

Insul-8 Mobile Electrification

Cable Reels ♦ Conductor Bar ♦ Festoon ♦ Pendants ♦ Drives ♦ Slip Rings

Solutions From A Single Source

Cable Festoon

Systems for Power and Control



For the Electrification of:

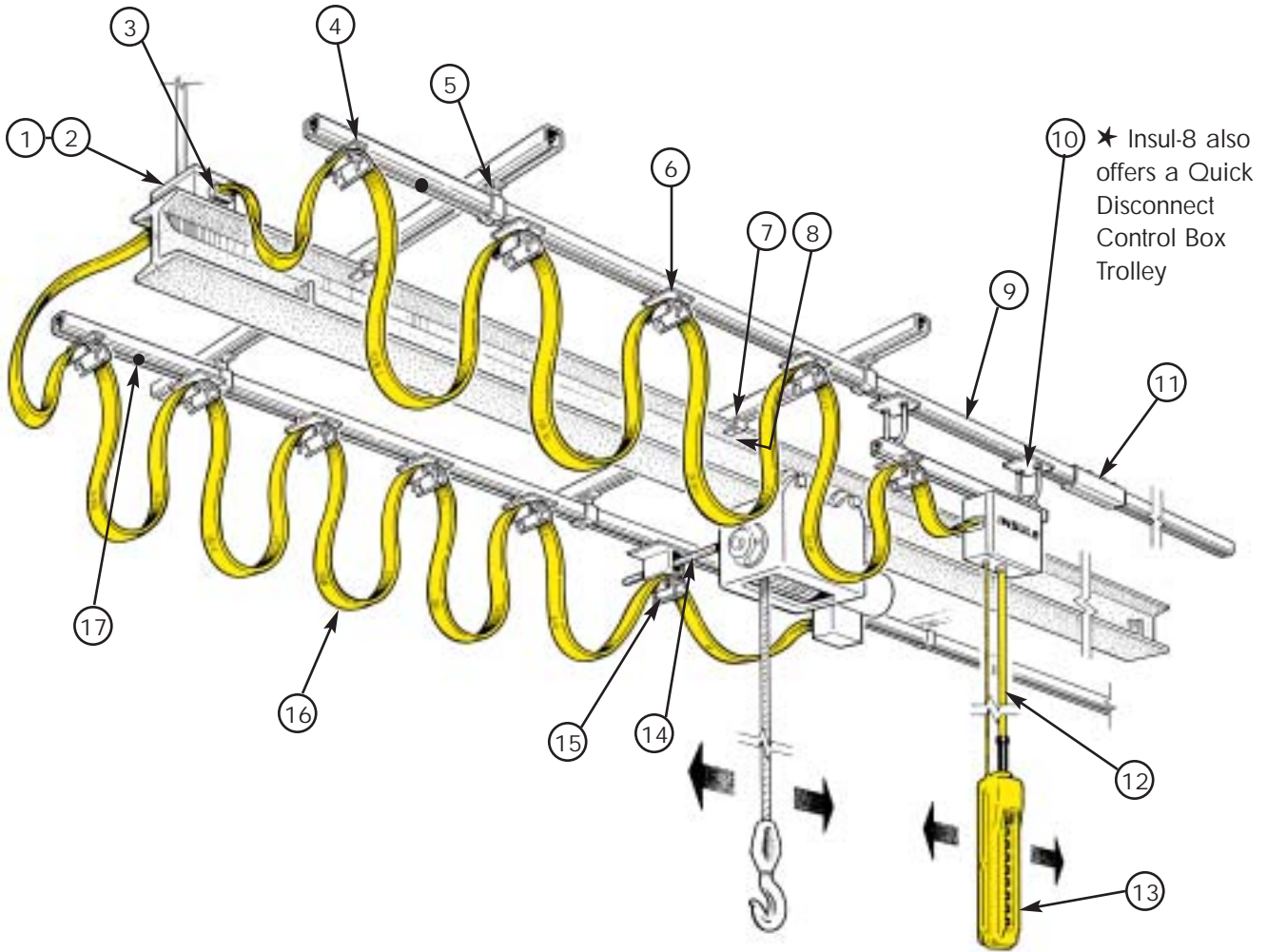
- Overhead Cranes
- Monorails
- Transfer Cars
- Trippers
- Stacker / Reclaimers

This catalog showcases a sampling of the most commonly used festoon systems. If you don't see what you're looking for, please ask us.



www.insul-8.com

Typical C-Track Festoon Systems (*Power & Control*) For Overhead Crane Installation



- | | |
|--|-------------------------------|
| ① Fixed End Junction Box | ⑨ Track |
| ② Terminal Strips (<i>inside junction box</i>) | ⑩ Control Box Trolley |
| ③ Cable Connectors | ⑪ Track Joint |
| ④ End Clamp | ⑫ Pendant Cable |
| ⑤ Track Hanger Clamp | ⑬ Pendant Push-Button Station |
| ⑥ Intermediate Trolley | ⑭ Tow Arm |
| ⑦ Cross Arm Support | ⑮ Tow Trolley |
| ⑧ Beam Clamp | ⑯ Flat PVC Cable |
| | ⑰ End Stop |

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THIS CATALOG PROVIDES A WIDE VARIETY OF FESTOONING SOLUTIONS FOR ELECTRIFYING OVERHEAD CRANES.

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IF YOU DON'T SEE WHAT YOU'RE LOOKING FOR, PLEASE ASK US.

Insul-8 also provides customized systems for unique applications including Heavy Duty Festoon systems.

ABOUT OUR SYSTEMS

FESTOON SYSTEMS are a clean, economical and efficient method of managing power and control cables for mobile equipment.

FESTOON SYSTEMS are generally used on overhead cranes for the transmission of power and control signals for crossbridge trolley travel, but they can also be applied to crane runway travel. Other applications for festoon systems are transfer cars, monorails, refuse cranes, waste water treatment machines and other material handling applications.

INSUL-8 CORPORATION offers a comprehensive line of festoon products, ranging from simplest of systems running on stretched wire rope to the complex, high speed demands of portal and container cranes. Insul-8's festoon systems run on wire rope, c-track, square bar and I-Beams, with trolleys able to support static loads up to 175 pounds and up to 1,100 pounds with Heavy-Duty festoon systems. Insul-8 festoon systems are designed to support and protect flat and round electrical cables and air or water hoses throughout the travel of the equipment. Our systems can operate in indoor and outdoor environments and can also be designed for harsh, aggressive environments.

FLAT CABLE AND CONNECTORS

Flat Cable

Required cable length equals track plus 10% plus length required for end connections

Cable Part Number		Cable Size		Continuous Duty Rating at 30°C (86°F) Ambient Amps*	Short Time Rating Amps**		No. of Strands per Conductor	Weight per Foot (lbs)	Nominal Dimensions Unshielded Cable (Inches)=
Yellow PVC Jacket	Shielded Flat Cable	Number of Conductors	AWG Wire Size		60 Min.	30 Min.			
23958Y		4	#2	120	148	173	665	1.27	.56" x 1.96"
26550Y		4	#4	90	111	130	420	.75	.49" x 1.70"
21814Y		4	#6	70	83	94	266	.60	.44" x 1.45"
26698Y		4	#8	50	63	69	168	.42	.37" x 1.19"
22542Y		4	#10	40	49	52	105	.24	.27" x .88"
22994Y		4	#12	30	36	40	65	.16	.23" x .71"
21815Y		4	#14	25	31	32	41	.12	.21" x .63"
26005Y		8	#12	21	Control Cables No Short Time Rating		65	.32	.23" x 1.34"
26110Y		8	#14	17			41	.22	.21" x 1.18"
22607Y	31772	8	#16	15			65	.18	.20" x 1.11"
21813Y		12	#14	17			41	.34	.21" x 1.90"
23324Y	31580	12	#16	15			65	.27	.20" x 1.61"
	31734	4	#16				65	.16	.24" x .76"

* See Current Correction Factors for Temperatures above 30°C (86°F)

** For Crane and hoist motors in accordance with article 610 of the 1989 National Electric Code for 90°C Cables

† Unshielded cable measurements may vary due to manufacturing tolerances. Contact Insul-8 for shielded cable dimensions.

†† All cables from #10 AWG through #16 AWG have rip cords for easy removal of the outer jacket.



Flat Cable Connectors

For Termination of Cable at Power Source or Junction Box.
Construction: Aluminum Body / Rubber Bushing



Catalog Number	No. of Cables	Cable Size		NPT	Ref Cable #
		No. of Cond	Wire Size (AWG)		
35838	1	4	#4	2"	26550Y
35838B	1	4	#6	2"	21814Y
35837	1	4	#8	1.5"	26698Y
35835C	1	4	#10	1"	22542Y
35835B	1	4	#12	1"	22994Y
35835	1	4	#14	1"	21815Y
35837B	1	8	#12	1.5"	26005Y
35837C	1	8	#14	1.5"	26110Y
35837D	1	8	#16	1.5"	22607Y
35838C	1	12	#14	2"	21813Y
35838D	1	12	#16	2"	23324Y
35838G	2	8	#12	2"	26005Y
35837E	2	8	#14	1.5"	26110Y
35837F	2	8	#16	1.5"	22607Y

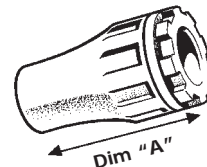
Catalog Number	No. of Cables	Cable Size		NPT	Ref Cable #
		No. of Cond	Wire Size (AWG)		
35838E	2	12	#14	2"	21813Y
35838F	2	12	#16	2"	23324Y
35837G	1	8	#16	1.5"	22607Y
	1	4	#14		21815Y
35837K	1	8	#14	1.5"	26110Y
	1	4	#14		21815Y
35837J	1	8	#16	1.5"	22607Y
	1	4	#10		22542Y
35837H	1	8	#14	1.5"	26110Y
	1	4	#10		22542Y
35837L	2	8	#16	1.5"	22607Y
		4	#12		22994Y
35837M	2	8	#14	1.5"	26110Y
		4	#12		22994Y

Heat shrinkable connections for single cable and multiple cable groups, for flat and round cable.

Corrosion Resistant ♦ Flame Retardant

Exceeds navy requirements for tightness and integrity when used with one flat cable or multiple flat cables of the same size

Catalog Number	Cable Opening	Knockout Diameter	Dimension "A"	Weight lbs.
03147	1.60"	2.00"	6.17"	.40
03146	1.10"	1.37"	4.5"	.10
03145	.75"	1.00"	4.09"	.06



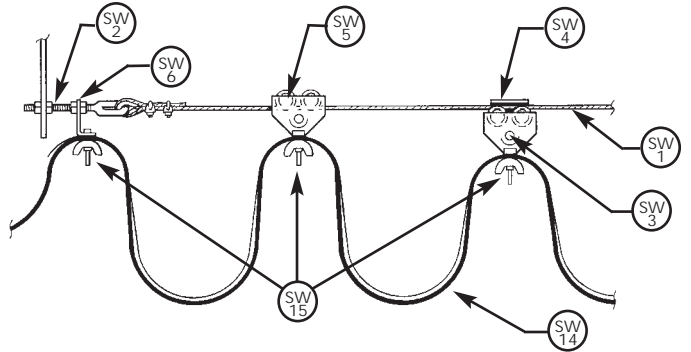
STRETCHED WIRE FESTOON KITS

Stretched Wire Rope Festoon Systems are well suited for light duty applications where an intermediate support structure is not available. Economical and dependable, stretched wire rope systems provide electrification to small cranes, moving hoists and jib cranes.

LOAD: 10 LBS (1 WHEEL) MAX. SPEED: 200 FPM MAX.
LOAD: 20 LBS (2 WHEEL) MAX. SPEED: 200 FPM MAX.

FOR FLAT CABLE:

Kit Part Number		Max. Span (In Feet)	No. of Trolleys in Kit
Max. Cable Width			
Single Wheel 3/4" Max.	Double Wheel 1-3/4" Max.		
24862	24867	20	3
24863	24868	40	6
24864	24869	60	9
24865	24870	80	13
24866	24871	100	17



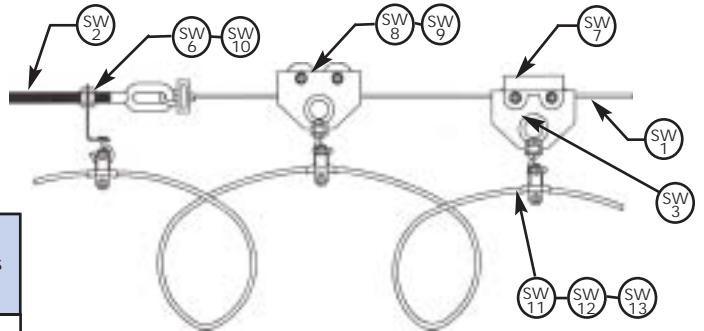
Kits include all components listed below:

Catalog #	Component	Catalog #	Component
SW 1	22950 Nylon Coated Wire Rope, 1/4" dia.	SW 6	22836 Anchor Bracket
SW 2	23288 Hardware Kit	SW 14	22834 Flat Cable Saddle < 3/4" (20mm) wide
SW 3	22830 Tow Bar	SW 15	22835 Flat Cable Clip
SW 4	22828 Tow Trolley (2 wheel)		
SW 5	22825 Trolley (1 wheel)		
	22826 Trolley (2 wheel)		

LOAD: 10 LBS (1 WHEEL) MAX. SPEED: 200 FPM MAX.
LOAD: 20 LBS (2 WHEEL) MAX. SPEED: 200 FPM MAX.

FOR HOSE & ROUND CABLE:

Kit Part Number						Max Span (In Feet)	No. of Trolleys in Kit
Cable / Hose O.D.							
3/16" - 3/8" Max.		3/8" - 9/16" Max.		9/16" - 3/4" Max.			
*1 wheel	2 wheel	*1 wheel	2 wheel	*1 wheel	2 wheel		
24872	24887	24877	24892	24882	24897	20	3
24873	24888	24878	24893	24883	24898	40	6
24874	24889	24879	24894	24884	24899	60	9
24875	24890	24880	24895	24885	24900	80	13
24876	24891	24881	24896	24886	24901	100	17

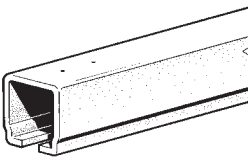
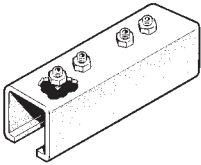
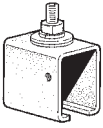
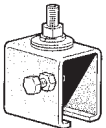
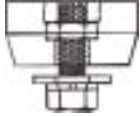
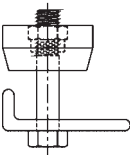
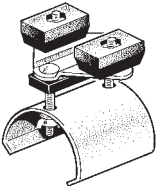


Catalog #	Component	Catalog #	Component	Catalog #	Component
SW 1	22950 Nylon Coated Wire Rope 1/4" Dia.	SW 8	22825 Trolley (1 wheel) *not shown	SW 13	22833 Cable Clip (9/16" to 3/4")
SW 2	23288 Hardware Kit	SW 9	22827 Trolley (2wheel) shown		
SW 3	22830 Tow Bar	SW 10	25689 Adapter		
SW 6	22836 Anchor Bracket	SW 11	22831 Cable Clip (3/16" to 3/8")		
SW 7	22829 Tow Trolley (2 wheel)	SW 12	22832 Cable Clip (3/8" to 9/16")		

STANDARD DUTY C-TRACK SYSTEM COMPONENTS

14 Gauge Galvanized Steel ♦ Stainless Steel

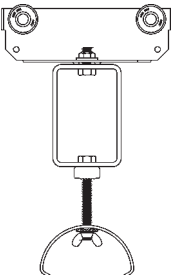
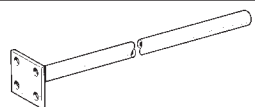
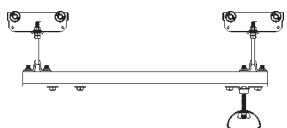

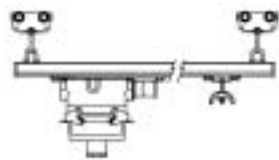


Standard Duty "C" Track festoon systems are light duty systems suited for cranes and hoists usually with a lighter duty cycle. Available for power or control systems in both straight and curved track configurations. Trolleys available in polypropylene galvanized steel and aluminum.

Load: 40 lbs max. Speed: 250 fpm max.	Catalog Number		Weight Pounds	Description
	Galvanized Steel	Stainless Steel		
	22209 21909 36678 36679	27725 27724	10 20 2lbs/ft 1lb/ft	14 Gauge C-Track 10 ft. Section 20 ft. Section Cross Arm Support Bracket: 36678 = 12 Gauge from 12" to 48" in 6" 36679 = 14 Gauge increments (please specify)
	21954 31856	27726 32059	.75 .75	Track Joint Assembly One required for each track section per run less one. Joint clamp for secure attachment and proper alignment of track sections. Includes four bolts, lock washers and nuts. Welded Joint Assembly for joining track section.
	28510 35707 22005	28741	.40 .51 .81	Track Hanger Clamp Assembly One required for each cross arm support bracket for each track run. 5' spacing. Designed to be mounted on angle iron brackets with one mounting hole. For mounting track to Cross Arm Support Bracket. Includes all required hardware. (Not Shown) Low profile track hanger assembly for mounting track to cross arm support. (Not Shown)
	28511 35706	28742	.40 .40	Anchor Clamp One required per track run Designed to hold track in place. For use with Cross Arm Support Bracket. Includes all required hardware. (Not Shown)
	23381	27727	.20	End Stop One required for power system, two required for control systems with control trolley.
	22264		.38	Beam Clamp for Cross Arm Support Two required for each cross arm support bracket.
	21957 28616 ★	27728	.56 .42 .56	End Clamp One required for each track run at storage end of track. 2.75" Dia. Steel saddle with clamp and hardware to secure cable. 2" Dia. Plastic saddle with clamp to secure cable. Black anodized aluminum saddle and stainless steel hardware.

Plastic trolleys, tow trolleys and end clamp suitable for use on galvanized steel systems are noted with "★"

STANDARD DUTY C-TRACK SYSTEM COMPONENTS

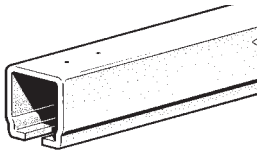
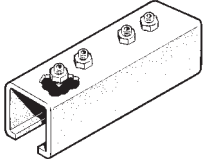
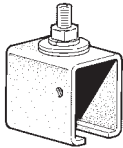
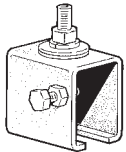

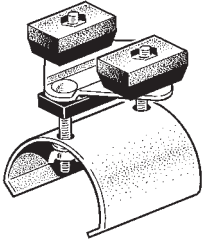
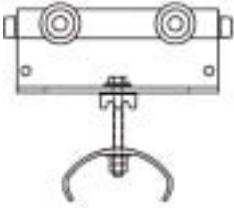
14 Gauge Galvanized Steel ♦ Stainless Steel (Continued)

Load: 40 lbs max. Speed: 250 fpm max.	Catalog Number		Weight Pounds	Description
	Galvanized Steel	Stainless Steel		
	22168 28614 ★	 32060	 1.12 .70 1.12	Tow Trolley Load rating: 40 lb max. One required for each piece of moving equipment to be electrified. Plated steel trolley with 2.75" Dia. saddle with cut out for tow bar. Plastic trolley with 2" Dia. plastic saddle with cut out for tow bar. Black anodized aluminum tow trolley with 4 stainless steel wheels and hardware.
	22830		1.2	Tow Bar One required for each tow trolley. For mounting on moving equipment 16" long.
	22203B	 32166	2.75 3.0	Control Box Trolley Two trolleys and one steel saddle mounted on bracket plus fittings to attach control box. (Control box not included.) Same as 22203 except with stainless steel trolleys and stainless steel wheels and hardware.
	28315 28314 34876	 28314K	9.0 9.0 .20	Junction Boxes and Terminal Strips 8" x 10" x 4" steel junction box NEMA 13 8" x 10" x 4" steel junction box for control box trolley. <u>Complete with 12 pole terminal strip.</u> Galvanized Steel Rated at: NEMA 13 Stainless Steel Rated at: NEMA 4X 12-pole terminal strip.
	2366 (16 Pin) 2367 (24 Pin)		5.28 5.59	Control Unit Trolley with Quick Disconnect Lead trolley in control festoon system. Manually pulled with push-button pendant attached to drop cable. Drop cable is then wired into lower half of "quick disconnect". Flat festoon cable is wired into upper half of "quick disconnect". Zinc plated steel trolleys and hardware. Electrical Ratings: 16A Max. 600 Volts AC
	21941	 32062	1.0 .89	Cable Trolley - 5" Load rating 40 lbs max. 5-inch trolley with 4 steel shielded ball bearing wheels, 2.75" Dia. steel saddle and hardware. Black anodized aluminum body and trolley with stainless steel wheels and hardware.
	21991 28615 ★	 32061	.70 .40 .70	Cable Trolley - 3" 3 inch steel trolley with 4 shielded steel ball bearing wheels, 2.75" Dia. steel saddle and hardware. 3 inch plastic trolley with 4 shielded steel ball bearing wheels, 2" Dia plastic saddle. <i>(not shown)</i> Black anodized aluminum body and saddle with stainless steel wheels and hardware.

HEAVY DUTY C-TRACK SYSTEM COMPONENTS

12 Gauge Galvanized Steel ♦ Flat Cable Components

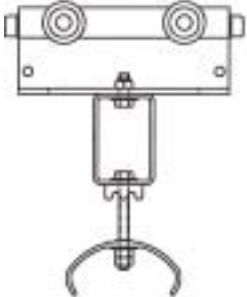
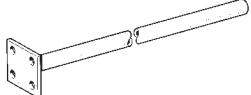
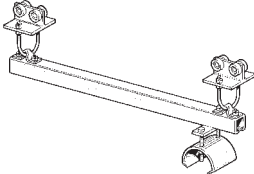

Heavy Duty "C" Track festoon systems are suited for cranes and hoists usually with a heavier duty cycle. Available for power or control systems in straight configurations. Trolleys available heavy gauge aluminum with aluminum saddle only.

Load: 80 lbs max. Speed: 500 fpm max.	Catalog Number	Weight Pounds	Description
	22210 21805	20.0 40.0	12 Gauge C-Track 10 ft. Section 20 ft. Section
	21806	1.08	Track Joint Assembly One required for each track section per run less one. Joint clamp for secure attachment and proper alignment of track sections. Includes four bolts, lock washers and nuts.
	28512	.45	Track Hanger Clamp Assembly One required for each angle iron bracket for each track run. 10' spacing. Designed to be mounted on angle iron brackets with one mounting hole.
	28513	.45	Anchor Clamp One required per track run. Designed to hold track in place.
	28508	.20	End Stop One required for Power System, two required for Systems with Control Trolley.
	21932	1.63	End Clamp One required for each track run at storage end of track. Aluminum saddle 4" dia. with clamp and hardware to secure cable 5 1/4" wide.
	21802	3.0	Cable Trolley Trolley load rating 80 lbs max. 8" high strength aluminum body with 4" dia aluminum saddle. Trolley bumpers.

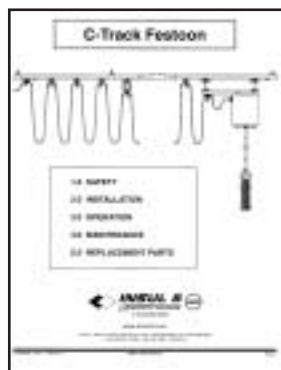
HEAVY DUTY C-TRACK SYSTEM COMPONENTS

12 Gauge Galvanized Steel ♦ Flat Cable Components

Continued

Load: 80 lbs max. Speed: 500 fpm max.	Catalog Number	Weight Pounds	Description
	22169	4.75	Tow Trolley Load rating: 80 lb max. One required for each piece of moving equipment to be electrified. 8" trolley and aluminum saddle 4" dia. with cut out for tow bar.
	22008	2.63	Tow Bar One required for each tow trolley. For mounting on moving equipment 24" long.
	22350	12.5	Control Box Trolley Two trolleys and one aluminum saddle 4" dia. mounted on bracket plus fittings to attach control box. (Junction Box sold separately below.)
	28315 28314 34876	9.0 9.0 .20	Junction Boxes and Terminal Strips 8" x 10" x 4" Steel junction box. NEMA 13 8" x 10" x 4" steel junction box for control box trolley. Complete with 12 pole terminal strip. 12-pole terminal strip.

Trolleys, saddles and all associated parts for round cable and air hose systems are available. Refer to the Installation Operation and Maintenance manual (I.O.M.) and Festoon Price List for details.



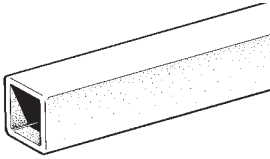
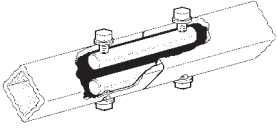
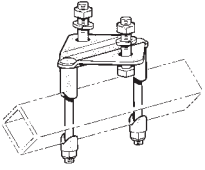
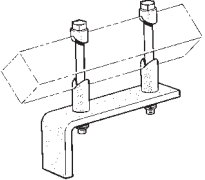
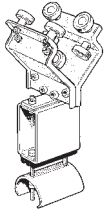

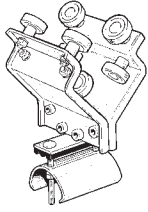
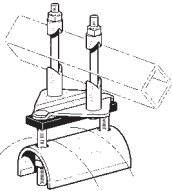
I.O.M.



Price List

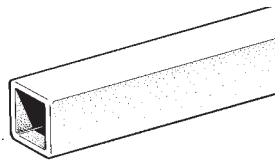
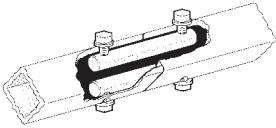
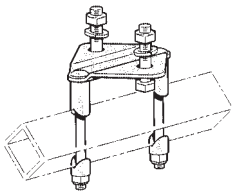
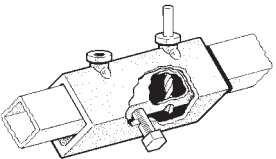
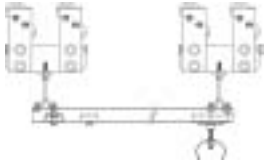

An I.O.M. is included with each order. Price lists may be obtained through your local rep.

STANDARD DUTY SQUARE BAR COMPONENTS

Load: 45 lbs max. Speed: 250 fpm max.	Catalog Number		Weight Pounds	Description
	Standard	Stainless Steel		
	24525	27843	28.0	Track (Square Bar) 20 ft. Section, H.R. Steel Track
	34601		28.0	20 ft. Section, Stainless Steel Track
			28.0	20 ft. Section, Galvanized Steel Track
	25681	27845	.25	Track Joint Track joint for secure attachment and proper alignment of track sections.
	25598	27846	.50	Track Hanger Designed to be mounted on angle iron bracket. 5' spacing. Typical, 2'-6" spacing in storage area. <i>NOTE: Use Drill Fixture for Drilling Holes. Part #: 25728</i>
	25596	27847	.75	End Stop Designed to be located between end clamp and intermediate trolley.
	25594	28621	3.0	Tow Trolley Load rating 45 lbs max. One required per system. 4" long body with cut out for Tow Bar.
	28315	28314K	9.0	Junction Boxes and Terminal Strips 8" x 10" x 4" steel junction box NEMA 13. (Terminal Strip not included)
	28314		9.0	8" x 10" x 4" steel junction box for control box trolley. (Includes 12 pole terminal strip.)
	34876		.20	Galvanized Steel Rated at: NEMA 13 Stainless Steel Rated at: NEMA 4X 12-pole terminal strip.
	25593	28622	2.5	Cable Trolley Trolley load rating 45 lbs max. 4" long body with 2.75" dia. aluminum saddle
	25595	28548	1.50	End Clamp One required per system at storage end of track.

Curved Systems and Control Trolleys also available.

HEAVY DUTY SQUARE BAR COMPONENTS

Load: 175 lbs max. Speed: 250 fpm max.	Catalog Number		Weight Pounds	Description
	Standard	Stainless Steel		
	24526	27663	46.0	Track (Heavy Square Bar) 20 ft. Section, H.R. Steel Track
	34603		46.0	20 ft. Section, Stainless Steel Track
			46.0	20 ft. Section, Galvanized Steel Track
	25683	27664	.50	Track Joint Track joint for secure attachment and proper alignment of track sections.
	25667	27671	1.50	Track Hanger Designed to be mounted on angle iron bracket. 10' spacing. Typical 5' spacing in storage area.
	25726	25726	2.0	Drill Fixture Used for drilling holes at proper position for attachment of hangers, end clamps and end stops.
	25670	Special Unit. Available upon request.	26.0	Control Box Trolley Two trolleys and one aluminum saddle 4" dia. mounted on bracket plus fittings to attach control box. (Control box not included.)
	28315	28314K	9.0	Junction Boxes and Terminal Strips 8" x 10" x 4" steel junction box NEMA 13. (Terminal Strip not included)
	28314		9.0	8" x 10" x 4" steel junction box for control box trolley. (Includes 12 pole terminal strip.)
	34876		.20	Galvanized Steel Rated at: NEMA 13 Stainless Steel Rated at: NEMA 4X 12-pole terminal strip.

Curved Systems also available.

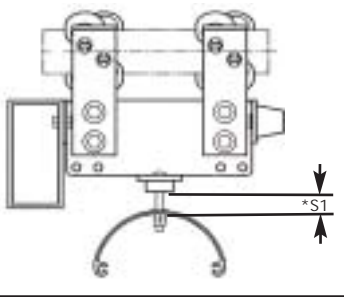
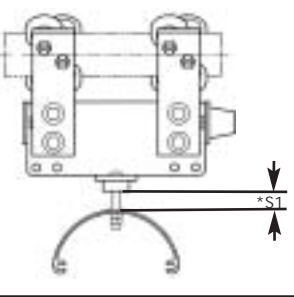
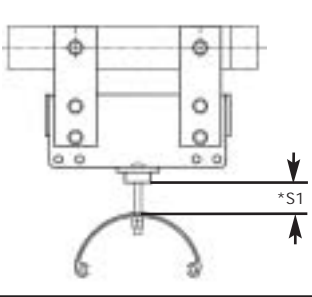
Curved festoon systems may be required for electrification and/or control of curved monorails and machines that travel in a circular motion. Also, some systems may require more storage space than available.

Additional storage space may be gained by curving the festoon track 90° to the crane rail.

Consult Insul-8 for details on curved systems and other solutions for your festoon application.

HEAVY DUTY SQUARE BAR TROLLEYS FOR FLAT CABLE

Heavy Duty Square Bar Trolleys feature all-steel body construction with aluminum cable saddle. The trolleys are suitable for indoor and outdoor applications for flat cable. Standard wheels are steel with sealed ball bearings.

Load: 175 lbs max. Speed: 250 fpm max.	Tow Trolley	Cable Trolley	End Clamp
			
Catalog Number	See Chart Below	See Chart Below	See Chart Below
Weight in Pounds	13.5	11.5	8.5
Description	One Tow Trolley required per system. Supplied with towing box for tow bar.	Standard construction consists of steel body, aluminum saddle. Maximum load per trolley is 95 lbs.	One End Clamp required per system. Bolted to Square Bar Track.

Specifications & Dimensions

Body: Steel-Zinc Plated
Saddle: Aluminum
Wheels: 1.77" O.D.
Hardware: Zinc Plated

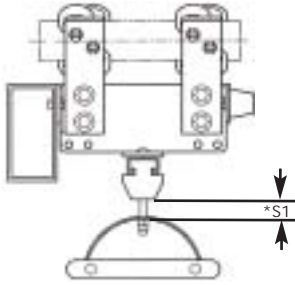
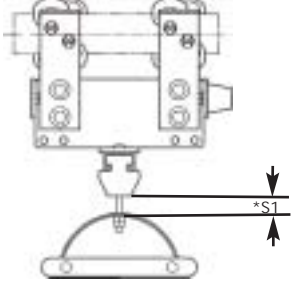
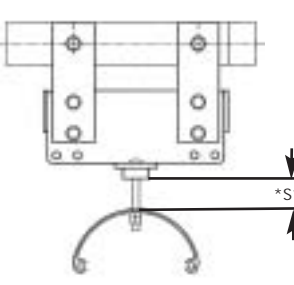
Cable Pad: Neoprene Rubber
Load: 175 lbs
W2= Max Cable Window Width
S1= Max Cable Window Height

Tow Trolley		Cable Trolley		End Clamp		Dimensions (Inches)			
Catalog #	Length	Catalog #	Length	Catalog #	Length	Saddle Dia.	Width	W2	*S1
45400	11.125	45426	8.625	45453	7.375	4	5.25	3.9	2
45400B	11.125	45426B	8.625	45453B	7.375	4	8	6.7	2
45401	12.625	45427	10.125	45454	8.875	4	5.25	3.9	3.5
45401B	12.625	45427B	10.125	45454B	8.875	4	8	6.7	3.5
45402	15.125	45428	12.625	45455	11.375	4	5.25	3.9	6
45402B	15.125	45428B	12.625	45455B	11.375	4	8	6.7	6
45406	12.625	45432	10.125	45459	8.875	6	5.25	3.9	2
45406B	12.625	45432B	10.125	45459B	8.875	6	8	6.7	2
45407	15.125	45433	12.625	45460	11.375	6	5.25	3.9	4.5
45407B	15.125	45433B	12.625	45460B	11.375	6	8	6.7	4.5
45410	15.125	45436	12.625	45463	11.375	8	5.25	3.9	2
45410B	15.125	45436B	12.625	45463B	11.375	8	8	6.7	2

Insul-8 also offers Stainless Steel Trolleys. Please contact the factory if you are interested in these units.

HEAVY DUTY SQUARE BAR TROLLEYS FOR ROUND CABLE

Heavy Duty Square Bar Trolleys feature all-steel body construction with aluminum cable saddle. The trolleys are suitable for indoor and outdoor applications for round cable. Standard wheels are steel, with sealed ball bearings.

Load: 175 lbs max. Speed: 250 fpm max.	Tow Trolley	Trolley	End Clamp
			
Catalog Number	See Chart Below	See Chart Below	See Chart Below
Weight in Pounds	14.0	12.0	9.0
Description	One Tow Trolley required per system. Supplied with towing box for tow bar.	Standard construction consists of steel body, aluminum saddle. Maximum load per trolley is 95 lbs.	One End Clamp required per system. Bolted to Square Bar Track.

Specifications & Dimensions

Body: Steel-Zinc Plated
Saddle: Aluminum
Wheels: 1.77" O.D.
Hardware: Zinc Plated




Cable Pad: Neoprene Rubber
Load: 175 lbs
W2= Max Cable Window Width
S1= Max Cable Window Height

Tow Trolley		Cable Trolley		End Clamp		Dimensions (Inches)			
Catalog #	Length	Catalog #	Length	Catalog #	Length	Saddle Dia.	Width	W2	*S1
45403	11.125	45429	8.625	45456	7.375	4	5.25	3.9	.4"
45403B	11.125	45429B	8.625	45456B	7.375	4	8	6.7	.4"
45408	12.625	45434	10.125	45461	8.875	6	5.25	3.9	.6"
45408B	12.625	45434B	10.125	45461B	8.875	6	8	6.7	.6"
45411	15.125	45437	12.625	45464	11.375	8	5.25	3.9	.8"
45411B	15.125	45437B	12.625	45464B	11.375	8	8	6.7	.8"

Insul-8 also offers Stainless Steel Trolleys. Please contact the factory if you are interested in these units.

SERIES 200 I BEAM FOR FLAT CABLE

This I-Beam festoon system is ideal for slow speed operation at speeds up to but not exceeding 200 fpm with loads of up to 55lbs. The Series 200 "I" Beam System can be strategically used indoors where festoon cable systems are required to operate on an "I" Beam. These "I" Beam trolleys are sand cast aluminum with nylon wheels.

Load: 55 lbs max. Speed: 200 fpm max.	Tow Trolley	Cable Trolley	End Clamp
			
Catalog Number	24829	24830	24828
Weight in Pounds	2.75	2.0	.75
Description	One Tow Trolley required per system. Supplied with towing box for tow bar.	Standard construction consists of 5" long body, 2.75"Dia. x 4" wide saddle. Maximum load per trolley is 55 lbs.	One End Clamp required per system. Bolted to "I" Beam with (2) 1/4"-20 x .25" mounting bolts.

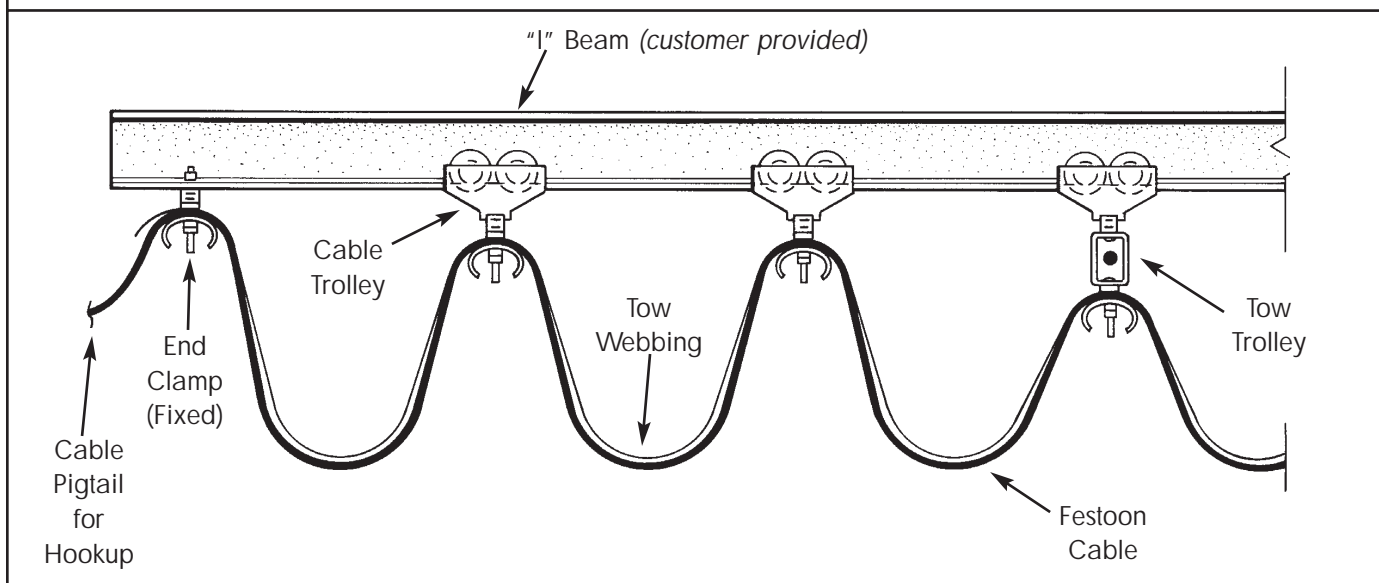
Specifications & Dimensions

Body: Sand cast Aluminum
Saddle: 2.75" Dia. Aluminum
Wheels: Nylon
Cable Pad: Neoprene Rubber

Load: 55 lbs. max
Speed: 200 fpm. max
Maximum "I" Beam Flange Width: 4.50"

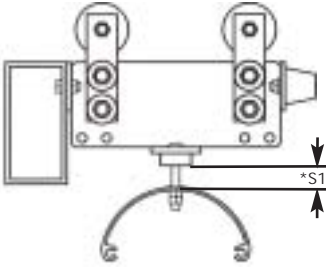
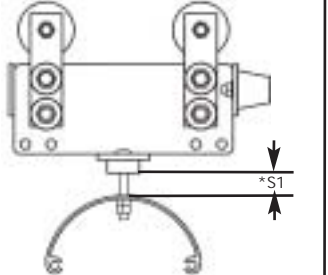
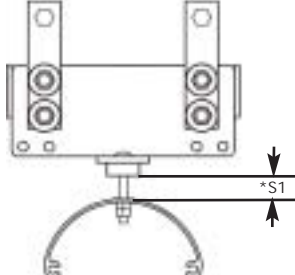
NOTE:

- Trolleys available for "I" Beam flange width up to 6.25"
 - Trolleys with steel wheels available, simply order: 28904 / 2.0 lbs Tow Trolley
 33530 / 2.75 lbs Cable Trolley
 24828 / .75 lbs End Clamp
- For trolleys without anti-kick rollers simply add "B" to the end of the part number.*



SERIES 250 1" BEAM FOR FLAT CABLE

Series 250 "1" Beam Trolleys feature all-steel body construction with aluminum cable saddles. These trolleys are suitable for indoor and outdoor applications for flat cable. Wheels are available in steel for standard applications and bronze★ for spark resistant environments.

Load: 95 lbs max. Speed: 250 fpm max.	Tow Trolley	Cable Trolley	End Clamp
			
Catalog Number	See Chart Below	See Chart Below	See Chart Below
Weight in Pounds	14.5	10.0	8.0
Description	One Tow Trolley required per system. Supplied with towing box for tow bar. Running Gear with Anti-Lift rollers required.	Standard construction consists of steel body, aluminum saddle. Maximum load per trolley is 95 lbs. Running gear with or without Anti-Lift rollers available.	One End Clamp required per system. Bolted to "1" Beam.

Running Gear: W-Beams

Without Anti-Lift Rollers: **45197**
 With Anti-Lift Rollers: **45198**

Beam	Code	Beam	Code
W4 x 13	A	W6 x 9	D
W5 x 16	B	W6 x 12	E
W5 x 19	C	W8 x 10	K

Running Gear: S-Beams

Without Anti-Lift Rollers: **45187**
 With Anti-Lift Rollers: **45188**

Beam	Code	Beam	Code
S4 x 7.7	C	S6 x 12.5	G
S4 x 9.5	D	S6 x 17.25	H
S5 x 10.0	E	S7 x 15.3	J

★ (Consult factory for bronze rollers and other beam sizes!)

Specifications & Dimensions

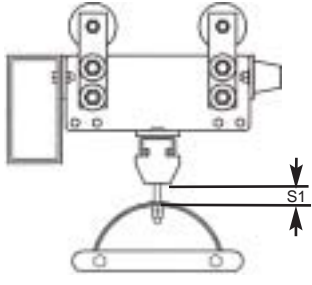
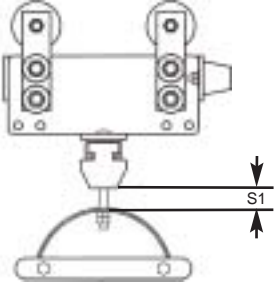
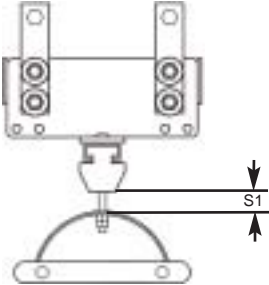
Body: Steel-Zinc Plated
Saddle: Aluminum
Wheels: 40mm Steel Flanged
Anti-Lift Bearing: 1.38 Dia.

SteelHardware: Zinc Plated
Cable Pad: Neoprene Rubber
Load: 95 lbs
W2= Max Cable Window Width
S1= Max Cable Window Height

Tow Trolley		Trolley		End Clamp		Dimensions (Inches)			
Catalog #	Length	Catalog #	Length	Catalog #	Length	Saddle Dia.	Width	W2	*S1
45100	11.125	45126	8.625	45153	7.375	4	5.25	3.9	2
45100B	11.125	45126B	8.625	45153B	7.375	4	8	6.7	2
45101	12.625	45127	10.125	45154	8.875	4	5.25	3.9	3.5
45101B	12.625	45127B	10.125	45154B	8.875	4	8	6.7	3.5
45102	15.125	45128	12.625	45155	11.375	4	5.25	3.9	6
45102B	15.125	45128B	12.625	45155B	11.375	4	8	6.7	6
45106	12.625	45132	10.125	45159	8.875	6	5.25	3.9	2
45106B	12.625	45132B	10.125	45159B	8.875	6	8	6.7	2
45107	15.125	45133	12.625	45160	11.375	6	5.25	3.9	4.5
45107B	15.125	45133B	12.625	45160B	11.375	6	8	6.7	4.5
45110	15.125	45136	12.625	45163	11.375	8	5.25	3.9	2
45110B	15.125	45136B	12.625	45163B	11.375	8	8	6.7	2

SERIES 250 1" BEAM FOR ROUND CABLE

Series 250 "1" Beam Trolleys feature all-steel body construction with aluminum cable saddles. These trolleys are suitable for indoor and outdoor applications for round cable. Wheels are available in steel for standard applications and bronze★ for spark resistant environments.

Load: 95 lbs max. Speed: 250 fpm max.	Tow Trolley	Cable Trolley	End Clamp
			
Catalog Number	See Chart Below	See Chart Below	See Chart Below
Weight in Pounds	15.0	10.5	8.5
Description	One Tow Trolley required per system. Supplied with towing box for tow bar. Running Gear with Anti-Lift rollers required.	Standard construction consists of steel body, aluminum saddle. Maximum load per trolley is 95 lbs. Running gear with or without Anti-Lift rollers available.	One End Clamp required per system. Bolted to "1" Beam.

Running Gear: W-Beams

Without Anti-Lift Rollers: **45197**
 With Anti-Lift Rollers: **45198**

Beam	Code	Beam	Code
W4 x 13	A	W6 x 9	D
W5 x 16	B	W6 x 12	E
W5 x 19	C	W8 x 10	K

Running Gear: S-Beams

Without Anti-Lift Rollers: **45187**
 With Anti-Lift Rollers: **45188**

Beam	Code	Beam	Code
S4 x 7.7	C	S6 x 12.5	G
S4 x 9.5	D	S6 x 17.25	H
S5 x 10.0	E	S7 x 15.3	J

★ (Consult factory for bronze rollers and other beam sizes!)

Specifications & Dimensions

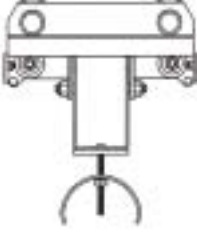
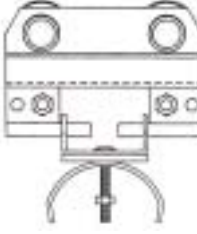
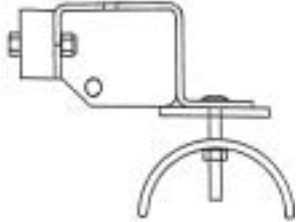
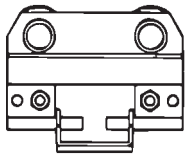
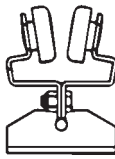
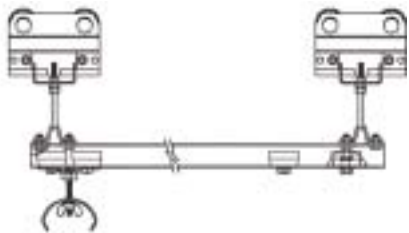
Body: Steel-Zinc Plated
Saddle: Aluminum
Wheels: 40mm Steel Flanged
Anti-Lift Bearing: 1.38 Dia.

Steel Hardware: Zinc Plated
Cable Pad: Neoprene Rubber
Load: 95 lbs
W2= Max Cable Window Width
S1= Max Cable Window Height

Tow Trolley		Cable Trolley		End Clamp		Dimensions (Inches)			
Catalog #	Length	Catalog #	Length	Catalog #	Length	Saddle Dia.	Width	W2	S1
45103	11.125	45129	8.625	45156	7.375	4	5.25	3.9	.4
45103B	11.125	45129B	8.625	45156B	7.375	4	8	6.7	.4
45108	12.625	45134	10.125	45161	8.875	6	5.25	3.9	.6
45108B	12.625	45134B	10.125	45161B	8.875	6	8	6.7	.6
45111	15.125	45137	12.625	45164	11.375	8	5.25	3.9	.8
45111B	15.125	45137B	12.625	45164B	11.375	8	8	6.7	.8

SERIES 300 I BEAM FOR FLAT CABLE

The economical Series 300 "I" Beam Trolleys for flat cable are designed to run on S3 x 5.7#, S3 x 7.5# or S4 x 7.7# "I" beams only. The saddle is suspended from the trolley by a pivot mechanism which allows the cable package to sway during crane operation providing smoother operation. Lead trolleys are supplied with anti-lift rollers as standard.

Load: 150 lbs max. Speed: 300 fpm max.	Catalog Number	Weight Pounds	Description
	34366	9.0	Tow Trolley One required per system. Complete with Anti-Lift Rollers positioned as Lead Trolley in system is equipped with cut out box for engagement of tow bar from mobile consumer. Length= 8.00"
	34364	5.0	Cable Trolley Standard construction consists of steel body, steel saddle. Maximum load per trolley is 150 lbs. Length= 5.50"
	34365	5.0	End Clamp One End Clamp required per system. Positioned at end of system and clamped to "I" Beam. Length= 7.77"
 	34407	5.0	Single Control Trolley Single trolley suitable for mounting junction box. Length = 5.5"
	34925	13.0	Control Box Trolley Two trolleys and one steel saddle mounted on bracket plus fittings to attach control box Junction Box sold separately (See Page 10.) Length = 26.25"

Specifications

Body: Low Carbon Steel
Saddle: Low Carbon Steel
Finish: Zinc Plated w/yellow Dichromate Seal
Hardware: Zinc Plated

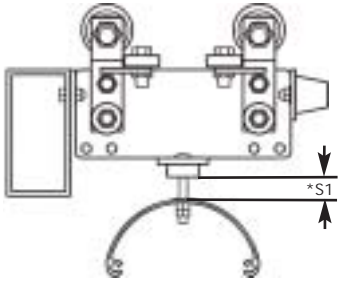
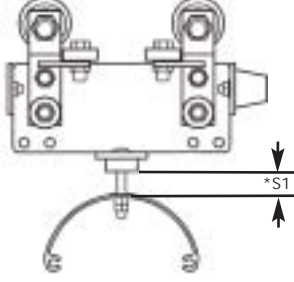
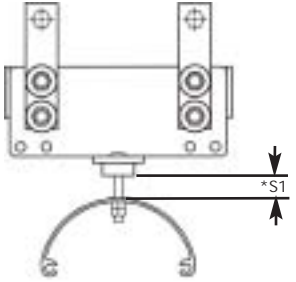
Rollers:

- Main - 1.68" Dia. Hardened Steel
- Anti-Lift - 1.19" Dia. Hardened Steel.

Saddle Diameter: 3.4"
Cable Window: 2.38" wide x 1.00" high

SERIES 350 I BEAM FOR FLAT CABLE

Series 350 "I" Beam Systems are designed for flat cable in a wide range of applications such as steel mills and aluminum smelters. These trolleys are built to meet the demanding requirements of large cranes and moving machinery. The trolleys are provided with side guide and anti-lift rollers to withstand the most demanding applications. The trolleys are suitable for indoor and outdoor applications for flat cable. Wheels are available in steel for standard applications.

Load: 175 lbs max. Speed: 350 fpm max.	Tow Trolley	Cable Trolley	End Clamp
			
Catalog Number	See Chart Below	See Chart Below	See Chart Below
Weight in Pounds	16.5	12.0	10.0
Description	One Tow Trolley required per system. Supplied with towing box for tow bar. Running Gear with Anti-Lift rollers required.	Standard construction consists of steel body, aluminum saddle. Maximum load per trolley is 175 lbs. Running gear with or without Anti-Lift rollers available.	One End Clamp required per system. Bolted to "I" Beam.

Running Gear: W-Beams

Without Anti-Lift Rollers: **45195**
With Anti-Lift Rollers: **45196**

Beam	Code	Beam	Code
W4 x 13	A	W6 x 9	D
W5 x 16	B	W6 x 12	E
W5 x 19	C	W8 x 10	K

Running Gear: S-Beams

Without Anti-Lift Rollers: **45185**
With Anti-Lift Rollers: **45186**

Beam	Code	Beam	Code
S4 x 7.7	C	S6 x 12.5	G
S4 x 9.5	D	S6 x 17.25	H
S5 x 10.0	E	S7 x 15.3	J

Need another beam size? Call us.

Specifications & Dimensions

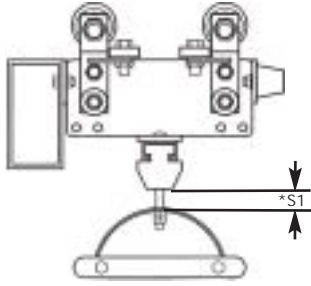
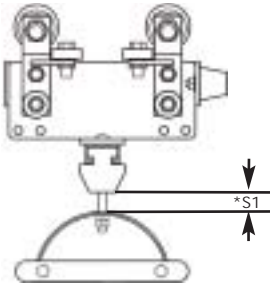
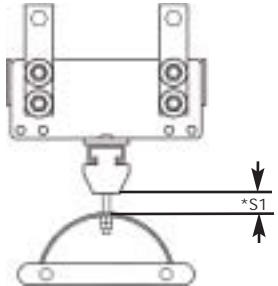
Body: Steel-Zinc Plated
Saddle: Aluminum
Wheels: 2" Dia. Crowned Steel
Anti-Lift Bearing: 1.38 Dia.

Steel Hardware: Zinc Plated
Cable Pad: Neoprene Rubber
Load: 175 lbs Max.
W2= Max Cable Window Width
S1= Max Cable Window Height

Tow Trolley		Trolley		End Clamp		Dimensions (Inches)			
Catalog #	Length	Catalog #	Length	Catalog #	Length	Saddle Dia.	Width	W2	*S1
45100	11.125	45126	8.625	45153	7.375	4	5.25	3.9	2
45100B	11.125	45126B	8.625	45153B	7.375	4	8	6.7	2
45101	12.625	45127	10.125	45154	8.875	4	5.25	3.9	3.5
45101B	12.625	45127B	10.125	45154B	8.875	4	8	6.7	3.5
45102	15.125	45128	12.625	45155	11.375	4	5.25	3.9	6
45102B	15.125	45128B	12.625	45155B	11.375	4	8	6.7	6
45106	12.625	45132	10.125	45159	8.875	6	5.25	3.9	2
45106B	12.625	45132B	10.125	45159B	8.875	6	8	6.7	2
45107	15.125	45133	12.625	45160	11.375	6	5.25	3.9	4.5
45107B	15.125	45133B	12.625	45160B	11.375	6	8	6.7	4.5
45110	15.125	45136	12.625	45163	11.375	8	5.25	3.9	2
45110B	15.125	45136B	12.625	45163B	11.375	8	8	6.7	2

SERIES 350 1" BEAM FOR ROUND CABLE

Series 350 "1" Beam Systems are designed for round cable in a wide range of applications such as steel mills and aluminum smelters. These trolleys are built to meet the demanding requirements of large cranes and moving machinery. These trolleys are provided with side guide and anti-lift rollers to withstand the most demanding applications. Trolleys are suitable for indoor and outdoor applications for round cable. Wheels are available in steel for standard applications.

Load: 175 lbs max. Speed: 350 fpm max.	Tow Trolley	Cable Trolley	End Clamp
			
Catalog Number	See Chart Below	See Chart Below	See Chart Below
Weight in Pounds	17.0	13.0	11.0
Description	One Tow Trolley required per system. Supplied with towing box for low bar. Running Gear with Anti-Lift rollers required.	Standard construction consists of steel body, aluminum saddle. Maximum load per trolley is 175 lbs. Running gear with or without Anti-Lift rollers available.	One End Clamp required per system. Bolted to "1" Beam.

Running Gear: W-Beams

Without Anti-Lift Rollers: **45195**
With Anti-Lift Rollers: **45196**

Beam	Code	Beam	Code
W4 x 13	A	W6 x 9	D
W5 x 16	B	W6 x 12	E
W5 x 19	C	W8 x 10	K

Running Gear: S-Beams

Without Anti-Lift Rollers: **45185**
With Anti-Lift Rollers: **45186**

Beam	Code	Beam	Code
S4 x 7.7	C	S6 x 12.5	G
S4 x 9.5	D	S6 x 17.25	H
S5 x 10.0	E	S7 x 15.3	J

(Consult factory for other beam sizes!)

Specifications & Dimensions

Body: Steel-Zinc Plated

Saddle: Aluminum

Wheels: 2" Dia. (40mm) Steel Flanged

Anti-Lift Bearing: 1.38 Dia.

SteelHardware: Zinc Plated

Cable Pad: Neoprene Rubber

Load: 175 lbs

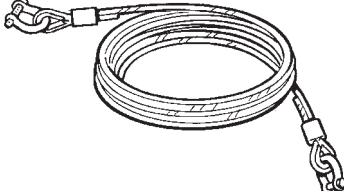
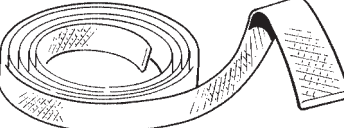
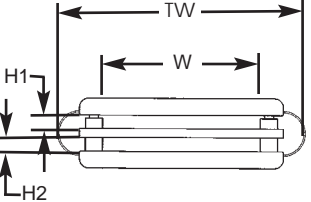
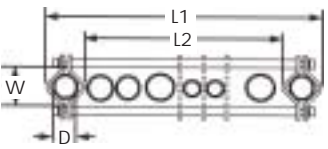
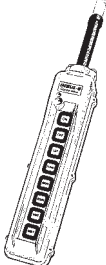
W2= Max Cable Window Width

S1= Max Cable Window Height

Tow Trolley		Cable Trolley		End Clamp		Dimensions (Inches)			
Catalog #	Length	Catalog #	Length	Catalog #	Length	Saddle Dia.	Width	W2	*S1
45103	11.125	45129	8.625	45156	7.375	4	5.25	3.9	.4
45103B	11.125	45129B	8.625	45156B	7.375	4	8	6.7	.4
45108	12.625	45134	10.125	45161	8.875	6	5.25	3.9	.6
45108B	12.625	45134B	10.125	45161B	8.875	6	8	6.7	.6
45111	15.125	45137	12.625	45164	11.375	8	5.25	3.9	.8
45111B	15.125	45137B	12.625	45164B	11.375	8	8	6.7	.8

FESTOON ACCESSORIES

INSUL-8 offers a complete selection of accessories for your festoon system, including a variety of push-button pendants to maximize the value of your system.

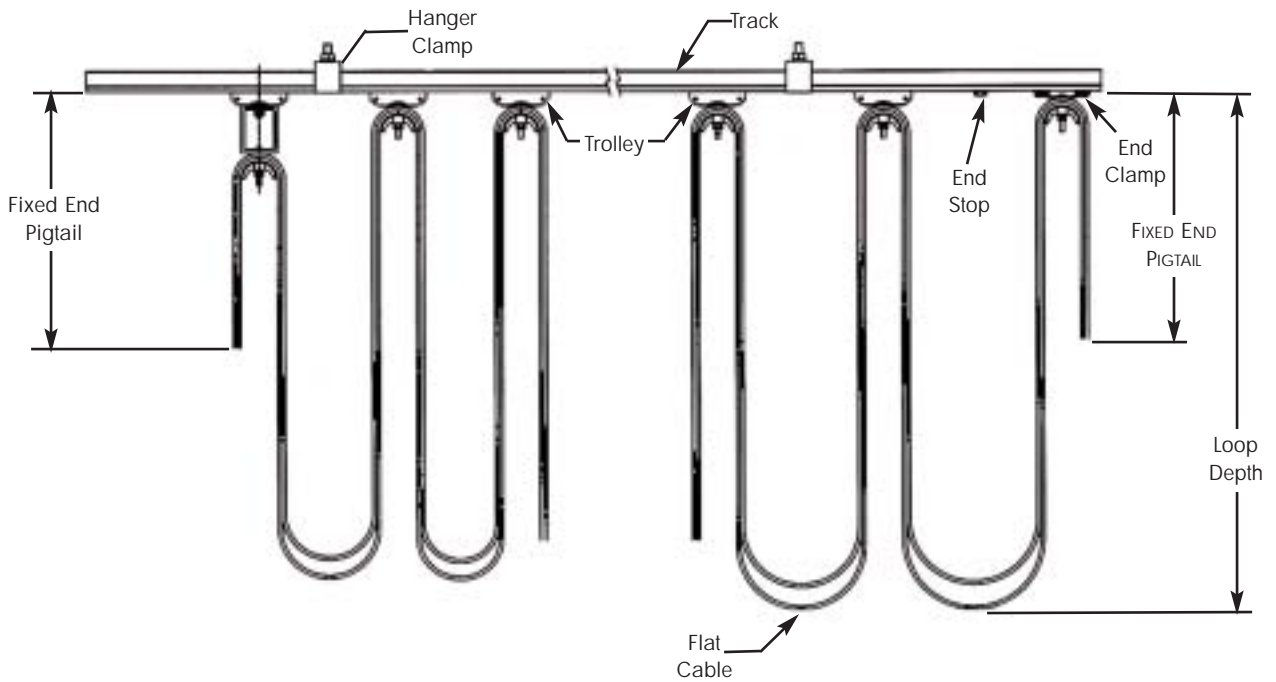
	Catalog Number	Length	Nominal Weight (lbs)	Description																
	24690	4'-6'	.28	Tow Cable Optional item used in both High Speed and Outdoor applications. Designed for use on: <ul style="list-style-type: none"> ● Heavy Duty C-Track ● Heavy Duty Square Bar ● 250 Series "I" Beam ● 350 Series "I" Beam 																
	24690B	6'-8'	.40																	
	24690C	8'-10'	.51																	
	24690D	10'-12'	.63																	
	24690E	12'-14'	.74																	
	24690F	14'-16'	.85																	
	03159	As Required	.18 lbs/ft	Tow Webbing Optional item used in both High Speed and Outdoor applications ideal for systems in spark resistant environments. Ordered by the foot. Designed for use on: <ul style="list-style-type: none"> ● Standard Duty C-Track ● Standard Duty Square Bar ● 200 Series "I" Beam ● 300 Series "I" Beam 																
 <table border="1" data-bbox="487 1123 950 1228"> <thead> <tr> <th rowspan="2">Catalog Number</th> <th colspan="3">Dimensions: Inches</th> </tr> <tr> <th>H1&H2</th> <th>W</th> <th>TW</th> </tr> </thead> <tbody> <tr> <td>40619J</td> <td>4.5"</td> <td>5.1"</td> <td>7.8"</td> </tr> <tr> <td>40619K</td> <td>4.5"</td> <td>6.7"</td> <td>10.6"</td> </tr> </tbody> </table>	Catalog Number	Dimensions: Inches			H1&H2	W	TW	40619J	4.5"	5.1"	7.8"	40619K	4.5"	6.7"	10.6"			Flat Cable Organizer Optional item for systems in order to prevent flat cables within the loops from becoming tangled or caught during operation. Designed for use on: <ul style="list-style-type: none"> ● 200 Series "I" Beam ● 250 Series "I" Beam ● 300 Series "I" Beam ● 350 Series "I" Beam ● Can also be used on other festoon systems depending upon application. 		
Catalog Number		Dimensions: Inches																		
	H1&H2	W	TW																	
40619J	4.5"	5.1"	7.8"																	
40619K	4.5"	6.7"	10.6"																	
 <table border="1" data-bbox="487 1459 950 1564"> <thead> <tr> <th rowspan="2">Catalog Number</th> <th rowspan="2">"D" Cable Dia. Range</th> <th colspan="2">L1</th> <th rowspan="2">W1 (lbs.)</th> </tr> <tr> <th>L1</th> <th>L2</th> </tr> </thead> <tbody> <tr> <td>40600P</td> <td>Up to .80</td> <td>6.0"</td> <td>3.9"</td> <td>.75</td> </tr> <tr> <td>40600Q</td> <td>Up to .80</td> <td>8.8"</td> <td>6.7"</td> <td>1.1</td> </tr> </tbody> </table>	Catalog Number	"D" Cable Dia. Range	L1		W1 (lbs.)	L1	L2	40600P	Up to .80	6.0"	3.9"	.75	40600Q	Up to .80	8.8"	6.7"	1.1			Round Cable Organizer Optional item for systems in order to prevent round cables within loops from becoming tangled or caught during operation. Either one or two per loop may be required. Designed for use on: <ul style="list-style-type: none"> ● 200 Series "I" Beam ● 250 Series "I" Beam ● 300 Series "I" Beam ● 350 Series "I" Beam ● Can also be used on other festoon systems depending upon application.
Catalog Number			"D" Cable Dia. Range	L1		W1 (lbs.)														
	L1	L2																		
40600P	Up to .80	6.0"	3.9"	.75																
40600Q	Up to .80	8.8"	6.7"	1.1																
	Push button pendants are used in conjunction with conductor bar, festoon systems or reels as a "point of control" stations for overhead cranes, hoists and conveyors. Insul-8 offers a complete line of push button pendants. Please consult Insul-8, your local rep or request catalog: PEN001 for further information.																			

C-TRACK FESTOON KITS

Pre-configured, standard duty C-Track festoon system kits provide a simple method for ordering complete crossbridge power systems for crane applications. If you need a kit with other cable combinations and trolley styles, just ask us. Kits can also be ordered pre-assembled by simply adding the letter "P" to the end of the system part number. See page 22. **Example:** 36670E = 60' power system

36670EP = 60' pre-assembled power system

FOR POWER SYSTEMS



C-Track festoon kit using plastic trolley #28615

14 & 16 AWG - 12 Conductor Systems (#14-4C, #16-8C)					
Crane Span	20'	30'	40'	50'	60'
System Part Number	36670	36670B	36670C	36670D	36670E
Active Travel (feet)	18.38	27.84	37.31	46.77	56.5
Storage Distance (feet)	1.35	1.89	2.43	2.97	3.24
Weight (lbs)	38	45	70	77	102

C-Track festoon kit using steel trolley #21991

14 & 16 AWG - 12 Conductor Systems (#14-4C, #16-8C)					
Crane Span	20'	30'	40'	50'	60'
System Part Number	36671	36671B	36671C	36671D	36671E
Active Travel (feet)	18.38	27.84	37.31	46.77	56.5
Storage Distance (feet)	1.35	1.89	2.43	2.97	3.24
Weight (lbs)	38	45	70	77	102

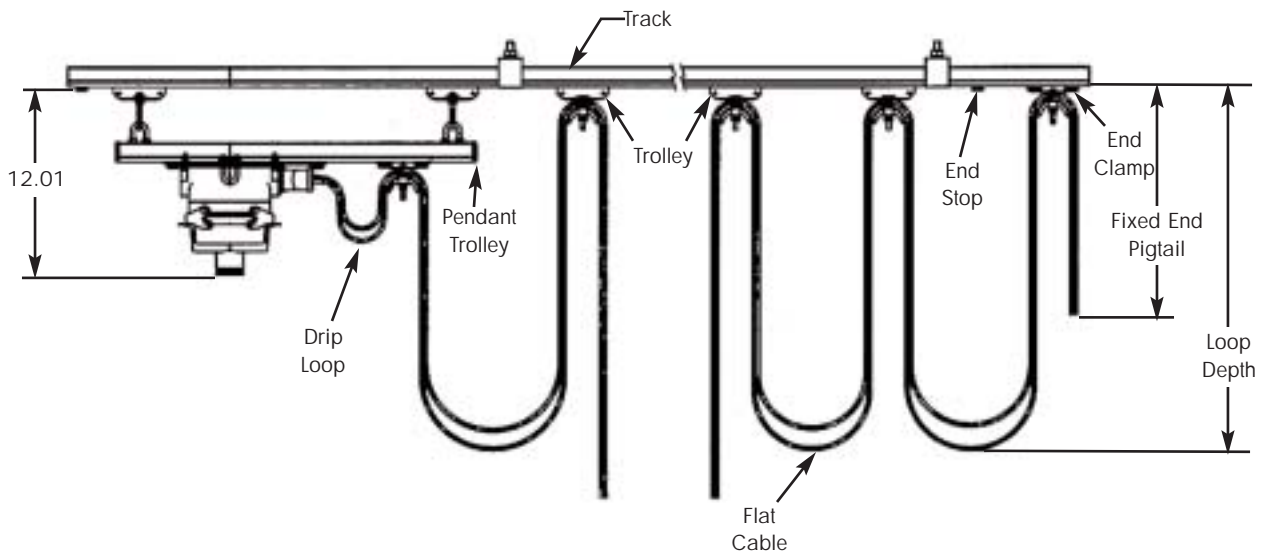
KITS INCLUDE THE FOLLOWING: c-track, splices, hangers, anchor hangers, trolleys, tow trolley, end clamp, end stop, flat cable and connectors. Systems are calculated based on a 3 ft loop depth. Cable length supplied includes 10 additional feet of termination purposes. Hanger supports are based on five foot centers.

C-TRACK FESTOON KITS

Pre-configured standard duty C-Track festoon system kits provide a simple method for ordering complete crossbridge control systems for crane applications. If you need a kit with other cable combinations and trolley styles, just ask us. Push-button pendant and drop cable are to be ordered separately. Kits can also be ordered pre-assembled, by simply adding the letter "P" to the end of the system part number. See page 22.

Example: 36672 = 20' control system
36672P = 20' preassembled control system

FOR CONTROL SYSTEMS



C-track festoon kit using plastic trolley #28615

16 AWG - 16 Conductor Systems (2x#16-8C)

Crane Span	20'	30'	40'	50'	60'
System Part Number	36672	36672B	36672C	36672D	36672E
Active Travel (feet)	17.08	26.81	36.27	45.73	55.19
Storage Distance (feet)	2.79	3.06	3.60	4.14	4.68
Weight (lbs)	43	60	76	93	109

C-track festoon kit using steel trolley #21991

16 AWG - 16 Conductor Systems (2x#16-8C)

Crane Span	20'	30'	40'	50'	60'
System Part Number	36673	36673B	36673C	36673D	36673E
Active Travel (feet)	17.08	26.81	36.27	45.73	55.19
Storage Distance (feet)	2.79	3.06	3.60	4.14	4.68
Weight (lbs)	43	60	76	93	109

KITS INCLUDE THE FOLLOWING: c-track, splices, hangers, anchor hangers, trolleys, 16 pin control trolley with quick disconnect, end clamp, end stops, flat cable and connectors. Systems are calculated based on a 3 ft loop depth. Cable length supplied includes 5 additional feet of termination purposes. Hanger supports are based on five foot centers.

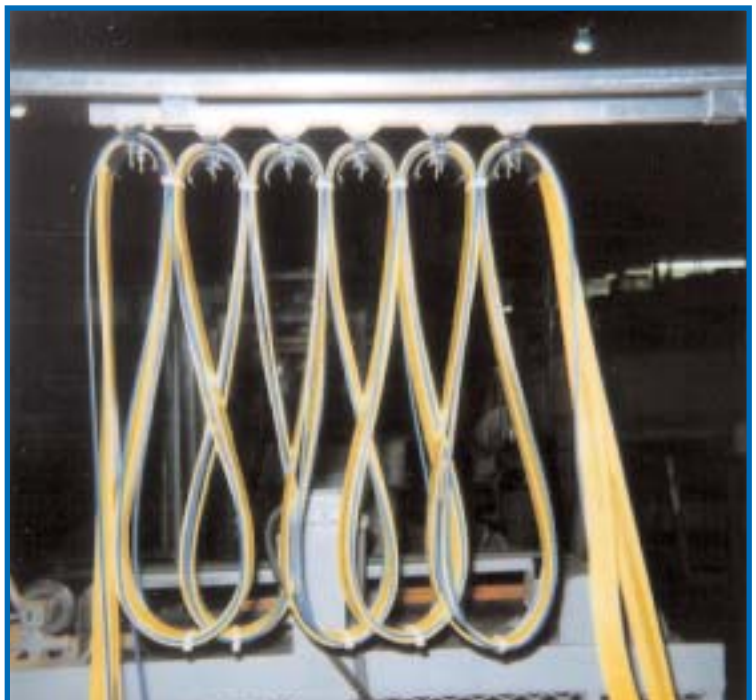
WHY SHOULD YOU CONSIDER HAVING YOUR NEXT FESTOON SYSTEM ARRIVE PRE-ASSEMBLED?

- ◆ Insul-8 offers complete pre-assembled festoon systems.
- ◆ Systems are carefully assembled by experienced personnel working under ideal conditions.
- ◆ Pre-assembly reduces potential field problems
- ◆ Reduces installation time and related expenses.
- ◆ Systems are assembled and shipped on a steel shipping frame or in a cardboard container designed for safe and easy transfer to the main system track.

Please contact Insul-8 for more details.



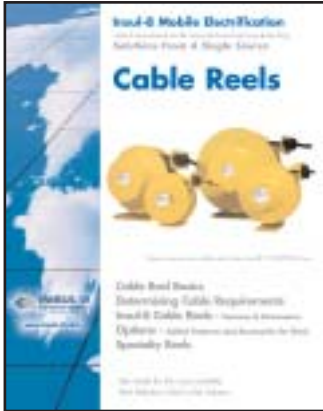
Above: Typical control system shipped in box. Note that control trolley is also pre-wired which reduces installation time.



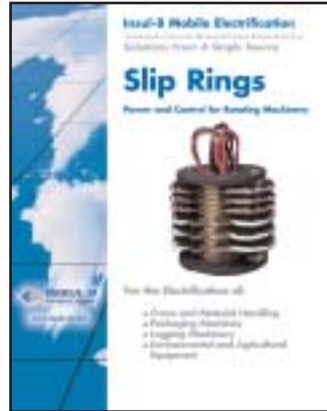
Right: Typical power system shipped on steel frame.

Solutions from a Single Source

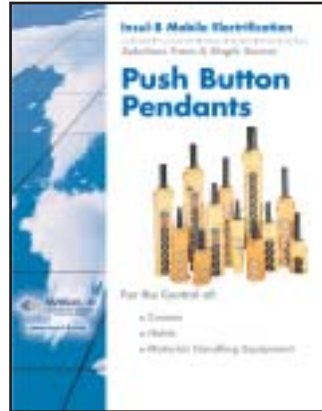
ISO 9001 Certified



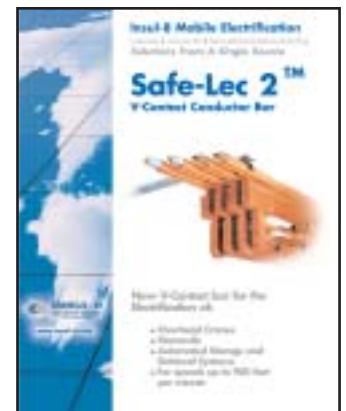
SPRING DRIVEN REELS



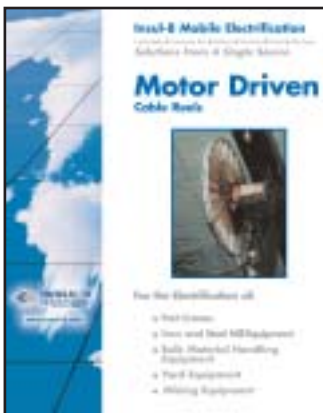
SLIP RINGS



PENDANTS



CONDUCTOR BAR



DRIVES



CONDUCTOR BAR

Please visit our websites at:
www.insul-8.com
www.drivecon.com

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