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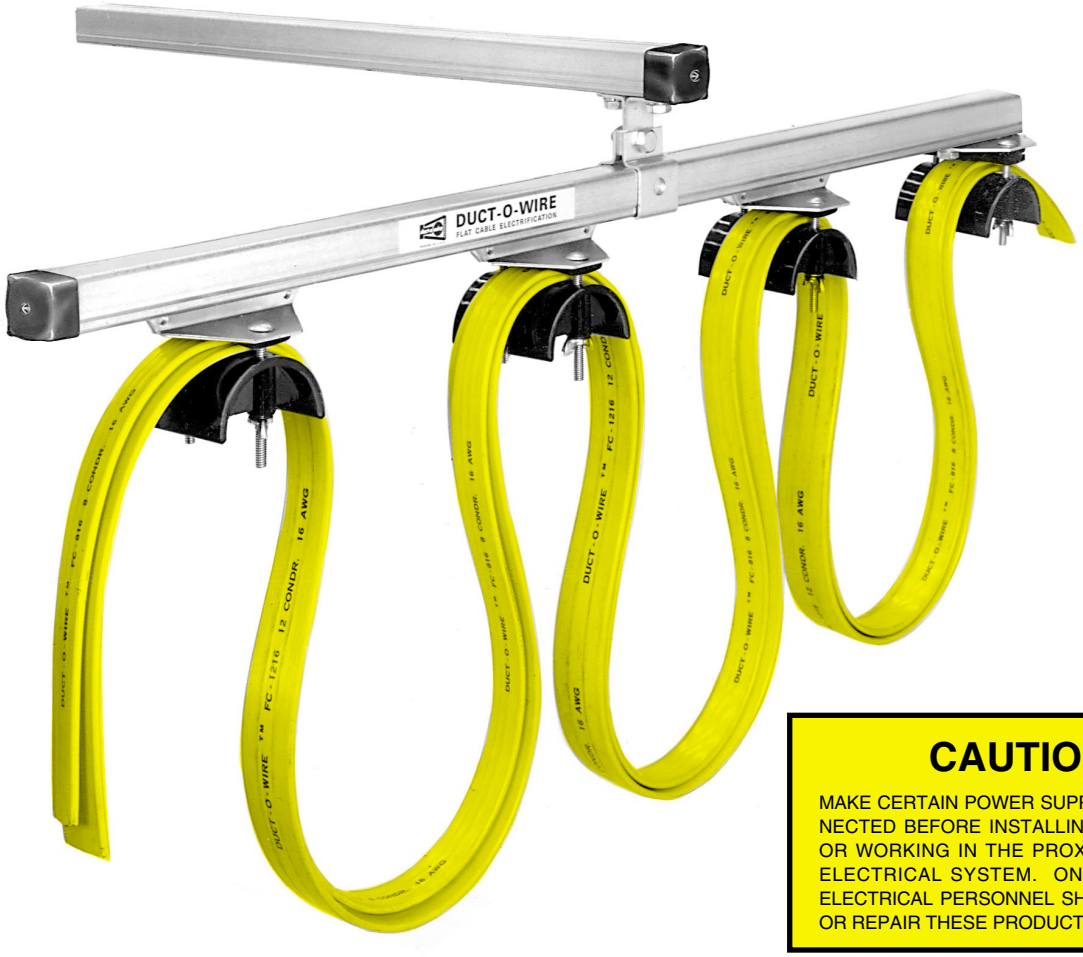
duct-o wire

Industrial Festooning Systems

Standard Duty Flat Cable • Special Duty Flat Cable
Standard Duty 14 Gauge Galvanized Steel and Stainless Steel C-Track
Heavy Duty 12 Gauge Galvanized Steel and Stainless Steel C-Track
Aluma-Track Systems • I-Beam Supported Trolleys
Wire Supported Systems • Round Cable and Air Hose Carriers
Ball Bearing Types: Standard, Stainless, Brass and Precision



CAUTION

MAKE CERTAIN POWER SUPPLY IS DISCONNECTED BEFORE INSTALLING, REPAIRING, OR WORKING IN THE PROXIMITY OF ANY ELECTRICAL SYSTEM. ONLY QUALIFIED ELECTRICAL PERSONNEL SHOULD INSTALL OR REPAIR THESE PRODUCTS.

Specifically designed for use on overhead cranes, hoists, monorails, and other industrial applications.
Special purpose wheel bearings for high speed operation, corrosive environments, and other applications.
Flat Cable is UL Listed and CSA Approved.

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P.O. Box 519	1351 W. Second Street	379 Davis Road, Unit #3
Corona, California 92878-0519	Oconomowoc, Wisconsin 53066	Oakville, Ontario, Canada L6J 2X2
Phone: 909-735-8220; 800-543-3885; 800-735-1922	Phone: 262-567-2288	Phone: 905-844-1791; 800-361-9473
Fax: 909-735-2372; 800-752-6001; 800-735-0857	Fax: 262-567-0857	Fax: 905-844-2533; 800-663-0933

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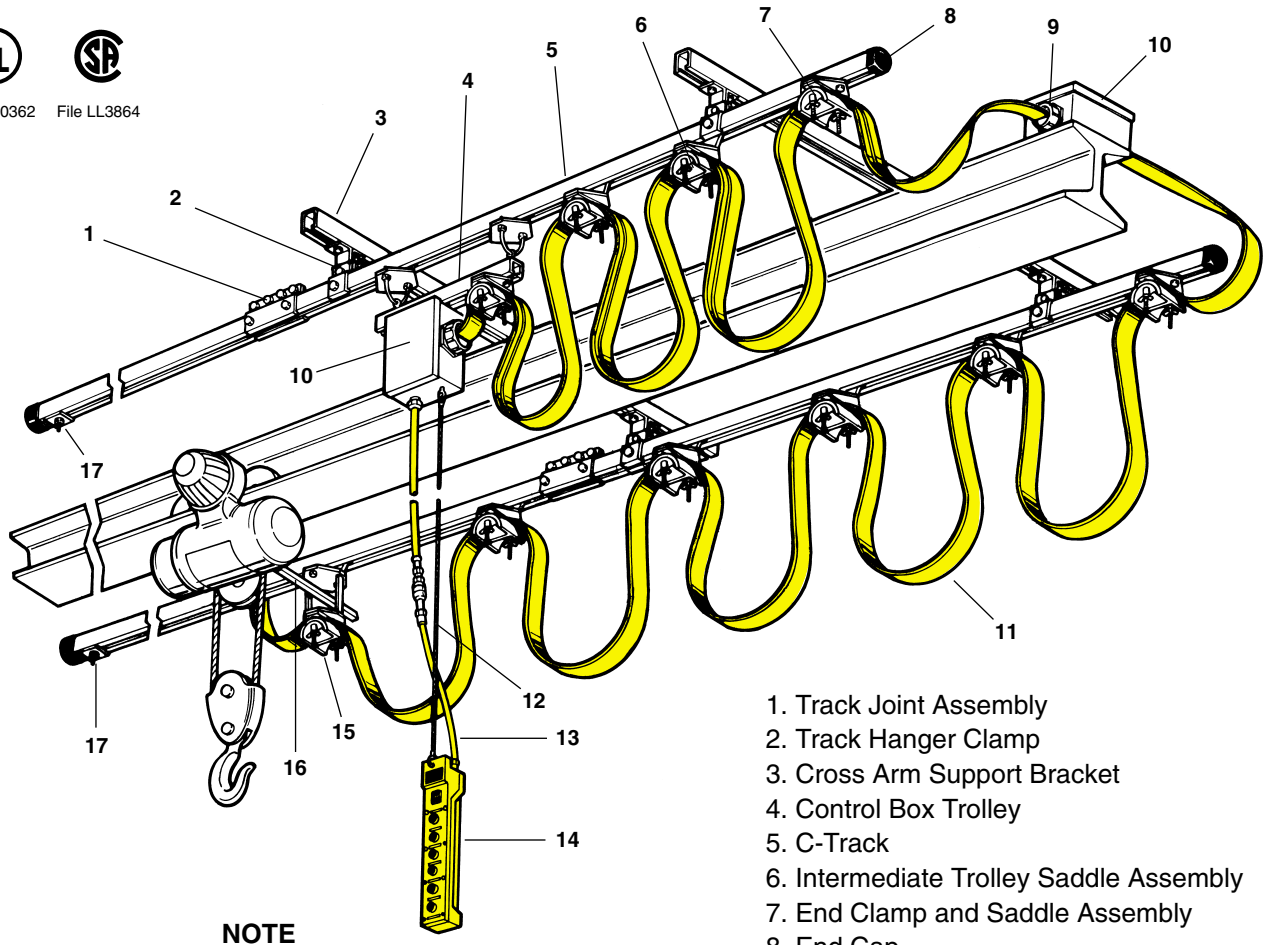
Typical C-Track Festoon System Installation

File E60362 File LL3864



1. Track Joint Assembly
2. Track Hanger Clamp
3. Cross Arm Support Bracket
4. Control Box Trolley
5. C-Track
6. Intermediate Trolley Saddle Assembly
7. End Clamp and Saddle Assembly
8. End Cap
9. Cable Connector
10. Junction Box
11. Flat Cable
12. Strain Relief Cable*
13. Pendant Push Button Cable*
14. Pendant Push Button Station*
15. Tow Trolley and Saddle Assembly
16. Tow Bar
17. End Stop

* See Pendant Push Button Brochure

NOTE

Three cable saddles — small, standard, and large — are used with Duct-O-Wire Festooning Systems. Please refer to the following table to determine the dimensions of each.

Saddle Designation	Diameter Inches	Cable Window Inches
Small	1-1/2	2-3/16 x 1
Standard	3	2-3/16 x 1
Large	6	5-3/8 x 2 4-1/8 x 2

Flat Cables and Connectors

Standard Copper Cable (Model FC)

- Yellow PVC Jacketed Flat Cable – 600 Volt AC Rated
- Extra Flexible, Color Coded According to NEMA Standards
- UL and CSA –40°C to +105°C (–40°F to +221°F) Temperature Range

Shielded Copper Cable (Model SFC)

- 600 Volt AC Rated
- Standard Cable with Tinned Copper Braided Shield
- 95.7% Min. RFI Rating
- Black Heat Shrink Tubing Outer Cover

Test Report

The following numerical data was used to calculate braid angle and shield coverage (per QQB-575B1 PARA.4.3.2.)

Braid Angle	A = 24
Coverage	K = 99
Diameter of Shield	D = 0.750
Strand Diameter	d =.005
Picks per inch	P = 9
Number of Carriers	C = 96
Strands per Carrier	N = 9
NPd/sin a	F = 99118776

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Flat Cables

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

Catalog 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-Pounds	Nominal Dimensions Unshielded Cable Inches†
Yellow PVC Jacket	Shielded Flat Cable	Number of Con-ductors	AWG Wire Size		60 Min.	30 Min.			
FC-42		4	#2	130	148	173	665	1.342	.575 x 1.975
FC-44		4	#4	95	111	130	420	.896	.515 x 1.750
FC-46	SFC-46	4	#6	75	83	94	266	.620	.435 x 1.490
FC-48	SFC-48	4	#8	50	63	69	168	.401	.375 x 1.225
FC-410	SFC-410	4	#10	40	49	52	105	.239	.290 x .890
FC-412	SFC-412	4	#12	30	36	40	65	.180	.260 x .800
FC-414	SFC-414	4	#14	25	31	32	41	.138	.240 x .690
FC-712	SFC-712	7	#12	21	Control Cables		65	.308	.260 x 1.310
FC-812	SFC-812	8	#12	20			65	.343	.260 x 1.440
FC-814	SFC-814	8	#14	17			41	.254	.240 x 1.290
FC-816	SFC-816	8	#16	15	No Short		65	.194	.225 x 1.170
FC-1214	SFC-1214	12	#14	17	Time Rating		41	.380	.240 x 1.825
FC-1216	SFC-1216	12	#16	15			65	.292	.225 x 1.700

* See Current Correction Factors for Temperatures above 30°C (86°F)
** For crane and hoist motors in accord with article 610 of the 1989 National Electrical Code for 90°C Cables
† Unshielded cable measurements may vary due to manufacturing tolerances. Contact factory for shielded cable dimensions.
†† All cables from #10 AWG through #16 AWG have zip cords for easy removal of the outer jacket.

Connectors

Connectors with Bushings for Unshielded Flat Cables

For shielded cable, use heat shrink fittings.

Catalog No.	Number of Cables	Cable Size		NPS
		Number of Conductors	AWG Wire Size	
FC-4/8C	One 4-conductor cable, #10, 12, or 14 AWG and one 8-conductor cable, #14 or 16 AWG			1.25
FC-42C	1	4	#2	2"
FC-44C	1	4	#4	2"
FC-46C	1	4	#6	1.50
FC-48C	1	4	#8	1.25
FC-410C	1	4	#10	1"
FC-412C	1	4	#12	1"
FC-414C	1	4	#14	1"
FC-712C	1	7	#12	1.25
FC-712C2	2	7	#12	1.25
FC-812C	1	8	#12	1.50
FC-812C2	2	8	#12	1.50
FC-816C	1	8	#14 or 16	1.25
FC-816C2	2	8	#14 or 16	1.25
FC-1216C	1	12	#14 or 16	2"
FC-1216C2	2	12	#14 or 16	2"
FC-1216C3	3	12	#14 or 16	2"

Heat Shrinkable Cable Connectors for Single Cable and Multiple Cable Groupings

Corrosion Resistant • Flame Retardant • Exceed Navy Requirements for Tightness and Integrity when used with One Flat Cable or Multiple Flat Cables of the Same Size.

Catalog Number	Maximum Number of Cables	Cable Size		Cable Entry Range		NPS
		Number of Conductors	AWG Wire Size	Min.	Max.	
HS-CG1	3	4	#12 or 14	.5	1.125	1"
HS-CG2	4	8	#14 or 16	.75	1.625	1.5
		7	#12			
	3	4	#8, 10 or 12			
	2	4	#6 or 8			
	1	4	#6			
HS-CG3	5	12	#14 or 16	1"	2.125	2"
	4	4	#8			
	3	4	#6 or 4			

Continuous Duty Current Correction Factors for Ambient Temperatures Above 30°C (86°F).

(Per Article 310-16 of the 1996 National Electrical Code)

Ambient Temperature		Correction Factor
°C	°F	
30	86	1.00 (Full load current rating)
50	122	.82
65	149	.58

Standard Duty 14 Gauge C-Track System Components

Galvanized Steel • Stainless Steel

Precision Bearings and Curved Sections Available

Flat Cable System Components

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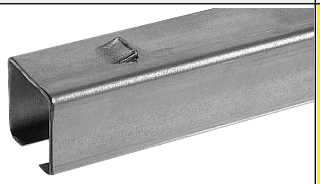
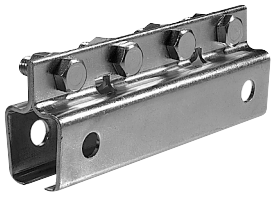
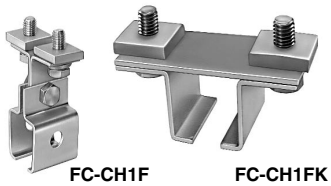
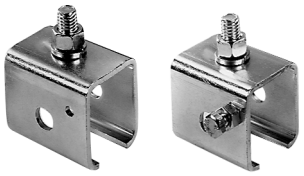
	Catalog Number		Weight Pounds	Description
	Galvanized Steel	Stainless Steel		
	**FC-CH1A-10**	**FC-CH1A-10-SS**	10	**14 Gauge C-Track** 10 ft. section.
	FC-CH1A-20	**FC-CH1A-20-SS**	20	20 ft. section.
	FC-CH1A CUT	**FC-CH1A-SS CUT**	1 lb./ft.	Cross Arm Support Bracket or Cut Lengths. **Specify length in 1/2 foot increments.**
	**FC-CH1D**	**FC-CH1D-SS**	1.38	**Track Joint Assembly** Joint clamp for secure attachment and proper alignment of track sections. Includes four bolts, lock washers, and nuts. **One required for each track section per run less one.**
	FC-CH1DW		.11	Welding sleeve for joining track sections.
 FC-CH1F FC-CH1FK	**FC-CH1F**	**FC-CH1F-SS**	.60	**Track Hanger Clamp Assembly** **One required for each cross arm support bracket for each track run. 5' spacing.** For mounting track to cross arm support bracket. Includes all required hardware.
	FC-CH1FK		.51	Low profile track hanger assembly.
 FC-CH1F-1 FC-CH1F-1-A	**FC-CH1F-1**		.38	**Single Bolt Track Hanger & Anchor Assembly** **One required for each cross arm support bracket for each track run. 5' spacing.** Single Mounting Bolt Track Hanger Assembly.
	FC-CH1F-1-A		.40	Single Mounting Bolt Track Anchor Assembly.
	FC-CH1F-1-R		.44	Single Mounting Bolt Track Hanger w/Rect. Nut.
	FC-CH1F-1-A-R		.46	Single Mounting Bolt Track Anchor w/Rect. Nut. The FC-CH1F-1 track hanger assembly is designed to be mounted on angle iron brackets with one mounting hole. The use of one FC-CH1F-1-A track anchor per track run, which also mounts in one mounting hole, will prevent the track from sliding out of position. The rectangle nut hangers and anchors are used with cross arm brackets made from cut pieces of C-track material.
	FC-CH1G	**FC-CH1G-SS**	.12	**End Stop** **One required for each track run.** Bumper with mounting hardware.
	FC-TMC-U	**FC-TMC-U-SS**	.38	**Mounting Clamp for Cross Arm Support** **Two required for each cross arm support bracket.** Universal mounting clamp with bolt.
	FC-CH1GC	**FC-CH1GC**	.03	**Rubber End Cap**

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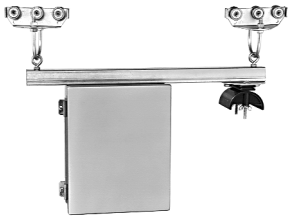
	Catalog Number		Weight Pounds	Description
	Galvanized Steel	Stainless Steel		
				Tow Trolley and Saddle Assembly Load Rating: 45 lb. max. **One required for each piece of moving equipment to be electrified.**
	FC-TRT1		2.19	Plated steel trolley and standard saddle with cut out box for tow bar.
		FC-TRT1-SS	2.19	Same except stainless steel trolley with stainless steel wheels.
		FC-TRT1-BR	2.19	Same except stainless steel trolley with brass wheels.
				Tow Bar **One required for each tow trolley.**
	FC-TB1	**FC-TB1-SS**	3.5	For mounting on moving equipment. 18" long.
				**Control Box Trolley** **(Optional Brake Available)**
	FC-TRC1		4.75	Two trolleys and one standard saddle mounted on bracket plus fittings to attach control box. Control box not included.
	*	**FC-TRC1-SS**	4.75	Same as FC-TRC1 except with stainless steel trolleys and stainless steel wheels.
		FC-TRC1-BR	4.75	Same as FC-TRC1-SS except with brass wheels.
				Junction Boxes and Terminal Strips
	FC-BX1		9.0	8" x 10" x 4" steel junction box for control box trolley assembly. Rated NEMA 13. Accepts up to 2 terminal strips.
		FC-BX1-SS	9.0	Stainless steel junction box. Rated NEMA 4X.
		FC-BX1-4X	7.0	Fiberglass junction box. Rated NEMA 4X.
	FC-BXT	**FC-BXT**	.20	12-Pole terminal strip.
	FC-BXT-HD	**FC-BXT-HD**	.40	Heavy-duty 12-pole terminal strip.
				Standard Duty Intermediate Trolley-Saddle Assemblies
				Load Rating: 45 lb. max. Consult factory for 2-tiered trolleys or special bearings.
	FC-TR1		1.10	5-inch trolley with 4 steel shielded ball bearing wheels, cable pad. Standard saddle and hardware.
		FC-TR1-SS	1.10	Same as FC-TR1 except stainless steel trolley with 4 stainless steel wheels.
		FC-TR1-BR	1.10	Same as FC-TR1-SS except with 4 brass wheels.
				Short Intermediate Trolley Assembly
	FC-TR2		.75	3 inch trolley with 4 steel shielded ball bearing wheels, cable pad, small saddle and hardware.
		FC-TR2-SS	.75	Same except stainless steel trolley & wheels.
				End Clamp and Saddle Assembly **One required for each track run at storage end of track.**
	FC-CS1	**FC-CS1-SS**	.72	Standard saddle with clamp and hardware to secure cable
(Shown with optional FC-TRB bumper)				**Options**
	FC-TR8		1.10	5 inch intermediate trolley/saddle assembly with steel saddle.
	FC-TRB		.10	Polyurethane trolley bumper.

*For quick plug control trolley and components, see CT Brochure.

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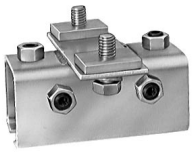
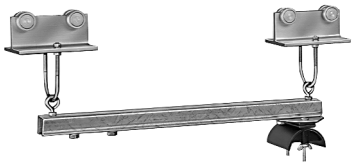
Heavy Duty 12 Gauge C-Track System Components

Galvanized Steel • Stainless Steel

Precision Bearings Available

Flat Cable Components

	Catalog Number		Weight Pounds	Description
	Galvanized Steel	Stainless Steel		
	FC-CH2A-10	**FC-CH2A-10-SS**	17.5	**12 Gauge C-Track** 10 ft. section.
	FC-CH2A-20	**FC-CH2A-20-SS**	35.0	20 ft. section.
	FC-CH2A CUT	**FC-CH2A-SS CUT**	1.75 lb./ft.	Cross Arm Bracket or Cut Lengths to 19.5'. **Specify length in 1/2 foot increments.**
	FC-CH2D	**FC-CH2D-SS**	1.38	**Track Joint Assembly** **One required for each track section per run less one. Allen wrench FC-AR required.** Joint clamp for secure attachment and proper alignment of track sections.
	**FC-CH2F**	**FC-CH2F-SS**	1.19	**Track Hanger Clamp Assembly** **One required for each cross arm bracket for each track run. 10' spacing under 75 lb. trolley load. For heavier loads, see chart in Technical Bulletin.** For mounting track to cross arm bracket. Includes all required hardware. Use wrench FC-AR.
	FC-CH2G	**FC-CH2G-SS**	.19	**End Stop** **One required for each track run.** Bumper with mounting hardware.
	FC-TMC-U	**FC-TMC-U-SS**	.38	**Mounting Clamp for Cross Arm Bracket** **Two required for each cross arm bracket.** Universal mounting clamp with bolt.
	FC-CH2GC	**FC-CH2GC**	.03	**Rubber End Cap**
	FC-CS22	**FC-CS22-SS**	.72	**End Clamp and Saddle Assembly** **One required for each track run at storage end of track.** Standard saddle with clamp and hardware to secure cable. 6-3/4" wide.
	FC-CS21	**FC-CS21-SS**	1.9	Same as FC-CS22 except with large saddle.
	FC-CS24	**FC-CS24-SS**	1.73	Same as the FC-CS21 except 5-1/2" wide. 4-1/8" x 2" cable window.
FC-TRT22	**FC-TRT22**	**FC-TRT22-SS**	2.19	**Tow Trolley and Saddle Assembly** Load Rating: 75 lb. max. **One required for each piece of moving equipment to be electrified.** 5" trolley with four steel shielded ball bearing wheels and standard saddle with cut out box for tow bar. Stainless version has anodized body.
	FC-TRT21	**FC-TRT21-SS**	4.75	7"L x 6-3/4"W, trolley and large saddle.
	FC-TRT24	**FC-TRT24-SS**	4.30	Same as the FC-TRT21 except 5-1/2" wide. 4-1/8" x 2" cable window.

	Catalog Number		Weight Pounds	Description
	Galvanized Steel	Stainless Steel		
	FC-TB1	**FC-TB1-SS**	3.50	**Tow Bar** **One required for each tow trolley.** For mounting on moving equipment, 18" long.
	**FC-TRC22** *	**FC-TRC22-SS**	5.0	**Control Trolley Assemblies for Push Button Station (Optional Brake Available)** Two trolleys and one standard saddle mounted on bracket plus fittings to attach control box. Control box not included. Stainless steel version has anodized bodies. Consult factory for Special Bearings.
	FC-BX1		9.0	**Junction Boxes and Terminal Strips** Steel junction box, 8" x 10" x 4", for control trolley FC-TRC22. Rated NEMA 13. Accepts up to two terminal strips.
		FC-BX1-SS	9.0	Stainless steel junction box. Rated NEMA 4X.
		FC-BX1-4X	7.0	Fiberglass junction box. Rated NEMA 4X.
	FC-BX2		12.19	Steel junction box, 10" x 12" x 5", for control trolley. Rated NEMA 13. Specify 3 or 4 FC-BXT or FC-BXT-HD terminal strips.
	FC-BXT	**FC-BXT**	.20	12-Pole terminal strip.
	FC-BXT-HD	**FC-BXT-HD**	.40	Heavy duty 12-pole terminal strip.
FC-TR22	**FC-TR22**	**FC-TR22-SS**	1.28	**Intermediate Trolley-Saddle Assemblies** Trolley load rating: 75 lb. max. 5", high strength aluminum body with four steel shielded ball bearing wheels and standard saddle. Stainless version has anodized body.
	FC-TR23		1.15	Same as FC-TR22 except 3" long.
	FC-TR21	**FC-TR21-SS**	2.88	7"L x 6-3/4"W, high strength aluminum body with large saddle.
	FC-TR24	**FC-TR24-SS**	2.60	Same as FC-TR21 except 5-1/2" wide body and saddle. 4-1/8" x 2" cable window.
	FC-TRB2		.06	**Trolley Bumpers** Hard rubber bumper with mounting screw. (Adds 1/2" per bumper to trolley length.) 5/8" diameter, 8-32 screw.
	FC-AR		.06	**Allen Wrench - 3/16"** For tightening set screws on track hangers and track joints.

*For quick plug control trolley and components, see CT Brochure.

Round Cable and Air Hose System Components

Trolleys, saddles, and all associated parts for round cable and air hose systems are available. Refer to the Installation and Technical Data Bulletin and Festoon Price List for details.

NOTE: These steel round cable and hose saddles are also available on R-TR10 and R-TR12 series trolleys.

R-TR21-4 Trolley

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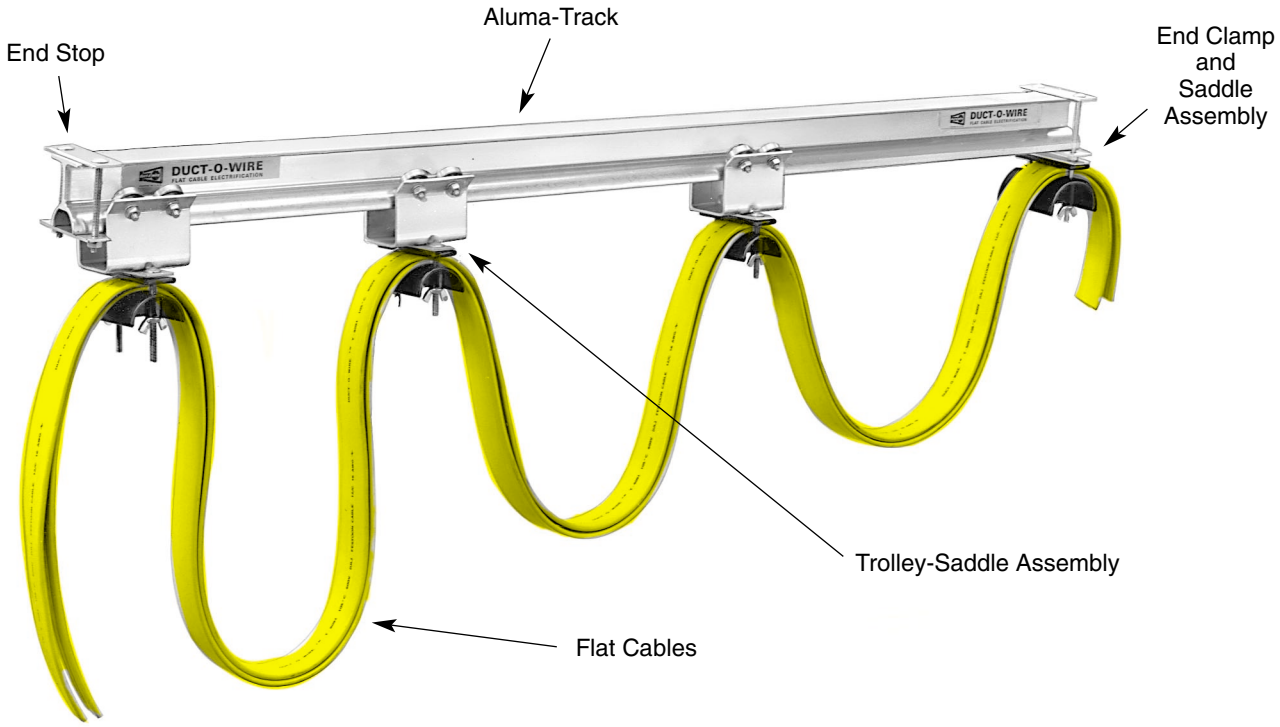
Aluma-Track System Components



Flat Cable System Components

	Catalog Number	Weight Pounds	Description
Note: Track may be factory bent into 90° maximum curves of 5 ft. radius or greater. Consult the factory for cost.	**FC-T1A-10** **FC-T1A-20** **FC-T1A CUT**	11 22 1.1/ft.	**Aluminum Alloy Track** 10 ft. section. 20 ft. section. Cut lengths of track. Anodized track also available in 10 ft. lengths only. Consult the factory for cost.
	FC-T1D	1.25	**Track Joint Assembly** Plated steel bar and hardware to join adjacent track sections. 1/8" Allen wrench required.
	FC-T1BR **FC-T1CHF**	12 10.5	**Mounting Bracket** For number required refer to Installation and Technical Data Bulletin and Festoon Price List. 2-1/2 x 2-1/2-inch steel angle, painted and punched, 36" long. 5" channel, painted and punched, 18" long. Replaces FC-T1D and FC-T1F assemblies.
	FC-T1F	.9	**Track Hanger Clamp Assembly** **One required for each mounting bracket for each track run, except for FC-T1CHF.** Two clamps and hardware to secure track to angle mounting bracket.
	FC-T1C	.88	**End Clamp and Saddle Assembly** **One required for each track run at storage end of track.** Standard saddle with steel clamp and hardware to secure cable.

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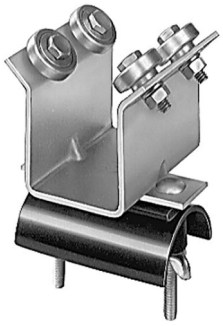
	Catalog Number	Weight Pounds	Description
			End Stop
			One required for each track run.
	FC-T1G	.29	Plated steel bumper with mounting hardware.
			**Trolley-Saddle Assemblies**
	FC-TR6	1.32	Plated steel trolley with four shielded ball bearing hardened steel wheels, standard saddle and all hardware.
	FC-TR6-SS	1.50	Same as FC-TR6 except trolley, hardware, and wheels are stainless steel.
	FC-TR6-BR	1.50	Same as FC-TR6-SS except wheels are brass.
	FC-TR7	1.32	Plated steel trolley with four shielded ball bearing hardened steel wheels, small saddle and all hardware.
	FC-TR7-SS	1.50	Same as FC-TR7 except trolley, hardware, and wheels are stainless steel.
	FC-TR7-BR	1.50	Same as FC-TR7-SS except wheels are brass.
	FC-TR6X	1.52	**Trolleys with Formed Steel Bumpers*** To order, add the suffix "X" to the catalog number of the desired trolley. Also available with stainless steel and brass wheels.
	FC-TR6Z	1.65	**Trolleys with Anti-Lift Rollers*** For use on all curved systems and speeds higher than 150 FPM. To order, add the suffix "Z" to the catalog number of the desired trolley. Also available with stainless steel and brass wheels.
	FC-TB4	2.80	**Tow Bar** **One required for each track system.** Steel bar, 18" long, with flat plate for mounting on moving equipment. Includes standard saddle which can be placed at desired position along length of bar.
			Control Box Trolley
	FC-TRC6	5.10	Two swivel trolleys and steel channel to support junction box. (Junction box not included.)
	FC-BX1	9.00	Junction box, 8" x 10" x 4", rated NEMA 13. Accepts up to two terminal strips.
	FC-BXT	.20	12-Pole terminal strip.
	FC-BXT-HD	.40	Heavy-duty 12-pole terminal strip.

**

* Refer to the Festoon Price List for the catalog number and cost.
** For quick plug control trolley and components, see CT Brochure.

Round Cable and Air Hose System Components

R-TR1B Trolley

Round cable and hose saddles are also available. Refer to the Installation and Technical Data Bulletin and Festoon Price List for details.

The saddle shown on the R-TR1B can be used with the TR6 and TR7 trolley bodies.

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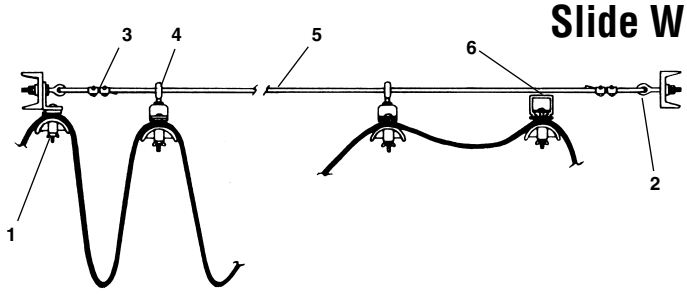
Wire Supported Systems

Slide Wire Systems

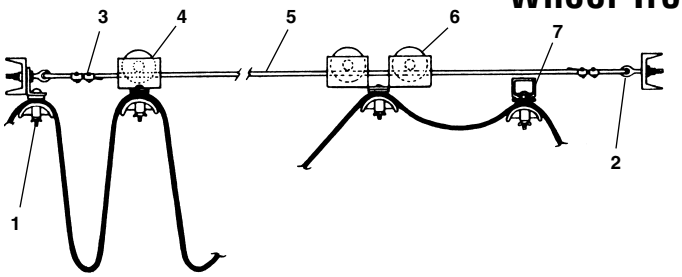


System Catalog Number	Max. Working Travel - Feet	No. of Trolleys (FC-TR9) Required
FC-WS1	20	2
FC-WS2	30	4
FC-WS3	40	6

Each slide wire system includes the parts in the following table. Order cable and connectors separately.

Index Number	Catalog Number	Component	Index Number	Catalog Number	Component
1	**FC-CS4**	End Clamp Assembly	4	**FC-TR9**	Slide Wire Trolley
2	**FC-SRCE1**	Eye Bolt and Thimble	5	**FC-SRC1**	Wire Rope, 3/16" diameter
3	**FC-SRCC1**	U-Clamp, 4 required	6	**FC-TB4**	Tow Arm Assembly

Wheel Trolley Systems

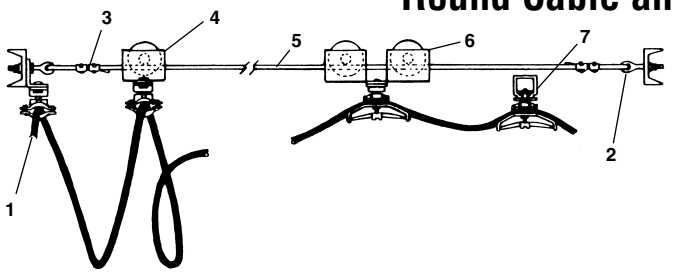


System Catalog Number	Max. Working Travel - Feet	No. of Trolleys (FC-TR4) Required
FC-WS4	20	1
FC-WS5	30	3
FC-WS6	40	5
FC-WS7	50	7
FC-WS8	60	9

Each wheel trolley system includes the parts in the following table. Order cable and connectors separately.

Index Number	Catalog Number	Component	Index Number	Catalog Number	Component
1	**FC-CS4**	End Clamp Assembly	5	**FC-SRC2**	Nylon Coated Wire Rope, 1/4" dia.
2	**FC-SRCE2**	Eye Bolt and Thimble			
3	**FC-SRCC2**	U-Clamp, 4 required	6	**FC-TR5**	Two-Wheel Lead Trolley
4	**FC-TR4**	Single Wheel Trolley	7	**FC-TB4**	Tow Arm Assembly

Round Cable and Air Hose Systems



System Catalog Number	Max. Working Travel - Feet	No. of Trolleys (R-TR4A) Required
R-WS1	20	1
R-WS2	30	3
R-WS3	40	5

Each round cable and air hose system includes the parts in the following table. Order cable and connectors separately.

Index Number	Catalog Number	Component	Index Number	Catalog Number	Component
1	**R-CS4A**	End Clamp Assembly	5	**FC-SRC2**	Nylon Coated Wire Rope, 1/4" dia.
2	**FC-SRCE2**	Eye Bolt and Thimble			
3	**FC-SRCC2**	U-Clamp, 4 required	6	**R-TR5A**	Two Wheel Lead Trolley
4	**R-TR4A**	Single Wheel Trolley	7	**R-TB4A**	Tow Arm Assembly

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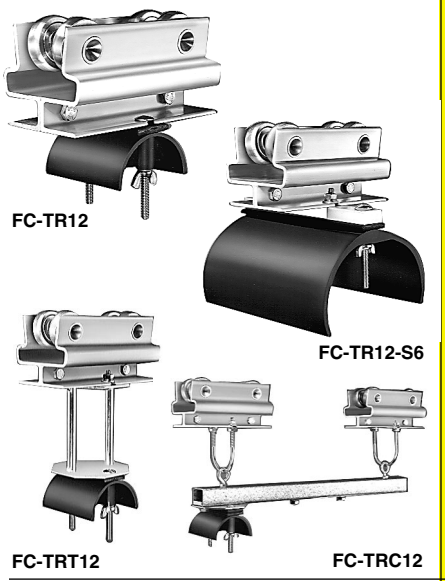
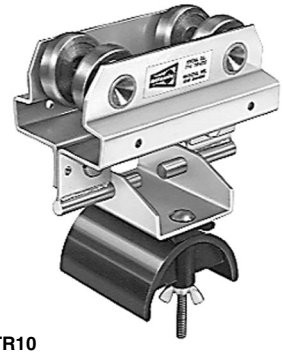
I-Beam Supported Trolley Systems

S3 and S4 I-Beam Systems with Adapter for S6 I-Beam

	Catalog Number	Weight Pounds	Description
 FC-TR12 FC-TR12-S6 FC-TRT12 FC-TRC12			**Flat Cable System Components** **Options available: stainless steel or brass wheels, large saddle for tow and intermediate trolleys. Stainless and brass wheel versions have anodized bodies.**
	FC-TR12	2.56	Standard 6" aluminum body trolley with steel wheels and standard saddle. Maximum load per trolley: 150 pounds @ 265 fpm.
	FC-TR12-S6	3.56	Same as FC-TR12 except with large saddle.
	FC-TRT12	3.38	Standard 6" aluminum body tow trolley with steel wheels and standard saddle and cut out box for tow bar. One required for each piece of moving equipment to be electrified.
	FC-TRC12	7.45	Two 6" aluminum trolleys and one standard saddle mounted on bracket plus fittings to attach control box. Control box not included. Use FC-BX1 or FC-BX2.
	FC-CS3 *	2.85	**End Clamp for Flat Cables** Cable end support with steel clamps and standard saddle. Options available: large saddle. See Installation and Technical Data Bulletin and Festoon Price List.
	S-6 Adapter	.30	**Spacer to Adapt Trolley to S6 x 12.5 I-Beam**

S3 and S4 I-Beam Systems

	Catalog Number	Weight Pounds	Description
 FC-TR10			**Flat Cable System Components**
	FC-TR10	3.6	5-1/2" steel trolley with four steel wheels and standard saddle. Maximum load per trolley: 150 pounds @ 265 fpm.
	FC-TR1000	8.0	Same as above, except 9" long with a large saddle.
	FC-TRT10	4.5	5-1/2" Tow trolley with four steel wheels and standard saddle and cut out box for tow bar. One required for each piece of moving equipment to be electrified. See FC-TB1 for tow bar.
	FC-TRT1000	11.2	Same as above, except 9" long with a large saddle.
	FC-TRC10	9.60	Two trolleys and one standard saddle mounted on bracket plus fittings to attach control box. Control box not included. Use FC-BX1 or FC-BX2.
*			**End Clamp for Flat Cables**
	FC-CS3	2.85	Cable end support with steel clamps and standard saddle.
	FC-CS1000	5.7	Same as above, except with large saddle.

*For quick plug control trolley and components, see CT Brochure.

Round Cable and Air Hose System Components are available. Consult factory.

S6 x 12.5 I-Beam Flat Cable Systems

	Catalog Number	Weight Pounds	Description
FC-TR30	**FC-TR30**	11.0	**I-Beam Trolley, 13.5" long** Steel trolley with large saddle and flanged wheels with sealed bearings.*
	FC-TRT30	17.25	**Tow Trolley, 13.5" long** Steel trolley with large saddle, flanged wheels with sealed bearings, and cut out box for tow bar.*
	FC-CS30	6.75	**End Clamp** Cable end support with large saddle.
	FC-TR32	8.0	**I-Beam Trolley, 8.5" long** Steel trolley with large saddle and flanged wheels with sealed bearings.*
	FC-TRT32	10.3	**Tow Trolley, 8.5" long** Steel trolley with large saddle, flanged wheels with sealed bearings, and cut out box for tow bar.*
	FC-CS3-S6	3.75	**End Clamp** Cable end support with large saddle.

S10 x 25.4 I-Beam Flat Cable Systems

	Catalog Number	Weight Pounds	Description
	FC-TR40	11.25	**I-Beam Trolley, 13.5" long** Steel trolley with large saddle and flanged wheels with sealed bearings.*
	FC-TRT40	17.3	**Tow Trolley, 13.5" long** Steel trolley with large saddle, flanged wheels with sealed bearings, and cut out box for tow bar.*
	FC-CS40	6.8	**End Clamp** Cable end support with large saddle.

* Zerk grease fittings for wheel bearings available at additional cost.
Refer to Installation and Technical Data Bulletin and Festoon Price List.

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