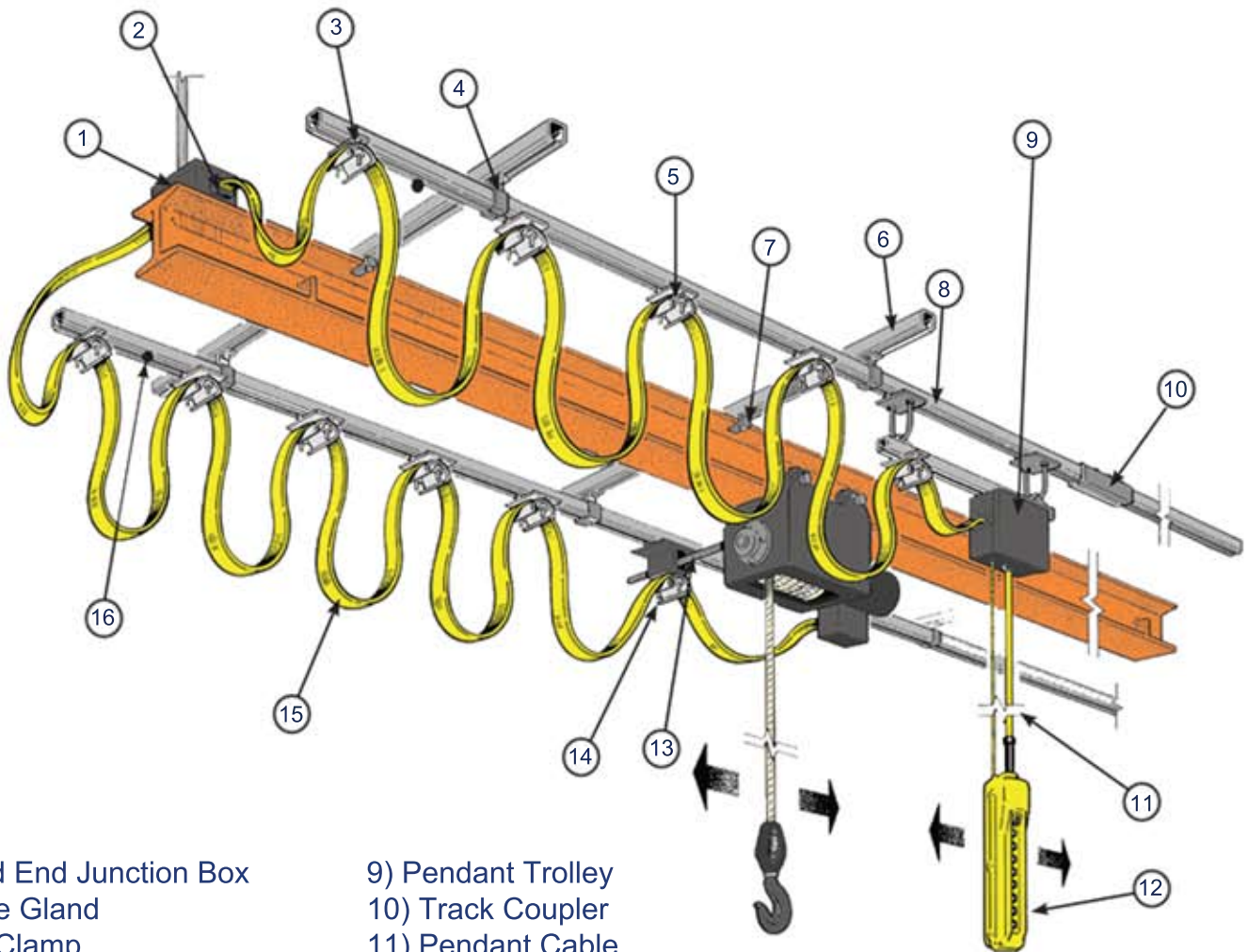


C-Rail Festoon



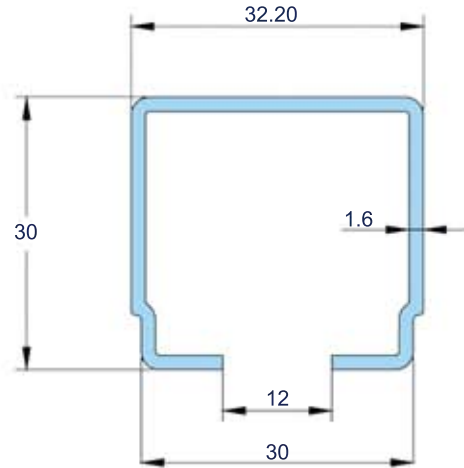
- | | |
|---------------------------|-----------------------------|
| 1) Fixed End Junction Box | 9) Pendant Trolley |
| 2) Cable Gland | 10) Track Coupler |
| 3) End Clamp | 11) Pendant Cable |
| 4) Track Hanger | 12) Pendant Control Station |
| 5) Cable Trolley | 13) Towbar |
| 6) Track Support Arm | 14) Tow Trolley |
| 7) Girder Clip | 15) Flat Cable |
| 8) C-Track | 16) End Stop |

C-Track Cable Festoon systems are suitable for standard overhead cranes, small gantry cranes, water treatment plants, car wash systems, plating lines and many other types of moving equipment. Choose from a complete array of trolleys, track, cable, junction boxes, and connectors. Push button pendants or radio remote controls are available to operate your crane systems.

The C-Track Festoon components needed for an overhead crane system depend on how the system is to be mounted. The one shown above uses support arms mounted to the top flange of the I-beam. For control systems, choose the type of control trolley you want - Junction Box or Quick-Disconnect - and whether you want to use a push button pendant or radio remote control to operate the crane.

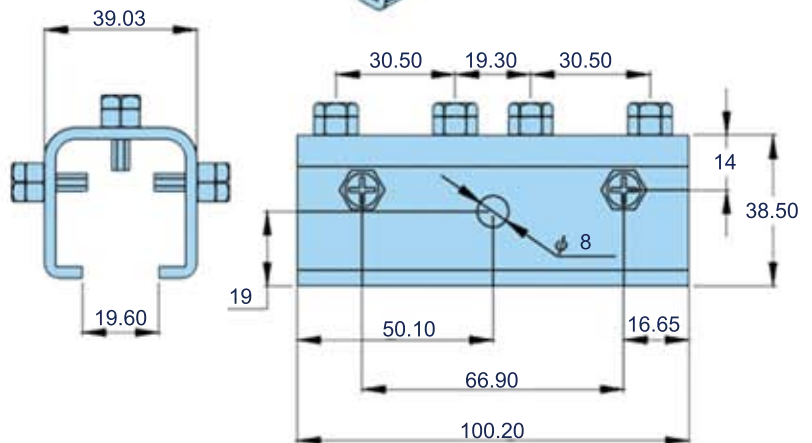
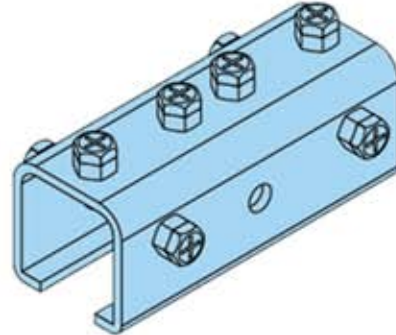
C-Rail Festoon

C-Rail



Part No.	Type	Weight
C01-1	1 Meter	1.2 kg
C01-3	3 Meters	3.6 kg
C01-6	6 Meters	7.2 kg

Track Coupler



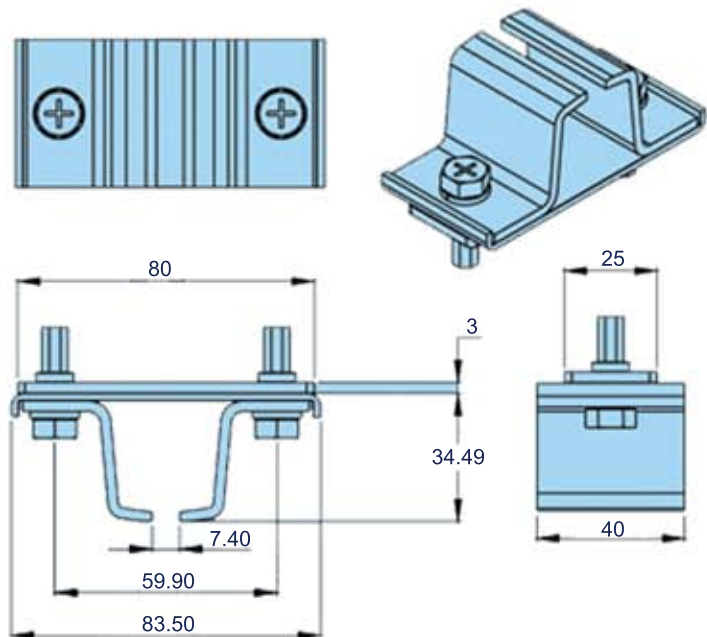
Part No.	Weight
C04	0.32 kg

C-Rail Festoon

Track Hanger



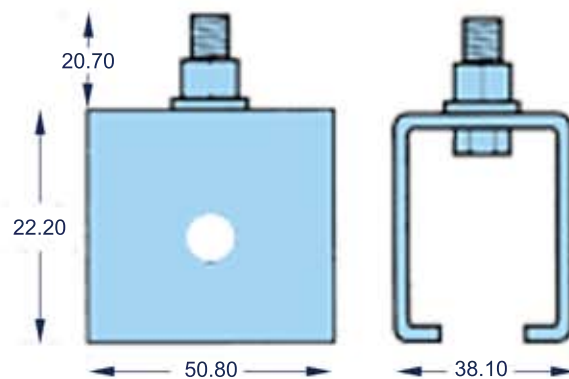
Part No.	Weight
C02	0.23 kg



Track Hanger



Part No.	Weight
C10	0.38 kg

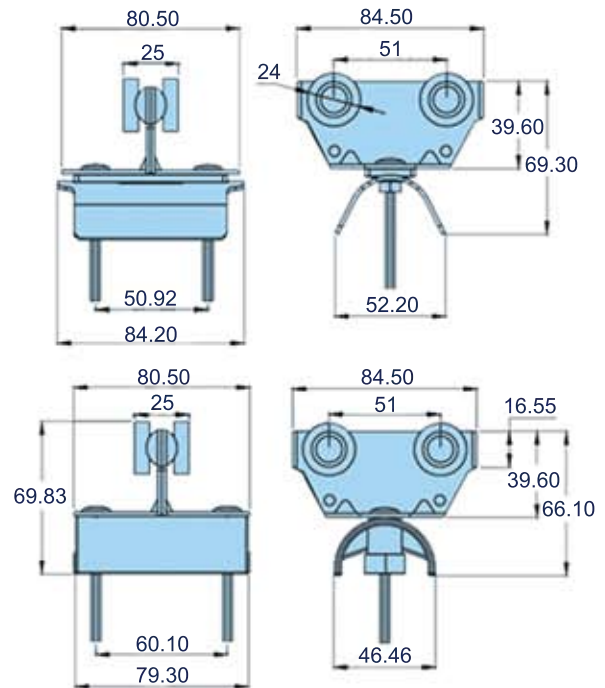


C-Rail Festoon

Cable Trolley - Flat



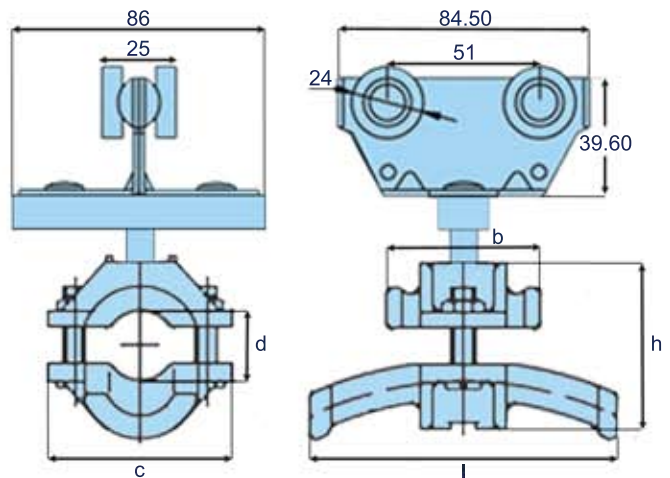
Part No.	Type	Weight
C05S	Steel Saddle	0.33 kg
C05P	Plastic Saddle	0.28 kg



Cable Trolley - Round



Part No.	Type	Weight
C016	10-16 mm	0.30 kg
C025	17-25 mm	0.32 kg
C036	26-26 mm	0.38 kg



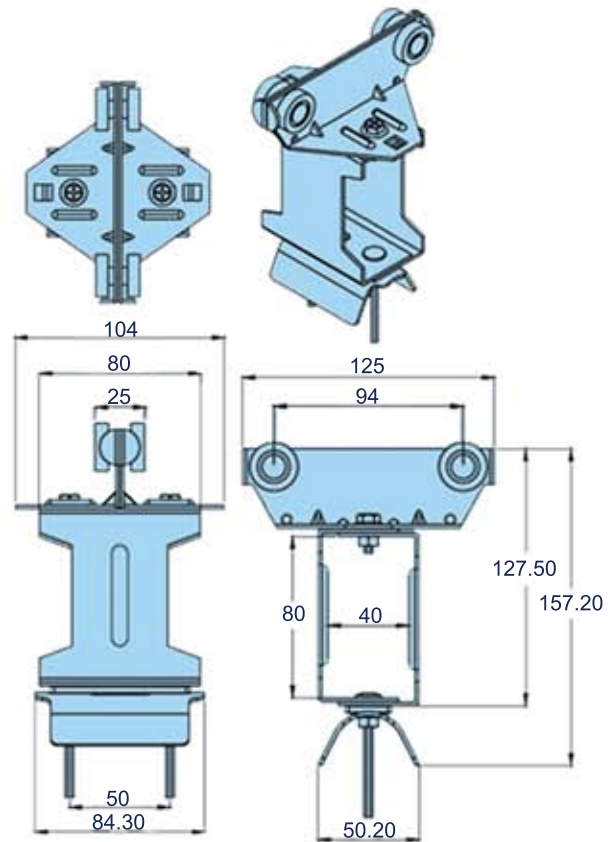
d (mm)	r (mm)	l (mm)	h (mm)	b (mm)	c (mm)
10-16	80	70	38	35	42
17-25	125	100	47	50	50
26-35	180	140	58	70	64

C-Rail Festoon

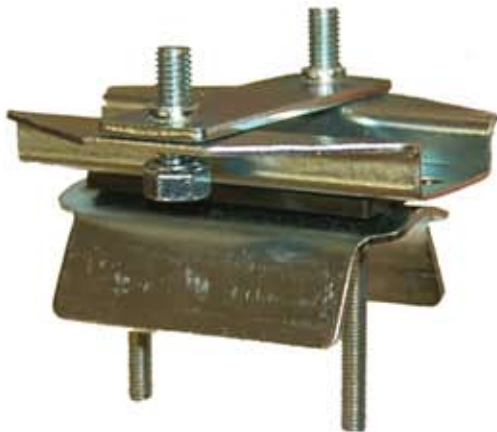
Tow Trolley



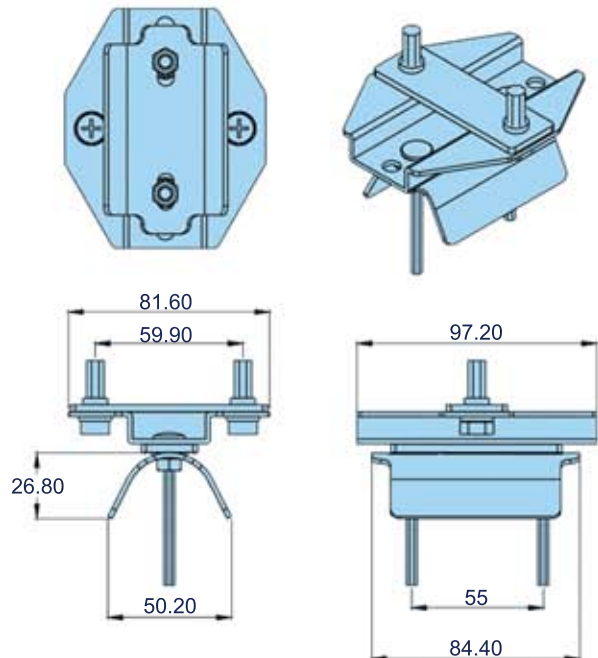
Part No.	Weight
C06	0.78 kg



End Clamp



Part No.	Weight
C03	0.31 kg

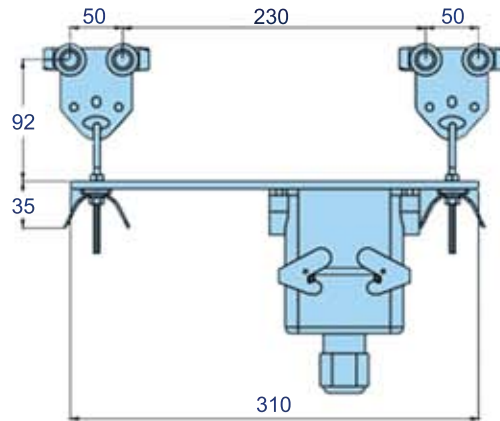


C-Rail Festoon

16 Pole Pendant Trolley



Part No.	Weight
HC09	1.9 kg



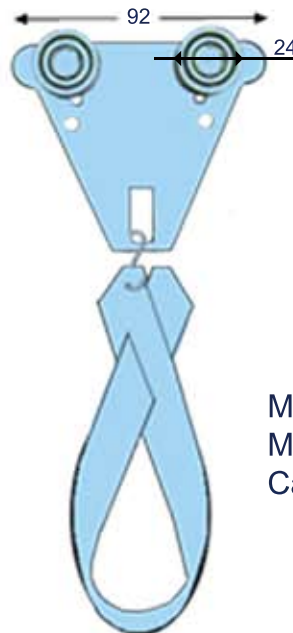
Available in different sizes

KM10MFU1B2	10 Pole + Ground
KM16MFU1B2	16 Pole + Ground
KM24MFU1B2	24 Pole + Ground
KM32MFU1B2	32 Pole + Ground

Trolley (Strap)



Part No.	Weight
C11	0.22 kg



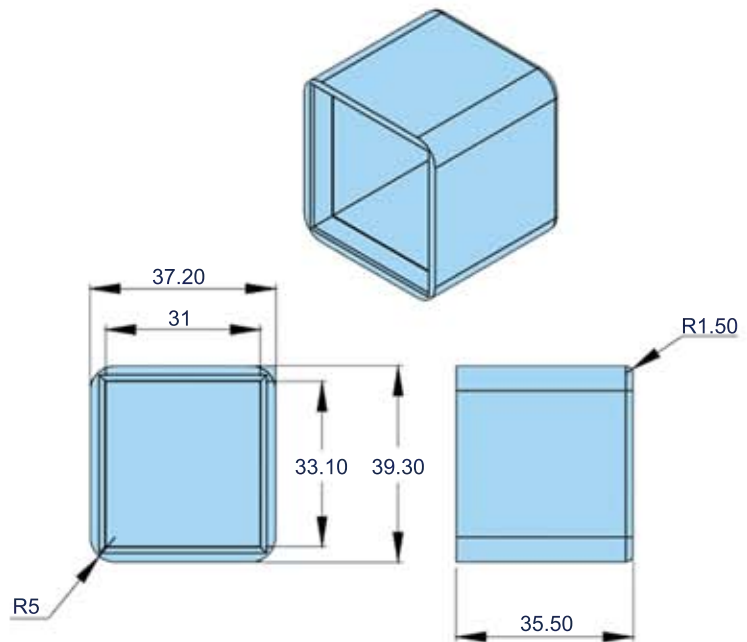
Max OD = 90mm
Min OD = 10mm
Capacity = 16 kg

C-Rail Festoon

End Cap



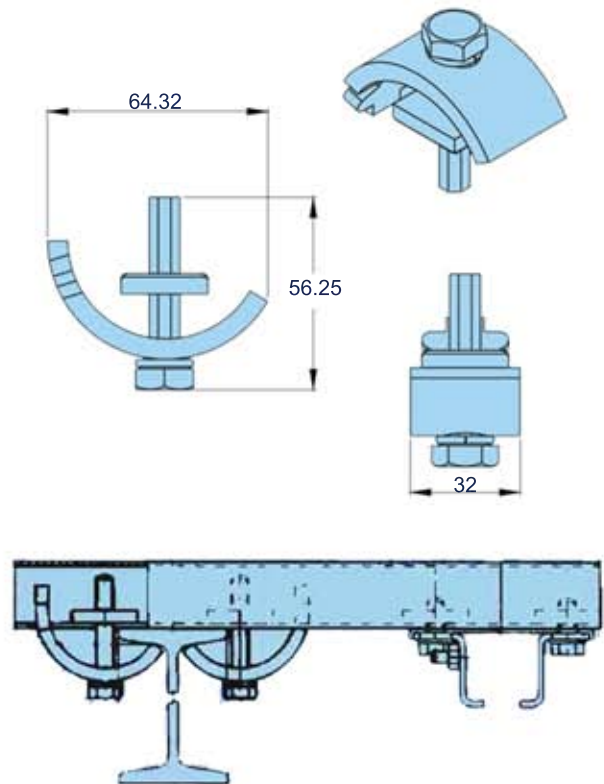
Part No.	Weight
C07	0.02 kg



Girder Clip



Part No.	Weight
C08	0.17 kg



C-Rail Festoon

Flat Cable

Part #	AWG Wire Size	# of Conds.	Ampacity @ 30°C Ambient	# of Strands	Insulation Thickness	Dimensions	Lbs/ft
FC1616	16	16	15	65	.030	.200" x 2.250"	.36
FC1612	16	12	15	65	.030	.200" x 1.605"	.27
FC1608	16	8	15	65	.030	.200" x 1.110"	.18
FC1412	14	12	17	41	.030	.210" x 1.700"	.34
FC1408	14	8	17	41	.030	.210" x 1.175"	.22
FC1404	14	4	25	41	.030	.210" x .625"	.12
FC1208	12	8	21	65	.030	.230" x 1.340"	.32
FC1204	12	4	30	65	.030	.230" x .710"	.16
FC1004	10	4	40	105	.030	.270" x .880"	.24
FC0804	8	4	50	168	.045	.365" x 1.190"	.42
FC0604	6	4	70	266	.060	.430" x 1.450"	.60
FC0404	4	4	90	420	.060	.490" x 1.690"	.75
FC0204	2	4	120	665	.060	.560" x 1.955"	1.27

*Other sizes available upon request

DESCRIPTION:

- Conductor of soft drawn bare copper
- Insulation of 105°C colour coded PVC
- Jacket compound PVC, +105°C to -40°C
- UV resistant
- CSA, UL & CE Listed
- FT1 and VW-1 Rated

APPLICATION:

For use with festoon systems for the conveyance of electrical power and control to cranes, hoists or any equipment which travels with a lateral traversing motion. Not recommended for severe flexing or impact at temperatures below -40°C.

Round Cable

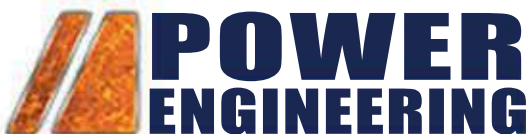
Part #	AWG Wire Size	# of Conds.	# of Strands	Diameter	Lbs/ft
RPC1624	16	24	65/34	.745"	.37
RPC1620	16	20	65/34	.745"	.31
RPC1616	16	16	65/34	.605"	.25
RPC1612	16	12	65/34	.550"	.20
RPC1608	16	8	65/34	.465"	.14
RPC1604	16	4	65/34	.435"	.09
RPC1608PPS-4	16	8	65/34	.495"	.18
RPC1612PPS-4	16	12	65/34	.570"	.26
RPC1616PPS-4	16	16	65/34	.630"	.32
RPC1624PPS-4	16	24	65/34	.765"	.44

DESCRIPTION:

- Soft annealed bare copper per ASTM B3
- Insulation of 105°C colour coded PVC
- Resistance to UV, weather, oil and water
- CSA, UL & CE Listed

APPLICATION:

For use in festoon systems as vertical drop cable from a crane or hoist down to a pendant push button station.



5-375 Sheldon Dr. Cambridge, ON N1T 1B1

Tel: 1-888-822-2024 - Fax: 1-855-822-2022

E-mail: info@crane-controls.com - Website: Crane-Controls.com

C-Rail Festoon

Cable Glands

Cable Connectors for Flat Cable

Part #	AWG Wire Size	# of Conds.	NPS
FC-1216C	16	12	2"
FC-816C	16	8	1.25"
FC-414C	14/12	4	1"
FC-410C	10	4	1"
FC-48C	8	4	1.25"
FC-46C	6	4	1.50"
FC-44C	4	4	2"
FC-42C	2	4	2"



Used to terminate the cable at the power source or junction box. Connector has an aluminum body and rubber bushing.

Part #	Knockout	Cable Range Height	Width
WGL100	1"	.500"	.750"
WGL125	1.25"	.625"	1.062"
WGL150	1.50"	.750"	1.250"
WGL200	2"	1.062"	1.625"



Used for connecting flat cable to power source or junction box.

Heat Shrinkable Cable Connectors

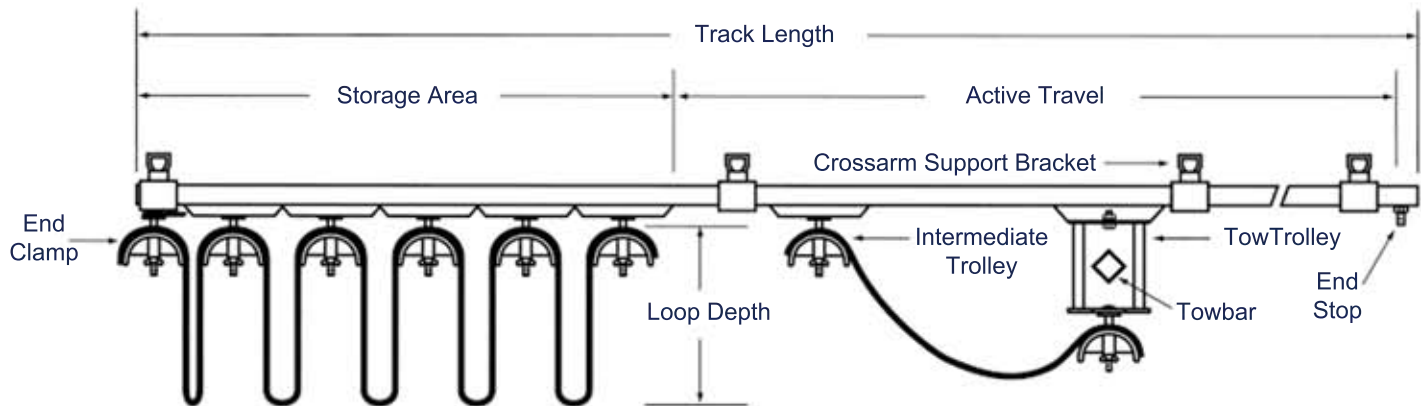
Part #	Length	Cable Opening	Drill Size
WGLS100	1.25"	.75"	1"
WGLS110	3.75"	1.10"	1.38"
WGLS160	4.25"	1.60"	2"
WGLS206	6.25"	2.06"	2.36"
WGLS290	7"	2.90"	3.50"



Used for single cable and multiple cable groupings. Water Tight • 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.

INSTALLATION INSTRUCTIONS

TYPICAL SYSTEM LAYOUT



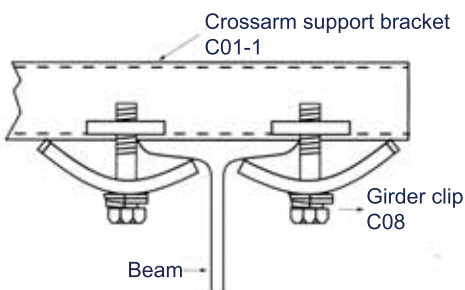
Use tow chains or tow ropes for curved or high speed systems.

Consult Power Engineering when:

- Atmosphere is corrosive or dusty
- Speeds exceed 250 FPM
- Hazardous materials are present
- Components not shown or listed are required (including special flat cable sizes)

STEP 1

Install crossarm support brackets every 5'.



STEP 2

Install track hangers on crossarm supports, leaving clamping bolts loose.

STEP 3

Slide C-Rail into hanger clamps. Butt C-Rail together and secure with track couplers (C04). Tighten track coupler bolts and hanger clamp bolts making sure the track is straight.

STEP 4

Insert intermediate trolleys into C-Track. Be sure all trolleys float freely through the track and joints.

STEP 5

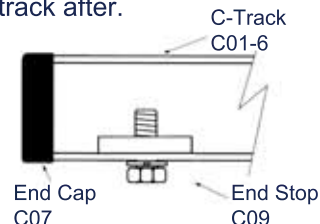
Install end clamp assembly onto the cable-storage side of the track.

STEP 6

Insert the tow trolley or pendant control trolley.

STEP 7

Install end stop assembly on the track end opposite to the end clamp. Slide the end stop into the slot of the track end and tighten the nut. Slide end caps on both ends of track after.



STEP 8

Cut cable(s) to proper length as follows:
Length = total track length + 10% (cable slack) + lengths for electrical feed connection at each end. Feed cable(s) through the trolleys between the plastic clamp and the saddle. Recommended loop depth is 2½' which equals 5' of cable between each trolley. Tighten the nuts on each trolley to secure the cable.

STEP 9

Install cable glands to the junction boxes and insert cable(s) through gland opening. Tighten the clamp down firmly on the cable.

STEP 10

Install tow bar on equipment to be electrified. The tow bar should be centered with the tow trolley.

STEP 11

Run the entire system back & forth several times to ensure proper operation. Flat cables should extend in a straight line if cables are fastened properly on trolleys.