Control CABLES INC.

Manufacturer of Quality Cable Components For Automotive, Racing and Heavy & Light Industries.

Catalog #3  controlcables.com
Established in 1980, Control Cables Incorporated (CCI) has grown into one of the largest cable specialty companies in the United States. CCI is able to design and manufacture a wide variety of cables and controls for most applications. We can provide cables and hardware for most industrial, vintage cars, and racing applications.

CCI is a warehouse distributor for the Pertronix line of ignition products. We carry most Ignitor kits along with plug wires, distributors, and coils for automotive & industrial applications.

CCI is also the West Coast master distributor for Quadco/Arens controls. From cable controlled levers to electronic throttle controls, we carry most items in stock.

We are able to produce custom designed cables that might not be shown in this catalog. We can work with you to create a special cable designed to your specifications. We have the technical knowledge and experience to help you design a cable to suit your specific needs.

Give us a call and talk to one of our knowledgeable staff for any questions you might have with any cable, control, or hardware needs.

Table Of Contents

Company Information..................................................2
Push Pull Cables.........................................................3
Control Head Cables....................................................4, 5
Pull Only Throttle Cables..............................................6
Spool Valve Cables......................................................7
Modulator Cables/Manual Shift Cables..............................8
Clutch Cables............................................................9
Industrial Brake Cables..............................................10, 11, 12, 13
Industrial Brake Levers..............................................14, 15, 16
Unidrum Control Cables..............................................17
Arens/Quadco Controls..............................................18, 19
Mounting Hardware..................................................20, 21, 22, 23, 24
Shift Cables (Automotive)...........................................25
Lite Series Cables.....................................................26, 27
Ignition Products.......................................................28
Street Rod Products..................................................29, 30, 31, 32
Street Rod Brake Cables.............................................33, 34
Apparel.................................................................35

Phone: (562) 949-0455 / Fax: (562) 949-0595 / www.controlcables.com
**Push-Pull Ordering Specs.**

**Construction**
- 173-Ulity grade with stainless end rods.
- 174-Marine utility grade with stainless end rods, stainless support tubes, and stainless inner member.
- 175-Marine utility with stainless conduit fittings, end rods, support tubes and stainless inner member.
- 184-Low friction with Teflon® and nylon wear surfaces, stainless steel end rods, support tubes and coated inner member. **Available in all sizes except HD.**
- 314-(EXT) low friction with plastic wear surfaces, stainless steel end rods, and support tubes.
- 814-High temperature cable. **Available in ULD, VLD and LD** push-pull with stainless end rods and support tubes.

**Duty (Load Carrying Capacity)**
Available in: U (Ultra Light Duty), V (Very Light Duty), L (Light Duty) M (Medium Duty) H (Heavy Duty). Determine by load or end rod diameter from table A below.

**Conduit End Fittings**
- **TT** (Threaded fittings both ends), **GG** (Grooved fittings on both ends), **TG** (Threaded fitting on one end and grooved on the other) See table A.

**Length Of Travel**
1 to 6 inches. Determine from table A.

**Length Overall (in Inches)**

---

### Table A: Duty/Load Capacity and Length Of Travel

<table>
<thead>
<tr>
<th>Basic Part No.</th>
<th>Thread F</th>
<th>Min. Bend Radius</th>
<th>Pull Load Capacity Pounds</th>
<th>Push Load Capacity For Travel Shown In Pounds</th>
<th>Thread W</th>
<th>Dimension &quot;A&quot; For Travel Shown In Inches</th>
<th>Groove Dim. Root Dia.</th>
<th>Dimension &quot;A&quot; For Travel Shown In Inches</th>
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</thead>
<tbody>
<tr>
<td>U</td>
<td>10-32X3/8</td>
<td>2</td>
<td>100</td>
<td>40</td>
<td>3/16</td>
<td>0.13</td>
<td>0.25</td>
<td>3.69</td>
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<tr>
<td>V</td>
<td>10-32X3/8</td>
<td>2</td>
<td>120</td>
<td>80</td>
<td>3.38</td>
<td>0.13</td>
<td>0.25</td>
<td>5.19</td>
</tr>
<tr>
<td>L</td>
<td>14-28X1.00</td>
<td>3</td>
<td>230</td>
<td>150</td>
<td>5/65</td>
<td>0.13</td>
<td>0.25</td>
<td>7.69</td>
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<tr>
<td>M</td>
<td>5/16-24X1.00</td>
<td>5</td>
<td>400</td>
<td>250</td>
<td>6.66</td>
<td>0.17</td>
<td>0.47</td>
<td>8.38</td>
</tr>
<tr>
<td>H</td>
<td>3/8-24X1.38</td>
<td>6</td>
<td>1000</td>
<td>700</td>
<td>5.66</td>
<td>0.20</td>
<td>0.50</td>
<td>8.19</td>
</tr>
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</table>

**Conduit End Fittings**
- Type T-Threaded conduit end fitting for bulkhead mounting.
- Type G-Grooved conduit end fitting for mounting with U-bolts or clamps.

**For New Cables**
- A. Determine overall length.
- B. Measure travel required. Add 1/4" and round upward to the nearest whole inch.
- C. Determine loads and select basic part number from the table first.

**Overall Length and Travel In Inches**
For replacement Cables
- A. Remove old cable.
- B. Measure length as shown above.
- C. Measure length of travel. 1" through 6".
- D. Determine size of threads "F".
- E. Select basic part number from table above.
**Micro-Adjust**

**Twist-Lock**

**Non-Lock LD**
Must Specify Knob

**Non-Lock VLD**
Must Specify Knob

**Non-Lock COMM**

**Extended Dimensions**

<table>
<thead>
<tr>
<th>Travel “A”</th>
<th>VLD</th>
<th>VLD</th>
<th>VLD</th>
<th>LD</th>
<th>LD</th>
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<tr>
<td>1” 4.94”</td>
<td>81V32</td>
<td>81V42</td>
<td>81V33</td>
<td>91L32</td>
<td>91L33</td>
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<tr>
<td>2” 6.94”</td>
<td>86V32</td>
<td>86V42</td>
<td>86V33</td>
<td>96L32</td>
<td>96L33</td>
</tr>
<tr>
<td>3” 8.94”</td>
<td>86V42</td>
<td>86V42</td>
<td>86V43</td>
<td>96L42</td>
<td>96L43</td>
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</tbody>
</table>

**COMM**

<table>
<thead>
<tr>
<th>.075 Stainless Steel Wire</th>
<th>79VOO-L</th>
</tr>
</thead>
</table>

**161-581**

Add 4 to fifth digit of cable. 3/8-24 Threads

**161-579**

Add 5 to fifth digit of cable

**Commercial Cables Only**

**Twist On Ends**

**Control Cables**

Phone: (562) 949-0455 / Fax: (562) 949-0595 / www.controlcables.com
Control Head Cable Code

Control Head Type
2 Micro Adjust
5 Twist Lock With 2-3/8" Plastic T-Handle
7 Non-Locking With 3/8"-24 UNF Mounting
8 Non-Locking With 7/16"-20 UNF Mounting
9 Non-Locking With 5/8"-18 UNF Mounting

Cable Type
1 EXT
3 Low Friction
6 Utility
8 Hi Temp

Cable Size
V Very Light Duty
L Light Duty

Stainless Steel Options
3 With Stainless Steel End Rods
4 With Stainless Steel End Rods,
   Support Tube, and Innermember Armor
5 Stainless Steel Conduit Caps, End Rods,
   Support Tubes and Innermember Armor

Output End Fittings
2 Threaded Conduit Fitting
3 Grooved Conduit Fitting

Micro Adjust Only Cable Features
D Disconnect Head-Standard
F Friction Lock Accessory-Standard

Seal Options
(Use this Number Only If Requesting Optional Seals)
5 Improved Model 5 Wiper Seal (Standard)
6 Model 6 Wiper Seal, (Optional For Extreme Conditions)

Cable Travel 1" To 6"
Excluding Micro Adjust Cables
(For Output Fittings Style 2 and 3 Only)

Overall Length
See Overall length Dimensions.
Points Indicated On Each Illustration
ORDER CODE

Series
1 = 173
8 = 804

Size
V = VLD
L = LD

Rod Size
3 = 10/32
4 = 1/4-28

Fittings
TT = Threaded Fitting Both Sides
TG = Threaded Fitting and Grooved Fitting
GG = Grooved Fitting Both Sides

Dimension
A. (See Print)
L. Overall Length

Throttle/Accelerator Cables (Pull-Only)

Part No. --3TT-A-L (10-32 End Rods) Threaded-Threaded
Part No. --4TT-A-L (1/4-28 End Rods) Threaded-Threaded
Bellows Optional

Part No. --3TG-A-L (10-32 End Rods) Threaded-Grooved
Part No. --4TG-A-L (1/4-28 End Rods) Threaded-Grooved
Bellows Optional

Part No. --3GG-A-L (10-32 End Rods) Grooved-Grooved
Part No. --4GG-A-L (1/4-28 End Rods) Grooved-Grooved
Bellows Optional

Control Cables
Phone: (562) 949-0455 / Fax: (562) 949-0595 / www.controlcables.com
Remote Valve Control Cables
Used to operate hydraulic valves. Ideal for wet-line kits, relocating valves or vehicle modifications.

Part No. A173-351-L Utility

Part No. A173-352-L Utility

Part No. CA260-L Utility. Part No. CA261-L EXT

Part No. CA223G-L

Part No. CA223T-L

Control Cables
Phone: (562) 949-0455 / Fax: (562) 949-0595 / www.controlcables.com
Modulator Cables
Modulator and cable interconnect Allison automatic transmission with engine fuel control. Modulator can be set to either "Push or Pull" to operate.

Morse Part No. 310821
Morse Modulator Valve

Slip Clevis AC-310
Optional Part

Morse Modulator Units & Cables

Grooved Mount Cable Only
Part No. CA213G-L

Threaded Mount Cable Only
Part No. CA213T-L

1/4-28 Threaded Rod

5/8-18 Threaded Conduit Cap

Cables (Manual Transmission System)
Replacement for Cablecrafts® cable operated manual transmission shift system.
Order Code: X = 3 for stainless end rods with model 6 seats
X = 4 for stainless support tubes and end rods with Model 6 seats.
L = Length

Part No. A31X-105-L Grooved-Grooved

Part No. A31X-106-L Same As-105 But With An Umbrella Seal

Part No. A31X-113-L Grooved-Threaded

Control Cables
Phone: (562) 949-0455 / Fax: (562) 949-0595 / www.controlcables.com
Pull-Only Clutch Cables

**Part No. CA312-A-L**

*Mac Truck® Style Clutch Cable, HD Conduit and Special Clutch Innermember*

Order Code: \( A = \text{Conduit Length} / L = \text{Length Over All} \)

**Part No. CA235-A-L**

5/16-24 End Rods

**Part No. CA236-A-L**

3/8-24 End Rods

*Generic Requirement Cables, HD Conduit Special Clutch Innermember*

Order Code: \( A = \text{Conduit Length} / L = \text{Length Over All} \)

**Part No. CA270-A-L**

*M10 X 1.50*

*General Motors® Style Clutch Cable, 1,500lb Brake Conduit and Innermember*

Order Code: \( A = \text{Conduit Length} / L = \text{Length Over All} \)

**Part No. CA271-A-L**

*General Motors® Style Clutch Cable, 1,500lb Brake Conduit and Innermember*

Order Code: \( A = \text{Conduit Length} / L = \text{Length Over All} \)

Phone: (562) 949-0455 / Fax: (562) 949-0595 / www.controlcables.com
Preliminary Ordering Procedure
For Pull-Only Cable Controls

To Specify a pull control, the following information must be given in the order listed:

1. Left innermember end fitting part number.
2. Left conduit end fitting part number.
3. Length "A" between conduit fitting reference points in inches.
4. Right conduit end fitting part number.
5. Right innermember end fitting part number.
7. Travel of the innermember in the conduit in inches.
   (Note:) dimensions "L" must be sufficiently greater than dimension "A" to allow desired travel.
   *Removable items should be listed separately.

Code Number Sample: CS551-072-54-070-TE505-64.5-6

1. Left Innermember End Fitting Part Number (Clevis End Fitting With Cable Stop)
2. Left Conduit End Fitting Part Number (Grooved Conduit End Fitting)
3. Length Of Conduit Assembly (54") "A" Dimension
4. Right Conduit End Fitting Part Number (Threaded Conduit End Fitting)
5. Right Innermember End Fitting Part Number (Threaded Innermember End Fitting)
6. Length of Innermember Assembly (64.5") "L" Dimension
7. Travel In Inches (6")

Control Cables
Phone: (562) 949-0455 / Fax: (562) 949-0595 / www.controlcables.com
1500 Pound Brake Cables
Threaded End Fitting

Cable Stop / Part No. BEMV

Ball End
Part No. BT 821

Cable Stop / Part No. BE 501

1500 and 3000 Series

<table>
<thead>
<tr>
<th>Part No.</th>
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<th>C</th>
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<tr>
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Eye End

<table>
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<th>Part No.</th>
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<td>1.81</td>
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<td>.323</td>
<td>.375</td>
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Strap Clevis

Open-Strap Clevis

Clevis

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<tr>
<th>Clevis</th>
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<th>C</th>
<th>D</th>
<th>F</th>
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Close-Strap Clevis

*All line art dimensions are represented in inches.

Phone: (562) 949-0455 / Fax: (562) 949-0595 / www.controlcables.com
### Threaded Conduit End Fitting

<table>
<thead>
<tr>
<th>Part No.</th>
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<th>B</th>
<th>C</th>
</tr>
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<tbody>
<tr>
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<td>1.4</td>
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<tr>
<td>071</td>
<td>2.0</td>
<td>3.3</td>
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### E-Clip Conduit End Fitting

- **Part No.:** 074
- **Use E-Clip:** 175-435-025

### Grooved Conduit End Fitting

- **Part No.:** 072

### Clip-Lock Conduit End Fitting

- **Part No.:** 075
  - For .125 or .187 thick material

### 45° Clip-Lock Conduit End Fitting

- **Part No.:** A
  - 076 .13
  - 077 .20

### Threaded End Fitting

<table>
<thead>
<tr>
<th>Part No.</th>
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<th>C</th>
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### Eye End

<table>
<thead>
<tr>
<th>Part No.</th>
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</tr>
</tbody>
</table>

### Control Cables

Phone: (562) 949-0555 / Fax: (562) 949-0595 / www.controlcables.com
Side-Mount Lever

- Dimension A is with the lever in full “OFF” position. Use dimension A in calculating cable length.
- Dimension B minimum is: With the in full “ON” position and adjustable for minimum (CCW) travel. Use dimension B minimum during installation and initial adjustment. Turn knob (CW) to add travel and increase brake pressure settings.
- Dimension B maximum is the with the lever in full “ON” position and adjusted for maximum (CW) travel.

<table>
<thead>
<tr>
<th>Brake Lever</th>
<th>Innermember Fitting</th>
<th>Conduit Fitting</th>
<th>Dimension</th>
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<tbody>
<tr>
<td></td>
<td>3000 1500 lbs</td>
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<tr>
<td>W40008</td>
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<td>073 062</td>
<td>2.27 2.91 4.51</td>
</tr>
</tbody>
</table>

Side Mount W40008

2.5 inches (64mm) wide side plates, with three alternate sets of cable clamp holes for cowl, instrument panel, seat riser or frame installation.

Supplied with the following hardware:
- Clevis Pin
- Cotter Pin
- Washer
- Mounting Spacers (2)
- Cable Clamp
- Clamp Base
- Clamp Spacers (2)

Side Mount W40009

2.5 inches (64mm) wide side plates, one cable. For cowl, instrument panel, seat riser or frame installation. No cable support.

Lever supplied with the following hardware:
- Clevis Pin
- Cotter Pin
- Washer
- Mounting Spacers (2)
Flange Mount W40010
2.5 inches (64mm) wide side plates; one cable. For bulkhead floor or island (Doghouse) installation. The ridged frame maintains alignment of clevis pin guide slots for improved life of both the pin and side plates.
Supplied with the following hardware:
- Clevis Pin
- Cotter Pin
- Washer
- Cable Clamp
- Clamp Base
- 5/16-24 Bolts
- (2) Nuts (2)

Side Mount W40011
1.5 inches (38mm) wide side plates; one cable. For cowl, instrument panel seat riser or frame installation.
Supplied with the following hardware:
- Clevis Pin
- Cotter Pin
- Washer
- Mounting Spacers (2)
- Cable Clamp

Side Mount W40013
2.5 inches (64mm) wide side plates; two cables. For cowl, instrument panel seat riser or frame installation. Note: When considering load requirements, the load on the lever assembly will be the sum of the load in each cable.
Supplied with the following hardware:
- Clevis Pins (2)
- Cotter Pin (2)
- Washer (2)
- Mounting Spacers (2)
- Cable Clamp
Flange Mount Rigid W40023
2.5 inches (64mm) wide side plates two cable.
For cowl, instrument panel, seat riser or frame installation.

Supplied with the following hardware:
- Clevis Pin
- Cotter Pin
- Washer
- Mounting Spacers (2)
- Cable Clamp
- Clamp Spacers (2)

Side Mount W40028
1.5 inches (38mm) wide side plates two cable.
For cowl, instrument panel, seat riser or frame installation.

Supplied with the following hardware:
- Clevis Pin
- Cotter Pin
- Washer
- Mounting Spacers (2)
- Cable Clamp
- Clamp Spacers (2)

Flange Mount W40078
2.5 inches (64mm) wide side plates; two cables. For bulkhead, floor or island (doghouse) installation. NOTE: When considering load requirements, the load on the lever assembly will be the sum of the load in each cable. Wing flange mounting.

Supplied with the following hardware:
- Clevis Pins (2)
- Cotter Pins (2)
- Washers (2)
- Mounting Spacers (2)
- Cable Clamps
Cablecraft® Ordering Codes

Basic Unidrum Lever

Knob Color
1 - Black 165-505-101 / 2 - Red 165-505-102

Cable Exit Position (See Illustration)
1 - Lower Mount, Left Exit / 3 - Upper Mount, Left Exit
2 - Lower Mount, Right Exit / 4 - Upper Mount, Right Exit

Output End Configuration Cable Size and Type

<table>
<thead>
<tr>
<th>Style</th>
<th>Size</th>
<th>Type</th>
</tr>
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<tbody>
<tr>
<td>1 - Threaded Swivel</td>
<td>VLD</td>
<td>Utility</td>
</tr>
<tr>
<td>2 - Grooved Swivel</td>
<td>VLD</td>
<td>Utility</td>
</tr>
<tr>
<td>3 - Threaded Swivel</td>
<td>LD</td>
<td>Utility</td>
</tr>
<tr>
<td>4 - Grooved Swivel</td>
<td>LD</td>
<td>Utility</td>
</tr>
<tr>
<td>5 - Threaded Cap</td>
<td>VLD</td>
<td>Bristow®</td>
</tr>
<tr>
<td>6 - Grooved Cap</td>
<td>VLD</td>
<td>Bristow®</td>
</tr>
</tbody>
</table>

Travel (inches)
2 - 2" Approx. 90°
3 - 3" Approx. 135°

Overall length (inches)

Unidrum Lever Control and Cable Combination
Optional lever/cable combinations offer a variety of applications for light lever controls.

Cable Exit Positions

1. Threaded Swivel Dimension A Per Stroke (extended)
   2" 6.04” / 3" 8.94"

2. Grooved Swivel Dimension A Per Stroke (extended)
   2" 6.25” / 3” 8.25"

3. Threaded Swivel Dimension A Per Stroke (extended)
   2" 7.18” / 3" 9.18"

4. Grooved Swivel Dimension A Per Stroke (extended)
   2" 6.56” / 3” 8.56"

VLD Utility - Cable Output End Fitting

LD Utility - Cable Output End Fitting

Phone: (562) 949-0455 / Fax: (562) 949-0595 / www.controlcables.com
Q Series Controls
The Q Series self-locking control is available with different levers. For more information on the units' many options, call for details.

C72 Series Controls
The C72 Series friction control is available with different levers. For more information on the units' many options, call for details.

C60 Series Controls
Joystick controls used on spool valves. Available with different lever lengths and handle options to choose from. Units use VLD, LD and MD series cables. Check out the many options available, call for details.

C80 Series Controls
Controls used on Spool Valves. Available in Straight (C85) or right angle (C84). Available with different lever lengths and handle options to choose from. Units use VLD, LD and MD series cables. Check out the many options available, call for details.

Automatic Transmission Controls
Available in T-handle or Round Knob. Optional neutral reverse switch available. Many options available call for details.

Hydrostatic Transmission Controls
Single or dual controls available. Shift or throttle control. Available in linear or non-linear, friction or self-locking. Many options available call for details.
Arens HTS/HTT Series and SignalPro™ Hand Throttle

Arens HTS/HTT Series and the SignalPro™ Hand Throttles give operators of heavy equipment all of the improvements to performance that electronic controls provide in rugged, compact packages. This innovative Hand Throttles offer a reliable, contactless method of movement and position detection that can withstand off-highway conditions. Controls feature encapsulated construction to protect the sensors from dirt, dust, and moisture. The sensor signals are also not affected by extreme heat or cold, providing dependable operation in temperatures from -40°C up to 85°C.

Features:
- Fitted with Hall Effect Sensor
- Adjustable actuating force
- Travel angle 90°
- Allows engine constant RPM at selected rate through lever positions
- Easy to use in combination with Throttle Pedal or Throttle Position Sensor
- CE certified

Arens Electronic Throttle Pedal Control

Arens offers a wide array of innovative throttle pedal controls. This innovative throttle pedal control with integrated contactless method of movement and position detection that can withstand severe off-highway conditions.

Features:
- Digital and analog versions
- Two enclosed return springs
- Additional return spring built in the throttle sensor
- Treadle plate and mounting plate made from die-cast aluminum
- Optional integrated kick-down virtual feedback
- Contactless throttle position sensor (Hall Effect)

Heavy Duty Lever

Uses LD and MD cable.

Marine Throttle Pedal

Constructed of aluminum and uses push/pull cable

Marine Controls

Available in single handle.

Industrial Throttle Pedals

Can use push pull or pull only cables.

Phone: (562) 949-0455 / Fax: (562) 949-0595 / www.controlcables.com
Cable Mounting Hardware

- **161-010-001** VLD U-Bolt / Steel
- **161-010-002** LD U-Bolt / Steel
- **161-010-003** MD U-Bolt / Steel
- **161-010-004** HD U-Bolt / Steel
- **161-010-2KT** LD-MD U-Bolt With Saddle

- **161-011-001** VLD Clamp / Steel
- **161-011-002** LD Clamp / Steel
- **161-011-273** VLD-LD Shim / Steel
- **161-012-000** HD Clip Mount / Steel

- **161-011-M** VLD Swing Over Bracket / 90° Steel
- **161-011-AM** VLD Swing Over Bracket / 90° Aluminum
- **61-011-MS** VLD Swing Over Bracket /Straight Steel

- **161-011-P** P Aluminum 5/16" Half Clamp (Parachute)
- **161-011-V** VLD Aluminum 3/8" Half Clamp
- **161-011-VF** VLD Aluminum 3/8" Full Round Clamp
- **161-011-LF** LD Aluminum 1/2" Full Round Clamp

- **161-011-61** VLD Steel Bulkhead Bracket
- **DC061** LD-MD Steel Bulkhead Bracket
- **T902** VLD-LD-MD Steel Universal Bracket

- **B-69-100** 3/8" Aluminum 90° Bracket

Cable Stops

- **156-416-002** Small Steel Stop
- **156-416-003** 5/16" Brass Stop
- **156-416-004** 3/8" Brass Stop
- **156-416-005** 7/16" Brass Stop
- **156-416-010** No Fray Steel 2-Piece Stop
- **156-416-710** No Fray Steel 2-Piece 1/4-28 Collet Rod

Bellows

<table>
<thead>
<tr>
<th>Part #</th>
<th>Compressed Len.</th>
<th>Extended Len.</th>
<th>Max Travel</th>
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<td>9.7&quot;</td>
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### Rod Ends

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<th>Male Thread</th>
<th>Stud Thread</th>
<th>Hole Size</th>
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</table>

**Part Number Configuration**

- CREF: Fourth digit tells whether rod end is female (F) or male (M).
- CREF: Number tells thread size and (L) after number is for LH thread.
- CREF: 3-Number tells bearing hole size. If there is an (S) after the number it is for a stud then the number is for a stud then the number would represent the stud's thread size.
- A: Aluminum

### Springs

- 7/16 OD .060 X 45 Conv. X 8 Inch Spring: 175-901-1571
- 5/16 OD .047 X 80 Conv. X 6.5 Inch Spring: 175-901-10092
- .330 OD .054 X 44 Conv. X 5.25 Inch Spring: 175-901-1056
- 7/16 OD .050 X 64 Conv. X 10.75 Inch Spring: 175-901-34622
- .330 OD X 6.5 Inch Spring: 175-901-50486

### Eyelets

- 10/32 X 5/16 Aluminum Terminal Eye: EE-3-5-A
- 1/4-28 X 5/16 Aluminum Terminal Eye: EE-4-5-A
### Forged Clevis

<table>
<thead>
<tr>
<th>Part #</th>
<th>Thread A</th>
<th>Pin Size B</th>
<th>Gap C</th>
<th>Length D</th>
<th>Material</th>
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### Machined Clevis

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<th>Material</th>
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### Clevis Pins

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<td>-5</td>
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<td>-8</td>
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Ball Joints

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<th>Shank/Size</th>
<th>Material</th>
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<td>Internal Spring Quick Disconnect</td>
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<td>175-403-001XQ</td>
<td>1/4-28 X 1/4-28</td>
<td>External Spring Quick Disconnect</td>
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<tr>
<td>175-403-002</td>
<td>5/16-24 X 5/16-24</td>
<td>Solid Ball Joint</td>
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<td>175-403-003</td>
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403-001 1/4-28 Ball Joint Stud Only (Large Diam. Ball for Ext. Spring)
403-003 10-32 Ball Joint Stud Only
403-005 1/4-28 Ball Joint Stud Only
403-005T 1/4-28 Ball Joint Stud Only (TITANIUM)

Pivots

<table>
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<th>Part #</th>
<th>Thread</th>
<th>Shank</th>
<th>Grip</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>091-3-3-2</td>
<td>10-32</td>
<td>3/16</td>
<td>1/8</td>
<td>Brass</td>
</tr>
<tr>
<td>091-3-3-3</td>
<td>10-32</td>
<td>3/16</td>
<td>3/16</td>
<td>Steel</td>
</tr>
<tr>
<td>091-3-4-2</td>
<td>10-32</td>
<td>1/4</td>
<td>1/8</td>
<td>Steel</td>
</tr>
<tr>
<td>091-3-4-4</td>
<td>10/32</td>
<td>1/4</td>
<td>1/4</td>
<td>Steel</td>
</tr>
<tr>
<td>091-4-4-2</td>
<td>1/4-28</td>
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<td>1/8</td>
<td>Steel</td>
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<tr>
<td>091-4-4-4</td>
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<td>1/4</td>
<td>Steel</td>
</tr>
<tr>
<td>091-W-3-4</td>
<td>Wire</td>
<td>3/16</td>
<td>1/4</td>
<td>Brass</td>
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<tr>
<td>091-W-4-4</td>
<td>Wire</td>
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<td>1/4</td>
<td>Brass</td>
</tr>
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<td>091-W-4-8</td>
<td>Wire</td>
<td>1/4</td>
<td>1/2</td>
<td>Brass</td>
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<td>DR046-1</td>
<td>10-32</td>
<td>1/4</td>
<td>1/8</td>
<td>Steel</td>
</tr>
<tr>
<td>DR046-2</td>
<td>1/4-28</td>
<td>1/4</td>
<td>1/8</td>
<td>Steel</td>
</tr>
<tr>
<td>DR046-3</td>
<td>5/16-24</td>
<td>1/4</td>
<td>1/8</td>
<td>Steel</td>
</tr>
<tr>
<td>DR050-1</td>
<td>10-32</td>
<td>5/16</td>
<td>1/8</td>
<td>Steel</td>
</tr>
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<td>1/4-28</td>
<td>5/16</td>
<td>1/8</td>
<td>Steel</td>
</tr>
<tr>
<td>DR050-3</td>
<td>5/16-24</td>
<td>5/16</td>
<td>1/8</td>
<td>Steel</td>
</tr>
</tbody>
</table>
## Knobs & T-Handles

### Mushroom Knobs

<table>
<thead>
<tr>
<th>Part #</th>
<th>Thread Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>165-103-001</td>
<td>1/4-28</td>
<td>2&quot; Black Knob</td>
</tr>
<tr>
<td>165-103-002</td>
<td>1/4-20</td>
<td>2&quot; Black Knob</td>
</tr>
<tr>
<td>165-103-003</td>
<td>5/16-24</td>
<td>2&quot; Black Knob</td>
</tr>
<tr>
<td>165-103-004</td>
<td>3/8-24</td>
<td>2&quot; Black Knob</td>
</tr>
<tr>
<td>165-103-006</td>
<td>5/16-18</td>
<td>2&quot; Black Knob</td>
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### T-Handles

<table>
<thead>
<tr>
<th>Part #</th>
<th>Thread Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>165-172-002</td>
<td>1/4-20</td>
<td>Black T-Handle (STOP)</td>
</tr>
<tr>
<td>165-172-003</td>
<td>1/4-20</td>
<td>Red T-Handle (SHUTOFF)</td>
</tr>
<tr>
<td>165-172-005</td>
<td>1/4-20</td>
<td>Black T-Handle</td>
</tr>
<tr>
<td>165-172-007</td>
<td>10/32</td>
<td>Aluminum T-Handle</td>
</tr>
<tr>
<td>165-172-013</td>
<td>5/16-18</td>
<td>Black T-Handle</td>
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<tr>
<td>165-172-014</td>
<td>1/4-28</td>
<td>Black T-Handle</td>
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### Knobs

<table>
<thead>
<tr>
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<th>Description</th>
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<tbody>
<tr>
<td>165-172-302</td>
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<tr>
<td>165-172-306</td>
<td>1/4-20</td>
</tr>
<tr>
<td>165-172-307A</td>
<td>10/32</td>
</tr>
<tr>
<td>165-172-307P</td>
<td>10/32</td>
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<tr>
<td>165-172-308</td>
<td>1/4-28</td>
</tr>
<tr>
<td>165-172-309</td>
<td>1/4-20</td>
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<tr>
<td>165-172-315R</td>
<td>1/4-28</td>
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<tr>
<td>165-172-315RF</td>
<td>1/4-28</td>
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<tr>
<td>165-172-316R</td>
<td>1/4-20</td>
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<tr>
<td>165-172-316RF</td>
<td>1/4-20</td>
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<tr>
<td>165-172-317</td>
<td>1/4-20</td>
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<tr>
<td>165-172-321</td>
<td>1/4-20</td>
</tr>
<tr>
<td>165-172-500</td>
<td>10/32</td>
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### Twist-Lock Handles

<table>
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<td>165-172-809</td>
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<tr>
<td>300-057-008</td>
<td>Twist-Lock</td>
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### PTO Knobs

<table>
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<th>Description</th>
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<tbody>
<tr>
<td>165-183-001</td>
<td>1/4-28</td>
<td>PTO Knob (Red)</td>
</tr>
<tr>
<td>165-183-002</td>
<td>1/4-20</td>
<td>PTO Knob (Red)</td>
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<tr>
<td>165-183-003</td>
<td>5/16-18</td>
<td>PTO Knob (Red)</td>
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<tr>
<td>165-183-004</td>
<td>3/8-24</td>
<td>PTO Knob (Red)</td>
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</table>
Lite Cable [Pull Only]
We carry many styles of low load pull only cables. Shown is a sampling of the many style cables and the types of the many fittings we have available.

Cable Sizes and Styles

Shown: A non-flexible light weight strand of 1X19 wires. Designed and used for automotive, motorcycle & marine light weight applications

Shown: Similar to 7X7 except for its wire strand core in place of a fibercore. Comparable to 7X7 In flexibility and abrasion resistance.

Shown: This construction is made of 7X19 wires each with a wire strand core except for similar sizes when a 7X7 indication where wire rope core is used.

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Construction</th>
<th>Material</th>
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</thead>
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<tr>
<td>3/64</td>
<td>7X7</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>3/64</td>
<td>1X19</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>1/16</td>
<td>7X7</td>
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<tr>
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</tr>
<tr>
<td>3/32</td>
<td>7X7</td>
<td>Galvanized Steel</td>
</tr>
<tr>
<td>3/32</td>
<td>7X19</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>3/32</td>
<td>1X19</td>
<td>Stainless Steel</td>
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Housing Styles

(FWB) Flat Wire Bowelon Housing Style

(L.L.) Long Lay Housing Style

<table>
<thead>
<tr>
<th>Outside Diameter</th>
<th>Inside Diameter</th>
<th>Type</th>
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<tr>
<td>.200</td>
<td>.060</td>
<td>LL</td>
</tr>
<tr>
<td>.210</td>
<td>.080</td>
<td>FWB</td>
</tr>
<tr>
<td>.270</td>
<td>.096</td>
<td>RWB</td>
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### Barrel Fitting

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<th>Length</th>
<th>Material</th>
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</thead>
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<tr>
<td>.135</td>
<td>.200</td>
<td>Brass</td>
</tr>
<tr>
<td>.157</td>
<td>.285</td>
<td>Brass</td>
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<tr>
<td>.215</td>
<td>.400</td>
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<td>.235</td>
<td>.240</td>
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<td>.235</td>
<td>400</td>
<td>Brass</td>
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<tr>
<td>.250</td>
<td>500</td>
<td>Brass</td>
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</table>

Many More Sizes (Not Shown in Above Chart) To Choose From. Call for More Information

### Cable Stops

- Ball Shank (BS)
- Ball (B)
- Plain (P)

### Housing Fittings

<table>
<thead>
<tr>
<th>Thread (T)</th>
<th>Thread Length (A)</th>
<th>Overall Length (B)</th>
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<tr>
<td>10-24</td>
<td>.875</td>
<td>1.20</td>
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<tr>
<td>10-32</td>
<td>.875</td>
<td>1.20</td>
</tr>
<tr>
<td>5 MM</td>
<td>.875</td>
<td>1.20</td>
</tr>
<tr>
<td>1/4-28</td>
<td>1.30</td>
<td>2.0</td>
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### Elbows

<table>
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<th>Length C</th>
<th>Overall L</th>
<th>Type</th>
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<td>6 M</td>
<td>1.0</td>
<td>1.7</td>
<td>A</td>
</tr>
<tr>
<td>1/4-28</td>
<td>1.5</td>
<td>2.3</td>
<td>A</td>
</tr>
<tr>
<td>5/16-24</td>
<td>1.0</td>
<td>1.5</td>
<td>A</td>
</tr>
<tr>
<td>5/16-24</td>
<td>1.5</td>
<td>2.3</td>
<td>A</td>
</tr>
<tr>
<td>5/16</td>
<td>1.5</td>
<td>1.5</td>
<td>B</td>
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### Eyelets

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<th>C</th>
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<tr>
<td>1.0</td>
<td>1/8</td>
<td>1/16</td>
</tr>
<tr>
<td>1.0</td>
<td>3/16</td>
<td>1/16</td>
</tr>
<tr>
<td>1.0</td>
<td>1/4</td>
<td>1/16</td>
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</tbody>
</table>

### Clevis

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
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<tbody>
<tr>
<td>7</td>
<td>.25</td>
</tr>
<tr>
<td>1.2</td>
<td>.40</td>
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</table>
**Pertronix Ignitor**

“Never Change Points Again”. A solid state electronic system fits entirely inside the distributor. No complicated wiring makes for easy installation. Compatible with 12 volt negative ground systems. Guaranteed for 30 months.

**Pertronix Flame Thrower Coils**

- 40,000 available volts (Ignitor)
- 45,000 available volts (Ignitor II)

Maximize energy and reliability over the full RPM range. Enables larger plug gaps for greater fuel efficiency and more power. Delivers an average of 15% more spark energy and voltage.

**Pertronix HEI Distributors**

Pertronix HEI Ignition Systems: New Distributor, Operates without misfires up to minimum 7500 RPM nearly 3000 RPM higher than most HEI distributors produces 67% more energy in the coil. Unit delivers twice the energy across the spark gap (during a 1 millisecond burn time) spark duration and more energy to the spark plug allows wider plug gaps. Spark plug gaps can be set to (.050”-.055) which increases flame kernel growth.

**Pertronix Spark Box**

Second Strike is the only ignition system to provide a powerful second spark throughout the entire RPM range. No special distributor or coil is required. A simple five wire hook-up to your existing system completes the installation. Also has a built-in digital rev limiter.

---

Phone: (562) 949-0455 / Fax: (562) 949-0595 / www.controlcables.com
Steel Spoon Throttle Pedal
Early Ford “Spoon” style throttle pedal. Laser cut reversible splined arms (36 adjustment), die stamped mounting bracket, 1-5/8 wide for more stability. Oil lite bushings for smoother operation plus double splined shaft. Available in chrome finish only.
Pedal
P/N MV-100
Rubber Insert
P/N MV-100R

Throttle Cable Bracket & Dual Spring Assembly
Stainless Steel Bracket & Dual Plated Spring assembly designed for strength & durability.
Stainless Throttle Cable Bracket w/ Spring
P/N B-T-100
Stainless Throttle Cable Bracket
P/N B-T-101
Dual Plated Spring Kit
P/N SP-100

Steel Brake Pad
Available in chrome finish.
Pad W/Rubber Insert
P/N MV-1000
(Badly blurred in the image)

Billet Aluminum Brake Pad
Machined from 7075-T6 aluminum, with rubber insert. Available in satin finish.
Satin with insert
P/N MV-2001

Floor Mounted Throttle Pedal
Pedal eliminates routing cable through firewall. Billet aluminum construction with black rubber insert. Unit comes complete with all mounting hardware for easy installation.
Pedal
P/N MV-301

Universal Throttle Cable
Nylon lined with flexible stainless inner cable. U-Cut-To-Fit Unit comes complete with ball joint and pivot. Cable comes standard in 24 and 36 inch lengths. Special lengths available.
P/N UV-100-24
P/N UV-100-36 Carb.
P/N UV-101-24
P/N UV-101-36 TPI
(Shown: Barrel Style for TPI)

Stainless Universal Throttle Cable
P/N UV-200-24
P/N UV-200-36 Carb.
P/N UV-201-24
P/N UV-201-36 TPI
(Shown: UV-200-36)

Telescopic Throttle Cable
Telescopic throttle cable designed to mount direct from firewall to carb. No manifold bracket needed. Seals out engine fumes and heat from passenger compartment. Polished Stainless Steel.
P/N VT-10-16

Control Cables
Phone: (562) 949-0455 / Fax: (562) 949-0595 / www.controlcables.com
Double Remote Lever
Designed and created from billet aluminum, built-in positive stop. Cables are 7" and 15" flexible stainless inner cable with nylon lined outer housing. Because of different lengths cables are U-Cut-To-Fit. Unit comes complete with no fray stop and mounting clips. Custom length cables are available, call for more information.
P/N L-200-84-180

Single Remote Lever
Designed and created from billet aluminum, built-in positive stop. Cable is 7’ or 15’ flexible stainless inner cable with nylon lined outer housing. Because of different lengths cable is a U-Cut-To-Fit. Unit comes complete with no fray stop and mounting clips. Custom length cable is available, call for more information.
P/N L-100-84 (3/4” cable)
P/N L-100-180 (180” cable)

Billet Multi Use Cable
Designed with aluminum head tube and a billet aluminum knob. 10ft nylon lined cable housing. U-Cut-To-Fit Cable. Unit comes complete with no fray stop and mounting clips. Custom length cables available, call for more information.
P/N 69VDD-120 (Round Knob)
P/N 69VDD-120T (Aluminum T-handle)
P/N 69VDD-120S (Round knob with solid wire)
P/N 69VDD-120ST (Aluminum T-Handle with solid wire)

Billet Multi Use Cable (With Stainless Housing)
Billet aluminum knob with aluminum head tube. 7ft braided stainless steel nylon lined cable housing. Available in flexible inner or solid stainless wire. U-Cut-To-Fit. Custom length cables are available. Units come complete with no fray stop and mounting clips.
P/N 69SDD-84 (Round Knob)
P/N 69SDD-84T (Aluminum T-handle)
P/N 69SDD-84S (Round knob with solid wire)
P/N 69SDD-84ST (Aluminum T-Handle with solid wire)
Stainless Steel Single Line Clamps
Available in sizes: 3/16", 1/4", 5/16", 3/8" and 1/2". Clamps are ideal for brake lines and cables. Comes complete with stainless button head allen screws.

Stainless Steel Single Line Clamps
P/N SSC-3 [3/16] Pack of 12
P/N SSC-4 [1/4] Pack of 12
P/N SSC-5 [5/16] Pack of 6
P/N SSC-6 [3/8] Pack of 6
P/N SSC-8 [1/2] Pack of 6

Stainless Steel Double Line Clamps
Stainless Steel Double Line Clamps
P/N DSSC-3-3 [3/16] Pack of 6
P/N DSSC-4-4 [1/4] Pack of 6
P/N DSSC-5-5 [5/16] Pack of 6
P/N DSSC-6-6 [3/8] Pack of 6
P/N DSSC-8-8 [1/2] Pack of 6
P/N DSSC-3-8 [3/16-1/2] Pack of 6

Black Nylon Line Clamps
Available in sizes: 3/16", 1/4", 5/16" 3/8", 7/16" and 1/2." Clamps are ideal for brake lines and cables. Sold in Bags of 10.

P/N MV-3 [3/16] Pack of 10
P/N MV-4 [1/4] Pack of 10
P/N MV-5 [5/16] Pack of 10
P/N MV-6 [3/8] Pack of 10
P/N MV-7 [7/16] Pack of 10
P/N MV-8 [1/2] Pack of 10

Collet End Rod
2-piece, designed to eliminate cable fraying 1/4-28 thread.
P/N 156-146-710
(For 1/16 cable only)

Collet Stop
P/N 156-146-010

Control Cables
Phone: (562) 949-0455 / Fax: (562) 949-0595 / www.controlcables.com
OEM Style Foot Brake Lever
No matter what your project be it a Street Rod, Classic Truck, Custom, or Muscle Car. Our foot brake lever fits most applications. Push on, push off brake switch included.
P/N B2000

Lay-Down Ratchet Style Brake Lever
Perfect for most Street Rod, Classic Truck, Custom or Muscle Cars. Total length 11” center of mount to center of mount 4-1/8”. Arm extends down 1-5/8” below mounting tabs. Easy installation
P/N B1000

Emergency Brake Junction Bracket
Makes ordering custom brake cables easy, brackets total length is 7-1/2”. Easy installation
P/N B-EZ 100

Center Pull Bracket
(Wheel to wheel setup)
P/N CPB-1

Equalizer Bar
(For use on a 3 cable system)
P/N BEQ-3

Dual Cable Housing Bracket
(Bolt-on)
P/N B-E-2-B

Brake Cable Couplers
(For joining brake cables)
P/N BCC-1
P/N BCC-2

Single Cable Housing Bracket
(Bolt-on)
P/N B-E-1-B
How To Order Street Rod Brake Cables

All of our brake cables are built with OEM style flat wound housing. Stainless steel inner cable and seals are used to help promote extended cable life. Our cables feature totally swaged construction which eliminates set screws that can come loose. For more information give one of our techs a call, they will be able to help you with any questions you might have.

Instructions:
1. Familiarize yourself with various hardware and brake layout styles.
2. Fill in the blanks on the layout sheet (on following page) and return by mail or fax.

(HELPFUL HINT: Use vacuum hose to layout housing measurements)

We will ship your custom set of brake cables, designed for your vehicle, within 3 days of receiving your order.

Don't Trust Your Car Investment To Anything But the Best! *** You Deserve It ***

Control Cables

Phone: (562) 949-0455 / Fax: (562) 949-0595 / www.controlcables.com
Brake Cable Layout (Revision B)

Center Pull Style

(One Continuous Cable Two Housing)

Side Pull Style

Frame Bracket
Equalizer Bar

G Dim.
11” Min

Optional Rod

(A) Passenger side housing-backing plate or caliper bracket to front housing bracket or center of CCI bracket.
(B) Driver side housing-backing plate or caliper bracket to front housing bracket or center of CCI bracket.
(C) Exposed cable (center pull only) one continuous cable.
(D) Mounting bracket to end of adjusting rod/front cable.
(E) Front housing-bracket to bracket or center of CCI Bracket.
(F) Mounting bracket to clevis pin in lever, tip of threaded rod or inside of cable stop.

(F) Mounting bracket to mounting Bracket

A
B
* C
* D

*CCI bracket doesn’t require these dimensions

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<tr>
<th>Brake Type</th>
<th>Make</th>
<th>Yr</th>
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<tbody>
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<table>
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</tr>
<tr>
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<tr>
<td>2.</td>
</tr>
<tr>
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<td>4.</td>
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</table>
P/N GT-1  Available: S - L

P/N TS-R1  Available: S - XXL

P/N APRON  One Size Fits All

P/N TS-R-2  Available: L - XXL

P/N FLEX FIT SR-1  Available: S-M / L-XL

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