

# Custom Control Cables



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Custom Control Cables is a division of  
The A. F. Davidson Corporation  
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Houma, LA 70363



## Features & Construction

### Core Constructions

High Performance (HP) 1 x 7 coated core is available in 3, 4 and 6 Series cables. HP Core uses a proprietary coating over 1 x 7 wire rope. This construction offers improved flexibility and higher push loads than armor core construction. Solid stainless steel cores are available in 3 Series push-pull, universal, positive lock and PTO cables. Tension cables use a 1 x 19 HP coated core, while 8 Series push-pull remains armor core.

### Liners

All Felsted® brand cables use polymer liners, available in standard HP cable construction at -65 to +225°F (-54 to +107°C) and HEFT 2 high temperature version at -65 to +300°F (-54 to +149°C). Factory lubrication provides optimum core performance without requiring further service.

*Note: With quick disconnect control head cables, though the conduit/core may be rated to +225°F or +300°F, the control head itself is not intended for these temperature ranges.*

### Stranded Conduit

Multiple oil tempered spring wires are placed in a long lay pattern to protect the liner and inner core, maintain flexibility and withstand extreme compressive and tensile loads. This long lay construction results in minimal deflections during cable operation, assuring precise controlling action to the operator.

### Conduit Jacket

Heavy duty, thick-walled polymer jackets are extruded onto the stranded liner for maximum cable strength. Standard HP cable material is polymer molded to a dark maroon color. HEFT 2 jacket, used in high temperature applications, is a nylon based material molded to a satin black color.

### End Fittings

Corrosion-resistant materials are used throughout to provide maximum life. Standard 3, 4 and 6 Series rods and sleeves are 300 series stainless steel, while hubs are either stainless or aluminum. The 8 Series rods are stainless steel. Sleeves and hubs are aluminum with stainless steel options available for both.

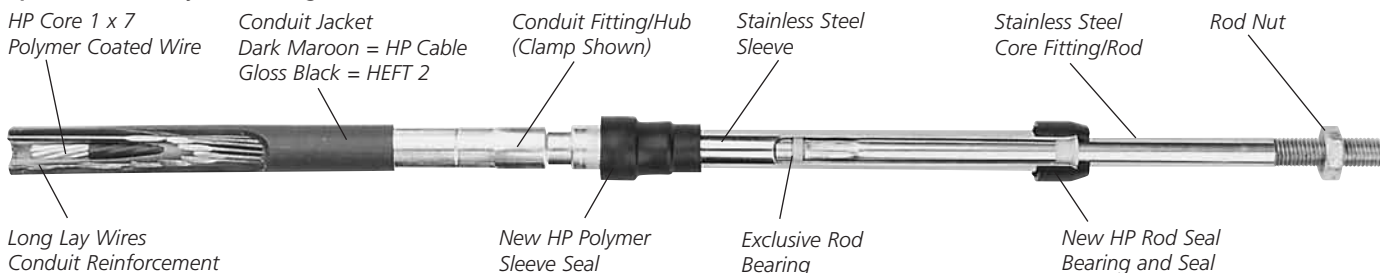
### Seals & Boots

High Performance seals are now standard! Durable custom compounded seals are used to prevent moisture and contaminants from entering the cable. The new High Performance seals outperform all previous seals and are now standard on all cables. The HP seals operate in all temperature extremes, while offering improved performance and efficiency. Tension cables use a durable tear-resistant silicone boot, designed for high cycle use and high temperature.

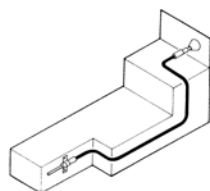
### Rod & Sleeve Bearing

An exclusive polymer rod and sleeve bearing is used to improve efficiency, sealing and cable life by preventing metal-to-metal contact between the rod and sleeve. They also accurately align the rod with the seal to further ensure superior sealing and a longer cable life.

### Specifications subject to change without notice



## Specifications



### Routing/Measuring

Measure the cable along the path it will take from the points where the cable hubs will be anchored. Follow the actual cable path as closely as possible, allowing for the largest practical bend radii.

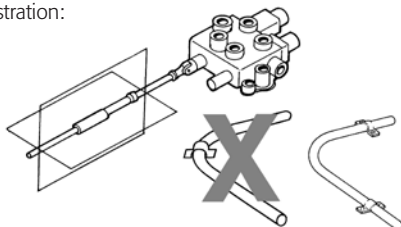
### Optimum Life Bend Radii

| Series | Operating Life Minimum |
|--------|------------------------|
| 3      | 3 inches*              |
| 4      | 5 inches               |
| 6      | 7 inches               |
| 8      | 10 inches              |

\* HP Core: Solid Core has 6" Bend Radii

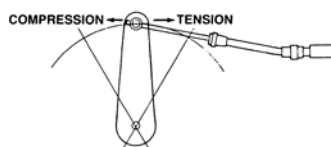
### Installation Notes: Control & Work End

Where a cable is to be connected to objects requiring linear movement only (e.g. spool valves), maximum life and efficiency is achieved by accurately aligning, in both planes, the cable hubs and the controlled object. See illustration:



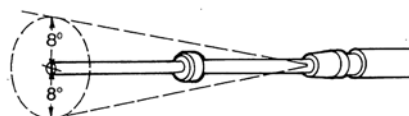
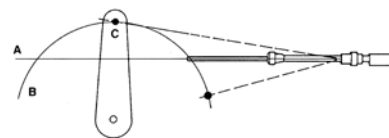
It is important to securely anchor the cable hubs. Looseness of the mounting bracket will be perceived as lost motion "sponginess" and will inhibit detent feel.

Also, clamping in the bend area may reduce bend radii under operating loads. Clamping at tangents to the bend is preferred.



Where the cable is connected to a lever, the cable will be mounted so that it lies on a plane (A) midway on the arc (B) described by the movement of the connection point on the lever (C).

For highest efficiency and long life in lever actuating operations, install the cable so that the highest loads are operated with tension (pulling), rather than compression (pushing).



All Felsted push-pull cables with rod and sleeve type end fittings have a built-in swivel to handle deflections up to 8°.

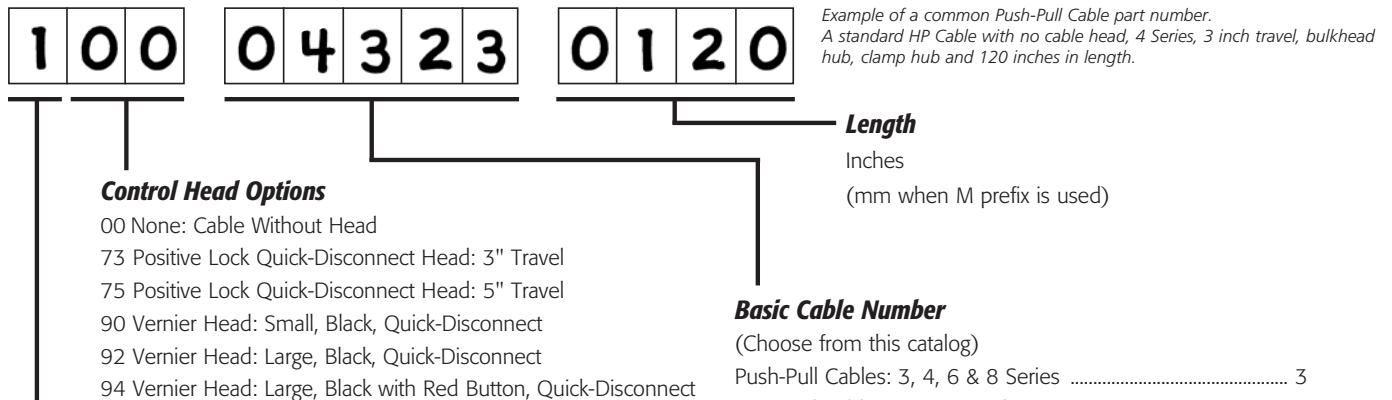
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## Cable Types/Options/Part Number System How to Order HP Cables: Part Number System

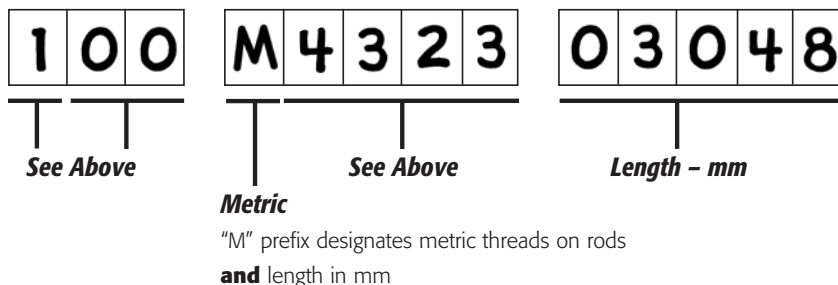
### Standard/Imperial



### Cable Types

- 0 Solid Core (3 Series)
- 1 HP Cable Standard (Temperature –65 to +225°F/–54 to +107°C)
- 2 All Stainless Steel Fittings
- 3 HEFT 2 (High Temperature –65 to +300°F/–54 to +149°C)
- 4 HEFT 2 (High Temperature –65 to +300°F/–54 to +149°C)  
With all Stainless Steel Fittings

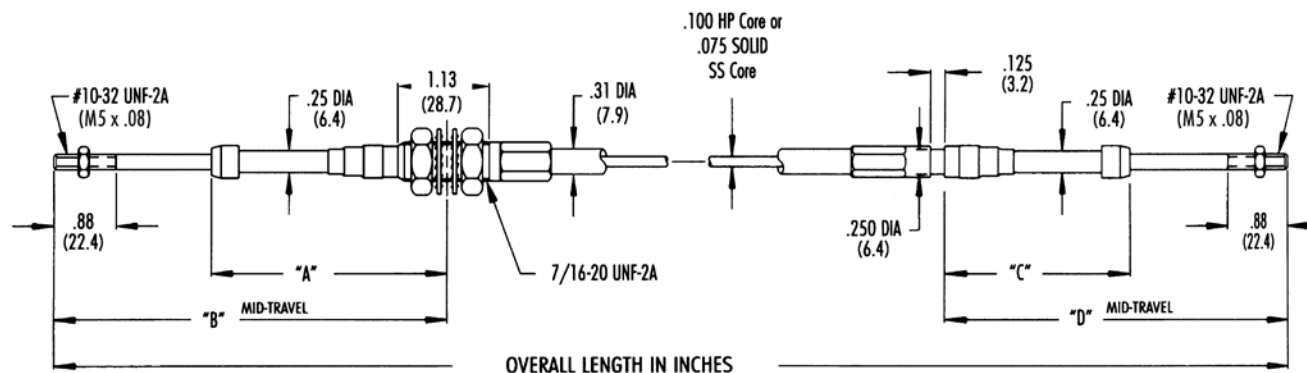
### Metric



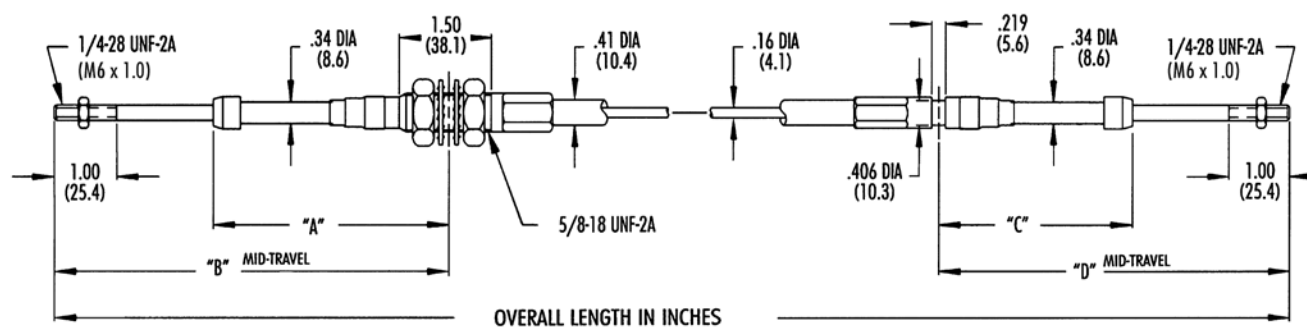
## Push-Pull HP Cables

*Can be custom assembled by local Orscheln® F.A.S.T.® distributors*

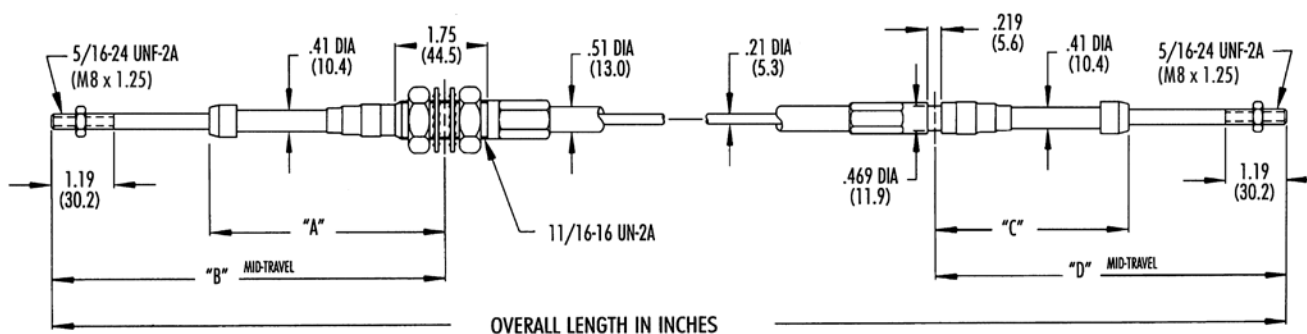
### 3 SERIES



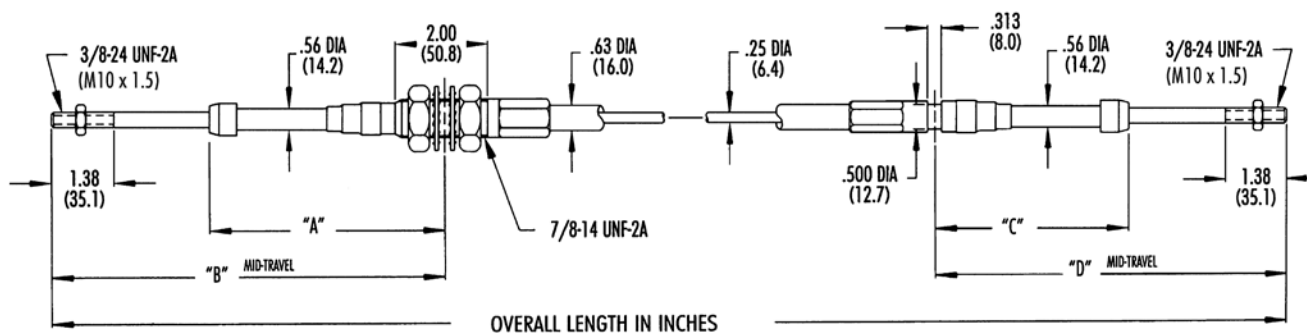
### 4 SERIES



### 6 SERIES



### 8 SERIES



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- Temperature Range:  
–65 to +225°F / –54 to +107°C Std.  
–65 to +300°F / –54 to +149°C HEFT 2
- Low Backlash
- High Efficiency
- Conduit Color:  
Dark Maroon – HP Cable Std.  
Satin Black – HEFT 2

### 3 SERIES

**HP Core  
or Solid Core  
10-32 Thread  
3" Bend Radii (HP)  
6" Bend Radii  
(Solid Core)**

#### Specifications

| Travel<br>Inch/(mm) | Bulkhead End         |                      | Clamp End            |                      | Operating Loads  |                  |
|---------------------|----------------------|----------------------|----------------------|----------------------|------------------|------------------|
|                     | DIM "A"<br>Inch/(mm) | DIM "B"<br>Inch/(mm) | DIM "C"<br>Inch/(mm) | DIM "D"<br>Inch/(mm) | Push<br>Lbs./(N) | Pull<br>Lbs./(N) |
| 1.0<br>(25.4)       | 3.00<br>(76.2)       | 4.44<br>(112.8)      | 2.31<br>(58.7)       | 3.75<br>(95.3)       | 80<br>(356)      | 120<br>(534)     |
| 2.0<br>(50.8)       | 4.00<br>(101.6)      | 5.94<br>(150.9)      | 3.31<br>(84.1)       | 5.25<br>(133.4)      | 80<br>(356)      | 120<br>(534)     |
| 3.0<br>(76.2)       | 5.00<br>(127.0)      | 7.44<br>(189.0)      | 4.31<br>(109.5)      | 6.75<br>(171.5)      | 70<br>(311)      | 120<br>(534)     |
| 4.0<br>(101.6)      | 6.00<br>(152.4)      | 8.94<br>(227.1)      | 5.31<br>(134.9)      | 8.25<br>(209.6)      | 60<br>(267)      | 120<br>(534)     |
| 5.0<br>(127.0)      | 7.00<br>(177.8)      | 10.44<br>(265.2)     | 6.31<br>(160.3)      | 9.75<br>(247.7)      | 45<br>(200)      | 120<br>(534)     |
| 6.0<br>(152.4)      | 8.00<br>(203.2)      | 11.94<br>(303.3)     | 7.31<br>(185.6)      | 11.25<br>(285.7)     | 35<br>(155.8)    | 120<br>(534)     |
| 7.0<br>(177.8)      | 9.00<br>(228.6)      | 13.44<br>(341.4)     | 8.31<br>(211.0)      | 12.75<br>(323.8)     | 25<br>(111.3)    | 120<br>(534)     |

### 4 SERIES

**HP Core  
1/4-28 Thread  
5" Bend Radii**

#### Specifications

| Travel<br>Inch/(mm) | Bulkhead End         |                      | Clamp End            |                      | Operating Loads  |                  |
|---------------------|----------------------|----------------------|----------------------|----------------------|------------------|------------------|
|                     | DIM "A"<br>Inch/(mm) | DIM "B"<br>Inch/(mm) | DIM "C"<br>Inch/(mm) | DIM "D"<br>Inch/(mm) | Push<br>Lbs./(N) | Pull<br>Lbs./(N) |
| 1.0<br>(25.4)       | 3.13<br>(79.5)       | 4.69<br>(119.1)      | 2.50<br>(63.5)       | 4.06<br>(103.1)      | 150<br>(667)     | 230<br>(1023)    |
| 2.0<br>(50.8)       | 4.13<br>(104.9)      | 6.19<br>(157.2)      | 3.50<br>(88.9)       | 5.56<br>(141.2)      | 150<br>(667)     | 230<br>(1023)    |
| 3.0<br>(76.2)       | 5.13<br>(130.3)      | 7.69<br>(195.3)      | 4.50<br>(114.3)      | 7.06<br>(179.3)      | 125<br>(556)     | 230<br>(1023)    |
| 4.0<br>(101.6)      | 6.13<br>(155.7)      | 9.19<br>(233.4)      | 5.50<br>(139.7)      | 8.56<br>(217.4)      | 100<br>(445)     | 230<br>(1023)    |
| 5.0<br>(127.0)      | 7.13<br>(181.1)      | 10.69<br>(271.5)     | 6.50<br>(165.1)      | 10.06<br>(255.5)     | 75<br>(334)      | 230<br>(1023)    |
| 6.0<br>(152.4)      | 8.13<br>(206.5)      | 12.19<br>(309.6)     | 7.50<br>(190.5)      | 11.56<br>(293.6)     | 55<br>(244.8)    | 230<br>(1023)    |
| 7.0<br>(177.8)      | 9.13<br>(231.9)      | 13.6<br>(347.7)      | 8.50<br>(215.9)      | 13.06<br>(331.7)     | 45<br>(200.3)    | 230<br>(1023)    |

### 6 SERIES

**HP Core  
5/16-24 Thread  
7" Bend Radii**

#### Specifications

| Travel<br>Inch/(mm) | Bulkhead End         |                      | Clamp End            |                      | Operating Loads  |                  |
|---------------------|----------------------|----------------------|----------------------|----------------------|------------------|------------------|
|                     | DIM "A"<br>Inch/(mm) | DIM "B"<br>Inch/(mm) | DIM "C"<br>Inch/(mm) | DIM "D"<br>Inch/(mm) | Push<br>Lbs./(N) | Pull<br>Lbs./(N) |
| 1.0<br>(25.4)       | 3.25<br>(82.6)       | 5.00<br>(127.0)      | 2.56<br>(65.0)       | 4.31<br>(109.5)      | 250<br>(1112)    | 400<br>(1779)    |
| 2.0<br>(50.8)       | 4.25<br>(108.0)      | 6.50<br>(165.1)      | 3.56<br>(90.4)       | 5.81<br>(147.6)      | 250<br>(1112)    | 400<br>(1779)    |
| 3.0<br>(76.2)       | 5.25<br>(133.4)      | 8.00<br>(203.2)      | 4.56<br>(115.8)      | 7.31<br>(185.7)      | 210<br>(934)     | 400<br>(1779)    |
| 4.0<br>(101.6)      | 6.25<br>(158.8)      | 9.50<br>(241.3)      | 5.56<br>(141.2)      | 8.81<br>(223.8)      | 170<br>(756)     | 400<br>(1779)    |
| 5.0<br>(127.0)      | 7.25<br>(184.2)      | 11.00<br>(279.4)     | 6.56<br>(166.6)      | 10.31<br>(261.9)     | 130<br>(578)     | 400<br>(1779)    |
| 6.0<br>(152.4)      | 8.25<br>(209.6)      | 12.50<br>(317.5)     | 7.56<br>(192.0)      | 11.81<br>(299.9)     | 90<br>(400.5)    | 400<br>(1779)    |
| 7.0<br>(177.8)      | 9.25<br>(235)        | 14.00<br>(355.6)     | 8.56<br>(217.4)      | 13.31<br>(338.0)     | 60<br>(267)      | 400<br>(1779)    |

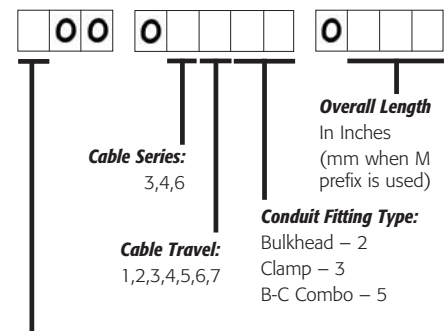
### 8 SERIES

**Armor Core  
3/8-24 Thread  
10" Bend Radii**

#### Specifications

| Travel<br>Inch/(mm) | Bulkhead End         |                      | Clamp End            |                      | Operating Loads  |                  |
|---------------------|----------------------|----------------------|----------------------|----------------------|------------------|------------------|
|                     | DIM "A"<br>Inch/(mm) | DIM "B"<br>Inch/(mm) | DIM "C"<br>Inch/(mm) | DIM "D"<br>Inch/(mm) | Push<br>Lbs./(N) | Pull<br>Lbs./(N) |
| 1.0<br>(25.4)       | 3.69<br>(93.7)       | 5.56<br>(141.2)      | 3.19<br>(81.0)       | 5.06<br>(128.5)      | 700<br>(3114)    | 1000<br>(4448)   |
| 2.0<br>(50.8)       | 4.69<br>(119.1)      | 7.06<br>(179.3)      | 4.19<br>(106.4)      | 6.56<br>(166.6)      | 700<br>(3114)    | 1000<br>(4448)   |
| 3.0<br>(76.2)       | 5.69<br>(144.5)      | 8.56<br>(217.4)      | 5.19<br>(131.8)      | 8.06<br>(204.7)      | 600<br>(2669)    | 1000<br>(4448)   |
| 4.0<br>(101.6)      | 6.69<br>(169.9)      | 10.06<br>(255.5)     | 6.19<br>(157.2)      | 9.56<br>(242.8)      | 500<br>(2224)    | 1000<br>(4448)   |
| 5.0<br>(127.0)      | 7.69<br>(195.3)      | 11.56<br>(293.6)     | 7.19<br>(182.6)      | 11.06<br>(280.9)     | 400<br>(1779)    | 1000<br>(4448)   |
| 6.0<br>(152.4)      | 8.69<br>(220.7)      | 13.06<br>(331.7)     | 8.19<br>(208.0)      | 12.56<br>(319.0)     | 275<br>(1223.8)  | 1000<br>(4448)   |
| 7.0<br>(177.8)      | 9.69<br>(246.1)      | 14.56<br>(369.8)     | 9.19<br>(233.4)      | 14.06<br>(357.1)     | 150<br>(667.5)   | 1000<br>(4448)   |

#### Building a Part Number

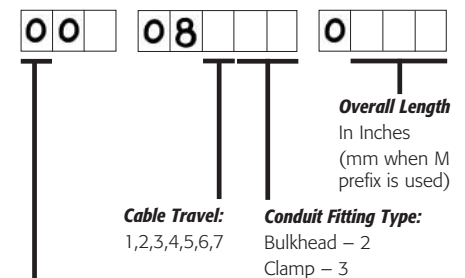


#### Cable Type:

- 0 Solid Core (3 Series Only)
- 1 High Performance (Standard)
- 2 All Stainless Steel Fittings
- 3 HEFT 2 (High Performance & High Temperature)
- 4 HEFT 2 and All Stainless Steel Fittings

**M** Metric – see pg. 2

#### 8 Series Options Building a Part Number



#### Cable Type:

- 1 Stainless Steel Rods & HP Rod Seal (Standard)
- 2 All Stainless Steel Fittings, Hardware & HP Rod Seal
- 4 All Stainless Steel Core & Conduit Strand  
Stainless Steel Fittings, Hardware & HP Rod Seal  
(Premium)

HEFT 2 Not available in 8 Series

**M** Metric – see pg. 2

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Can be custom assembled by local Orscheln® F.A.S.T.® distributors

3 SERIES LIGHT DUTY

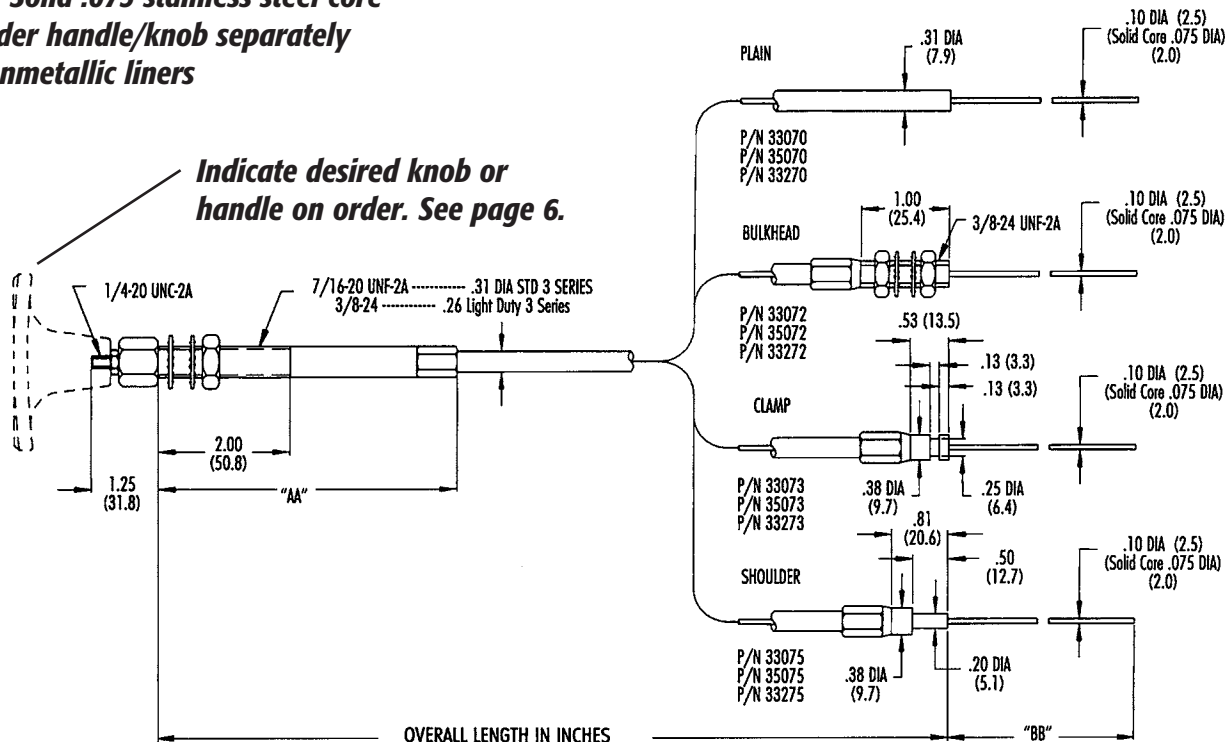
Choice of core type:

HP Core – Polymer coated 1 x 7

Solid .075 stainless steel core

Order handle/knob separately

Nonmetallic liners



Specifications

| Travel<br>Inch/(mm) | DIM "AA"<br>Inch/(mm) | DIM "BB"<br>Inch/(mm) |
|---------------------|-----------------------|-----------------------|
| 3.0<br>(76.2)       | 4.50<br>(114.3)       | 5.0<br>(127.0)        |
| 5.0<br>(127.0)      | 6.50<br>(165.1)       | 8.0<br>(203.2)        |



Cable Only

Building a Part Number

|   |   |   |  |   |  |   |  |  |
|---|---|---|--|---|--|---|--|--|
| 0 | 0 | 3 |  | 7 |  | 0 |  |  |
|---|---|---|--|---|--|---|--|--|

Cable Travel:  
3,5

Overall Length  
In Inches

Conduit Size:  
0 = .31 dia. std.  
2 = .26 dia.  
(Available with  
cable type 0,  
solid core only)

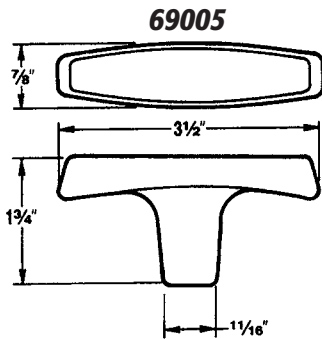
Conduit Fitting Type:  
Plain - 0  
Bulkhead - 2  
Clamp - 3  
Shoulder - 5

Cable Type:  
0 Solid Core (3 Series Only) .075 dia.  
1 High Performance (Standard)  
3 HEFT 2 (High Performance & High Temperature)

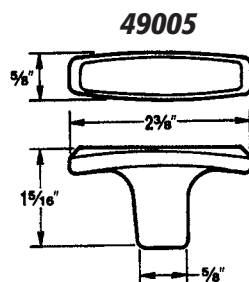
## T-Handles

### Tough Nylon Material

#### T-HANDLES



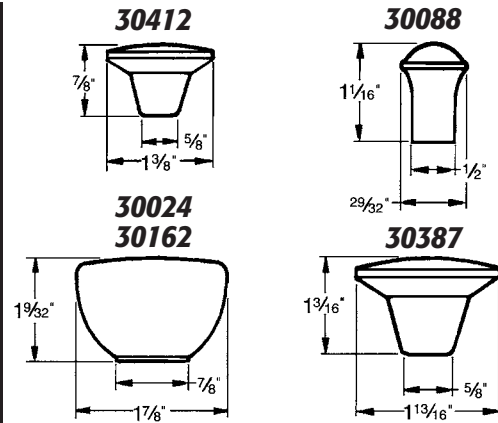
| Base Part # | Type | Color |
|-------------|------|-------|
| 49005-1     | A    | Black |
| 49005-2     | B    | Red   |
| 69005-1     | C    | Black |
| 69005-2     | D    | Red   |



## Knobs

### Rugged Phenolic Material

#### KNOBS



| Base Part # | Type | Color | Legend I.D. | Thread Size |
|-------------|------|-------|-------------|-------------|
| 30024-0     | E    | Black | 01          | 1           |
| 30088-1     | F    | Black | 01          | 1           |
| 30088-2     | G    | Red   | 01          | 1           |
| 30162-0     | H    | Red   | 06          | 1           |
| 30387-1     | I    | Black | 01          | 1           |
| 30387-2     | J    | Red   | 01          | 1           |
| 30412-0     | K    | Black | 01          | 1           |

### T-Handle/Knob Only Building a Part Number

|                  |  |  |  |  |  |             |  |  |
|------------------|--|--|--|--|--|-------------|--|--|
|                  |  |  |  |  |  |             |  |  |
| Base Part Number |  |  |  |  |  | Thread Size |  |  |

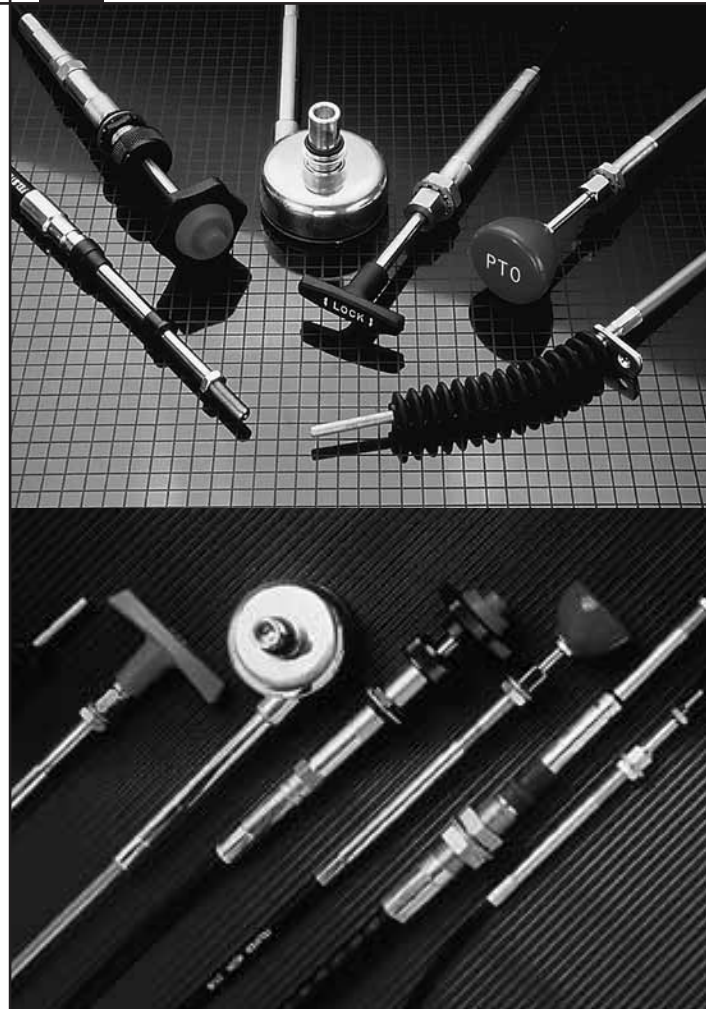
Thread Size  
 1 1/4-20 UNC-2B  
 2 5/16-24 UNF-2B  
 3 3/8-24 UNF-2B  
 4 .358 hole with set screw

#### Legend Identification

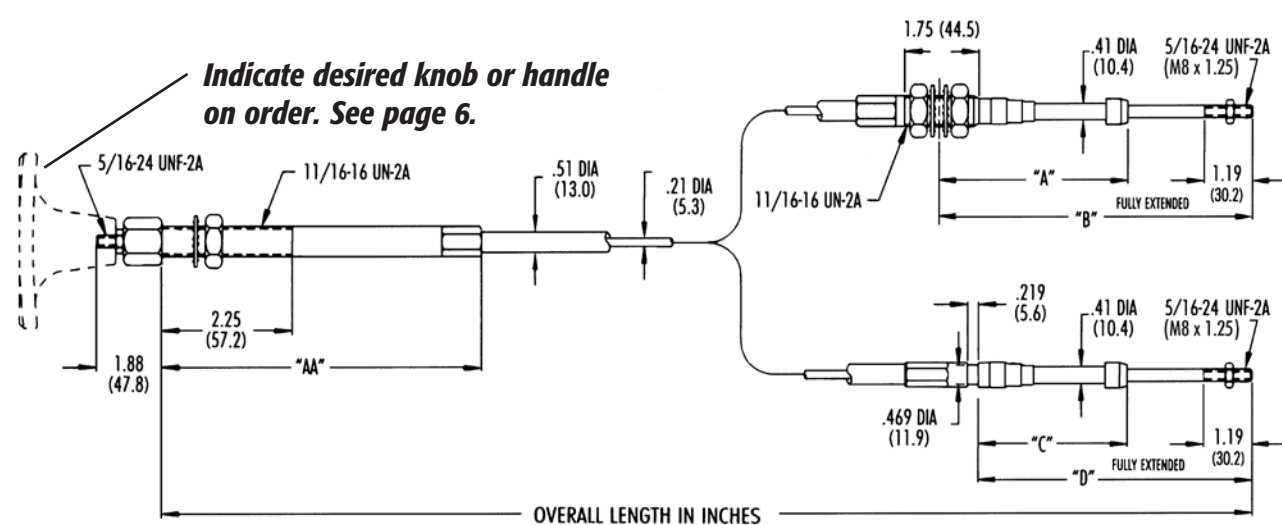
|                   |                   |                 |
|-------------------|-------------------|-----------------|
| 01 Plain          | 11 Cold Start     | 19 Overdrive    |
| 02 Stop           | 12 Pump           | 20 Aux. Release |
| 03 Shut-Off       | 13 Chute          | (Lock)          |
| 04 Throttle       | 14 Fire           | 21 Rear Door    |
| 05 Choke          | 15 Start          | (Lock)          |
| 06 PTO            | 16 Hood           | 22 Throttle     |
| 07 Emergency Stop | 17 Emergency Fuel | (Lock)          |
| 08 Engine Stop    | Shut-Off          | 23 Hatch        |
| 09 (Lock)         |                   | (Lock)          |
| 10 Disconnect     |                   |                 |

Note: 01 Plain T-handle is a stock item. Other T-handles may have minimum order quantities and special order long lead time.

Note: To order Positive Lock Spare Handle 49005-1094 w/set screw use part #30073.



# HEAVY DUTY 6 SERIES





- Heavy Duty: 3, 4 & 6 Series threaded end rods
- Applications: throttle, choke, engine stop, fuel shut-off, latches
- Temperature Range:
  - 65 to +225°F / –54 to +107°C Std.
  - 65 to +300°F / –54 to +149°C HEFT 2
- Wide variety of Handles & Knobs

## HEAVY DUTY 3 SERIES

### Choice of Core Type

**HP Core – polymer coated 1 x 7**

**Solid .075 stainless steel core**

**10-32 Threaded rod (output end)**

### Specifications

| Travel         | DIM "AA"        | Bulkhead End         |                      | Clamp End            |                      | Operating Loads  |                  |
|----------------|-----------------|----------------------|----------------------|----------------------|----------------------|------------------|------------------|
| Inch/(mm)      | Inch/(mm)       | DIM "A"<br>Inch/(mm) | DIM "B"<br>Inch/(mm) | DIM "C"<br>Inch/(mm) | DIM "D"<br>Inch/(mm) | Push<br>Lbs./(N) | Pull<br>Lbs./(N) |
| 1.0<br>(25.4)  | 4.50<br>(114.3) | 3.00<br>(76.2)       | 4.94<br>(125.5)      | 2.31<br>(58.7)       | 4.25<br>(108.0)      | 60<br>(267)      | 60<br>(267)      |
| 2.0<br>(50.8)  | 4.50<br>(114.3) | 4.00<br>(101.6)      | 6.94<br>(176.3)      | 3.31<br>(84.1)       | 6.25<br>(158.8)      | 60<br>(267)      | 60<br>(267)      |
| 3.0<br>(76.2)  | 4.50<br>(114.3) | 5.00<br>(127.0)      | 8.94<br>(227.1)      | 4.31<br>(109.5)      | 8.25<br>(209.6)      | 60<br>(267)      | 60<br>(267)      |
| 4.0<br>(101.6) | 6.50<br>(165.1) | 6.00<br>(152.4)      | 10.94<br>(277.9)     | 5.31<br>(134.9)      | 10.25<br>(260.4)     | 60<br>(267)      | 60<br>(267)      |
| 5.0<br>(127.0) | 6.50<br>(165.1) | 7.00<br>(177.8)      | 12.94<br>(328.7)     | 6.31<br>(160.3)      | 12.25<br>(311.2)     | 45<br>(200)      | 60<br>(267)      |

## HEAVY DUTY 4 SERIES

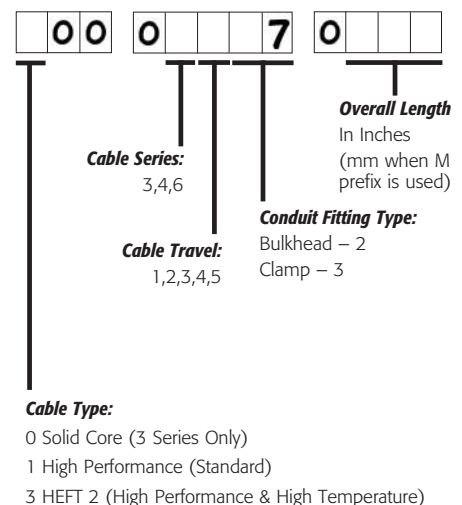
### HP Core

**1/4" – 28 Threaded rod (output end)**

### Specifications

| Travel         | DIM "AA"        | Bulkhead End         |                      | Clamp End            |                      | Operating Loads  |                  |
|----------------|-----------------|----------------------|----------------------|----------------------|----------------------|------------------|------------------|
| Inch/(mm)      | Inch/(mm)       | DIM "A"<br>Inch/(mm) | DIM "B"<br>Inch/(mm) | DIM "C"<br>Inch/(mm) | DIM "D"<br>Inch/(mm) | Push<br>Lbs./(N) | Pull<br>Lbs./(N) |
| 1.0<br>(25.4)  | 5.19<br>(131.8) | 3.13<br>(79.5)       | 5.19<br>(131.8)      | 2.50<br>(63.5)       | 4.56<br>(115.8)      | 120<br>(534)     | 120<br>(534)     |
| 2.0<br>(50.8)  | 5.19<br>(131.8) | 4.13<br>(104.9)      | 7.19<br>(182.6)      | 3.50<br>(88.9)       | 6.56<br>(166.6)      | 120<br>(534)     | 120<br>(534)     |
| 3.0<br>(76.2)  | 5.19<br>(131.8) | 5.13<br>(130.3)      | 9.19<br>(233.4)      | 4.50<br>(114.3)      | 8.56<br>(217.4)      | 120<br>(534)     | 120<br>(534)     |
| 4.0<br>(101.6) | 7.19<br>(182.6) | 6.13<br>(155.7)      | 11.19<br>(284.2)     | 5.50<br>(139.7)      | 10.56<br>(268.2)     | 100<br>(445)     | 120<br>(534)     |
| 5.0<br>(127.0) | 7.19<br>(182.6) | 7.13<br>(181.1)      | 13.19<br>(335.0)     | 6.50<br>(165.1)      | 12.56<br>(319.0)     | 75<br>(334)      | 120<br>(534)     |

## Building a Part Number



### Cable Type:

0 Solid Core (3 Series Only)

1 High Performance (Standard)

3 HEFT 2 (High Performance & High Temperature)

**M** Metric – see pg. 2

## HEAVY DUTY 6 SERIES

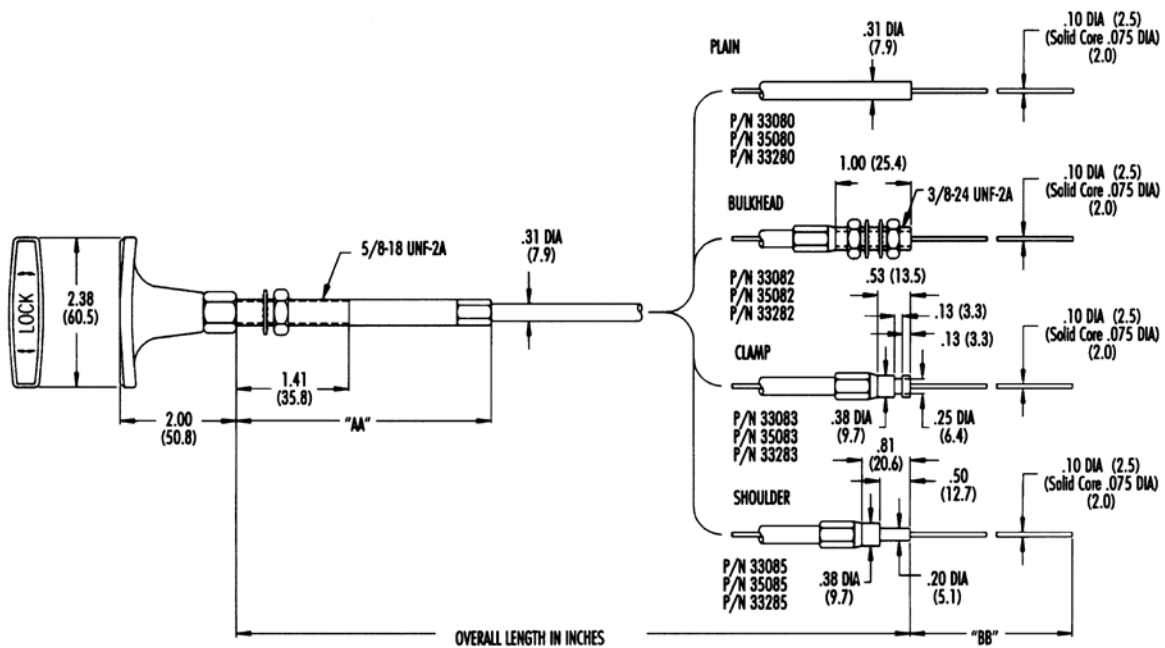
### HP Core

**5/16" – 28 Threaded rod (output end)**

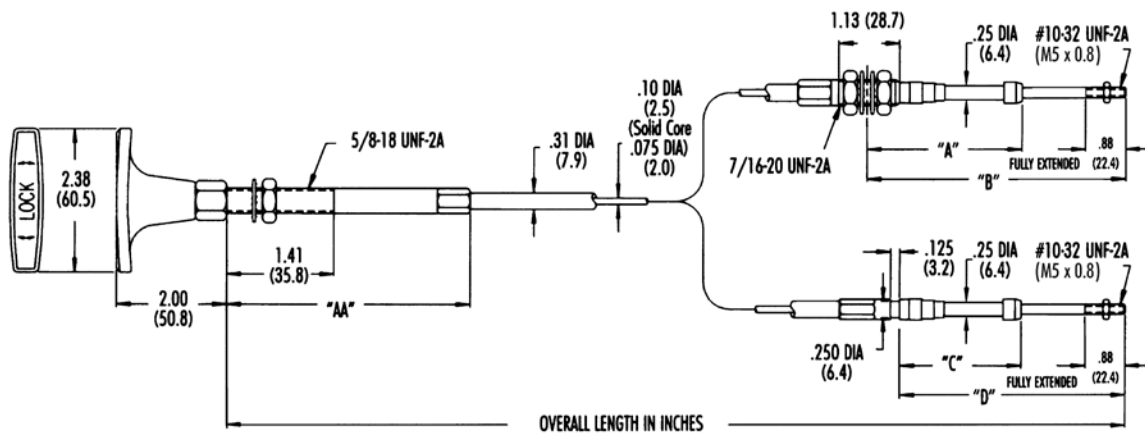
### Specifications

| Travel         | DIM "AA"        | Bulkhead End         |                      | Clamp End            |                      | Operating Loads  |                  |
|----------------|-----------------|----------------------|----------------------|----------------------|----------------------|------------------|------------------|
| Inch/(mm)      | Inch/(mm)       | DIM "A"<br>Inch/(mm) | DIM "B"<br>Inch/(mm) | DIM "C"<br>Inch/(mm) | DIM "D"<br>Inch/(mm) | Push<br>Lbs./(N) | Pull<br>Lbs./(N) |
| 1.0<br>(25.4)  | 5.19<br>(131.8) | 3.25<br>(82.6)       | 5.50<br>(139.7)      | 2.56<br>(65.0)       | 4.81<br>(122.2)      | 225<br>(1001)    | 225<br>(1001)    |
| 2.0<br>(50.8)  | 5.19<br>(131.8) | 4.25<br>(108.0)      | 7.50<br>(190.5)      | 3.56<br>(90.4)       | 6.81<br>(173.0)      | 225<br>(1001)    | 225<br>(1001)    |
| 3.0<br>(76.2)  | 5.19<br>(131.8) | 5.25<br>(133.4)      | 9.50<br>(241.3)      | 4.56<br>(115.8)      | 8.81<br>(223.8)      | 210<br>(934)     | 225<br>(1001)    |
| 4.0<br>(101.6) | 7.19<br>(182.6) | 6.25<br>(158.8)      | 11.50<br>(292.1)     | 5.56<br>(141.2)      | 10.81<br>(274.6)     | 170<br>(756)     | 225<br>(1001)    |
| 5.0<br>(127.0) | 7.19<br>(182.6) | 7.25<br>(184.2)      | 13.50<br>(342.9)     | 6.56<br>(166.6)      | 12.81<br>(325.4)     | 130<br>(578)     | 225<br>(1001)    |

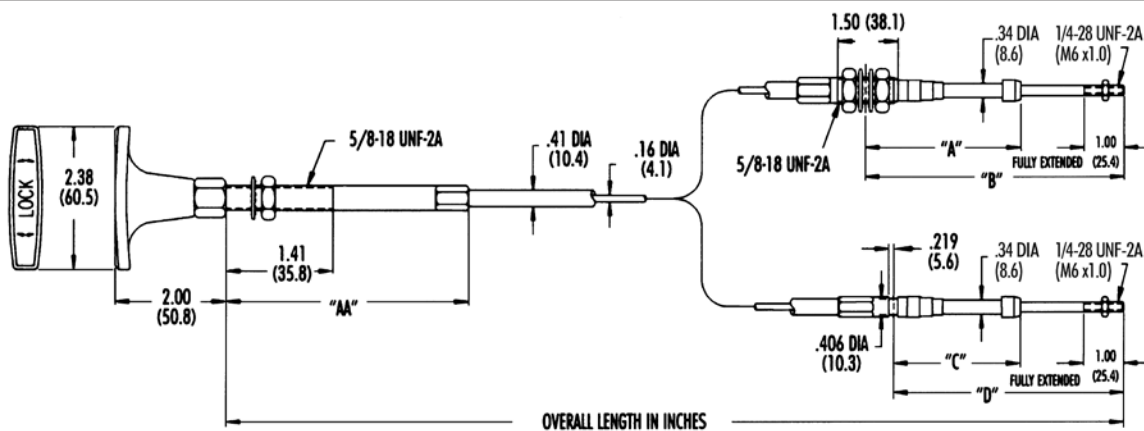
**LIGHT DUTY 3 SERIES**



**HEAVY DUTY 3 SERIES**



**4 SERIES**



- Light Duty: Exposed Solid Core or 1 x 7 HP Core  
HP Core: Choose for best flexibility, lower backlash and higher efficiency. Polymer coated 1 x 7 wire rope.  
Solid Core: .075 solid stainless steel core
- Heavy Duty: 3 & 4 Series threaded end rods
- Applications: throttle, choke, engine stop, fuel shut-off, latches

- Temperature Range:  
–65 to +225°F / –54 to +107°C Std.  
–65 to +300°F / –54 to +149°C HEFT 2
- T-Handle locks in either direction
- Quick Disconnect Positive Lock Head: See verniers page 12
- Replacement T-Handle: 49005-1094 with 30073 set screw

## LIGHT DUTY 3 SERIES

### Choice of core type:

**HP Core – Polymer coated 1 x 7**

**Solid .075 stainless steel core**

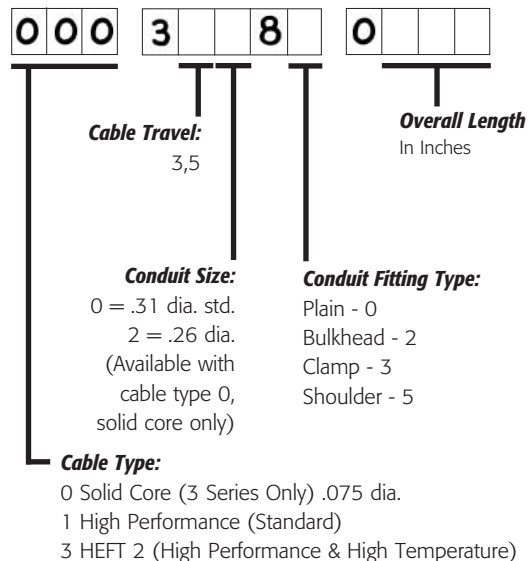
### Exposed core

### Choice of 4 cable ends

#### Specifications

| Travel<br>Inch/(mm) | DIM "AA"<br>Inch/(mm) | DIM "BB"<br>Inch/(mm) |
|---------------------|-----------------------|-----------------------|
| 3.0<br>(76.2)       | 5.25<br>(133.4)       | 5.00<br>(127.0)       |
| 5.0<br>(127.0)      | 7.25<br>(184.2)       | 8.00<br>(203.2)       |

#### Building a Part Number



## HEAVY DUTY 3 SERIES

### Choice of core type:

**HP Core – Polymer coated 1 x 7**

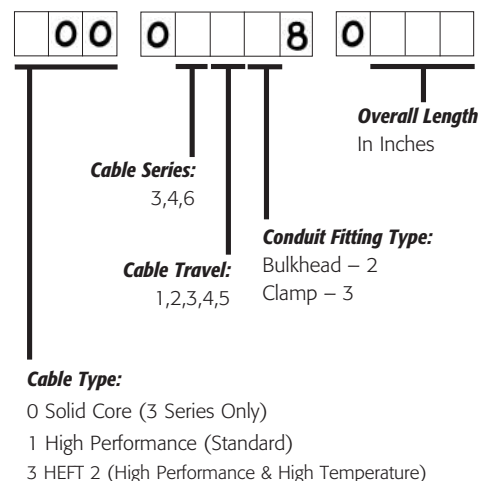
**Solid .075 stainless steel core**

### 10-32 Threaded rod (output end)

#### Specifications

| Travel         | DIM "AA"        | Bulkhead End         |                      | Clamp End            |                      | Operating Loads  |                  |
|----------------|-----------------|----------------------|----------------------|----------------------|----------------------|------------------|------------------|
| Inch/(mm)      | Inch/(mm)       | DIM "A"<br>Inch/(mm) | DIM "B"<br>Inch/(mm) | DIM "C"<br>Inch/(mm) | DIM "D"<br>Inch/(mm) | Push<br>Lbs./(N) | Pull<br>Lbs./(N) |
| 1.0<br>(25.4)  | 5.25<br>(133.4) | 3.00<br>(76.2)       | 4.94<br>(125.5)      | 2.31<br>(58.7)       | 4.25<br>(108.0)      | 60<br>(267)      | 60<br>(267)      |
| 2.0<br>(50.8)  | 5.25<br>(133.4) | 4.00<br>(101.6)      | 6.94<br>(176.3)      | 3.31<br>(84.1)       | 6.25<br>(158.8)      | 60<br>(267)      | 60<br>(267)      |
| 3.0<br>(76.2)  | 5.25<br>(133.4) | 5.00<br>(127.0)      | 8.94<br>(227.1)      | 4.31<br>(109.5)      | 8.25<br>(209.6)      | 60<br>(267)      | 60<br>(267)      |
| 4.0<br>(101.6) | 7.25<br>(184.2) | 6.00<br>(152.4)      | 10.94<br>(277.9)     | 5.31<br>(134.9)      | 10.25<br>(260.4)     | 60<br>(267)      | 60<br>(267)      |
| 5.0<br>(127.0) | 7.25<br>(184.2) | 7.00<br>(177.8)      | 12.94<br>(328.7)     | 6.31<br>(160.3)      | 12.25<br>(311.2)     | 45<br>(200)      | 60<br>(267)      |

#### Building a Part Number



## 4 SERIES

### HP Core

### 1/4" – 28 Threaded rod (output end)

#### Specifications

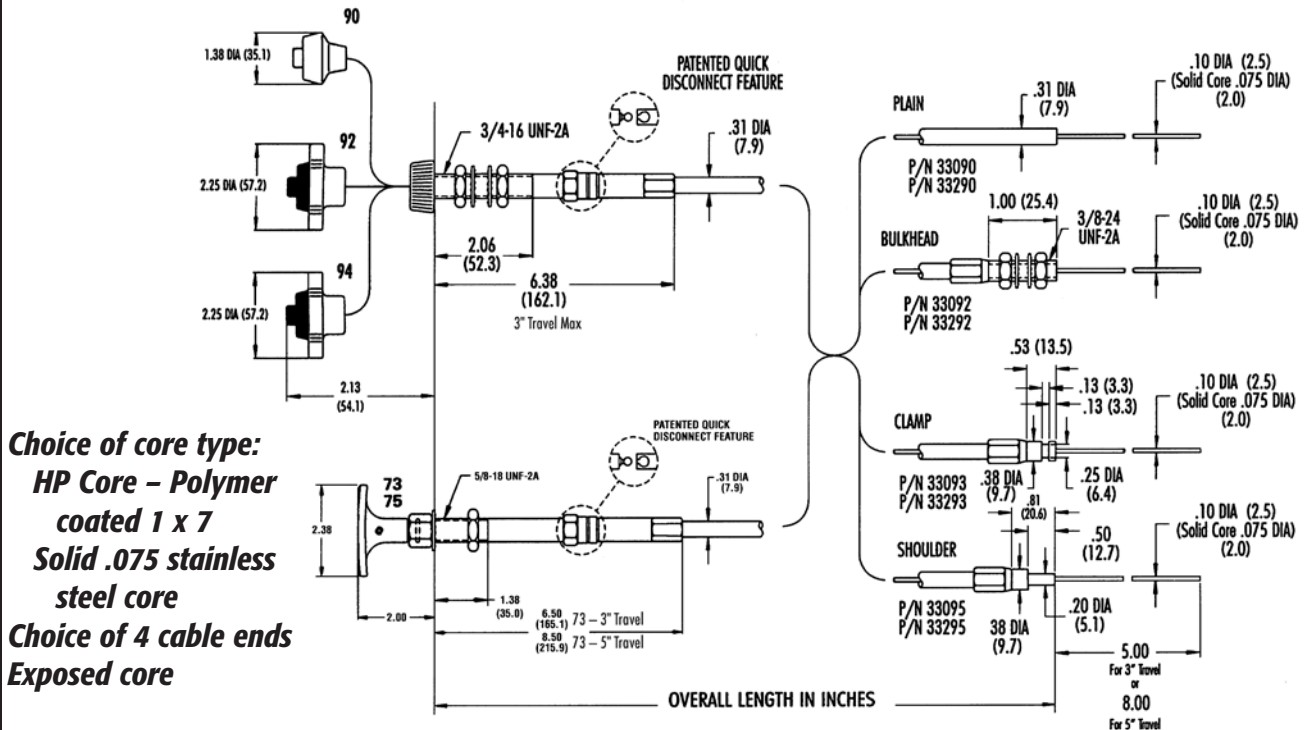
| Travel         | DIM "AA"        | Bulkhead End         |                      | Clamp End            |                      | Operating Loads  |                  |
|----------------|-----------------|----------------------|----------------------|----------------------|----------------------|------------------|------------------|
| Inch/(mm)      | Inch/(mm)       | DIM "A"<br>Inch/(mm) | DIM "B"<br>Inch/(mm) | DIM "C"<br>Inch/(mm) | DIM "D"<br>Inch/(mm) | Push<br>Lbs./(N) | Pull<br>Lbs./(N) |
| 1.0<br>(25.4)  | 5.25<br>(133.4) | 3.13<br>(79.5)       | 5.19<br>(131.8)      | 2.50<br>(63.5)       | 4.56<br>(115.8)      | 120<br>(534)     | 120<br>(534)     |
| 2.0<br>(50.8)  | 5.25<br>(133.4) | 4.13<br>(104.9)      | 7.19<br>(182.6)      | 3.50<br>(88.9)       | 6.56<br>(166.6)      | 120<br>(534)     | 120<br>(534)     |
| 3.0<br>(76.2)  | 5.25<br>(133.4) | 5.13<br>(130.3)      | 9.19<br>(233.4)      | 4.50<br>(114.3)      | 8.56<br>(217.4)      | 120<br>(534)     | 120<br>(534)     |
| 4.0<br>(101.6) | 7.25<br>(184.2) | 6.13<br>(155.7)      | 11.19<br>(284.2)     | 5.50<br>(139.7)      | 10.56<br>(268.2)     | 100<br>(445)     | 120<br>(534)     |
| 5.0<br>(127.0) | 7.25<br>(184.2) | 7.13<br>(181.1)      | 13.19<br>(335.0)     | 6.50<br>(165.1)      | 12.56<br>(319.0)     | 75<br>(334)      | 120<br>(534)     |

**M** Metric – see pg. 2

## Quick Disconnect HP Cables

Can be custom assembled by local Orscheln® F.A.S.T.® distributors

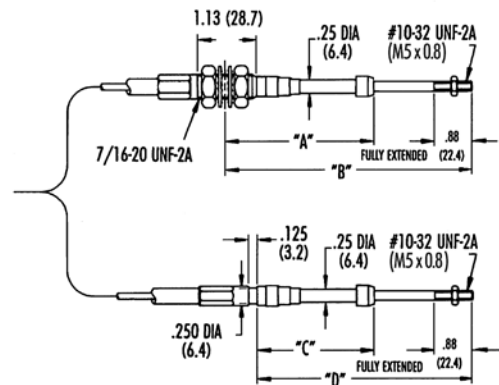
### LIGHT DUTY 3 SERIES



### HEAVY DUTY 3 SERIES

**Choice of core type:**  
 HP Core – Polymer coated 1 x 7  
 Solid .075 stainless steel core  
 10-32 Threaded rod (output end)

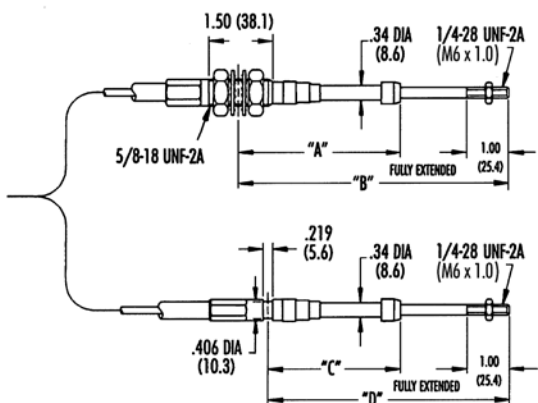
**HEAD OPTIONS**  
 SEE ABOVE



### 4 SERIES

**HP Core**  
 1/4"-28 Threaded rod  
 (output end)

**HEAD OPTIONS**  
 SEE ABOVE



- Light Duty: Exposed Solid Core or 1 x 7 HP Core  
HP Core: Choose for best flexibility, lower backlash and higher efficiency. Polymer coated 1 x 7 wire rope  
Solid Core: .075 solid stainless steel core
- Heavy Duty: 3 & 4 Series threaded end rods

- Temperature Range:  
–65 to +225°F / –54 to +107°C Std.  
–65 to +300°F / –54 to +149°C HEFT 2
- Applications: Engine RPM, or where coarse or fine adjustments are needed

### Quick Disconnect Cable Heads

#73 Positive Lock Head: 3" Travel

#75 Positive Lock Head: 5" Travel

#90 Vernier: Small Knob

#92 Vernier: Black Center Button

#94 Vernier: Red Center Button

### To Order

Vernier and Positive Lock cable control heads may be ordered as a complete assembly (head and cable attached) or separately. Order the desired control head using the two-digit number 90, 92, 94, 73 or 75. Order the cable using the five-digit number from "Building a Part Number." To order a complete assembly, combine the control head number with the desired cable number. Example: if you desire control head #94 and cable #33092, then combine to make the assembly part number X94-33092-length.

Load Rating: Maximum 20 lbs. is recommended.

### Building a Part Number

**Head Type:**  
00 None: Cable only  
90 Vernier: Black Button – Black Knob  
92 Vernier: Black Button – Black Knob  
94 Vernier: Red Button – Black Knob  
73 Positive Lock: 3" Travel  
75 Positive Lock: 5" Travel

**Cable Type:**  
0 Solid Core (3 Series Only)  
1 High Performance (Standard)  
3 HEFT 2 (High Performance & High Temperature)

**Cable Travel:**  
3 = #73 Head & All Vernier Heads  
5 = #75 Head ONLY

**Conduit Fitting Type:**  
Plain - 0  
Bulkhead - 2  
Clamp - 3  
Shoulder - 5

**Conduit Size:**  
0 = .31 dia. std.  
2 = .26 dia.  
(Available with Cable Type 0, Solid Core only)

**Overall Length:**  
In Inches  
(mm when M prefix is used)

| Specifications |                      |                      |                      |                      |
|----------------|----------------------|----------------------|----------------------|----------------------|
| Travel         | Bulkhead End         |                      | Clamp End            |                      |
| Inch/(mm)      | DIM "A"<br>Inch/(mm) | DIM "B"<br>Inch/(mm) | DIM "C"<br>Inch/(mm) | DIM "D"<br>Inch/(mm) |
| 1.0<br>(25.4)  | 3.00<br>(76.2)       | 4.94<br>(125.5)      | 2.31<br>(58.7)       | 4.25<br>(108.0)      |
| 2.0<br>(50.8)  | 4.00<br>(101.6)      | 6.94<br>(176.3)      | 3.31<br>(84.1)       | 6.25<br>(158.8)      |
| 3.0<br>(76.2)  | 5.00<br>(127.0)      | 8.94<br>(227.1)      | 4.31<br>(109.5)      | 8.25<br>(209.6)      |
| 4.0<br>(101.6) | 6.00<br>(152.4)      | 10.94<br>(277.9)     | 5.31<br>(134.9)      | 10.25<br>(260.4)     |
| 5.0<br>(127.0) | 7.00<br>(177.8)      | 12.94<br>(328.7)     | 6.31<br>(160.3)      | 12.25<br>(311.2)     |

☐ Using #75 Head

Load Rating: Maximum 20 lbs. is recommended.

| Specifications |                      |                      |                      |                      |
|----------------|----------------------|----------------------|----------------------|----------------------|
| Travel         | Bulkhead End         |                      | Clamp End            |                      |
| Inch/(mm)      | DIM "A"<br>Inch/(mm) | DIM "B"<br>Inch/(mm) | DIM "C"<br>Inch/(mm) | DIM "D"<br>Inch/(mm) |
| 1.0<br>(25.4)  | 3.13<br>(79.5)       | 5.19<br>(131.8)      | 2.50<br>(63.5)       | 4.56<br>(115.8)      |
| 2.0<br>(50.8)  | 4.13<br>(104.9)      | 7.19<br>(182.6)      | 3.50<br>(88.9)       | 6.56<br>(166.6)      |
| 3.0<br>(76.2)  | 5.13<br>(130.3)      | 9.19<br>(233.4)      | 4.50<br>(114.3)      | 8.56<br>(217.4)      |
| 4.0<br>(101.6) | 6.13<br>(155.7)      | 11.19<br>(284.2)     | 5.50<br>(139.7)      | 10.56<br>(268.2)     |
| 5.0<br>(127.0) | 7.13<br>(181.1)      | 13.19<br>(335.0)     | 6.50<br>(165.1)      | 12.56<br>(319.0)     |

☐ Using #75 Head

### Building a Part Number

**Cable Series:**  
3, 4

**Cable Travel:** 1, 2, 3, 4, 5

**Head Type:**  
00 None: Cable only  
90 Vernier: Black Button – Black Knob  
92 Vernier: Black Button – Black Knob  
94 Vernier: Red Button – Black Knob  
73 Positive Lock: 3" Travel  
75 Positive Lock: 5" Travel

**Cable Type:**  
0 Solid Core (3 Series Only)  
1 High Performance (Standard)  
3 HEFT 2 (High Performance & High Temperature)

**Conduit Fitting Type:**  
Bulkhead - 2  
Clamp - 3  
B-C Combo - 5

**Overall Length:**  
In Inches  
(mm when M prefix is used)

Metric – see pg. 2

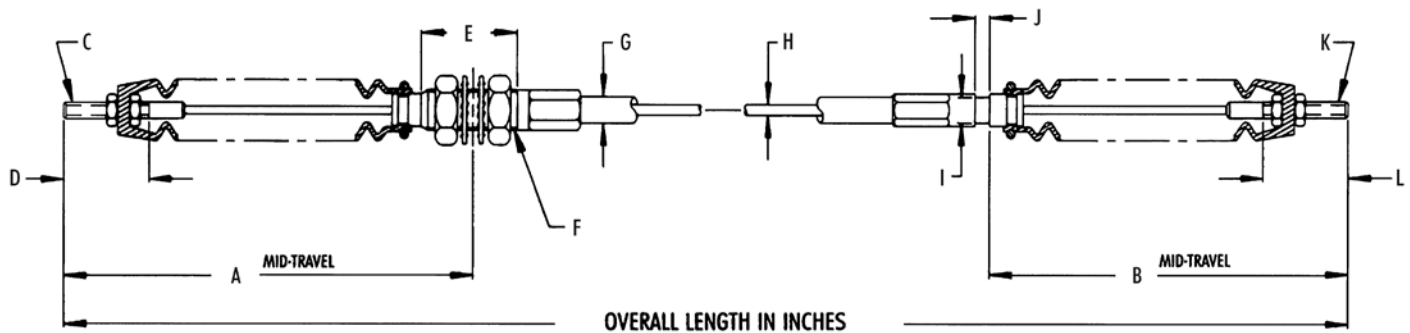
Load Rating: Maximum 20 lbs. is recommended.

**Felsted® Brand Cable Products Are Available Through A Network Of Local Orscheln® F.A.S.T.® Cable Assemblers**  
[www.orschelnproducts.com](http://www.orschelnproducts.com)



## Tension HP Cables

*Can be custom assembled by local Orscheln® F.A.S.T.® distributors*



- Temperature Range:  
 -65 to +225°F / -54 to +107°C Std.  
 -65 to +300°F / -54 to +149°C HEFT 2

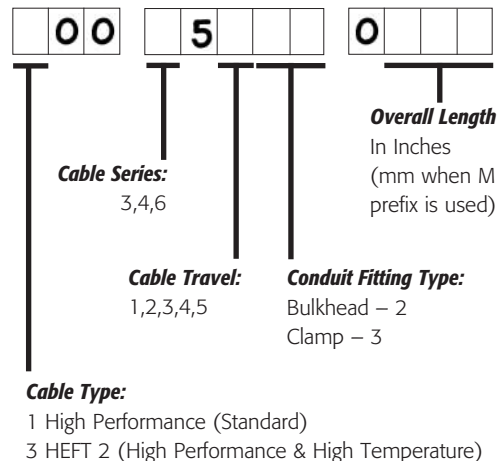
| 3 SERIES       |                      |                      |                  |                  |
|----------------|----------------------|----------------------|------------------|------------------|
| Travel         | Bulkhead End         | Clamp End            | Operating Loads  |                  |
| Inch/(mm)      | DIM "A"<br>Inch/(mm) | DIM "B"<br>Inch/(mm) | Push<br>Lbs./(N) | Pull<br>Lbs./(N) |
| 1.0<br>(25.4)  | 4.44<br>(112.8)      | 3.75<br>(95.3)       | 0                | 120<br>(534)     |
| 2.0<br>(50.8)  | 5.94<br>(150.9)      | 5.25<br>(133.4)      | 0                | 120<br>(534)     |
| 3.0<br>(76.2)  | 7.44<br>(189.0)      | 6.75<br>(171.5)      | 0                | 120<br>(534)     |
| 4.0<br>(101.6) | 8.94<br>(227.1)      | 8.25<br>(209.6)      | 0                | 120<br>(534)     |
| 5.0<br>(127.0) | 10.44<br>(265.2)     | 9.75<br>(247.7)      | 0                | 120<br>(534)     |

| 4 SERIES       |                      |                      |                  |                  |
|----------------|----------------------|----------------------|------------------|------------------|
| Travel         | Bulkhead End         | Clamp End            | Operating Loads  |                  |
| Inch/(mm)      | DIM "A"<br>Inch/(mm) | DIM "B"<br>Inch/(mm) | Push<br>Lbs./(N) | Pull<br>Lbs./(N) |
| 1.0<br>(25.4)  | 4.69<br>(119.1)      | 4.06<br>(103.1)      | 0                | 230<br>(1023)    |
| 2.0<br>(50.8)  | 6.19<br>(157.2)      | 5.56<br>(141.2)      | 0                | 230<br>(1023)    |
| 3.0<br>(76.2)  | 7.69<br>(195.3)      | 7.06<br>(179.3)      | 0                | 230<br>(1023)    |
| 4.0<br>(101.6) | 9.19<br>(233.4)      | 8.56<br>(217.4)      | 0                | 230<br>(1023)    |
| 5.0<br>(127.0) | 10.69<br>(271.5)     | 10.06<br>(255.5)     | 0                | 230<br>(1023)    |

| 6 SERIES       |                      |                      |                  |                  |
|----------------|----------------------|----------------------|------------------|------------------|
| Travel         | Bulkhead End         | Clamp End            | Operating Loads  |                  |
| Inch/(mm)      | DIM "A"<br>Inch/(mm) | DIM "B"<br>Inch/(mm) | Push<br>Lbs./(N) | Pull<br>Lbs./(N) |
| 1.0<br>(25.4)  | 5.23<br>(130.3)      | 4.44<br>(112.8)      | 0                | 400<br>(1779)    |
| 2.0<br>(50.8)  | 6.63<br>(168.4)      | 5.94<br>(150.9)      | 0                | 400<br>(1779)    |
| 3.0<br>(76.2)  | 8.13<br>(206.5)      | 7.44<br>(189.0)      | 0                | 400<br>(1779)    |
| 4.0<br>(101.6) | 9.63<br>(244.8)      | 8.94<br>(227.1)      | 0                | 400<br>(1779)    |
| 5.0<br>(127.0) | 11.13<br>(282.7)     | 10.44<br>(265.2)     | 0                | 400<br>(1779)    |

| DIMENSIONS | 3 SERIES          | 4 SERIES           | 6 SERIES           |
|------------|-------------------|--------------------|--------------------|
| C          | #10-32 UNF-2A     | 1/4-28 UNF-2A      | 5/16-24 UNF-2A     |
| D          | 1.25<br>(31.8)    | 1.25<br>(31.8)     | 1.56<br>(39.6)     |
| E          | 1.13<br>(28.7)    | 1.50<br>(38.1)     | 1.75<br>(44.5)     |
| F          | 7/16-20 UNF-2A    | 5/8-18 UNF-2A      | 11/16-16 UNF-2A    |
| G          | .31 DIA<br>(7.9)  | .41 DIA<br>(10.4)  | .51 DIA<br>(13.0)  |
| H          | .08 DIA<br>(2.0)  | .13 DIA<br>(3.3)   | .18 DIA<br>(4.6)   |
| I          | .250 DIA<br>(6.4) | .406 DIA<br>(10.3) | .469 DIA<br>(11.9) |
| J          | .125<br>(3.2)     | .219<br>(5.6)      | .219<br>(5.6)      |
| K          | #10-32 UNF-2A     | 1/4-28 UNF-2A      | 5/16-24 UNF-2A     |
| L          | 1.25<br>(31.8)    | 1.25<br>(31.8)     | 1.56<br>(39.6)     |

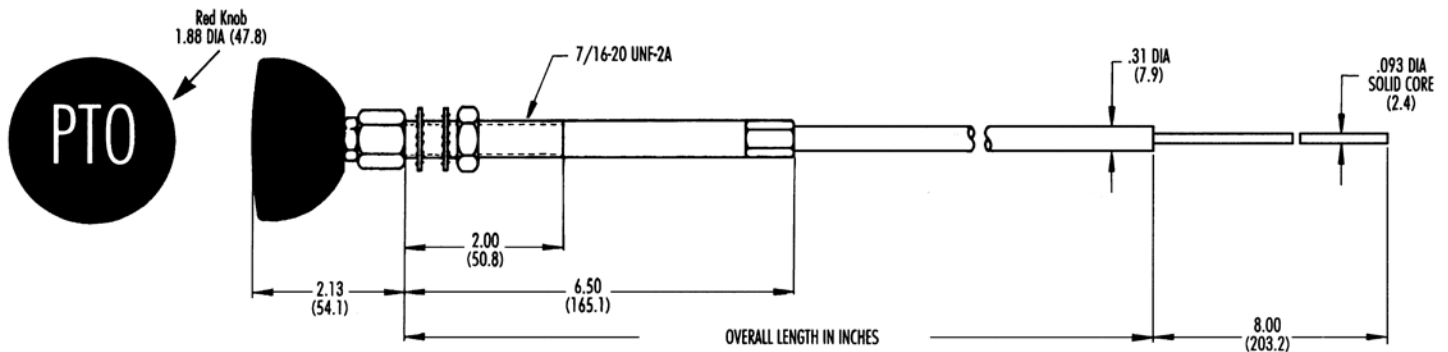
### Building a Part Number



## PTO Cables

- Power take off operation
- .093 Solid Stainless Steel Core
- Full 5" travel
- 6" Bend radius

*Can be custom assembled by local Orscheln® F.A.S.T.® distributors*



## Power Take Off Cables

Red knob – standard

Temperature Range:

–65 to +225°F / –54 to +107°C Std.

## Building a Part Number

000 35000 0

**Overall Length**

In Inches  
(mm when M  
prefix is used)

## RVO Cables

- Remote valve control operation (Orscheln controls ONLY).
- HP Cable construction – same as 4 Series Push-Pull on pages 3–4.

*Can be custom assembled by local Orscheln® F.A.S.T.® distributors*

## Building a Part Number

00 456 0

**Cable Type:**

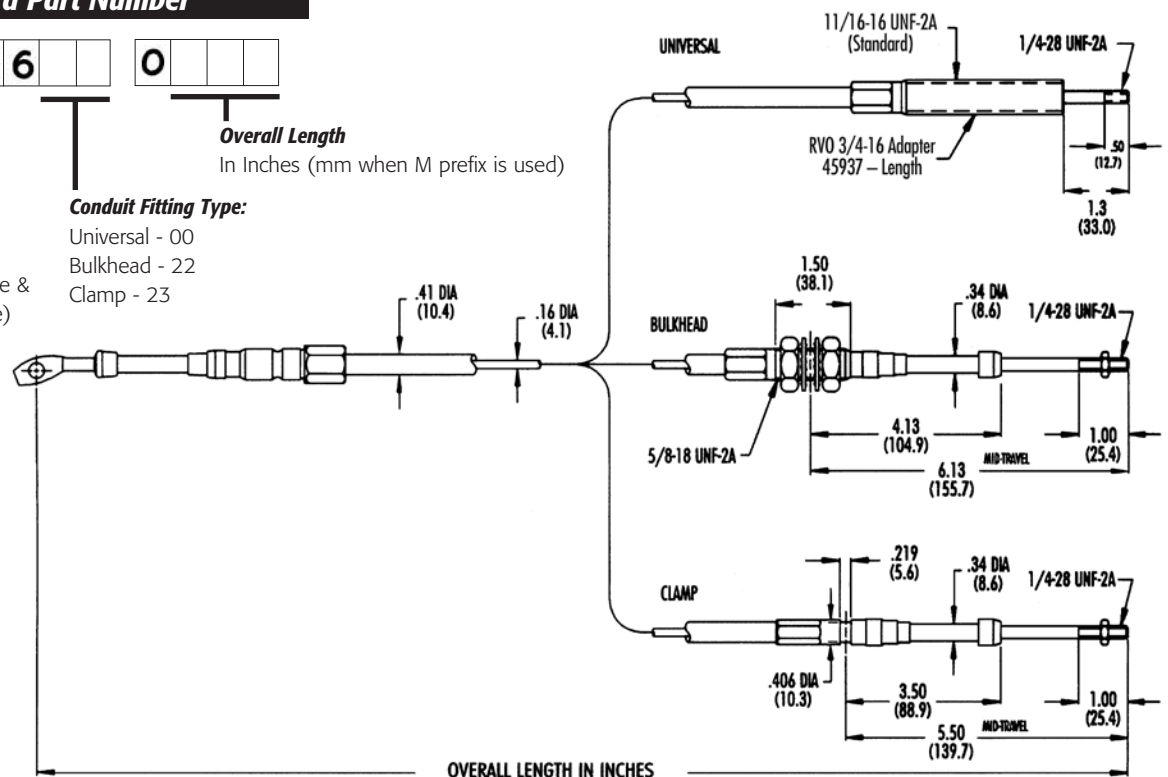
- 1 High Performance (Standard)
- 3 HEFT 2 (High Performance & High Temperature)

**Conduit Fitting Type:**

- Universal - 00
- Bulkhead - 22
- Clamp - 23

**Overall Length**  
In Inches (mm when M prefix is used)

## Valve Connection Kit End



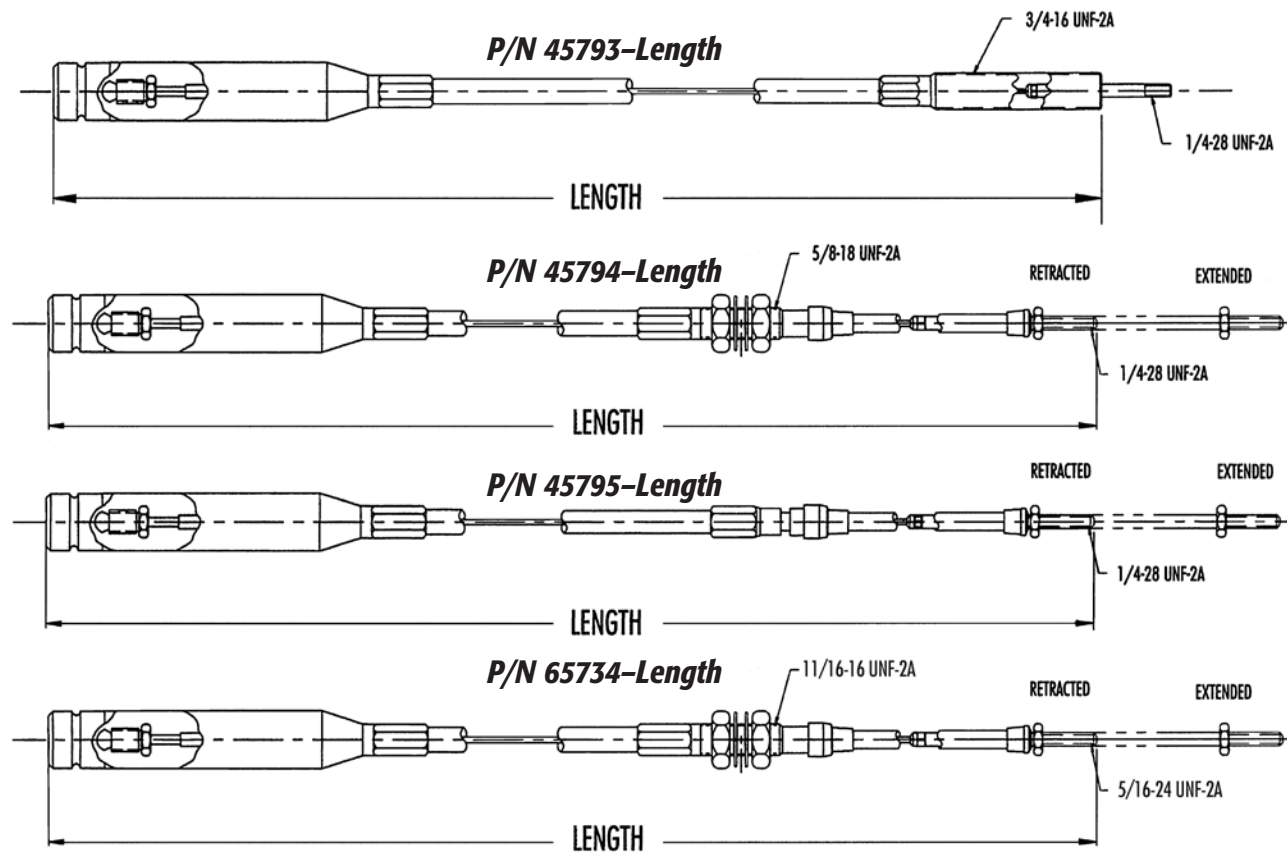
**Connects to  
Orscheln  
Remote Valve  
Controls  
55700  
55709**

**Felsted® Brand Cable Products Are Available Through A Network Of Local Orscheln® F.A.S.T.® Cable Assemblers**  
[www.orschelnproducts.com](http://www.orschelnproducts.com)

## RVC Cables

- Remote Valve Control Cables
- Fits Competitor RVC Controls

*Can be custom assembled by local Orscheln® F.A.S.T.® distributors*



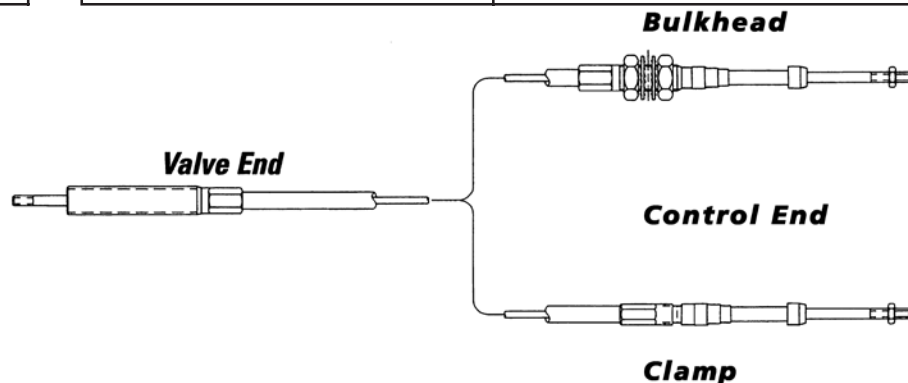
## Special Valve Control Cables

- HD lever applications
- Remote valve dump body control use • HP cable construction

*Can be custom assembled by local Orscheln® F.A.S.T.® distributors*

| Base Part Number |   |   | OAL inches |   |   |
|------------------|---|---|------------|---|---|
| 1                | 0 | 0 | 4          | 5 | 6 |
| 1                | 0 | 0 | 4          | 5 | 6 |
| 1                | 0 | 0 | 4          | 5 | 7 |
| 1                | 0 | 0 | 4          | 5 | 7 |
| 1                | 0 | 0 | 4          | 5 | 7 |

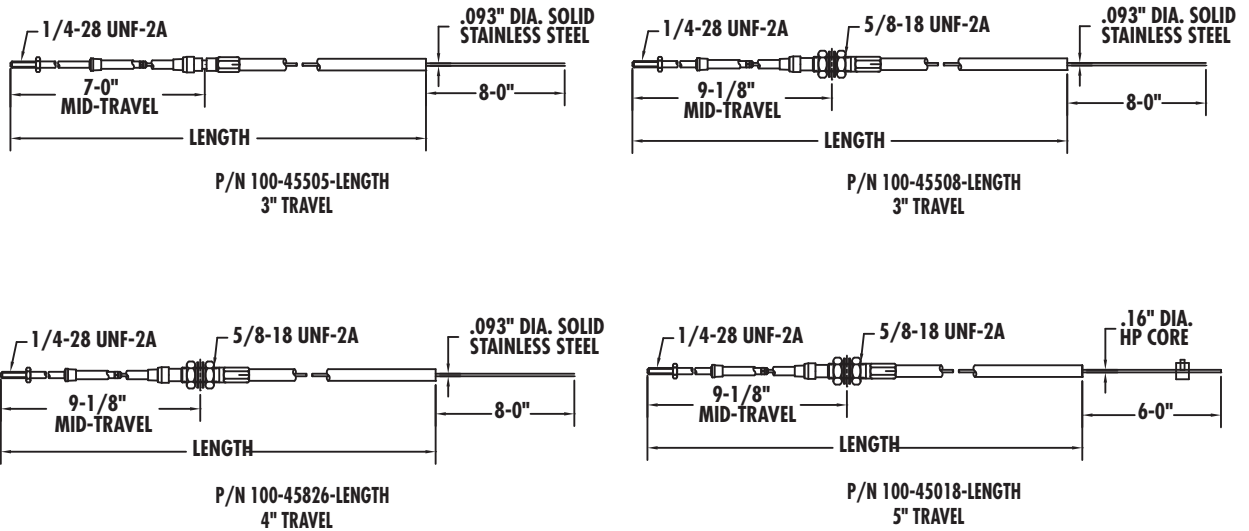
| Valve End Connection                               | Control End Connection                                        |
|----------------------------------------------------|---------------------------------------------------------------|
| 11/16" -16 thread connects to valve connection kit | 5/8"-18 bulkhead hub connects to an HD Lever                  |
| 11/16" -16 thread connects to valve connection kit | Clamp hub connects to a 55781-2 dump body control shifter     |
| 11/16" -16 thread connects to valve connection kit | Clamp hub connects to a 3" mounting dump body control shifter |
| 3/4"-16 thread connects to valve connection kit    | Clamp hub connects to a 55781-2 dump body control shifter     |
| 3/4"-16 thread connects to valve connection kit    | 5/8"-18 bulkhead hub connects to an HD Lever                  |



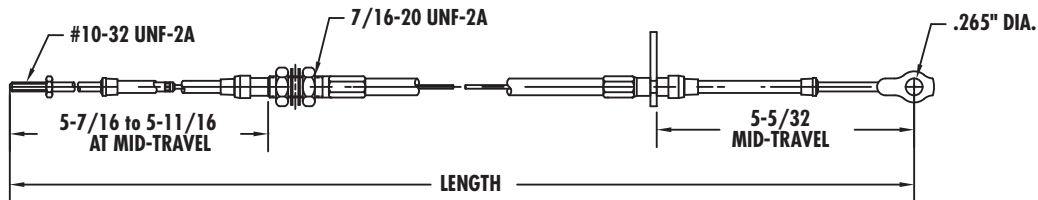
**Felsted® Brand Cable Products Are Available Through A Network Of Local Orscheln® F.A.S.T.® Cable Assemblers**  
[www.orschelnproducts.com](http://www.orschelnproducts.com)

**Can be custom assembled by local Orscheln<sup>®</sup> F.A.S.T.<sup>®</sup> distributors**

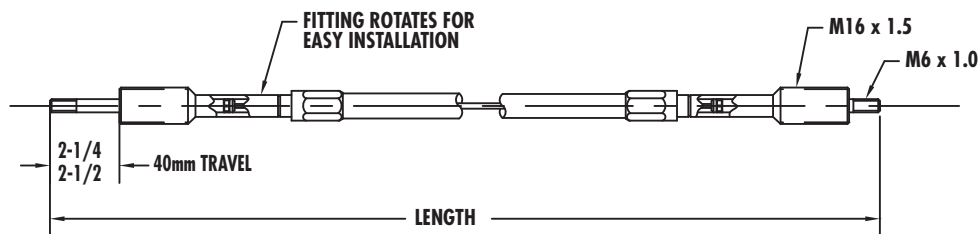
## MIXER CABLES



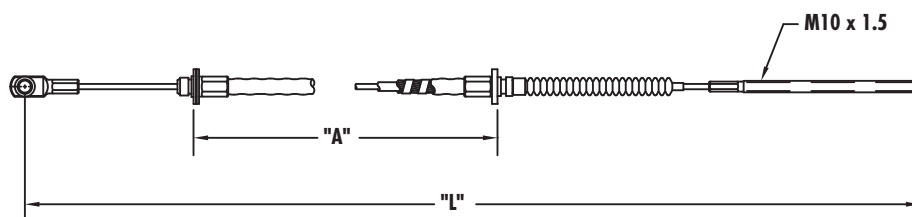
## HP RACE SHIFT CABLE – P/N 36101-LENGTH



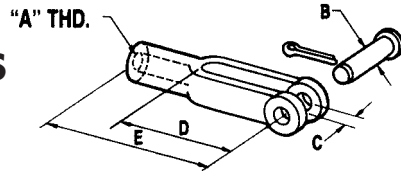
## WALVOIL<sup>®</sup> REPLACEMENT CABLE – P/N 46041-LENGTH



## GM<sup>®</sup> REPLACEMENT CLUTCH CABLE – P/N 65604



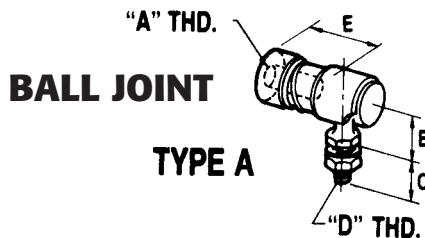
## CLEVISES



| Part #                 | A                 | B                 | C                 | D                   | E                   |
|------------------------|-------------------|-------------------|-------------------|---------------------|---------------------|
| <b>3 SERIES</b>        |                   |                   |                   |                     |                     |
| 39003-1<br>**          | 10-32<br>UNF-2B   | 3/16"<br>(4.8mm)  | 7/32"<br>(5.6mm)  | 1"<br>(25.4mm)      | 1-9/16"<br>(39.7mm) |
| 49003-2                | 10-32<br>UNF-2B   | 1/4"<br>(6.4mm)   | 9/32"<br>(7.1mm)  | 1-1/4"<br>(31.8mm)  | 2"<br>(50.8mm)      |
| 69003-2<br>*           | 10-32<br>UNF-2B   | 5/16"<br>(7.9mm)  | 11/32"<br>(8.7mm) | 1-7/16"<br>(36.5mm) | 2-1/4"<br>(57.2mm)  |
| <b>4 SERIES</b>        |                   |                   |                   |                     |                     |
| 49003-1                | 1/4-28<br>UNF-2B  | 1/4"<br>(6.4mm)   | 9/32"<br>(7.1mm)  | 1-1/4"<br>(31.8mm)  | 2"<br>(50.8mm)      |
| 49044-1<br>*           | 1/4-28<br>UNF-2B  | 1/2"<br>(12.7mm)  | 9/16"<br>(14.3mm) | 1-7/8"<br>(47.6mm)  | 3"<br>(76.2mm)      |
| 69003-3                | 1/4-28<br>UNF-2B  | 5/16"<br>(7.9mm)  | 11/32"<br>(8.7mm) | 1-7/16"<br>(36.5mm) | 2-1/4"<br>(57.2mm)  |
| <b>6 SERIES</b>        |                   |                   |                   |                     |                     |
| 49003-3                | 5/16-24<br>UNF-2B | 1/4"<br>(6.4mm)   | 9/32"<br>(7.1mm)  | 1-1/4"<br>(31.8mm)  | 2"<br>(50.8mm)      |
| 49044-2                | 5/16-24<br>UNF-2B | 1/2"<br>(12.7mm)  | 9/16"<br>(14.3mm) | 1-7/8"<br>(47.6mm)  | 3"<br>(76.2mm)      |
| 69003-1                | 5/16-24<br>UNF-2B | 5/16"<br>(7.9mm)  | 11/32"<br>(8.7mm) | 1-7/16"<br>(36.5mm) | 2-1/4"<br>(57.2mm)  |
| 69034                  | 5/16-24<br>UNF-2B | 7/16"<br>(11.1mm) | 1/2"<br>(12.7mm)  | 1-7/8"<br>(47.6mm)  | 2-7/8"<br>(73.1mm)  |
| 89003-2                | 5/16-24<br>UNF-2B | 3/8"<br>(9.5mm)   | 7/16"<br>(11.1mm) | 1-5/8"<br>(41.3mm)  | 2-1/2"<br>(63.5mm)  |
| <b>8 SERIES</b>        |                   |                   |                   |                     |                     |
| 89003-1<br>*           | 3/8-24<br>UNF-2B  | 3/8"<br>(9.5mm)   | 7/16"<br>(11.1mm) | 1-5/8"<br>(41.3mm)  | 2-1/2"<br>(63.5mm)  |
| <b>*SPECIAL SERIES</b> |                   |                   |                   |                     |                     |
| 49044-3                | 3/8-24<br>UNF-2B  | 1/2"<br>(12.7mm)  | 9/16"<br>(14.3mm) | 1-7/8"<br>(47.6mm)  | 3"<br>(76.2mm)      |
| 49044-4<br>*           | 1/2-20<br>UNF-2B  | 1/2"<br>(12.7mm)  | 9/16"<br>(14.3mm) | 1-7/8"<br>(47.6mm)  | 3"<br>(76.2mm)      |
| 69034-1                | 3/8-24<br>UNF-2B  | 7/16"<br>(11.1mm) | 1/2"<br>(12.7mm)  | 1-7/8"<br>(47.6mm)  | 2-7/8"<br>(73.1mm)  |

\* Consult factory for leadtime and availability.

\*\* Note: The 39003-1 clevis is made of polymer and is not identical to the illustration shown above.

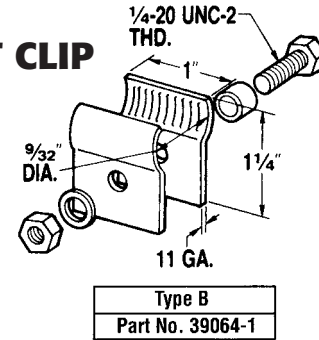


## BALL JOINT

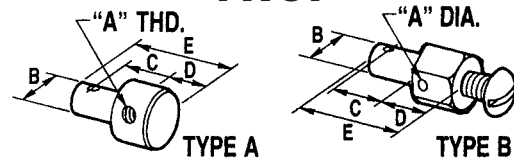
TYPE A

| Part #          | Type | A                 | B                  | C                  | D                 | E                  |
|-----------------|------|-------------------|--------------------|--------------------|-------------------|--------------------|
| <b>3 SERIES</b> |      |                   |                    |                    |                   |                    |
| 39006           | A    | 10-32<br>UNF-2B   | 15/32"<br>(11.9mm) | 9/16"<br>(14.3mm)  | 1/4-28<br>UNF-2A  | 31/32"<br>(24.6mm) |
| <b>4 SERIES</b> |      |                   |                    |                    |                   |                    |
| 49006           | A    | 1/4-28<br>UNF-2B  | 15/32"<br>(11.9mm) | 9/16"<br>(14.3mm)  | 1/4-28<br>UNF-2A  | 31/32"<br>(24.6mm) |
| 49007           | A    | 1/4-28<br>UNF-2B  | 15/32"<br>(11.9mm) | 7/8"<br>(22.2mm)   | 5/16-24<br>UNF-2A | 31/32"<br>(24.6mm) |
| <b>6 SERIES</b> |      |                   |                    |                    |                   |                    |
| 69007           | A    | 5/16-24<br>UNF-2B | 17/32"<br>(13.5mm) | 11/16"<br>(17.5mm) | 5/16-24<br>UNF-2A | 1-1/8"<br>(28.5mm) |

## CONDUIT CLIP



## PIVOT

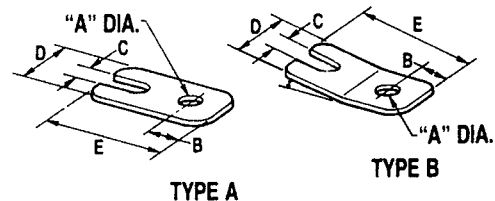


TYPE A

TYPE B

| Part #          | Type | A                | B                | C                  | D                 | E                   |
|-----------------|------|------------------|------------------|--------------------|-------------------|---------------------|
| <b>3 SERIES</b> |      |                  |                  |                    |                   |                     |
| 39011-1         | B    | 7/64"<br>(2.8mm) | 1/4"<br>(6.4mm)  | 5/32"<br>(4.0mm)   | 5/16"<br>(7.9mm)  | 9/16"<br>(14.3mm)   |
| 39011-2         | B    | 7/64"<br>(2.8mm) | 1/4"<br>(6.4mm)  | 19/64"<br>(7.5mm)  | 5/16"<br>(7.9mm)  | 11/16"<br>(17.5mm)  |
| 39050-2<br>*    | B    | 7/64"<br>(2.8mm) | 5/16"<br>(7.9mm) | 19/64"<br>(7.5mm)  | 5/16"<br>(7.9mm)  | 11/16"<br>(17.5mm)  |
| 39042           | A    | 10-32<br>UNF-2B  | 1/4"<br>(6.4mm)  | 13/64"<br>(5.2mm)  | 21/64"<br>(8.3mm) | 5/8"<br>(15.9mm)    |
| 39045<br>*      | A    | 10-32<br>UNF-2B  | 5/16"<br>(7.9mm) | 3/8"<br>(9.5mm)    | 3/8"<br>(9.5mm)   | 15/16"<br>(23.8mm)  |
| <b>4 SERIES</b> |      |                  |                  |                    |                   |                     |
| 49008<br>*      | A    | 1/4-28<br>UNF-2B | 1/4"<br>(6.4mm)  | 13/32"<br>(10.3mm) | 1/2"<br>(12.7mm)  | 1-1/16"<br>(27.0mm) |
| 49008-1         | A    | 1/4-28<br>UNF-2B | 1/4"<br>(6.4mm)  | 5/16"<br>(7.9mm)   | 1/2"<br>(12.7mm)  | 31/32"<br>(24.6mm)  |
| 49011           | A    | 1/4-28<br>UNF-2B | 1/4"<br>(6.4mm)  | 13/64"<br>(5.2mm)  | 7/16"<br>(11.1mm) | 3/4"<br>(19.1mm)    |
| 49042           | A    | 1/4-28<br>UNF-2B | 3/8"<br>(9.5mm)  | 15/32"<br>(11.9mm) | 1/2"<br>(12.7mm)  | 1-3/16"<br>(30.2mm) |
| 50061-1         | A    | 1/4-28<br>UNF-2B | 5/16"<br>(7.9mm) | 3/16"<br>(4.8mm)   | 9/16"<br>(14.3mm) | 27/32"<br>(21.4mm)  |

## CLIP BRACKET



TYPE A

TYPE B

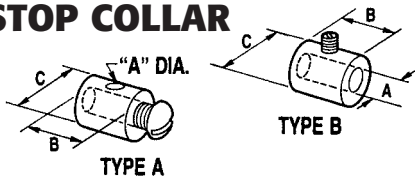
| Part #          | Type | A                | B               | C               | D                | E                   |
|-----------------|------|------------------|-----------------|-----------------|------------------|---------------------|
| <b>3 SERIES</b> |      |                  |                 |                 |                  |                     |
| 30121           | B    | 9/32"<br>(7.5mm) | 3/8"<br>(9.5mm) | 1/4"<br>(6.4mm) | 5/8"<br>(15.9mm) | 1-7/32"<br>(30.0mm) |
| 39004-1         | A    | 9/32"<br>(7.5mm) | 3/8"<br>(9.5mm) | 1/4"<br>(6.4mm) | 5/8"<br>(15.9mm) | 1-5/16"<br>(33.3mm) |
| 39004-2         | A    | 9/32"<br>(7.5mm) | 3/8"<br>(9.5mm) | 1/4"<br>(6.4mm) | 5/8"<br>(15.9mm) | 1-5/16"<br>(33.3mm) |

\*Consult factory for leadtime and availability.



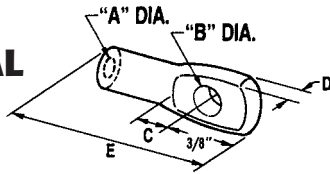
## Hardware Continued

### STOP COLLAR

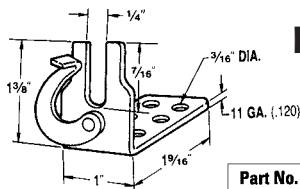


| Part #          | Type | A             | B             | CD             |   |
|-----------------|------|---------------|---------------|----------------|---|
| <b>3 SERIES</b> |      |               |               |                |   |
| 30103           | A    | 7/64" (2.8mm) | 5/16" (7.9mm) | 5/16" (7.9mm)  | — |
| <b>4 SERIES</b> |      |               |               |                |   |
| 40081           | A *  | 3/16" (4.8mm) | 5/16" (7.9mm) | 5/16" (7.9mm)  | — |
| 49043           | B    | 3/16" (4.8mm) | 1/4" (6.4mm)  | 7/16" (11.1mm) | — |

### TERMINAL EYES



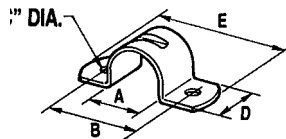
| Part #          | A              | B             | C             | D            | E               |
|-----------------|----------------|---------------|---------------|--------------|-----------------|
| <b>3 SERIES</b> |                |               |               |              |                 |
| 49004-4 *       | 10-32 UNF-2B   | 1/8" (3.2mm)  | 5/8" (15.9mm) | 3/8" (9.5mm) | 1-7/8" (47.6mm) |
| <b>4 SERIES</b> |                |               |               |              |                 |
| 49004-1         | 1/4-28 UNF-2B  | 5/16" (7.9mm) | 5/8" (15.9mm) | 3/8" (9.5mm) | 1-7/8" (47.6mm) |
| 49004-2 *       | 1/4-28 UNF-2B  | 1/2" (12.7mm) | 5/8" (15.9mm) | 3/8" (9.5mm) | 1-7/8" (47.6mm) |
| 49004-3         | 1/4-28 UNF-2B  | 1/4" (6.4mm)  | 5/8" (15.9mm) | 3/8" (9.5mm) | 1-7/8" (47.6mm) |
| <b>6 SERIES</b> |                |               |               |              |                 |
| 69004-1         | 5/16-24 UNF-2B | 3/8" (9.5mm)  | 5/8" (15.9mm) | 3/8" (9.5mm) | 1-7/8" (47.6mm) |
| 69004-2 *       | 5/16-24 UNF-2B | 5/16" (7.9mm) | 5/8" (15.9mm) | 3/8" (9.5mm) | 1-7/8" (47.6mm) |
| 69004-3 *       | 5/16-24 UNF-2B | 1/2" (12.7mm) | 5/8" (15.9mm) | 3/8" (9.5mm) | 1-7/8" (47.6mm) |
| 69004-4         | 5/16-24 UNF-2B | 1/4" (6.4mm)  | 5/8" (15.9mm) | 3/8" (9.5mm) | 1-7/8" (47.6mm) |



### FIELD CLAMP

Part No. 39030-1

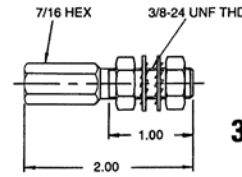
### CLAMP



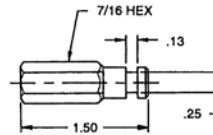
| Part #          | A              | B               | C              | D             | E               |
|-----------------|----------------|-----------------|----------------|---------------|-----------------|
| <b>3 SERIES</b> |                |                 |                |               |                 |
| 39001           | 3/8" (9.5mm)   | 1" (25.4mm)     | 13/64" (5.2mm) | 1/2" (12.7mm) | 1-1/2" (38.1mm) |
| <b>4 SERIES</b> |                |                 |                |               |                 |
| 49001           | 1/2" (12.7mm)  | 1" (25.4mm)     | 7/32" (5.6mm)  | 1/2" (12.7mm) | 1-1/2" (38.1mm) |
| <b>6 SERIES</b> |                |                 |                |               |                 |
| 69001           | 9/16" (14.3mm) | 1-1/4" (31.8mm) | 9/32" (7.1mm)  | 5/8" (15.9mm) | 1-5/8" (41.3mm) |

### Field Hub Kits for Standard Felsted® Brand 3 Series Cables

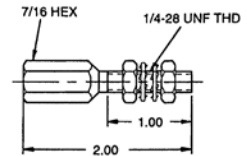
(Solid or HP Core) • (Conduit Outside Diameter of .31")



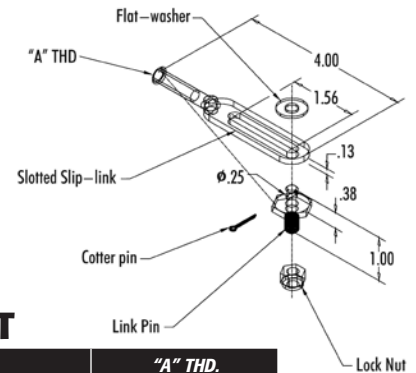
Kit #39067-2  
3/8-24 THD HUB



Kit #39067-3  
CLAMP HUB



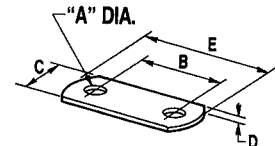
Kit #39067-4  
1/4-28 THD HUB



### SLIP LINK KIT

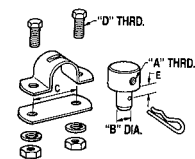
| Kit Number                          | "A" THD.                      |
|-------------------------------------|-------------------------------|
| Polymer<br>59049-1<br>59049-2       | 10-32 UNF-2B<br>1/4-28 UNF-2B |
| Metal<br>M00-59049-1<br>M00-59049-2 | 10-32 UNF-2B<br>1/4-28 UNF-2B |

### SHIM



| Part #                  | A              | B               | C             | D             | E               |
|-------------------------|----------------|-----------------|---------------|---------------|-----------------|
| <b>3 &amp; 4 SERIES</b> |                |                 |               |               |                 |
| 39002                   | 13/64" (5.2mm) | 1" (25.4mm)     | 1/2" (12.7mm) | 3/32" (2.4mm) | 1-1/2" (38.1mm) |
| <b>6 SERIES</b>         |                |                 |               |               |                 |
| 69002                   | 9/32" (7.5mm)  | 1-1/4" (31.8mm) | 5/8" (15.9mm) | 5/64" (2.0mm) | 1-3/4" (44.5mm) |

### SHIFTER CABLE CONNECTION KIT



| Kit # | A THD.         | B DIA.        | C               | D THD.        | E            |
|-------|----------------|---------------|-----------------|---------------|--------------|
| 50030 | 1/4-28 UNF-2B  | 5/16" (7.9mm) | 1" (25.4mm)     | 10-32 UNF-2A  | 1/8" (3.2mm) |
| 50035 | 5/16-24 UNF-2B | 5/16" (7.9mm) | 1-1/4" (31.8mm) | 1/4-20 UNF-2A | 1/8" (3.2mm) |
| 59033 | 10-32 UNF-2B   | 5/16" (7.9mm) | 1" (25.4mm)     | 10-32 UNC-2A  | 1/8" (3.2mm) |





**check » shift » accelerate » park**

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#### TRUCK



#### BUS



#### MILITARY



#### CONSTRUCTION



#### AGRICULTURE



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#### PARK BRAKE SYSTEMS



#### MECHANICAL CONTROL CABLES



#### FLUID LEVEL INDICATORS



#### ELECTRONIC THROTTLE CONTROL SYSTEMS



#### SHIFT CONTROL SYSTEMS



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