

## Cable Hangers C100 & C200 Series



ASC Engineered Solutions' Cable Hanger offering allows for the suspension of single hanger and trapeze HVAC systems from I-Beams, Joists, Wood Fasteners, Concrete Anchors, Metal Deck, and much more.

The unique design of the Series C200 cable clutches allow for quick installation and adjustment of a hanger assembly. Each Series C200 cable clutch has a safety nut which allows the installer to visually ensure the cable assembly is secure and ready to be loaded.

Series C100 cable may be supplied on spools or at specified lengths with pre-assembled end fittings giving the installer the versatility to efficiently support HVAC systems. Pre-assembled cables include Loops, Studs, Couplings, Eyelets, 90 Eyelets, and Toggles, and may be offered in 5', 10', 15', & 20' lengths.

The Cable Hanger offering encompasses  $\frac{3}{32}$ " through  $\frac{1}{4}$ " cables with design loads ranging from 100 lbf to 715 lbf. All cables may be cut to length using the C900 Cable Cutter.

### C100 Series Cables

	Size (in)	Spool Length
A	$\frac{3}{32}$	500'
B	$\frac{1}{8}$	500'
C	$\frac{3}{16}$	250'
D	$\frac{1}{4}$	100'

### C200 Series Clutches

Fig. #	Style	A	B	C	D
C210	Loop	✓	✓	✓	✓
C220	Stud End	✓	✓	✓	
C230	Coupling	✓	✓	✓	
C240	Channel	✓			



PROJECT INFORMATION	APPROVAL STAMP
Project:	Approved
Address:	Approved as noted
Contractor:	Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

## Fig. C100 Cable Spool Fig. C110 Cable Loop

### Fig. C100 Cable Spool

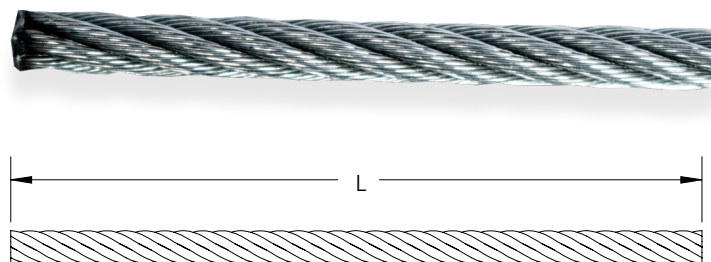
**Size Range:** Cable Size A, B, C, D

**Material:** Carbon Steel

**Finish:** Zinc Coated

**Service:** Cable designed for use with C200 series clutches to support HVAC equipment.

**Ordering:** Specify figure number, size, and description.



**Fig. C100: Loads (Lbs) • Weights (Lbs) • Dimensions (in)**

Cable Size	Cable Diameter	Load Rating	L	Cable Weight/FT	Spool Weight
A	$\frac{3}{32}$	100	500	0.016	9.0
B	$\frac{1}{8}$	200		0.029	15.5
C	$\frac{3}{16}$	495	250	0.065	17.3
D	$\frac{1}{4}$	715	100	0.110	12.0

**Notes:**

1. Cable is sold on a spool at the lengths listed.
2. Cable may be cut to length with the Fig. C900 Cable Cutter. Alternate tools may be acceptable.
3. Cable ends should be inspected after cutting to ensure they have not significantly un-wound. Slight fraying at the exposed ends of the cable is typical. Excessive fraying may make it difficult to insert cable through C200 series clutches.

### Fig. C110 Cable Loop

**Size Range:** Cable Size A, B, C, D

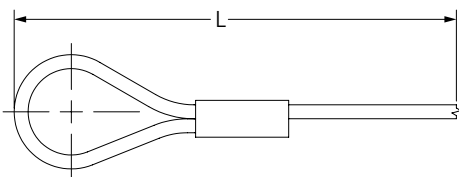
**Material:** Carbon Steel with an Aluminum Crimp

**Finish:** Zinc Coated

**Length (L):** Cable sold in 5ft, 10ft, 15ft, and 20ft lengths.

**Service:** Cable designed for use with C200 series clutches to support HVAC equipment.

**Ordering:** Specify figure number, size, length, and description.

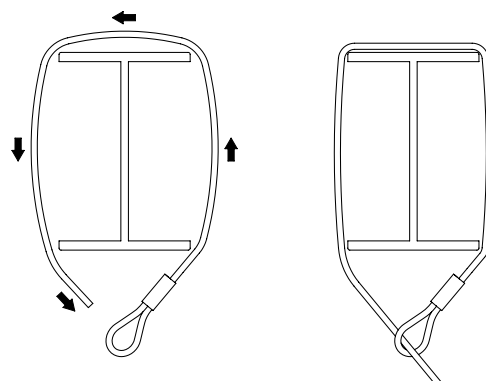


**Fig. C110: Loads (Lbs) • Weights (Lbs) • Dimensions (in)**

Cable Size	Cable Diameter	Load Rating	Cable Weight/FT
A	$\frac{3}{32}$	100	0.016
B	$\frac{1}{8}$	200	0.029
C	$\frac{3}{16}$	495	0.065
D	$\frac{1}{4}$	715	0.110

**Notes:**

1. Cable may be cut to length with the Fig. C900 Cable Cutter. Alternate tools may be acceptable.
2. Cable ends should be inspected after cutting to ensure they have not significantly un-wound. Slight fraying at the exposed ends of the cable is typical. Excessive fraying may make it difficult to insert cable through C200 series clutches.
3. Cable looped around steel structural elements shall be inspected to ensure it is not resting on sharp corners.



## Fig. C120 Cable Stud Fig. C130 Cable Coupling

### Fig. C120 Cable Stud

**Size Range:** Cable Size A, B, & C

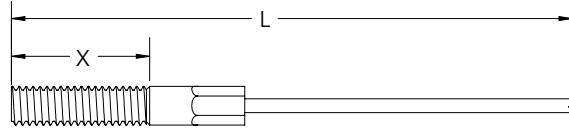
**Material:** Carbon Steel

**Finish:** Zinc Coated

**Length (L):** Cable sold in 5ft, 10ft, 15ft, and 20ft lengths.

**Service:** Cable designed for use with C200 series clutches to support HVAC equipment.

**Ordering:** Specify figure number, size, length, and description.

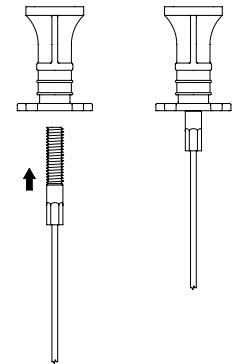


**Fig. C120: Loads (Lbs) • Weights (Lbs) • Dimensions (in)**

Cable Size	Cable Diameter	Load Rating	Thread Size	X	Cable Weight/FT
A	$\frac{3}{32}$	100	$\frac{1}{4}$ -20		0.016
B	$\frac{1}{8}$	200		$1\frac{1}{4}$	0.029
C	$\frac{3}{16}$	495	$\frac{3}{8}$ -16		0.065

**Notes:**

1. Cable may be cut to length with the Fig. C900 Cable Cutter. Alternate tools may be acceptable.
2. Cable ends should be inspected after cutting to ensure they have not significantly un-wound. Slight fraying at the exposed ends of the cable is typical. Excessive fraying may make it difficult to insert cable through C200 series clutches.



### Fig. C130 Cable Coupling

**Size Range:** Cable Size A & B

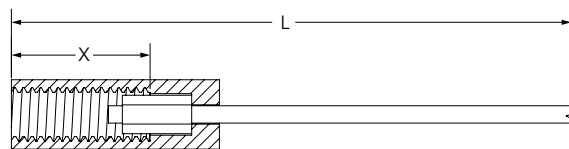
**Material:** Carbon Steel

**Finish:** Zinc Coated

**Length (L):** Cable sold in 5ft, 10ft, 15ft, and 20ft lengths.

**Service:** Cable designed for use with C200 series clutches to support HVAC equipment.

**Ordering:** Specify figure number, size, length, and description.

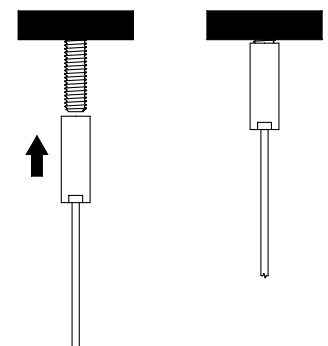


**Fig. C130: Loads (Lbs) • Weights (Lbs) • Dimensions (in)**

Cable Size	Cable Diameter	Load Rating	Thread Size	X	Cable Weight/FT
A	$\frac{3}{32}$	100	$\frac{1}{4}$ -20	1	0.016
B	$\frac{1}{8}$	200	$\frac{3}{8}$ -16		0.029

**Notes:**

1. Cable may be cut to length with the Fig. C900 Cable Cutter. Alternate tools may be acceptable.
2. Cable ends should be inspected after cutting to ensure they have not significantly un-wound. Slight fraying at the exposed ends of the cable is typical. Excessive fraying may make it difficult to insert cable through C200 series clutches.



**Fig. C150 Cable Eyelet**  
**Fig. C151 Cable 90 Eyelet**

**Fig. C150 Cable Eyelet**

**Size Range:** Cable Size A & B

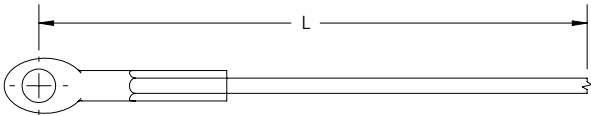
**Material:** Carbon Steel

**Finish:** Zinc Coated

**Length (L):** Cable sold in 5ft, 10ft, 15ft, and 20ft lengths.

**Service:** Cable designed for use with C200 series clutches to support HVAC equipment.

**Ordering:** Specify figure number, size, length, and description.

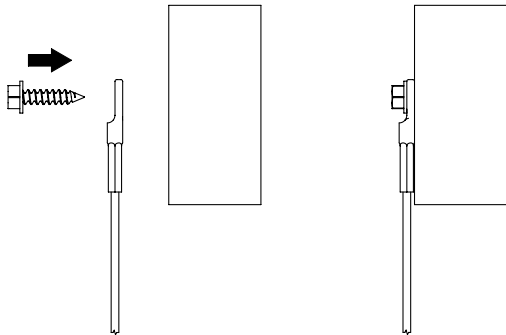


**Fig. C150: Loads (Lbs) • Weights (Lbs) • Dimensions (in)**

Cable Size	Cable Diameter	Load Rating	Hole Size	Cable Weight/FT
A	$\frac{3}{32}$	100	$\frac{1}{4}$	0.016
B	$\frac{1}{8}$	200	$\frac{3}{8}$	0.029

**Notes:**

1. Cable may be cut to length with the Fig. C900 Cable Cutter. Alternate tools may be acceptable.
2. Cable ends should be inspected after cutting to ensure they have not significantly un-wound. Slight fraying at the exposed ends of the cable is typical. Excessive fraying may make it difficult to insert cable through C200 series clutches.



**Fig. C151 Cable 90 Eyelet**

**Size Range:** Cable Size A & B

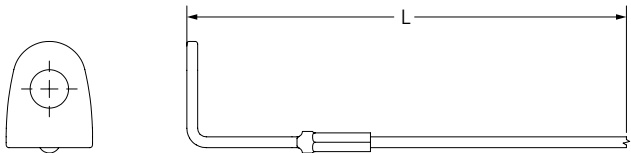
**Material:** Carbon Steel

**Finish:** Zinc Coated

**Length (L):** Cable sold in 5ft, 10ft, 15ft, and 20ft lengths.

**Service:** Cable designed for use with C200 series clutches to support HVAC equipment.

**Ordering:** Specify figure number, size, length, and description.

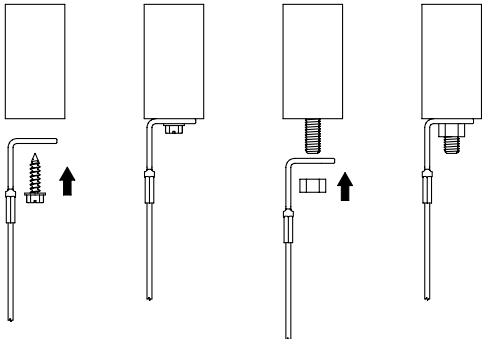


**Fig. C151: Loads (Lbs) • Weights (Lbs) • Dimensions (in)**

Cable Size	Cable Diameter	Load Rating	Hole Size	Cable Weight/FT
A	$\frac{3}{32}$	100	$\frac{1}{4}$	0.016
B	$\frac{1}{8}$	200	$\frac{3}{8}$	0.029

**Notes:**

1. Cable may be cut to length with the Fig. C900 Cable Cutter. Alternate tools may be acceptable.
2. Cable ends should be inspected after cutting to ensure they have not significantly un-wound. Slight fraying at the exposed ends of the cable is typical. Excessive fraying may make it difficult to insert cable through C200 series clutches.



## Cable Toggle Fig. C160

**Fig. C160** Cable Toggle

**Size Range:** Cable Size A & B

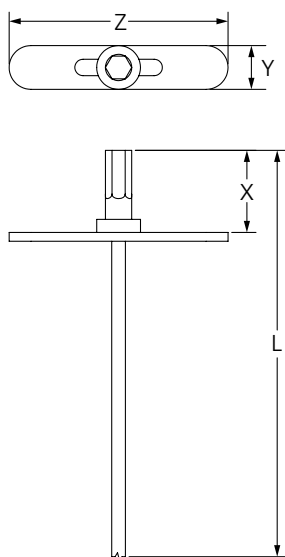
**Material:** Carbon Steel

**Finish:** Zinc Coated

**Length (L):** Cable sold in 5ft, 10ft, 15ft, and 20ft lengths.

**Service:** Designed for use in a 1/2" hole. Cable designed for use with C200 series clutches to support HVAC equipment.

**Ordering:** Specify figure number, size, length, and description.

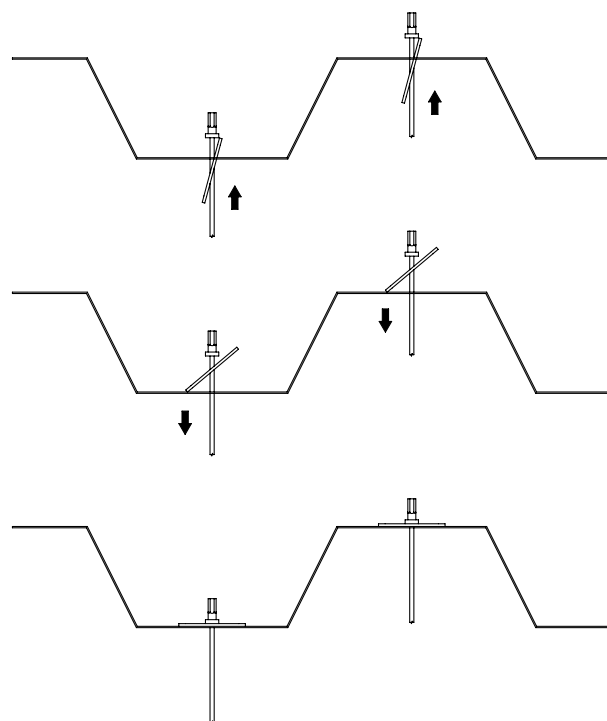


**Fig. C160: Loads (Lbs) • Weights (Lbs) • Dimensions (in)**

Cable Size	Cable Diameter	Load Rating	X	Y	Z	Cable Weight/FT
A	3/32	100	3/4	7/16	2	0.016
B	1/8	100				0.029

**Notes:**

1. Cable may be cut to length with the Fig. C900 Cable Cutter. Alternate tools may be acceptable.
2. Cable ends should be inspected after cutting to ensure they have not significantly un-wound. Slight fraying at the exposed ends of the cable is typical. Excessive fraying may make it difficult to insert cable through C200 series clutches.



## Loop Clutch Fig. C210

**Fig. C210** Loop Clutch

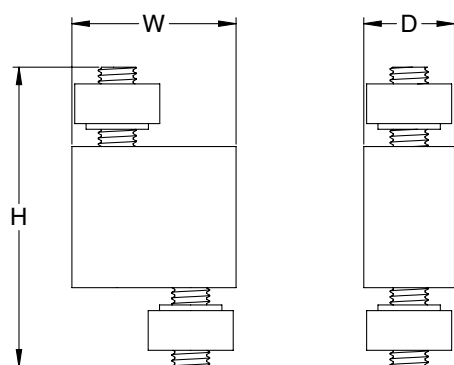
**Size Range:** Cable Size A, B, C, & D

**Material:** Brass

**Finish:** Nickel Plated

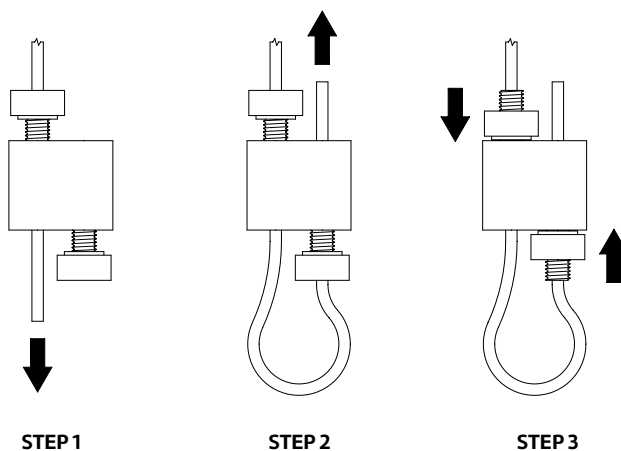
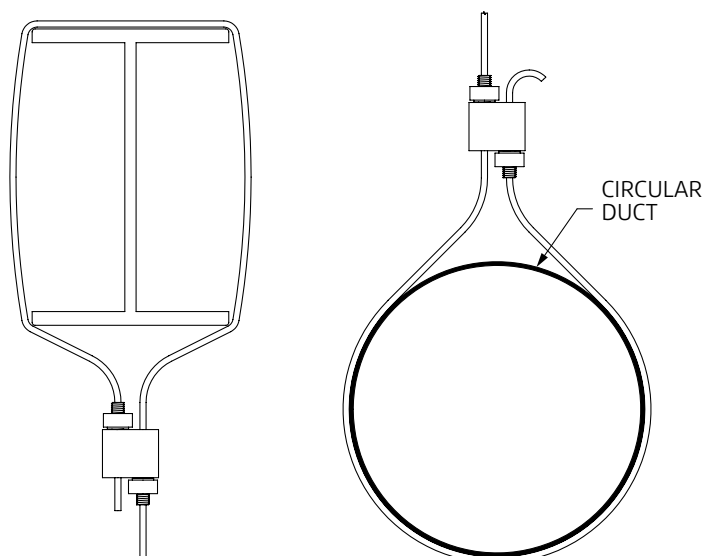
**Service:** A cable clutch designed to allow a cable end to loop around a supporting structure or applicable HVAC or piping component. Designed for use with C100 series cables.

**Ordering:** Specify figure number, size, and description.



**Fig. C210: Loads (Lbs) • Weights (Lbs) • Dimensions (in)**

Clutch Size	Cable Size	Load Rating	H	W	D	Approx. Weight
A	A	100	1 <sup>15</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	1/2	0.09
B	B	200	2 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	5/8	0.17
C	C	495	2 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	1	0.53
D	D	715	3 <sup>9</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	1.27



### Installation Instructions:

- 1 Loosen the safety nuts and install the cable through the safety nut and plunger on either end of the clutch.
- 2 Loop the cable around the structure or applicable HVAC or piping component and insert the cable back through the other end of the clutch.
- 3 Hand tighten the safety nuts on both ends of the clutch.
- 4 The clutch is now ready to be loaded.
- 5 A minimum of 1" of excess cable should be exposed beyond the plunger and safety nut. Frayed cable or unwound cable should never be used to support loads. Slight fraying at the exposed ends of the cable is typical.

### Adjustment Instructions:

Loosen safety nuts, press in plunger and the clutch will freely move up and down the cable.

**Warning:** Never adjust the elevation of a hanger assembly while the hanger is under load.

**Caution:** Cable looped around steel structural elements shall be inspected to ensure it is not resting on sharp corners.

**Caution:** Do not rotate or twist the cable once the clutch has been installed and the safety nut tightened.



## Stud End Clutch Fig. C220

**Fig. C220** Stud End Clutch

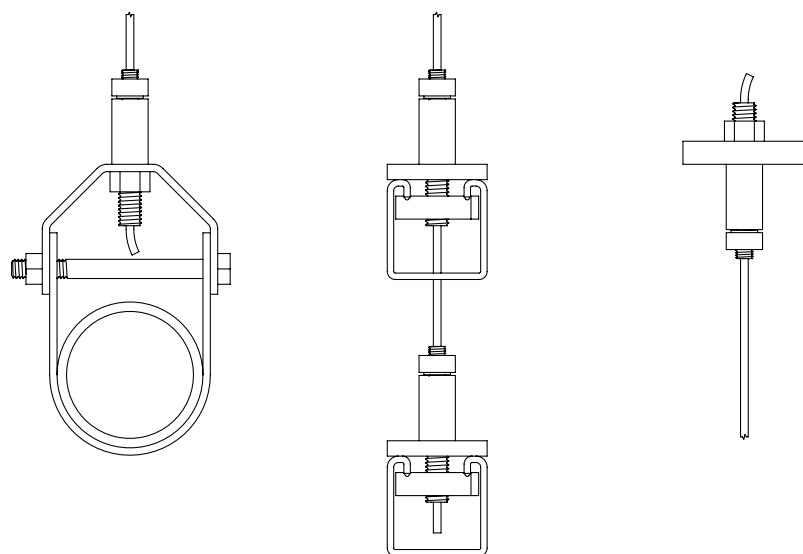
**Size Range:** Cable Sizes A, B, & C

**Material:** Brass

**Finish:** Nickel Plated

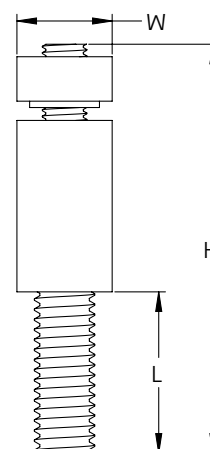
**Service:** A cable clutch designed to attach a cable assembly to the building structure or to a related HVAC or piping support. Designed for use with C100 series cables.

**Ordering:** Specify figure number, size, and description.



Size AB

Size C



**Fig. C220: Loads (Lbs) • Weights (Lbs) • Dimensions (in)**

Size	Cable Size	Load Rating	Thread	L	H	W	Approx. Weight
AB	A	100	$\frac{3}{8}$ x 16	1	$2\frac{7}{16}$	$\frac{9}{16}$	0.10
	B	200					
C	C	495	$\frac{1}{2}$ x 13	$1\frac{1}{2}$	$3\frac{5}{8}$	1	0.30

### Installation Instructions:

- 1 Loosen the safety nuts and install the cable through the safety nut and plunger on either end of the clutch.
- 2 Hand tighten the safety nut.
- 3 Install threaded component over the stud end of the clutch.
- 4 The clutch is now ready to be loaded.
- 5 A minimum of 1" of excess cable should be exposed beyond the plunger and safety nut. Frayed cable or unwound cable should never be used to support loads. Slight fraying at the exposed ends of the cable is typical.

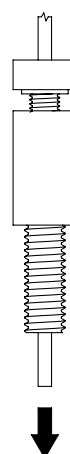
### Adjustment Instructions:

Loosen safety nuts, press in plunger and the clutch will freely move up and down the cable.

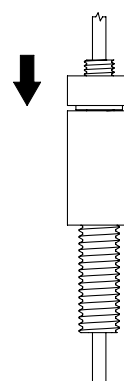
**Warning:** Never adjust the elevation of a hanger assembly while the hanger is under load.

**Caution:** Do not rotate or twist the cable once the clutch has been installed and the safety nut tightened.

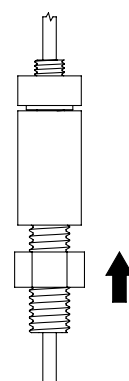
### STEP 1



### STEP 2



### STEP 3



Coupling End Clutch  
**Fig. C230**

**Fig. C230** Coupling End Clutch

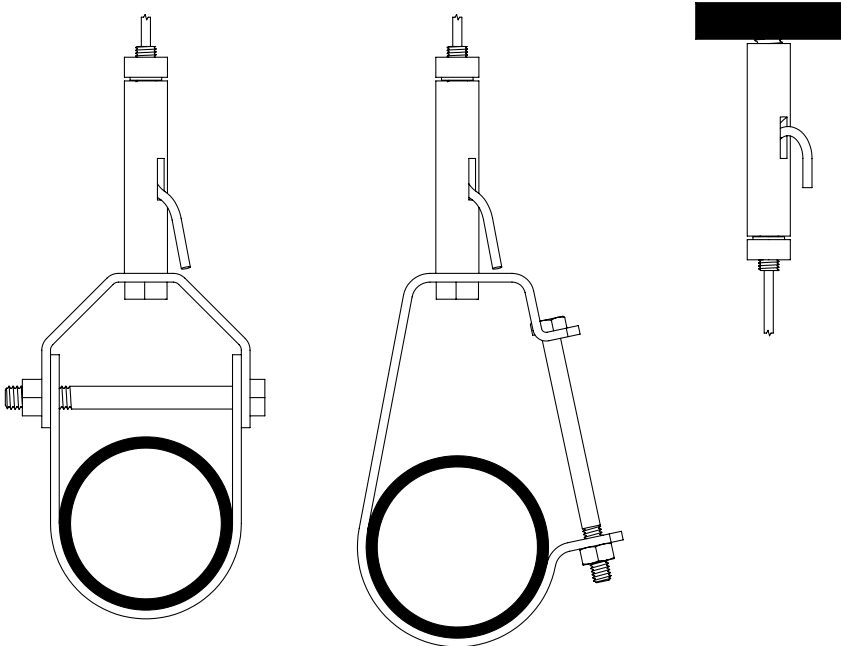
**Size Range:** Cable Sizes A, B, & C

**Material:** Brass

**Finish:** Nickel Plated

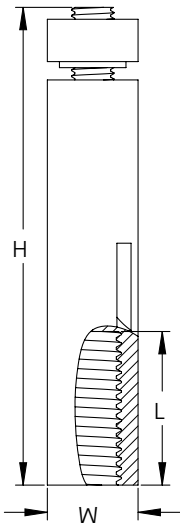
**Service:** A cable clutch designed to attach a cable assembly to the building structure or to a related HVAC or piping support. Designed for use with C100 series cables.

**Ordering:** Specify figure number, size, and description.



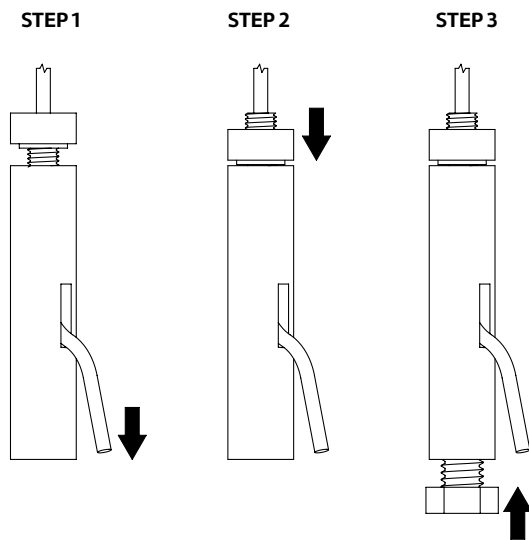
**Fig. C230: Loads (Lbs) • Weights (Lbs) • Dimensions (in)**

Clutch Size	Cable Size	Load Rating	Thread	L	H	W	Approx. Weight
AB	A	100	$\frac{3}{8} \times 16$	1	$3\frac{5}{16}$	$\frac{9}{16}$	0.16
	B	200					
C	C	495	$\frac{1}{2} \times 13$	$1\frac{1}{2}$	$3\frac{5}{8}$	1	0.61





## Coupling End Clutch (cont.) Fig. C230



### Installation Instructions:

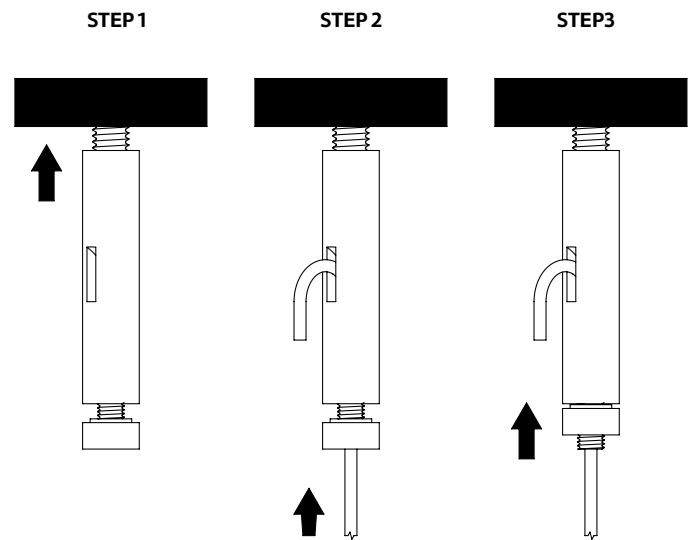
- 1 Loosen safety nut and install cable through the safety nut end of the clutch.
- 2 Hand-tighten the safety nut.
- 3 Install threaded stud or bolt into the coupling end of the clutch.
- 4 The clutch is now ready to be loaded.
- 5 A minimum of 1" of excess cable should be exposed beyond the plunger and safety nut. Frayed cable or unwound cable should never be used to support loads. Slight fraying at the exposed ends of the cable is typical.

### Adjustment Instructions:

Loosen safety nut, press in plunger, and the clutch will move up and down the cable freely.

**Warning:** Never adjust the elevation of a hanger assembly while the hanger is under load.

**Caution:** Do not rotate or twist the cable once the clutch has been installed and the safety nut tightened.



### Alternate Installation Instructions:

- 1 Install coupling end of the clutch into a threaded stud (e.g. concrete anchor, bolt, etc.).
- 2 Loosen safety nut and install cable through the safety nut end of the clutch.
- 3 Hand-tighten the safety nut.
- 4 The clutch is now ready to be loaded.
- 5 A minimum of 1" of excess cable should be exposed beyond the plunger and safety nut. Frayed cable or unwound cable should never be used to support loads. Slight fraying at the exposed ends of the cable is typical.

## Coupling End Clutch Fig. C240

**Fig. C240** Coupling End Clutch

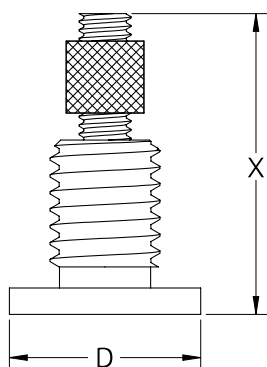
**Size Range:** Cable Size A

**Material:** Brass

**Finish:** Nickel Plated

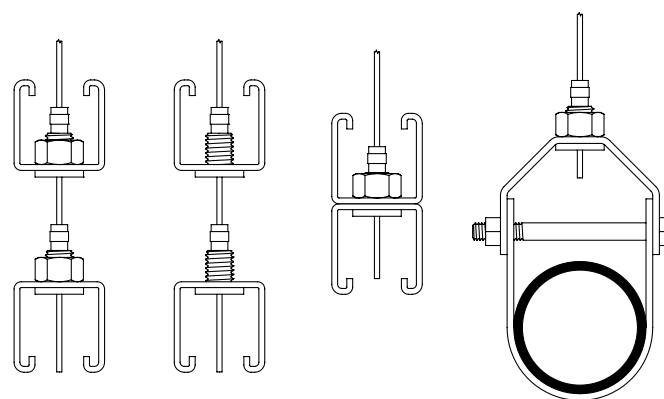
**Service:** A cable clutch designed to attach a cable assembly to Anvil-Strut channel or to a related HVAC or piping support. Designed for use with C100 series cables.

**Ordering:** Specify figure number, size, and description.



**Fig. C240: Loads (Lbs) • Weights (Lbs) • Dimensions (in)**

Clutch Size	Cable Size	Load Rating	Thread	X	D	Approx. Weight
A	A	100	1/2 x 13	1 3/8	7/8	0.05



### Installation Instructions:

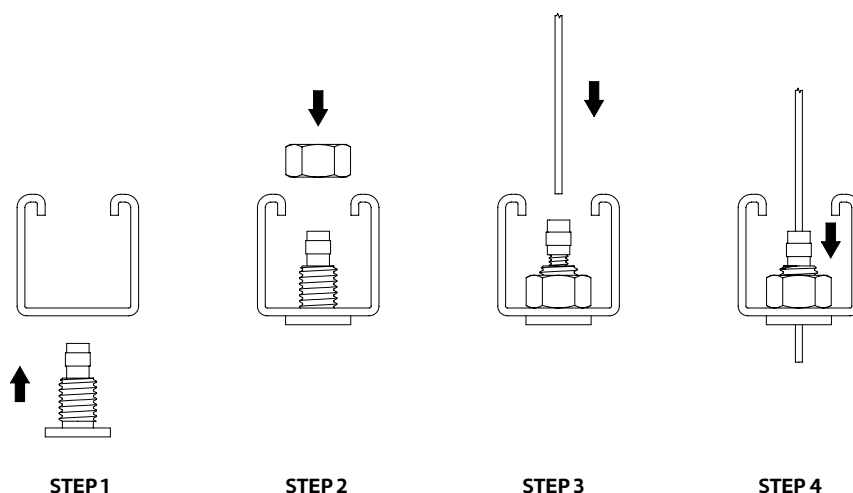
- 1 Install threaded end through a 1/2" hole or channel slot. Keep the plunger and safety nut side up.
- 2 Hand tighten a 1/2 - 13 hex nut over threads.
- 3 Loosen safety nut and install cable through the safety nut end of the clutch.
- 4 Hand tighten the safety nut.
- 5 The clutch is now ready to be loaded.
- 6 A minimum of 1" of excess cable should be exposed beyond the plunger and safety nut. Frayed cable or unwound cable should never be used to support loads. Slight fraying at the exposed ends of the cable is typical.

### Adjustment Instructions:

Loosen safety nut, press in plunger, and the clutch will move up and down the cable freely.

**Warning:** Never adjust the elevation of a hanger assembly while the hanger is under load.

**Caution:** Do not rotate or twist the cable once the clutch has been installed and the safety nut tightened.



## Rectangular Duct Attachment Bracket Fig. C370

**Fig. C370** Rectangular Duct Attachment Bracket

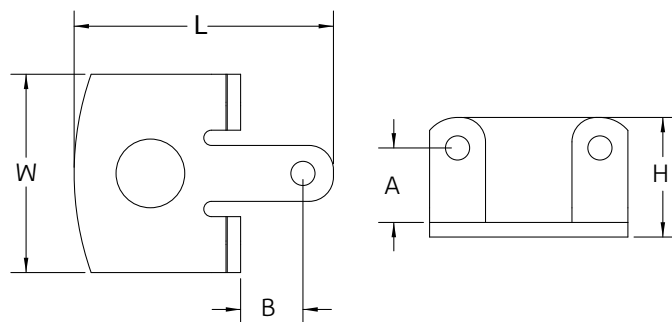
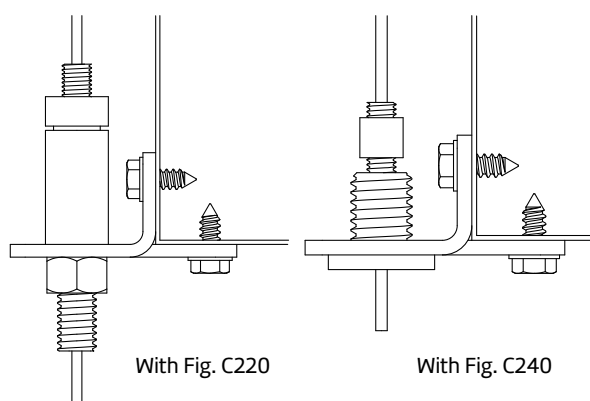
**Size Range:**  $\frac{3}{8}$ ",  $\frac{1}{2}$ "

**Material:** Carbon Steel

**Finish:** Zinc Electroplated per ASTM B633

**Service:** A bracket designed for supporting rectangular duct from C100 series cable. Duct attachment bracket is compatible with C200 series clutches C220 and C240.

**Ordering:** Specify figure number, size, and description.



**Fig. C370: Loads (Lbs) • Dimensions (in)**

Size	Cable Hanger	Load Rating	A	B	L	W	H
$\frac{3}{8}$	C220	100	$\frac{5}{8}$	$\frac{1}{2}$	$2\frac{1}{8}$	$1\frac{5}{8}$	1
$\frac{1}{2}$	C240	200	$\frac{5}{8}$	$\frac{1}{2}$	$2\frac{1}{8}$	$1\frac{5}{8}$	1

### Installation Instructions:

- 1 Mount duct attachment bracket to Fig C370 using (3) #10 self tapping screws (not provided) as shown in the installation diagrams above.
- 2 Follow the applicable installation instructions for the C200 series clutch being utilized.