Push-Pull 4B

Control Cable Assembly

Commercial, cost effective product range for simple push-pull applications. Available in four different sizes. 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.

The conduit consists of low-friction hard plastic, reinforced by high tensile steel wires, of sufficient number and size to completely surround the plastic. The wires are laid longitudinally with a gradual spiral. Black UV stabilized polypropylene is extruded over the whole in a thickness sufficient to provide a tough hard-wearing jacket which will withstand working stressed between -40°C and 100°C. It is highly resistant to abrasion and most organic and inorganic media. Available with swivel flange, in both metric and UNF thread mounting fittings.

Description:
Push-Pull 4B
Industrial Control Cable Assembly

Applications:
- Clutch controls
- Heavy duty lanyards

Features:
- Truck crane — cross link system
- In conjunction with most control lever systems
- Power take off
- Gear selection
- Hydraulic valve systems
- Accelerator systems
- Stainless steel end rod options available

Other Related Products:
- 4 sizes/duties available
- Swivel flange available (both metric and UNF threaded mounting fittings)
- Economically priced for cost effective solutions
- Black UV stabilized polypropylene
- Will withstand workings stressed between -40°C — 100°C
**Push-Pull 4B Specifications**

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### Push-Pull 4B30 — M5

<table>
<thead>
<tr>
<th>Component</th>
<th>Specifications</th>
<th>Travel</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>B Bulkhead (Threaded)</strong></td>
<td></td>
<td>25</td>
</tr>
<tr>
<td>Dim “A”</td>
<td>4.375”  110  5.875”</td>
<td>75</td>
</tr>
<tr>
<td>Dim “B”</td>
<td>1.5”   38  2”</td>
<td>100</td>
</tr>
<tr>
<td><strong>D Dashboard (Rigid Ends)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dim “S”</td>
<td>3.25”  82  4.5”</td>
<td>75</td>
</tr>
<tr>
<td>“B” Min</td>
<td>1.5”   38  2”</td>
<td>100</td>
</tr>
</tbody>
</table>

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### Push-Pull 4B60 — M10

<table>
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<tr>
<th>Component</th>
<th>Specifications</th>
<th>Travel</th>
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<tbody>
<tr>
<td><strong>B Bulkhead (Threaded)</strong></td>
<td></td>
<td>50</td>
</tr>
<tr>
<td>Dim “A”</td>
<td>7.375”  187  8.875”</td>
<td>75</td>
</tr>
<tr>
<td>Dim “B”</td>
<td>2.625”  67  3.125”</td>
<td>100</td>
</tr>
<tr>
<td><strong>D Dashboard (Rigid Ends)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dim “S”</td>
<td>3.25”  82  4.5”</td>
<td>75</td>
</tr>
<tr>
<td>“B” Min</td>
<td>2.125”  54  4.5”</td>
<td>100</td>
</tr>
</tbody>
</table>

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All line art dimensions are represented as follows: in (mm)

**Note:** Threads available in both UNF and metric
Push-Pull 4B45 — M8

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)

AB Adj. Block

AF Adj Flange

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 1.75” 44 2.25” 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

B Bulkhead (Threaded)

Travel 2* 25 2* 50 3* 75 4* 100

Dim “A” 4.625” 117 6.125” 193 7.625” 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” 141 5.625” 179 6.425” 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 3.125” 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

Note: All line art dimensions are represented as follows: in (mm)

Note: Threads available in both UNF and metric
## Linking Motion & Control... The Cablecraft Solution

### Material
- Plated Steel (Standard, Optional)
- Stainless Steel (High Tensile, Lined Conduit)
- Armored Push-Pull Steel
- Innermember
- Black polypropylene

### Suggested End Fittings
- Rod Ends

### Push-Pull 4B Order Code

#### Cablecraft® Ordering Codes — UNF Threads

<table>
<thead>
<tr>
<th>Duty — Size</th>
<th>4B45 - ¼ - BC - 3 - XXX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Options (Bulkhead Clamp)</td>
<td></td>
</tr>
<tr>
<td>Travel (inches)</td>
<td></td>
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<tr>
<td>Cable Length (inches)</td>
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</table>

#### Cablecraft® Ordering Codes — Metric Threads

<table>
<thead>
<tr>
<th>Duty — Size</th>
<th>4B45 - M6 - BC - 75 - XXX</th>
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</thead>
<tbody>
<tr>
<td>Output Options (Bulkhead Clamp)</td>
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<tr>
<td>Travel (mm)</td>
<td></td>
</tr>
<tr>
<td>Cable Length (mm)</td>
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</tr>
</tbody>
</table>

### 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. For technical assistance, call 260-749-5105.