

# **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

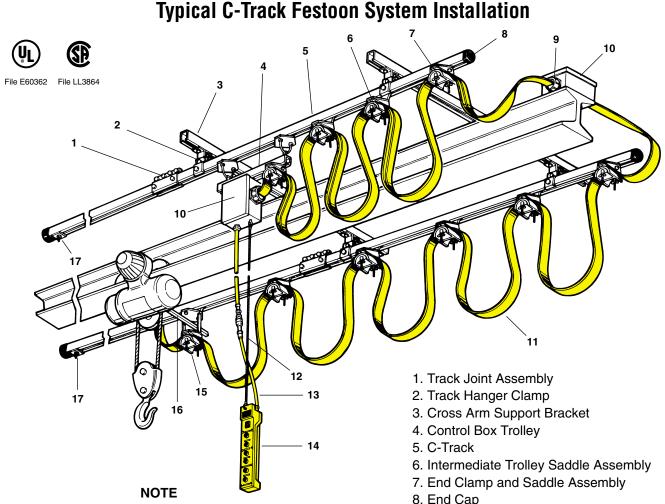


Specifically designed for use on overhead cranes, hoists, monorails, and other industrial applications. Special purpose wheel bearings for high speed operation, corrosive environments, and other applications. Flat Cable is UL Listed and CSA Approved.

#### www.duct-o-wire.com

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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	<b>5-3/8 x 2</b> <b>4-1/8 x 2</b>

- 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

#### **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



#### **Flat Cables**

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

Catalog	Catalog Number††		Cable Size		Short Time		No. of	Weight	Nominal Dimensions
Yellow PVC	Shielded Flat	Number of Con-	AWG Wire	Duty Rating at 30°C (86°F) Ambient		- Amps**	Strands	per Foot-	Unshielded Cable
Jacket	Cable	ductors	Size	Amps*	60 Min.	30 Min.	Conductor	Pounds	Inches†
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			65	.308	.260 x 1.310
FC-812	SFC-812	8	#12	20	Control	Cables	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 S	hort	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.

the outer jacket.



#### **Connectors**

#### 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.

	Maximum	Cable	e Size	Cable	Entry	
Catalog Number	Number of Cables	Number of Conductors				NPS
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 Te	emperature	
°C	°F	<b>Correction Factor</b>
30	86	1.00 (Full load current rating)
50	122	.82
65	149	.58

#### Connectors with Bushings for Unshielded Flat Cables

For shielded cable, use heat shrink fittings.

		Cable S		
Catalog No.	Number of Cables	Number of Conductors	AWG Wire Size	NPS
FC-4/8C	One 4-condu and one 8-co	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"



## Standard Duty 14 Gauge C-Track System Components

Galvanized Steel • Stainless Steel

**Precision Bearings and Curved Sections Available** 

#### Flat Cable System Components

	Catalog Number				
	Galvanized Steel	Stainless Steel	Weight Pounds	Description	
	FC-CH1A-10 FC-CH1A-20 FC-CH1A CUT	FC-CH1A-10-SS FC-CH1A-20-SS FC-CH1A-SS CUT	10 20 1 lb./ft.	<b>14 Gauge C-Track</b> 10 ft. section. 20 ft. section. Cross Arm Support Bracket or Cut Lengths. <b>Specify length in 1/2 foot increments.</b>	
	FC-CH1D FC-CH1DW	FC-CH1D-SS	1.38 .11	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. Welding sleeve for joining track sections.	
FC-CH1F FC-CH1FK	FC-CH1F FC-CH1FK	FC-CH1F-SS	.60 .51	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. Low profile track hanger assembly.	
FC-CH1F-1	FC-CH1F-1 FC-CH1F-1-A FC-CH1F-1-R FC-CH1F-1-A-R		.38 .40 .44 .46	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. Single Mounting Bolt Track Anchor Assembly. Single Mounting Bolt Track Anchor w/Rect. Nut. Single Mounting Bolt Track Anchor w/Rect. Nut. 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	



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

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



## Heavy Duty 12 Gauge C-Track System Components

### Galvanized Steel • Stainless Steel

Precision Bearings Available

#### Flat Cable Components

	Catalo	g Number			
	Galvanized Steel	Stainless Steel	Weight Pounds	Description	
	FC-CH2A-10 FC-CH2A-20 FC-CH2A CUT	FC-CH2A-10-SS FC-CH2A-20-SS FC-CH2A-SS CUT	17.5 35.0 1.75 lb./ft.	<b>12 Gauge C-Track</b> 10 ft. section. 20 ft. section. Cross Arm Bracket or Cut Lengths to 19.5'. <b>Specify length in 1/2 foot increments.</b>	
	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-CS21 FC-CS22	FC-CS22 FC-CS21 FC-CS24	FC-CS22-SS FC-CS21-SS FC-CS24-SS	.72 1.9 1.73	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. Large End Clamp with PVC Saddle. Same as the FC-CS21 except 5-1/2" wide. 4-1/8" x 2" cable window.	
	FC-TRT22 FC-TRT21 FC-TRT24	FC-TRT22-SS FC-TRT21-SS FC-TRT24-SS	2.19 4.75 4.30	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. 7"L x 6-3/4"W, trolley and large saddle. Same as the FC-TRT21 except 5-1/2" wide.	
FC-TRT22		0 11124 00	1.00	4-1/8" x 2" cable window.	



	Catalog	Number		
	Galvanized Steel	Stainless Steel	Weight Pounds	Description
	Jieci	Oteer	Tounds	-
	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-BX2	FC-BX1-4X	7.0 12.19	Fiberglass junction box. Rated NEMA 4X. 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-HD	FC-BXT FC-BXT-HD	.20 .40	12-Pole terminal strip. Heavy duty 12-pole terminal strip.
				Intermediate Trolley-Saddle Assemblies Trolley load rating: 75 lb. max.
	FC-TR22	FC-TR22-SS	1.28	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-TR22	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	<b>Trolley Bumpers</b> 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**



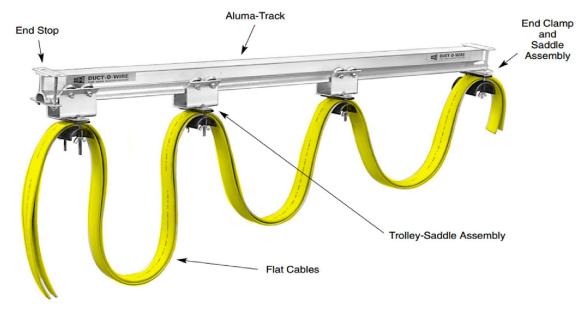
Trolleys, saddles, and all associated parts for round cable and air hose systems are available. Refer to the Installation and Technical Data Bulletin and Festoon Price List for details.

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

R-TR21-4 Trolley



## **Aluma-Track System Components**



### **Flat Cable System Components**

	Catalog	Weight	•
	Number	Pounds	Description
Note: Track may be factory			Aluminum Alloy Track
bent into 90° maximum curves	FC-T1A-10	11	10 ft. section.
of 5 ft. radius or greater.	FC-T1A-20	22	20 ft. section.
Consult factory for cost.	FC-T1A CUT	1.1/ft.	Cut lengths of track.
			Track Joint Assembly
fear a o	FC-T1D	1.25	Plated steel bar and hardware to join adjacent
			track sections. 1/8" Allen wrench required
			Mounting Bracket
			For number required refer to Installation and
			Technical Data Bulletin and Festoon Price List.
	FC-T1BR	12	2-1/2 x 2-1/2 inch steel angle, painted and punched,
			36" long.
	FC-T1CHF	10.5	5" channel, painted and punched, 18" long. Replaces
•			FC-T1D and FC-T1F assemblies.
			Track Hanger Clamp Assembly
			One required for each mounting bracket for
	FC-T1F	.9	each track run, except for FC-T1CHF.
			Two clamps and hardware to secure track to angle
			mounting bracket.
			End Clamp and Saddle Assembly
			One required for each track run at storage end
	FC-T1C	.88	of track.
5(********)>			Two clamps and hardware to secure track to angle
			mounting bracket.
19. BE			Tow Trolley and Saddle Assembly
THE AL			
	FC-TRT6	2.50	Tow Trolley Assembly with Anti-lift Rollers



	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
COLO CARA	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.
000 Tak	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.
			Tow Bar
0			One required for each track system.
	FC-TB4	2.80	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**

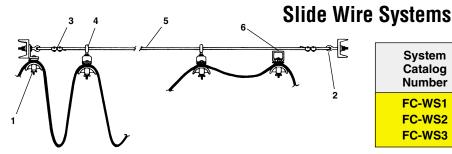
Round cable and hose saddles are also available. Refer to the Installation and Technical Data Bulletin and Festoon Price List for details.

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

**R-TR1B Trolley** 



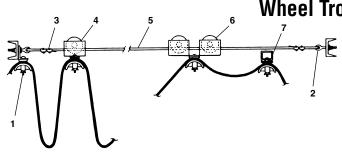
## Wire Supported Systems



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

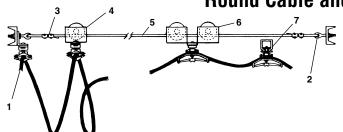


### Wheel Trolley Systems

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,
2	FC-SRCE2	Eye Bolt and Thimble			1/4" dia.
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,
2	FC-SRCE2	Eye Bolt and Thimble			1/4" dia.
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



## **I-Beam Supported Trolley Systems**

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

	Catalog Number	Weight Pounds	Description
A A			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	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-TR12-S6	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-TRT12 FC-TRC12	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.
			End Clamp for Flat Cables
	FC-CS3	2.85	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
			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.
- and	FC-TRT1000	11.2	Same as above, except 9" long with a large saddle.
FC-TR10	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 Cabl	e 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.

