

CABLE CATALOGUE



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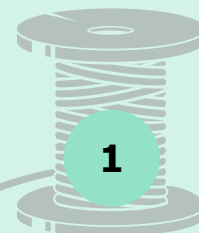
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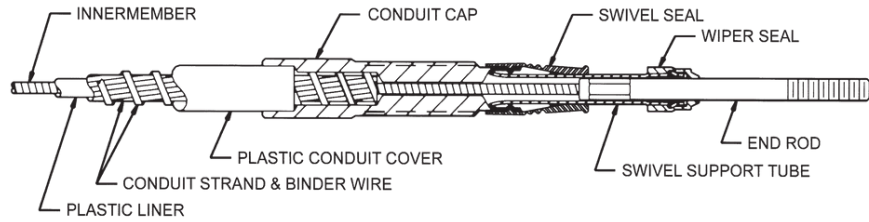
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**** request our catalogues for linkages, levers, pedals & controls**





Conduit: Superior binder wire design outperforms the competition's imitations.

InnERMEMBER: Made of flexible 1 x 19 carbon strand and armored with a swaged steel jacket for smoothness and compression strength.

Lubrication: All standard Cablecraft controls are lubricated during construction with carefully selected compounds to provide optimum performance. No further service is necessary or recommended.

End Rods: All end rods are 300 series stainless steel with a burnished finish.

Wiper Seals: Designed to prevent entry of moisture and contamination into the support tube and provide a bearing surface for the end rod. Model 5 seals are standard and Model 6 seals are optional for severe conditions.

Support Tube and Swivel Seal: The swivel joint between the support tube and conduit cap is designed to allow 8 degrees swivel from control center line and protects this joint from moisture and contamination.

Conduit Caps: Threaded for bulkhead installation or grooved for clamp application.



Pull-Only Brake Controls



Pull-Only Clutch Control Cables



Pull-Only Tension Controls



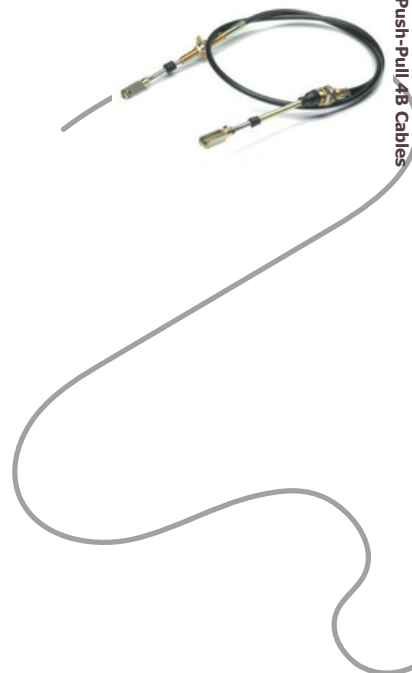
Push-Pull Standard Controls



Pull-Only T-Flex Controls



Push-Pull 48 Cables





The following cautions describe application and installation information:

1. Do not install Cablecraft® control cables on any application which may exceed any of the design parameters of the control cable.
2. Cablecraft control cables are designed and assembled to be non-repairable.
Do not attempt to modify this control cable.
3. Cablecraft control cables are designed to be contaminant resistant: not contaminant proof.
Protect the cable from contaminants such as gas, oil, diesel fuel, water, dirt, and chemicals which may damage the control cable.
4. Protect the Cablecraft control cable from physical damage by paint, kinking, vibration, etc., which may damage the control cable.
5. Cablecraft control cables have the best load capacity in the pull mode. Always install the control cable so it pulls the greatest load, and pushes the smaller load; and pulls the item into the neutral or off position.
6. Do not install the Cablecraft control cable with power on or the engine running.
Serious injury or death could result.
7. The usable stroke must be centered within the available travel (see Figure 1 below).
8. The swivel angle must be centered within the available swivel angle (see Figure 2 below).
9. This cable is not for use on aircraft installations.

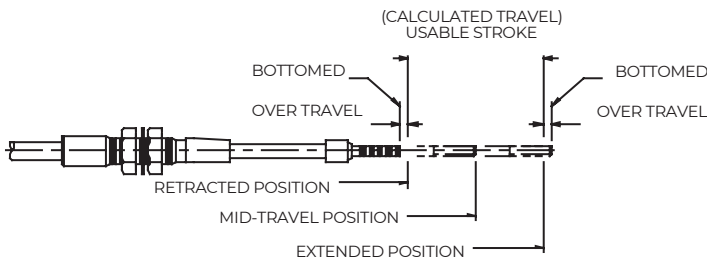


FIGURE 1

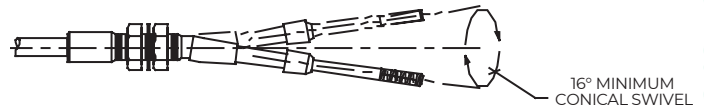
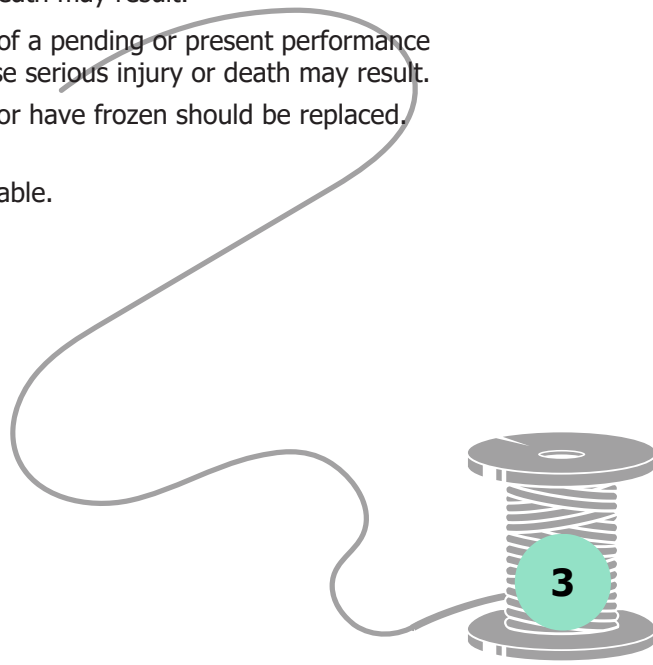


FIGURE 2

The following warnings describe important push-pull cable operation and maintenance information:

1. Do not adjust the Cablecraft control cable with the power on or the engine running.
Serious injury or death could result.
2. A gradual or sudden increase in the no-load friction (cable disconnected at both ends) of a Cablecraft control cable is an indication of a pending or present performance problem.
The control cable should be replaced, otherwise serious injury or death may result.
3. A gradual or sudden decrease in the usable stroke is an indication of a pending or present performance problem. The Cablecraft control cable should be replaced, otherwise serious injury or death may result.
4. Cablecraft control cables which have moisture inside of them and/or have frozen should be replaced.
Do not apply heat to thaw or dry control cables.
5. Cablecraft control cables are lubricated for the life of the control cable.
Do not remove the seals or lubricate the control cable.
6. Cablecraft control cables are designed to be non-repairable.
Do not attempt to repair this control cable.





Simple to install and easy to maintain, these versatile pull controls are found on numerous types of mechanical equipment. Specifically designed for applications that require a high load capability and low deflection, this flexible control is designed to transmit pull motion between two mechanical devices without the use of rods, bellcranks, or other rigid mechanical linkage.

Common Applications: Park brakes, pull-only cable systems

- High load capacity
- Low deflection
- Installed bend radius down to 5 inches

Material:

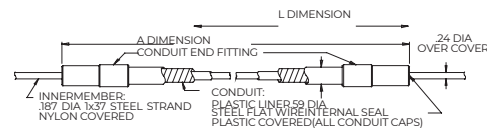
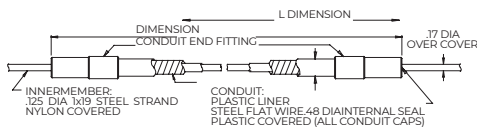
- Carbon steel and plastic

Suggested End Fittings:

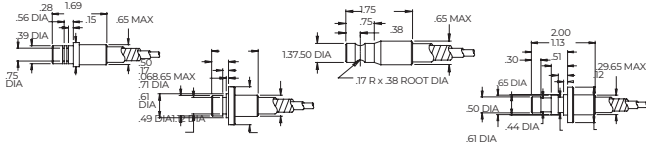
- All 1,500-3,000 lb. brake cable fittings
- Rod ends
- Clevises

1500 Series Ultimate Load: 1500lb
Minimum Bend Radius: 5"

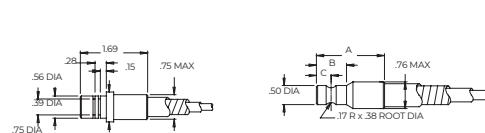
3000 Series Ultimate Load: 3000lb
Minimum Bend Radius: 7"



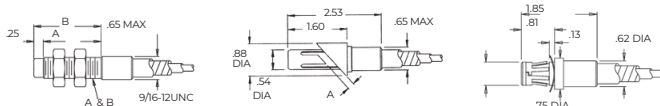
Grooved End Fittings



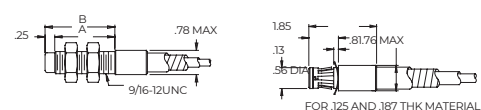
Grooved End Fittings



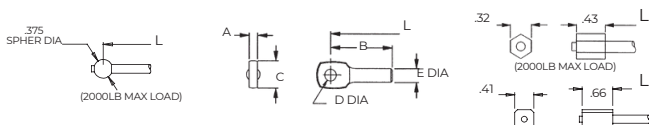
Threaded End Fittings 48° Clip-Lock End Fitting Clip-Lock End Fitting



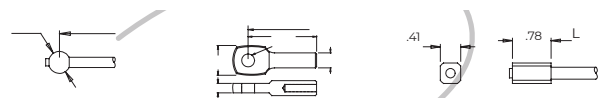
Threaded End Fittings Clip-Lock End Fitting



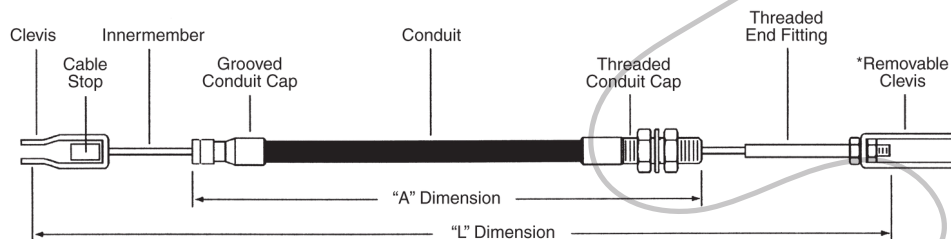
Ball End Eye End Cable Stop



Ball End Eye End Cable Stop



WARNING - Since the manufacturer is unable to determine all applications in which a part may be placed, it is the user's responsibility to determine the suitability of the part for its intended use. This is especially true where safety is a factor. Incorrect application or installation may result in property damage, bodily injury, or death.



This 800 lb. pull-only brake cable provides an efficient and flexible means to transmit pull only motion between two mechanical devices. Simple to install and easy to maintain, our versatile pull controls are found on many types of mechanical equipment.

Common Applications:

Brake levers, lift levers, and steering assemblies

- All hardware meets recognized industry related standards for environmental protection and corrosion resistance
- Wide variety of fittings to meet our customers design needs

Material:

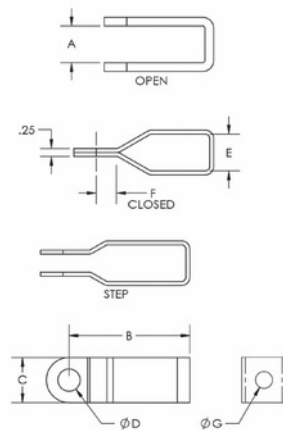
- Standard 1 x 19 galvanized wire rope innermember with nylon jacket
- Nylon core, galvanized stranded conduit with durable nylon covering

Specifications:

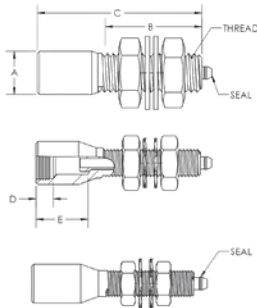
- Operating Temperature: -54°C – 110°C
- Minimum Bend Radius: 5" (152 mm)

Strap Clevis (Dimensions - Inches)

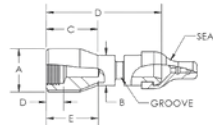
	A	B	C	D	E	F	G
Open	0.43	1.62	0.62	0.31	--	--	0.266
	0.51	1.62	0.62	0.31	--	--	0.266
	0.51	2.50	0.62	0.31	--	--	0.266
	0.51	1.94	0.75	0.38	--	--	0.266
Step	0.19	1.56	0.62	0.31	0.51	0.31	0.266
	0.19	1.56	0.62	0.25	0.51	0.31	0.266
	0.25	1.75	0.62	0.31	0.51	0.38	0.266
	0.25	1.75	0.62	0.38	0.51	0.38	0.266
	0.25	1.50	0.62	0.25	0.51	0.38	0.266
	0.25	2.38	0.75	0.31	0.51	0.31	0.266
	0.25	2.38	0.75	0.38	0.51	0.31	0.266
Closed	--	1.75	0.62	0.31	0.51	0.28	0.316



Threaded Conduit Cap and Detail

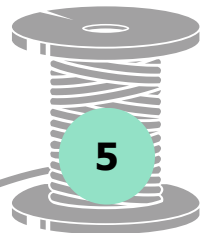
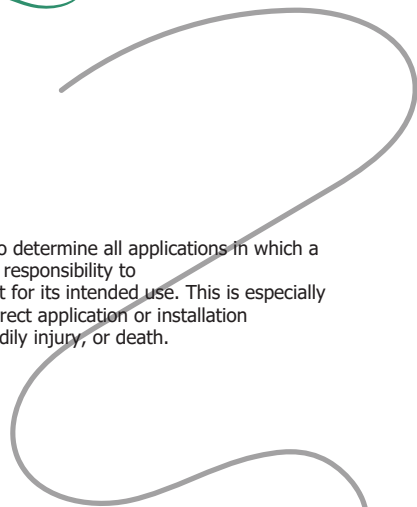


Grooved Conduit Cap and Detail



WARNING

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This flexible control is designed to transmit pull motion between two mechanical devices without the use of rods, bellcranks, or other rigid mechanical linkage. Simple to install and easy to maintain, these versatile pull controls are specifically designed for applications that require a high load capability and low deflection.

Common Applications: Clutch controls, heavy-duty lanyards

- Custom engineered assembly
- Installed bend radius down to 5 inches
- Sealed and lubricated for life

Material:

- Nylon covered innermember
- Plastic covered conduit

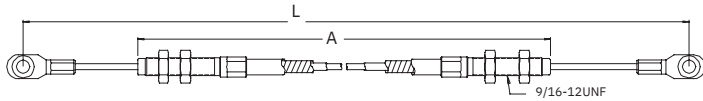
Suggested End Fittings:

- Clevis

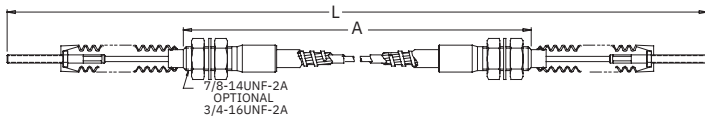


A = Conduit length; L = Length overall

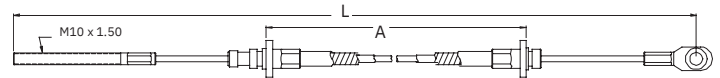
General Motors® style clutch cable, 1500 lb brake conduit and innermember
(A = Conduit length; L = Length overall)



Generic clutch replacement cables HD conduit, special clutch innermember
(5/16-24 end rods) (3/8-24 end rods)



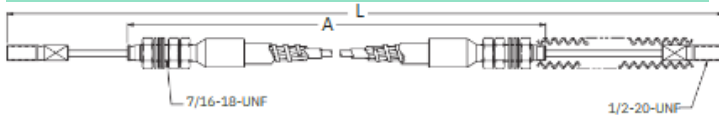
General Motors® style clutch cable, 1500 lb brake conduit and innermember



HD conduit, brake/clutch innermember 500 lb. pull-only operating load.

T = Travel 2"- 6" L = Length overall

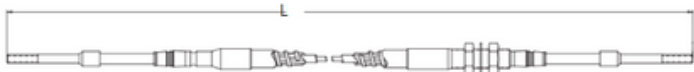
Mack Truck® style clutch cable, HD conduit and special clutch innermember
(A = Conduit length; L = Length overall)



(5/16-24 end rods MD) Grooved-Grooved
(3/8-24 end rods HD) Grooved-Grooved



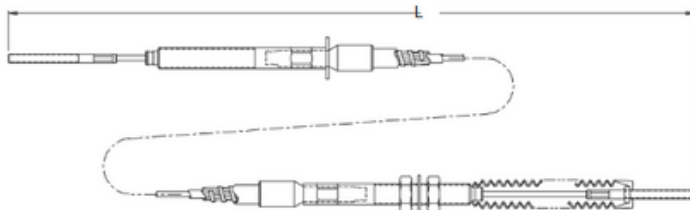
(5/16-24 end rods MD) Grooved-Threaded 11/16-16
(3/8-24 end rods HD) Grooved-Threaded 7/8-14



(5/16-24 end rods MD) Threaded-Threaded (both ends 11/16-16)
(3/8-24 end rods HD) Threaded-Threaded (both ends 7/8-14)

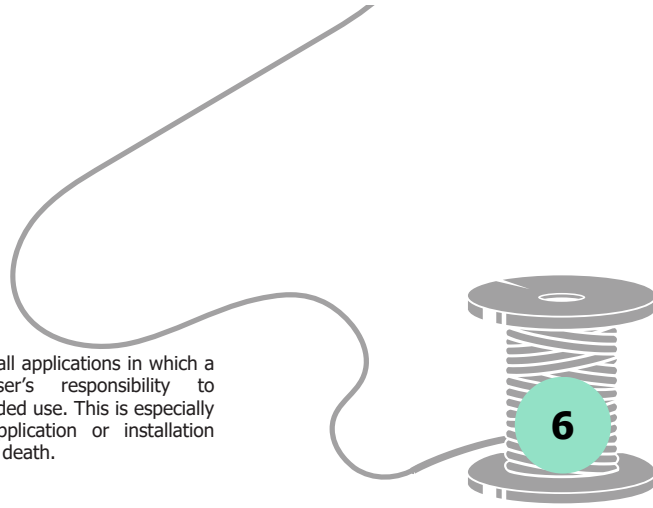


Mack Truck® style clutch cable, HD conduit and special clutch innermember
(A = Conduit length; L = Length overall)



WARNING

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Durable and long lasting, this versatile cable assembly is easily customized with threaded or grooved ends, and a wide range of end fittings.

Common Applications:

- Throttle control, blade engagement, choke, latch release, window release, seat release
- Durable, long lasting construction
- Wide range of end fittings, with a stainless steel option
 - Low cost, economical choice
 - Sealed and lubricated for life

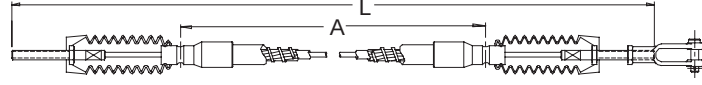
Material:

- Brass conduit caps (optional)
- Stainless end fittings (optional)

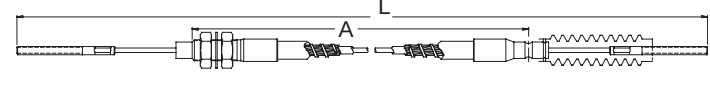
Suggested End Fittings:

- Rod ends
- Clevises
- Threaded end fittings

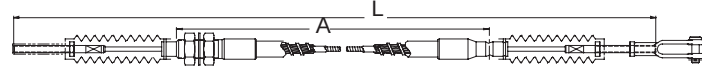
(1/4-28 end rods) Grooved-Grooved
(10-32 end rods) Grooved-Grooved



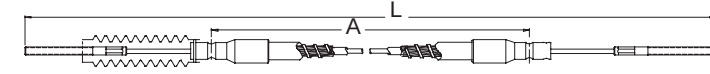
(1/4-28 end rods) Threaded-Grooved
(10-32 end rods) Threaded-Grooved



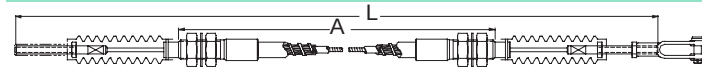
(1/4-28 end rods) Threaded-Grooved
(10-32 end rods) Threaded-Grooved



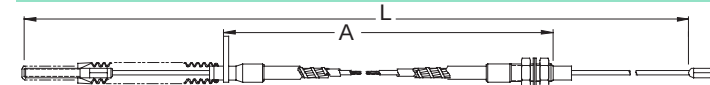
(1/4-28 end rods) Grooved-Grooved
(10-32 end rods) Grooved-Grooved



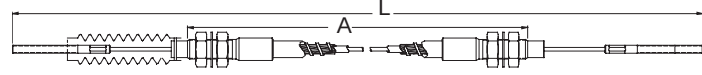
(1/4-28 end rods) Threaded-Threaded
(10-32 end rods) Threaded-Threaded



(1/4-28 end rods) Special

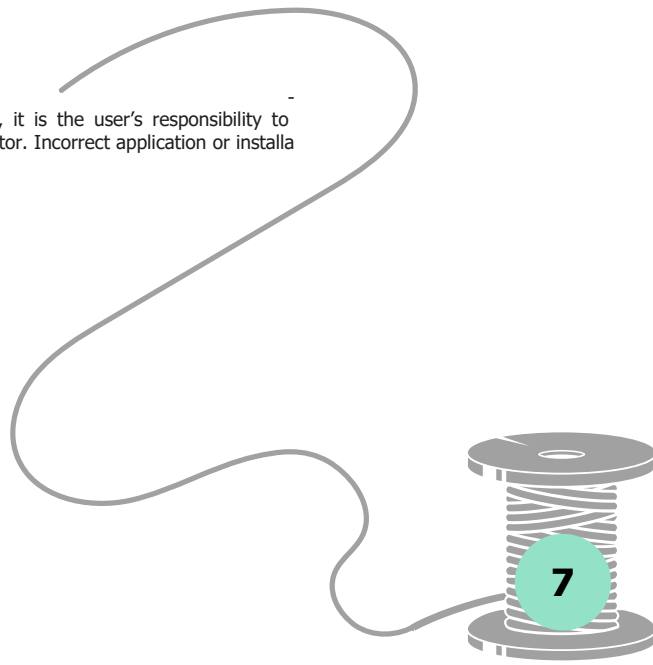


(1/4-28 end rods) Threaded-Threaded
(10-32 end rods) Threaded-Threaded



WARNING

Since the manufacturer is unable to determine all applications in which a part may be placed, it is the user's responsibility to determine the suitability of the part for its intended use. This is especially true where safety is a factor. Incorrect application or installation may result in property damage, bodily injury, or death.





Cost-effective product range for pull only applications. The inner cable is multi-strand, high-tensile steel and is tinned or galvanized for corrosion resistance. The outer is a flexible conduit comprised of one or two high-tensile steel wires, wound spirally to give maximum compression strength.

Common Applications:

Clutch cable, throttle cable, hand brake cable, engine stop cable

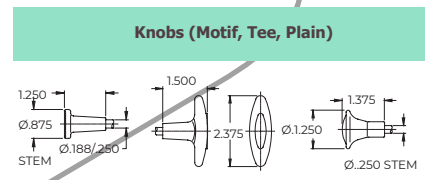
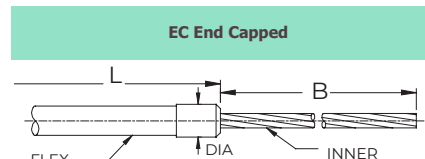
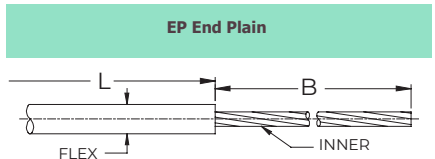
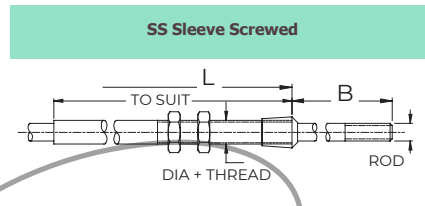
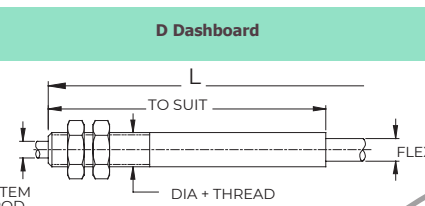
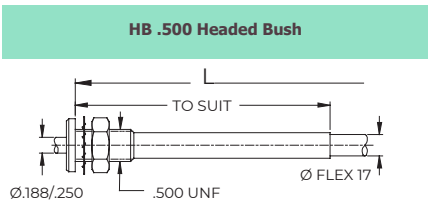
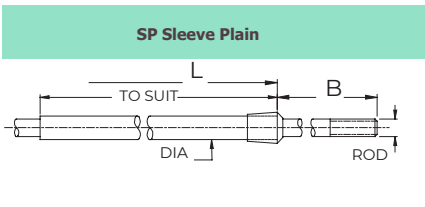
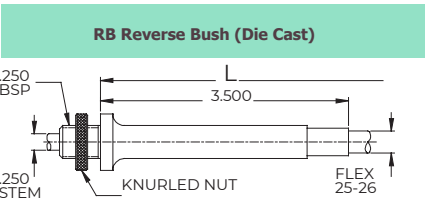
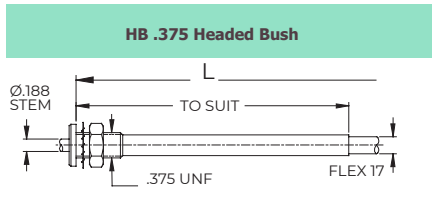
- Protective covering of polypropylene, PVC, or can be uncoated
- Some sizes can be fitted with high density polypropylene liner for extra smooth low-friction operation
- Can fit a variety of accessory components, available in both UNF and metric thread options
- Wide range of sizes combinations w/loads range of 0 – 2200 lbs.
- Armored strands and solid wires available

Material:

- Plated steel (stainless steel optional)
- Pull-only twin-V high compression load conduit, lined and unlined

Suggested End Fittings:

- Clevises • Swivels
- Eye ends • Knobs



Line art dimensions are represented in inches

Commercial product range that is cost-effective for simple push-pull applications. The inner member consists of a multi-strand high tensile steel cable, which is over-wound with an armored covering to prevent spreading under compressive loads. This also gives a smooth surface for low-friction sliding action.

Common Applications:

- Clutch controls, heavy duty lanyards, truck crane – cross link system, power take off, gear selection, hydraulic valve systems, accelerator systems
- Can be used in conjunction with most control lever systems
- Black UV stabilized polypropylene provides a tough hard-wearing jacket
- Will withstand working stress between -40°F and 212°F
- Highly resistant to abrasion and most organic and inorganic media
- Available with swivel flange, in both metric and UNF thread mounting fittings
- Economically priced for cost effective solutions
- Available in four different sizes

Material:

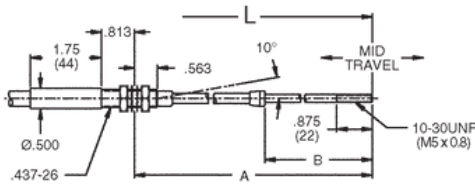
- Plated steel standard (stainless steel optional)
- Plastic coated high tensile steel lined conduit
- Armored push-pull steel innermember
- Black polypropylene

Suggested End Fittings:

- Rod ends
- Clevises

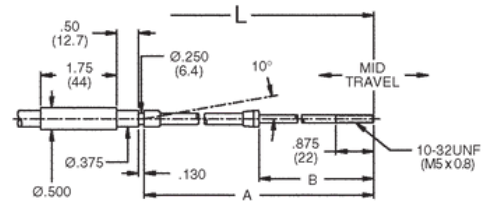


Push-Pull 4B30 – M5 Specifications



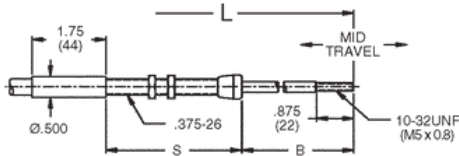
B Bulkhead (Threaded)

Travel	1"	25	2"	50	3"	75	4"	100
Dim "A"	4.375"	110	5.875"	150	7.375"	187	8.875"	225
Dim "B"	1.5"		38.2"	50	2.5"	63	3"	76



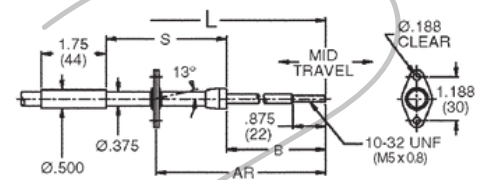
C Clamp (Grooved)

Travel	1"	25	2"	50	3"	75	4"	100
Dim "A"	3.785"	98	5.375"	136	6.875"	175	8.375"	213
Dim "B"	1.5"		38	50	2.5"	63	3"	76



D Dashboard (Rigid End)

Travel	1"	25	2"	50	3"	75	4"	100
Dim "S"	3.25"	82	3.25"	82	4.5"	114	4.5"	114
"B" Min	1.5"		38	50	2.5"	63	3"	76

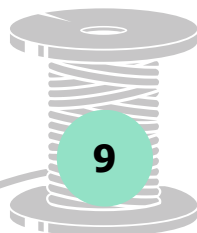


SF Swivel Flange

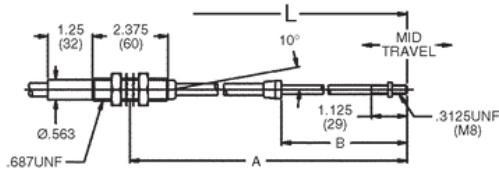
Travel	1"	25	2"	50	3"	75	4"	100
"S" Min	1.75"	44	2.75"	70	3.75"	95	4.75"	120
"B" Min	1.5"		38	50	2.5"	63	3"	76

WARNING Since the manufacturer is unable to determine all applications in which a part may be placed, it is the user's responsibility to determine the suitability of the part for its intended use. This is especially true where safety is a factor. Incorrect application or installation may result in property damage, bodily injury, or death.

All line art dimensions are represented as follows: in (mm)
Note: Threads available in both UNF and metric

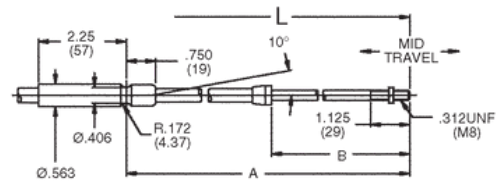


Push-Pull 4B45 – M8 Specifications



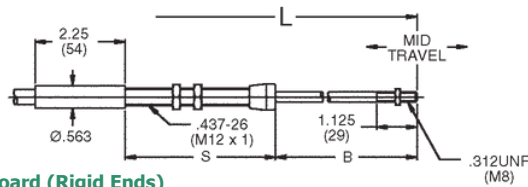
B Bulkhead (Threaded)

Travel	2" 50	3" 75	4" 100	5" 125
Dim "A"	6.625" 168	8.125" 206	9.625" 244	11.125" 283
Dim "B"	2.375" 60	2.875" 73	3.375" 86	3.875" 98



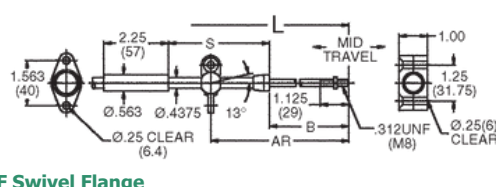
C Clamp (Grooved)

Travel	2" 50	3" 75	4" 100	5" 125
Dim "A"	5.875" 149	7.325" 187	8.875" 225	10.375" 270
Dim "B"	2.375" 60	2.875" 73	3.375" 86	3.875" 98



**D Dashboard (Rigid Ends)
AF Adj Flange - AB Adj. Block**

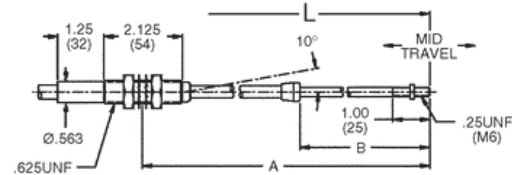
Travel	1" 25	2" 50	3" 75	4" 100
Dim "S"	3.25" 82	3.25" 82	4.5" 114	4.5" 114
"B" Min	2.125" 54	2.625" 57	2.75" 70	3.25" 82



**SF Swivel Flange
SB Swivel Block**

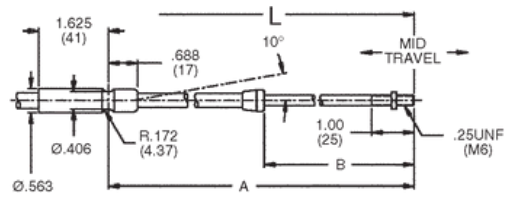
Travel	2" 50	3" 75	4" 100	5" 125
"S" Min	2.75" 70	4" 101	4.75" 120	5.75" 146
"B" Min	2.25" 57	2.75" 70	3.25" 82	3.75" 95

Push-Pull 4B45 – M6 Specifications



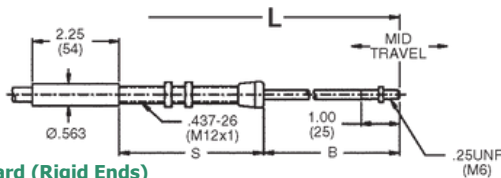
B Bulkhead (Threaded)

Travel	1" 25	2" 50	3" 75	4" 100
Dim "A"	4.625" 117	6.125" 55	7.625" 193	9.125" 232
Dim "B"	1.625" 41	2.125" 54	2.625" 67	3.125" 79



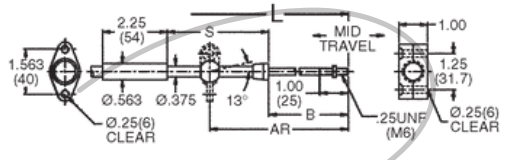
C Clamp (Grooved)

Travel	1" 25	2" 50	3" 75	4" 100
Dim "A"	4.625" 103	5.625" 141	7.125" 179	8.625" 217
Dim "B"	1.562" 40	2.125" 52	2.625" 65	3.125" 78



**D Dashboard (Rigid Ends)
AB Adj. Block
AF Adj Flange**

Travel	1" 25	2" 50	3" 75	4" 100
Dim "S"	3.125" 82	3.25" 82	4.5" 114	4.5" 114
"B" Min	1.625" 41	2.125" 54	2.625" 68	3.125" 79



**SF Swivel Flange
SB Swivel Block**

Travel	1" 25	2" 50	3" 75	4" 100
"S" Min	1.75" 44	2.75" 70	3.75" 95	4.75" 120
"B" Min	1.625" 41	2.125" 54	2.625" 68	3.125" 79

All line art dimensions are represented as follows: in (mm)
Note: Threads available in both UNF and metric



Our range of push-pull controls provide a means of transmitting linear motion from one location to another. They offer ease of installation as well as superior performance.

Bristow® – Economical construction for applications that do not require tight bend radii.

Utility – Adds a binder wire for structural integrity and a tighter minimum bend radius than other controls.

Low Friction EXT – Have the same advantages as Utility with an added plastic covered innermember which provides improved efficiency.

Low Friction – The standard of excellence for industrial controls. Features include a binder wire for structural integrity, tight minimum bend radius, and PTFE covered innermember for the ultimate in efficient, smooth operation.

Provides long life in the most demanding applications.

Common Applications: Implement control, throttle control, PTO/4WD activation, valve actuation, remote battery disconnect, remote electrical disconnect, transmission shift, hydrostatic drives, latches

- Made of tough/durable materials
- Environmentally protected with long-lasting seals
- Temperature rated for use from a low of -65°F to a peak of 310°F

Efficiency Factor: Input Force = (Output Load x Total Degrees of Bend x Efficiency Factor) + Output Load

Bristow & Utility = .002

Low Friction EXT & Low Friction = .001

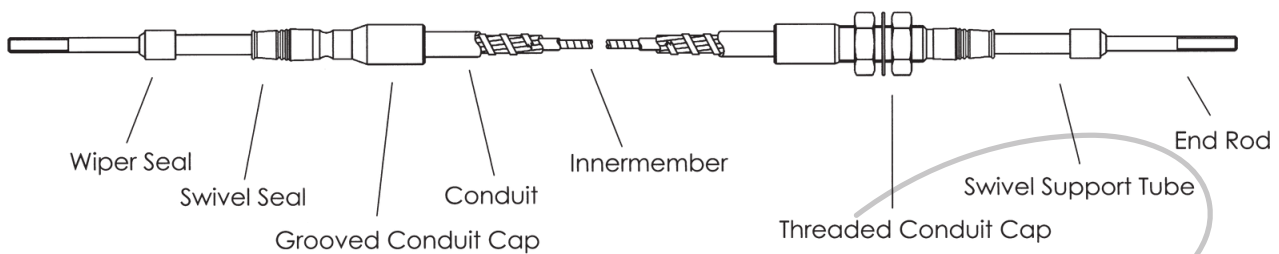
Note: Efficiency will be slightly reduced in applications when output load is substantially less than rated loads.

Material:

- Stainless steel or plated carbon steel
- Plastic coated carbon steel conduit and innermember
- Plastic seals

Suggested End Fittings:

- Full range

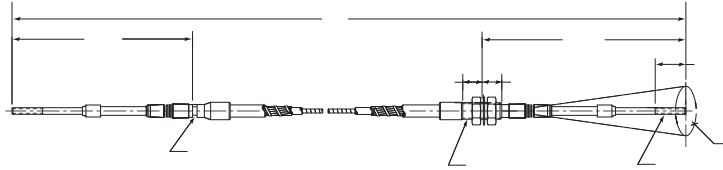


VLD

A Dimension Grooved Swivel (in) (control at mid travel)	Minimum Travel Push-Pull (in)	Working Input Load (lbs) Push-Pull	Maximum Input Overload (lbs)	A Dimension Threaded Swivel (in) (control at mid travel)
3.69	1"	80/120	120/180	4.38
5.19	2"	80/120	120/180	5.87
6.69	3"	70/120	110/180	7.38
8.19	4"	60/120	90/180	8.87
9.69	5"	45/120	70/180	10.38
11.19	6"	30/120	45/180	11.87

VLD Very Light Duty

Cablecraft® Min Bend Radius 2"
Bristow® Min Bend Radius 5"
Backlash Factor .00015 Per Deg. of Bend

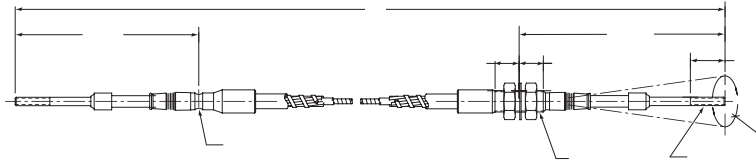


LD

4.00	1"	150/230	230/350	4.62
5.50	2"	150/230	230/350	6.12
7.00	3"	125/230	190/350	7.62
8.50	4"	100/230	150/350	9.12
10.00	5"	75/230	110/350	10.62
11.50	6"	50/230	75/350	12.12

LD Light Duty

Cablecraft® Min Bend Radius 3"
Bristow® Min Bend Radius 7"
Backlash Factor .00020 Per Deg. of Bend

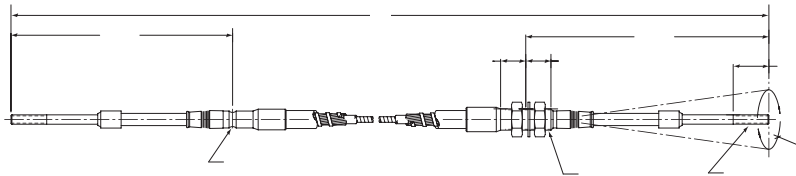


MD

4.38	1"	250/400	400/600	5.06
5.87	2"	250/400	400/600	6.56
7.38	3"	210/400	300/600	8.06
8.87	4"	170/400	250/600	9.56
10.38	5"	130/400	200/600	11.06
11.87	6"	100/400	150/600	12.56

MD Medium Duty

Cablecraft® Min Bend Radius 5"
Bristow® Min Bend Radius 9"
Backlash Factor .00025 Per Deg. of Bend

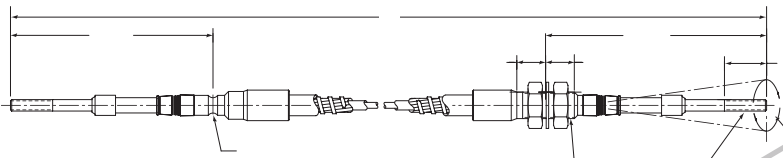


HD

5.19	1"	700/1000	1000/1500	5.69
6.69	2"	700/1000	1000/1500	7.19
8.19	3"	600/1000	900/1500	8.69
9.69	4"	500/1000	750/1500	10.19
11.19	5"	400/1000	600/1500	11.69
12.69	6"	30/1000	450/1500	13.19

HD Heavy Duty

Cablecraft® Min Bend Radius 6"
Backlash Factor .00030 Per Deg. of Bend



To determine the "travel" on an existing cable, you can compare the length of the support tubes with the illustrations below and on the next page.

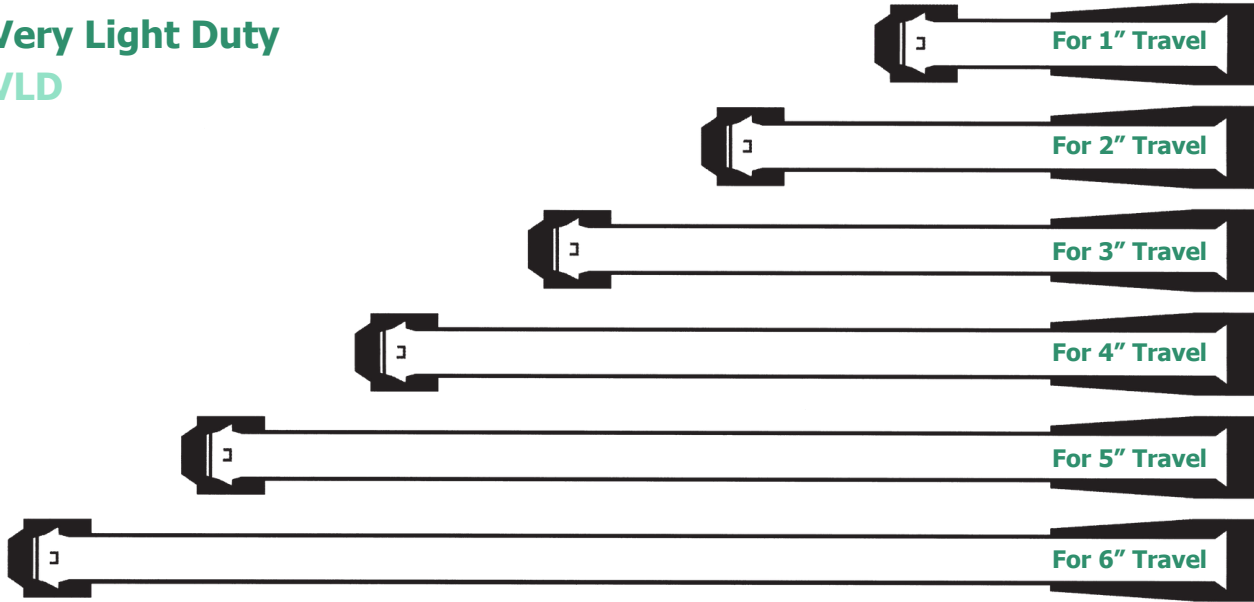
Determine the "duty" (size) of the cable by the diameter and threads of the end rods.

V = 10-32, **L** = 1/4-28, **M** = 5/16-24, **H** = 3/8-24.

(Very light duty; Light duty; Medium duty; Heavy duty)

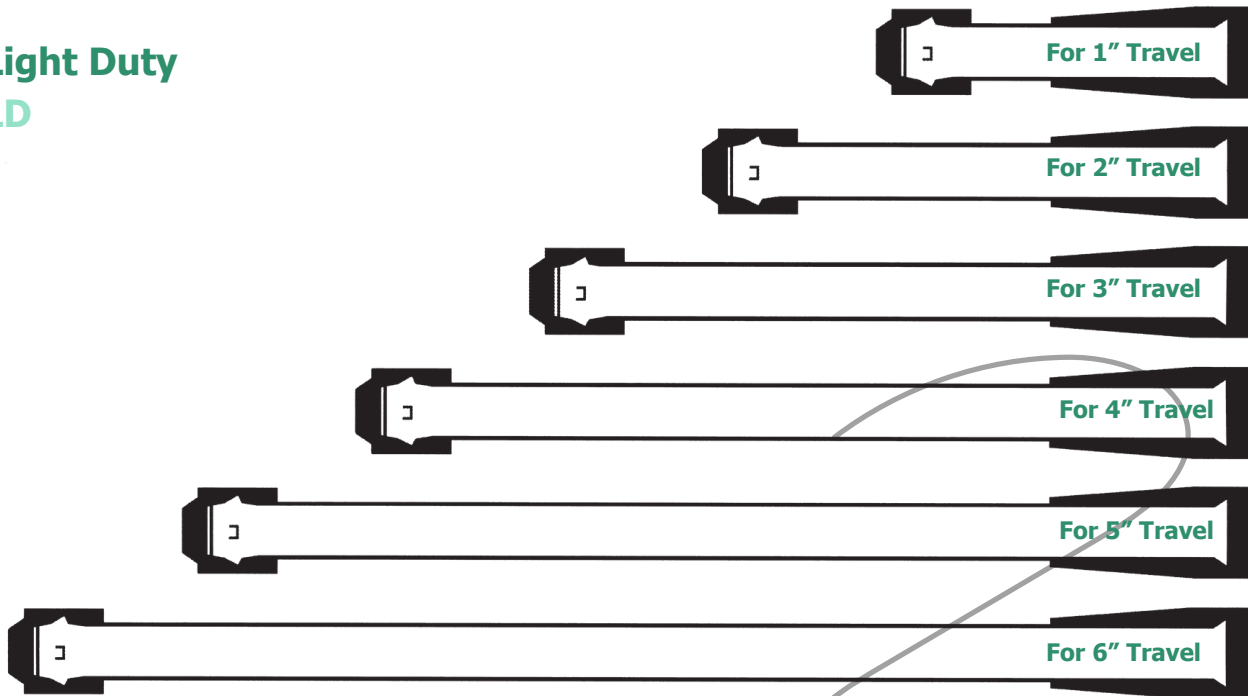
Very Light Duty

VLD

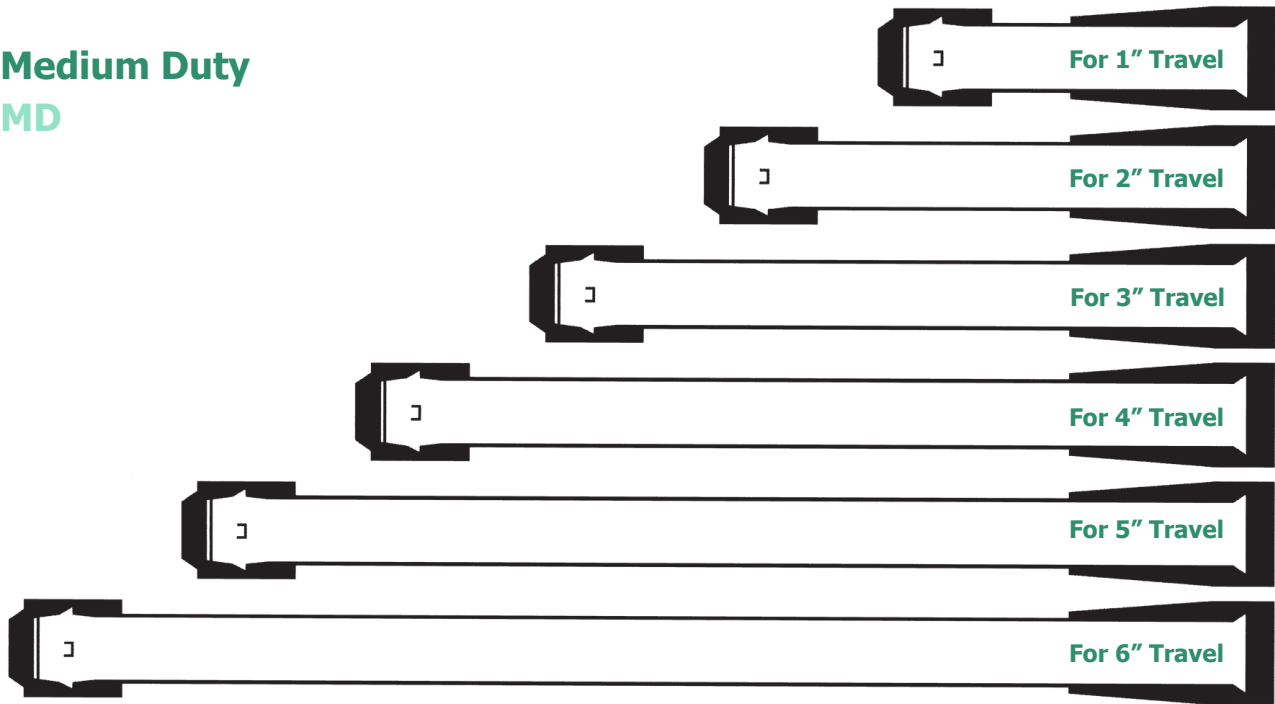


Light Duty

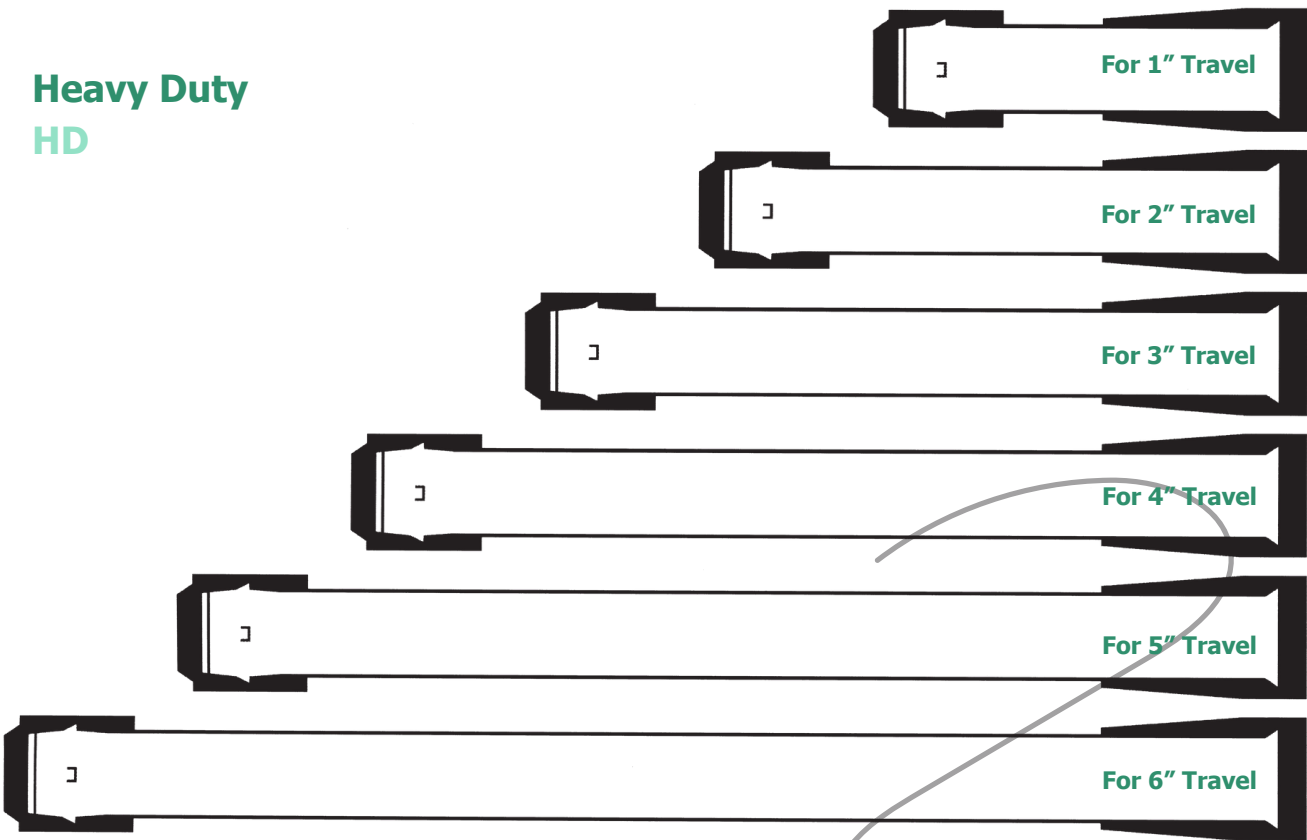
LD

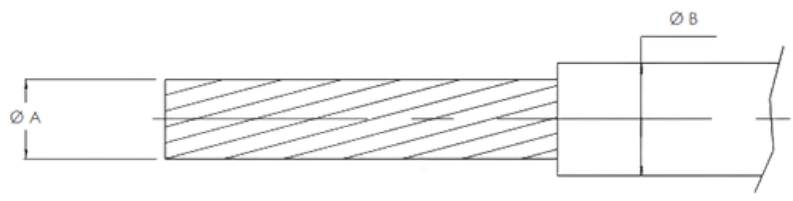
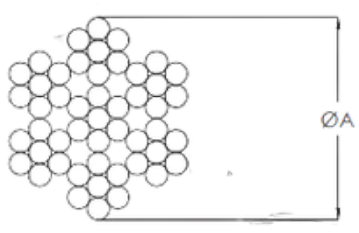
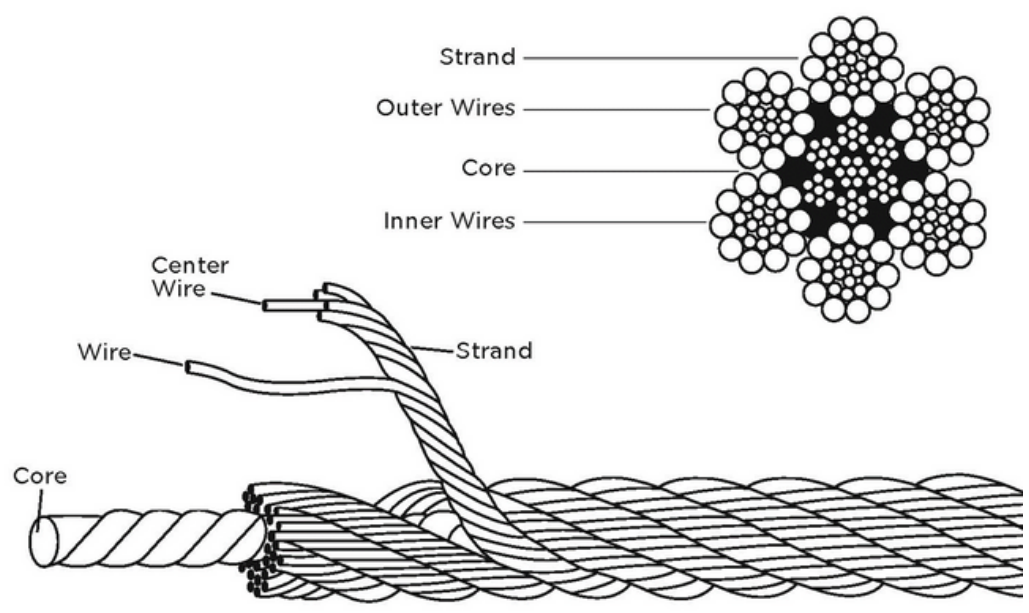


Medium Duty
MD



Heavy Duty
HD





Inner wire rope available

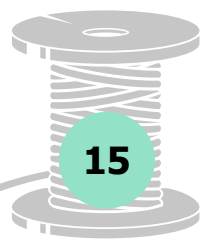
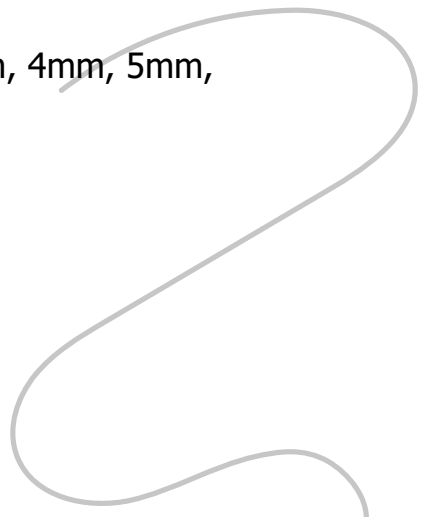
- stainless steel inner wire rope
- galvanized inner wire rope
- plastic coated inner wire rope
- 7x7 strand / 1x19 strand / 7x19 strand
- 1mm, 1.5mm, 2mm, 2.5mm, 3mm, 3.5mm, 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm



normal inner wire



plastic coated inner wire




Breakdown on what we do and what we offer

- We manufacture all mechanical cables including earthmoving and marine cables
- We offer a variety of linkages such as ball joints, clevises, rod ends, threaded rods, seals, bellows, clamps and many more
- We offer a variety of levers, controls, pedals, twist locks, handles and many more
- We also offer repair services on cables and window winding mechanisms
- We can custom craft a cable to fit your special specifications and requirements

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- Address: 77 West Street, Kempton Park CBD 1619, Gauteng, South Africa
- Contact number: +27 11 394 4865
- Web Address: www.cablecraft.co.za

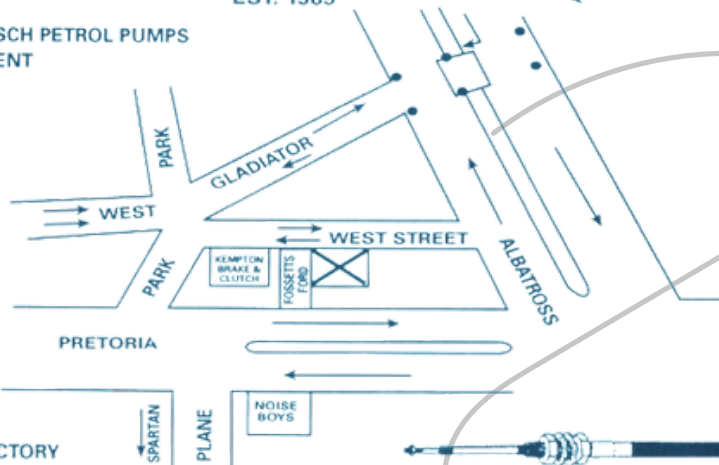
SAME DAY SERVICE CABLE REPAIRS * CLUTCH * SPEEDO * H/BRAKE * ACCELERATOR



Cablecraft
CONTROLS cc

MANUFACTURERS OF PUSH-PULL INDUSTRIAL AND MARINE CABLES
AUTOMOTIVE CABLES RECONDITIONED & MANUFACTURED AS PER SPECIFICATION
EST. 1985

RECONDITIONED BOSCH PETROL PUMPS
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PARK EAST
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PLANE
NOISE BOYS
CABLECRAFT FACTORY

