D. coated wire rope, working range of 2-9 lbs of line pull, without wire rope.	29
126920103011	Reel for 30' of 5/16" O.D. coated wire rope, working range of 2-9 lbs. of line pull, with wire rope.	30
126920103020	Reel for 30' of 5/16" O.D. coated wire rope, working range of 5-23 lbs. of line pull, without wire rope.	31
126920103021	Reel for 30' of 5/16" O.D. coated wire rope, working range of 5-23 lbs. of line pull, with wire rope.	32

SERIES 1400



Model No.	Lift Weight Ibs. (kg)	Range ft. (m)	Unit Weight Ibs. (kg)
146920105011	5 (2.2)	47 (14.3)	52 (23.6)
146920112011	5 (2.2)	100 (30.5)	65 (29.4)
146920105011	10 (4.5)	30 (9.1)	52 (23.6)
146920112011	10 (4.5)	54 (16.3)	65 (29.4)
146920109011	10 (4.5)	67 (20.4)	65 (29.4)
146920105011	15 (6.8)	12 (3.7)	52 (23.6)
146920104011	15 (6.8)	20 (6.1)	65 (29.4)
146920109011	15 (6.8)	37 (11.3)	52 (23.6)
146920104011	20 (9.0)	9 (2.7)	65 (29.4)
146920105021	20 (9.0)	29 (8.8)	52 (23.6)
146920105021	25 (11.3)	20 (6.1)	65 (29.4)
146920105021	30 (13.6)	12 (3.7)	65 (29.4)
146920104021	30 (13.6)	20 (6.1)	65 (29.4)
146920104021	35 (15.8)	14 (4.3)	52 (23.6)

SPECIALTY - BALANCE REELS

SERIES E-F



Maximum Dimensions: 18" H x 11" W x 171/4" D

	Model No.	Lift Ibs. (kg)	Range ft. (m)	Unit Weight Ibs. (kg.)
Γ	EMZ3TR	27 (12.0)	30 (9.1)	78 (36)
Γ	EMZ4TR	33 (14.9)	40 (12.2)	100 (46)
Γ	FMZ3TR	38 (17.2)	30 (9.1)	100 (46)
	FMZ4TR	45 (20.4)	40 (12.2)	122 (56)

SERIES TM

Features:

- Indoor use
- Rugged construction
- External tension adjustment
- Tension increase through entire range of reel for stability

Balance Reel includes:

- 30' of 3/16" galvanized steel cable with protective nylon jacket
- Cable guide
- Rubber ball stop
- · Clevis hook



179/16" H x 11" W x 171/2" D

Catalog No.	Lift lbs. (kg.)	Range ft. (m)	Lift lbs. (kg.)	Range ft. (m)	Lift lbs. (kg.)	Range ft. (m)	Weight lbs. (kg)
	10 (4.5)	30 (9.1)	30 (13.6)	30 (9.1)	50 (22.6)	25 (7.6)	98 (44.5)
TME3KRR	15 (6.8)	30 (9.1)	35 (15.9)	30 (9.1)	55 (25.0)	20 (6.1)	98 (44.5)
TIVILORITI	20 (9.0)	30 (9.1)	40 (18.0)	30 (9.1)	60 (27.2)	15 (4.6)	98 (44.5)
	25 (11.3)	30 (9.1)	45 (20.4)	25 (7.6)	65 (29.5)	10 (3.1)	98 (44.5)

SPECIALTY - GROUNDING REELS

SDR SERIES GROUNDING REEL

Features:

- NEC Standards
- Rugged all-steel construction
- Compact Design
- Mounts in any position (with spool perpendicular to Ground/Horizon)





Cable Length (ft.)	Ohms	Description	Part No.	Weight.	H" x W" x D"
25'	0.3	Single Cable	SDR25-O	8 lbs.	6.3" x 5.8" x 3.0"
50'	0.6	Single Cable	SDR50-O	12 lbs.	8.3" x 8.5" x 3.7"
50' 30' active travel plus 20' ea. branch	0.6	"Y" Cable	SDR50Y-O	12 lbs.	8.3" x 8.5" x 3.7"

1400 SERIES GROUNDING REEL



We have pre-configured our rugged 1400 Series PowerReels for grounding applications by equipping them with the cables listed below.

- NEMA 4X standards
- Ball stop included
- 4-roller guide adustable cable guide
- Auto locking ratchet for constant tension
- 100 amp grounding clamp included
- Resistance not exceeding 2 Ohms
- For drawing see page 13

Cable Length (ft.)	Description	Part No.	Weight	H" x W" x D"
75'	12 AWG/I Cond. SOW-A	142120107511	52 lbs.	14.9" x 13.0" x 13.5"
100'	12 AWG/I Cond. SOW-A	142120110011	65 lbs.	14.9" x 13.0" x 13.5"
75'	Orange Nylon Jacket	146910107511	52 lbs.	14.9" x 13.0" x 13.5"
100'	Orange Nylon Jacket	146910110011	65 lbs.	14.9" x 13.0" x 13.5"

TERMS & CONDITIONS

TERMS & CONDITIONS

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Seller agrees to repair or exchange the goods sold hereunder necessitated by reason of defective workmanship and material discovered and reported to Seller within one year after shipment of such goods to Buyer.

Except where the nature of the defect is such that it is appropriate, in Seller's judgement, to effect repairs on site. Seller's obligation hereunder to remedy defects shall be limited to repairing or replacing (at Seller's option) FOB point of original shipment by Seller, any part returned to Seller at the risk and cost of Buyer. Defective parts replaced by Seller shall become the property of Seller.

Seller shall only be obligated to make such repair or replacement of the goods which have been used by Buyer only in service recommended by Seller and altered only as authorized by Seller. Seller is not responsible for defects which arise from improper installation, neglect, or improper use or from normal wear and tear.

Additionally, Seller's obligation shall be limited by the manufacturer's warranty, (and shall not be further warranted by Seller) for all parts procured from others according to published data, specifications or performance information not designed by or for Seller.

Seller further agrees to replace or at Seller's option to provide a refund of the sales price of any goods that did not conform to applicable specifications or which differ from that agreed to be supplied which non-conformity is discovered and forthwith reported to Seller within thirty (30) days after shipment to Buyer. Seller's obligation to replace or refund the purchase price for non-conforming goods shall arise once Buyer returns such good FOB point of original shipment by Seller at the risk and cost of Buyer. Goods replaced by Seller shall become property of Seller.

There is no guarantee or warranty as to anything made or sold by Seller, or any service performed, except as to title and freedom from encumbrances and, except as herein expressly stated and particularly, and without limiting the foregoing, there is no guarantee or warranty, express or implied, of merchantability or of fitness for any particular purpose or against claim of infringement or the like.

Seller makes no warranty (and assumes no liability) as to function of equipment or operation of systems built to Buyer's design or of the ability of any goods to interface, operate or function with any portions of Buyer's system not provided by Seller.

Seller's liability on any claim, whether in contract, or (including negligence), or otherwise, for any loss or damage arising out of, connected with, or resulting from the manufacture, sale, delivery, resale, repair, replacement or use of any products or services shall in no case exceed the price paid for the product or services or any part thereof which give rise to the claim. In no event shall Seller be liable for consequential, special, incidental or other damages, nor shall Seller be liable in respect to personal injury or damage to property on the subject matter hereof unless attributable to gross misconduct of Seller, which shall mean an act of omission by Seller demonstrating reckless disregard of the foreseeable consequences thereof.

Seller is not responsible for incorrect choice of models or where products are used in excess of their rated and recommended capacities and design functions or under abnormal conditions. Seller assumes no liability for loss of time, damage or injuries to property or persons resulting from the use of Seller's products. Buyer shall hold Seller harmless from all liability, claims, suits and expenses in connection with loss or damage resulting from operation of products, utilization of services, respectively, of Seller and shall defend any suit or action which might arise there from in Buyer's name - provided that Seller shall have the right to elect to defend any such suit or action for the account of Buyer. The foregoing shall be the exclusive remedies of the buyer and all persons and entitles claiming through the Buyer.

NOTES

Notes	
-	

REELS IN ACTION

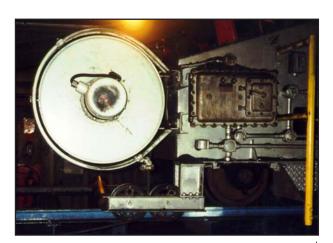


1400 Series PowerReels used in extendable conveyors to stretch 40 feet of 12/4 cable in a two-way payout application.



F Series Cable Reel used in a boom mounted crane to stretch and retrieve 70 feet of 10/3 and 14/3 = cable.

Three **Series 40 Hand Rewind Reels** used in a refrigerated railcar to drag 125 feet of 10/4 cable.



H Series Reel (hazardous duty) used in a coal A tripper to retrieve 160 feet of 6/3 Type G cable.



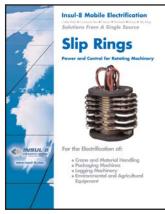


Solutions from a Single Source

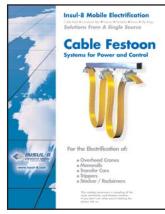
ISO 9001 Certified



PENDANT & RADIO CONTROLS



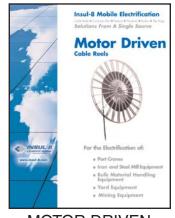
SLIP RINGS



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CANADA

175 Boulevard J.F. Kennedy St. Jerome, Quebec J7Y 4B5

Phone: (450) 565-9900 Toll Free: (800) 667-2487 Fax: (450) 432-6985 e-mail: contact@insul-8.com

USA

10102 F Street Omaha, NE 68127

Phone: (402) 339-9300 Toll Free: (800) 521-4888 Fax: (402) 339-9627 e-mail: i8-info@insul-8.com

AUSTRALIA:

14 England Street Dandenong, Victoria 3175

Phone: (3) 9706 88 44 Fax: (3) 794 92 98

e-mail: insul8@peninsula.starway.net.au