Wire Rope Wedge Sockets
TO MEET ASME A17.1 / CSA B44 • NEW YORK MEA APPROVAL #410-03-M

Wire rope wedge sockets

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Rope size inches • mm</th>
<th>Dim (A) nom inches • mm (+/- 3/16 • S)</th>
<th>Dim (B) nom inches • mm (+/- 3/16 • S)</th>
<th>Thread and Diameter</th>
<th>Usable Thread min inches • mm (+/- 3/8 • T)</th>
<th>Dim (C) nom inches • mm (+/- 3/8 • T)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSY-516-12</td>
<td>5/16 • 8</td>
<td>17-1/2 • 445</td>
<td>12-19/32 • 320</td>
<td>M12</td>
<td>7-7/8 • 200</td>
<td>8-27/32 • 225</td>
</tr>
<tr>
<td>WSY-516-18</td>
<td>5/16 • 8</td>
<td>23-3/4 • 605</td>
<td>18-7/8 • 480</td>
<td>M12</td>
<td>9-13/16 • 250</td>
<td>10-13/16 • 275</td>
</tr>
<tr>
<td>WSY-516-24</td>
<td>5/16 • 8</td>
<td>30-1/8 • 765</td>
<td>24-3/16 • 640</td>
<td>M12</td>
<td>15-3/4 • 400</td>
<td>16-23/32 • 425</td>
</tr>
<tr>
<td>WSY-38-12</td>
<td>3/8 • 10</td>
<td>17-1/2 • 445</td>
<td>12-19/32 • 320</td>
<td>M12</td>
<td>7-7/8 • 200</td>
<td>8-27/32 • 225</td>
</tr>
<tr>
<td>WSY-38-18</td>
<td>3/8 • 10</td>
<td>23-3/4 • 605</td>
<td>18-7/8 • 480</td>
<td>M12</td>
<td>9-13/16 • 250</td>
<td>10-13/16 • 275</td>
</tr>
<tr>
<td>WSY-38-24</td>
<td>3/8 • 10</td>
<td>30-1/8 • 765</td>
<td>24-3/16 • 640</td>
<td>M12</td>
<td>15-3/4 • 400</td>
<td>16-23/32 • 425</td>
</tr>
<tr>
<td>WSY-12-12-A</td>
<td>7/16 to 1/2 • 11 to 13</td>
<td>18 • 457</td>
<td>12-19/32 • 320</td>
<td>M20</td>
<td>7-7/8 • 200</td>
<td>8-27/32 • 225</td>
</tr>
<tr>
<td>WSY-12-18-A</td>
<td>7/16 to 1/2 • 11 to 13</td>
<td>24-3/8 • 619</td>
<td>18-7/8 • 480</td>
<td>M20</td>
<td>9-13/16 • 250</td>
<td>10-13/16 • 275</td>
</tr>
<tr>
<td>WSY-12-24-A</td>
<td>7/16 to 1/2 • 11 to 13</td>
<td>30-5/8 • 778</td>
<td>24-3/16 • 640</td>
<td>M20</td>
<td>15-3/4 • 400</td>
<td>16-23/32 • 425</td>
</tr>
<tr>
<td>WSY-12-30-A</td>
<td>7/16 to 1/2 • 11 to 13</td>
<td>36-7/8 • 937</td>
<td>30-1/2 • 800</td>
<td>M20</td>
<td>15-3/4 • 400</td>
<td>16-23/32 • 425</td>
</tr>
<tr>
<td>WSY-12-36-A</td>
<td>7/16 to 1/2 • 11 to 13</td>
<td>43-1/4 • 1099</td>
<td>36-13/16 • 960</td>
<td>M20</td>
<td>15-3/4 • 400</td>
<td>16-23/32 • 425</td>
</tr>
<tr>
<td>WSY-58-12</td>
<td>9/16 to 5/8 • 14 to 16</td>
<td>19-3/4 • 502</td>
<td>12-19/32 • 320</td>
<td>M20</td>
<td>7-7/8 • 200</td>
<td>8-27/32 • 225</td>
</tr>
<tr>
<td>WSY-58-18</td>
<td>9/16 to 5/8 • 14 to 16</td>
<td>26-1/8 • 664</td>
<td>18-7/8 • 480</td>
<td>M20</td>
<td>9-13/16 • 250</td>
<td>10-13/16 • 275</td>
</tr>
<tr>
<td>WSY-58-24</td>
<td>9/16 to 5/8 • 14 to 16</td>
<td>32-3/8 • 822</td>
<td>24-3/16 • 640</td>
<td>M20</td>
<td>15-3/4 • 400</td>
<td>16-23/32 • 425</td>
</tr>
<tr>
<td>WSY-58-30</td>
<td>9/16 to 5/8 • 14 to 16</td>
<td>38-3/4 • 984</td>
<td>30-1/2 • 800</td>
<td>M20</td>
<td>15-3/4 • 400</td>
<td>16-23/32 • 425</td>
</tr>
<tr>
<td>WSY-58-36</td>
<td>9/16 to 5/8 • 14 to 16</td>
<td>45 • 1143</td>
<td>36-13/16 • 960</td>
<td>M20</td>
<td>15-3/4 • 400</td>
<td>16-23/32 • 425</td>
</tr>
<tr>
<td>WSY-34-12</td>
<td>11/16 to 3/4 • 17 to 19</td>
<td>21-1/4 • 540</td>
<td>12-19/32 • 320</td>
<td>M20</td>
<td>7-7/8 • 200</td>
<td>8-27/32 • 225</td>
</tr>
<tr>
<td>WSY-34-18</td>
<td>11/16 to 3/4 • 17 to 19</td>
<td>27-1/2 • 699</td>
<td>18-7/8 • 480</td>
<td>M20</td>
<td>9-13/16 • 250</td>
<td>10-13/16 • 275</td>
</tr>
<tr>
<td>WSY-34-24</td>
<td>11/16 to 3/4 • 17 to 19</td>
<td>33-3/4 • 857</td>
<td>24-3/16 • 640</td>
<td>M20</td>
<td>15-3/4 • 400</td>
<td>16-23/32 • 425</td>
</tr>
<tr>
<td>WSY-34-30</td>
<td>11/16 to 3/4 • 17 to 19</td>
<td>39-3/4 • 1010</td>
<td>30-1/2 • 800</td>
<td>M20</td>
<td>15-3/4 • 400</td>
<td>16-23/32 • 425</td>
</tr>
<tr>
<td>WSY-34-36</td>
<td>11/16 to 3/4 • 17 to 19</td>
<td>46-1/4 • 1175</td>
<td>36-13/16 • 960</td>
<td>M20</td>
<td>15-3/4 • 400</td>
<td>16-23/32 • 425</td>
</tr>
</tbody>
</table>

Each wedge socket consists of the socket, rod, wedge, 2 nuts, 1 washer, 1 cotter pin and 2 retaining clips.

Draka wedge sockets are tested with steel core (IWRC) wire rope and exceed ASME A17.1 Rule 2.20.9 and all other applicable safety codes.

Component Specifications:
- Socket: Cast steel ASTM-A27, Grade 60-30 stress relieved
- Rod: Rolled or forged steel ASTM 668
- Wedge: Cast steel ASTM-A27, Grade 60-30

Governor rope wedge sockets

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSY-38-GOV</td>
<td>3/8 • 10 mm governor rope wedge socket, includes socket, wedge &amp; 2 retaining clips, 14 mm mounting hole</td>
</tr>
<tr>
<td>WSY-12-GOV</td>
<td>1/2 • 13 mm governor rope wedge socket, includes socket, wedge &amp; 2 retaining clips, 17.5 mm mounting hole</td>
</tr>
</tbody>
</table>

Use these items to maintain wire rope. See item for location in this catalog.

Rope Tensioning System - page 61
Load weighing devices - pages 62 - 66
DrakaLube rope treatment - page 60
Automatic rope oiler - page 60
wire rope wedge sockets

Rope isolation bushing springs - assemblies and components

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Size and Description</th>
<th>Spring length</th>
<th>Spring O.D.</th>
<th>Spring I.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS-SA-38</td>
<td>5/16 to 3/8 • 8 to 10 complete assembly</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>WS-SA-12-A</td>
<td>7/16 to 1/2 • 11 to 13 complete assembly</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>WS-SA-58</td>
<td>9/16 to 5/8 • 14 to 16 complete assembly</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>WS-SA-34</td>
<td>11/16 to 3/4 • 17.5 to 19 complete assembly</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>WS-IBUSSH-38</td>
<td>5/16 to 3/8 • 8 to 10 bushing</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>WS-IBUSSH-12-A</td>
<td>7/16 to 1/2 • 11 to 13 bushing</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>WS-IBUSSH-58</td>
<td>9/16 to 5/8 • 14 to 16 bushing</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>WS-IBUSSH-34</td>
<td>11/16 to 3/4 • 17.5 to 19 bushing</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>WS-SPR-38</td>
<td>5/16 to 3/8 • 8 to 10 bushing spring</td>
<td>4-13/16 • 122 (+/- 1/8 • 3)</td>
<td>1-5/16 • 33 (+/- 1/32 • 0.6)</td>
<td>11/16 • 17 (+/- 1/32 • 0.6)</td>
</tr>
<tr>
<td>WS-SPR-12-A</td>
<td>7/16 to 1/2 • 11 to 13 bushing spring</td>
<td>6-1/8 • 156 (+/- 9/64 • 3.5)</td>
<td>1-15/16 • 49.2 (+/- 1/32 • 0.7)</td>
<td>1 • 25.5 (+/- 1/32 • 0.7)</td>
</tr>
<tr>
<td>WS-SPR-58</td>
<td>9/16 to 5/8 • 14 to 16 bushing spring</td>
<td>6-7/8 • 176 (+/- 1/8 • 3)</td>
<td>2-1/2 • 64 (+/- 1/16 • 1.5)</td>
<td>1-1/4 • 32 (+/- 1/16 • 1.5)</td>
</tr>
<tr>
<td>WS-SPR-34</td>
<td>11/16 to 3/4 • 17.5 to 19 bushing spring</td>
<td>7-1/16 • 178 (+/- 5/32 • 4)</td>
<td>3-11/32 • 85 (+/- 3/32 • 2.5)</td>
<td>2-9/16 • 65 (+/- 3/32 • 2.5)</td>
</tr>
<tr>
<td>WS-BUSSH-38</td>
<td>5/16 to 3/8 • 8 to 10 bushing washer</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>WS-BUSSH-12-A</td>
<td>7/16 to 1/2 • 11 to 13 bushing washer</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>WS-BUSSH-58</td>
<td>9/16 to 5/8 • 14 to 16 bushing washer</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>WS-BUSSH-34</td>
<td>11/16 to 3/4 • 17.5 to 19 bushing washer</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

Isolation bushing spring assemblies include 1 spring, 3 bushings and 2 washers. They DO NOT include the wedge socket.

Springs measured when relaxed.

Socket: Cast steel ASTM-A27, Grade 60-30 stress relieved

Rod: Rolled or forged steel ASTM 668

Wedge: Cast steel ASTM-A27, Grade 60-30

Babbitt sockets

<table>
<thead>
<tr>
<th>Part Number</th>
<th>For rope size</th>
<th>Rod size</th>
<th>Dim (A) nom</th>
<th>Dim (B) nom</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSY-12-12</td>
<td>1/2 • 13</td>
<td>M20</td>
<td>18 • 457</td>
<td>12 • 305</td>
</tr>
<tr>
<td>BSY-12-18</td>
<td>1/2 • 13</td>
<td>M20</td>
<td>24 • 610</td>
<td>18 • 457</td>
</tr>
<tr>
<td>BSY-12-24</td>
<td>1/2 • 13</td>
<td>M20</td>
<td>30 • 762</td>
<td>24 • 610</td>
</tr>
<tr>
<td>BSY-58-12</td>
<td>5/8 • 16</td>
<td>M24</td>
<td>19 • 483</td>
<td>12 • 305</td>
</tr>
<tr>
<td>BSY-58-18</td>
<td>5/8 • 16</td>
<td>M24</td>
<td>25 • 635</td>
<td>18 • 457</td>
</tr>
<tr>
<td>BSY-58-24</td>
<td>5/8 • 16</td>
<td>M24</td>
<td>31 • 787</td>
<td>24 • 610</td>
</tr>
</tbody>
</table>

Babbitt sockets are special order and are not normally stocked.

Shackle: Forged carbon steel per JIS S35C or S38C equivalent to SAE 1035 or 1038, hot forged then normalized and tempered

Hex nuts: ASTM A563 Grade O

Cotter pin: Steel, per ANSI B5.20
### Wedge Socket Components and Accessories

#### Wedge socket individual components

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Size and Description</th>
<th>inches • mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS-NUT-38</td>
<td>5/16 to 3/8 • 8 to 10 nut</td>
<td></td>
</tr>
<tr>
<td>WS-NUT-12</td>
<td>7/16 to 1/2 • 11 to 13 nut</td>
<td></td>
</tr>
<tr>
<td>WS-NUT-58</td>
<td>9/16 to 5/8 • 14 to 16 nut</td>
<td></td>
</tr>
<tr>
<td>WS-NUT-34</td>
<td>11/16 to 3/4 • 17.5 to 19 nut</td>
<td></td>
</tr>
<tr>
<td>WS-CPIN-38</td>
<td>5/16 to 3/8 • 8 to 10 cotter pin</td>
<td></td>
</tr>
<tr>
<td>WS-CPIN-12</td>
<td>7/16 to 1/2 • 11 to 13 cotter pin</td>
<td></td>
</tr>
<tr>
<td>WS-CPIN-58</td>
<td>9/16 to 5/8 • 14 to 16 cotter pin</td>
<td></td>
</tr>
<tr>
<td>WS-CPIN-34</td>
<td>11/16 to 3/4 • 17.5 to 19 cotter pin</td>
<td></td>
</tr>
<tr>
<td>WS-WSHR-38</td>
<td>5/16 to 3/8 • 8 to 10 washer</td>
<td></td>
</tr>
<tr>
<td>WS-WSHR-12</td>
<td>7/16 to 1/2 • 11 to 13 washer</td>
<td></td>
</tr>
<tr>
<td>WS-WSHR-58</td>
<td>9/16 to 5/8 • 14 to 16 washer</td>
<td></td>
</tr>
<tr>
<td>WS-WSHR-34</td>
<td>11/16 to 3/4 • 17.5 to 19 washer</td>
<td></td>
</tr>
</tbody>
</table>

#### Wedge socket wedges

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Size and Description</th>
<th>inches • mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS-WEDGE-516</td>
<td>5/16 • 8 wedge insert (green)</td>
<td></td>
</tr>
<tr>
<td>WS-WEDGE-3812-A</td>
<td>3/8 to 1/2 • 9 to 13 wedge insert (blue)</td>
<td></td>
</tr>
<tr>
<td>WS-WEDGE-58</td>
<td>9/16 to 5/8 • 14 to 16 wedge insert (red)</td>
<td></td>
</tr>
<tr>
<td>WS-WEDGE-34</td>
<td>11/16 to 3/4 • 17.5 to 19 wedge insert (yellow)</td>
<td></td>
</tr>
</tbody>
</table>

Wedge: Cast steel ASTM-A27, Grade 60-30

#### Wedge socket retaining clips

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Size and Description</th>
<th>inches • mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS-CLIP-38</td>
<td>5/16 to 3/8 • 8 to 10 rope retaining clip</td>
<td></td>
</tr>
<tr>
<td>WS-CLIP-12</td>
<td>7/16 to 5/8 • 11 to 16 rope retaining clip</td>
<td></td>
</tr>
<tr>
<td>WS-CLIP-34</td>
<td>11/16 to 3/4 • 17.5 to 19 rope retaining clip</td>
<td></td>
</tr>
</tbody>
</table>

#### Pulling grips - galvanized steel with rotating eye

<table>
<thead>
<tr>
<th>Part Number</th>
<th>For Wire Rope Diameters</th>
<th>Weave length</th>
<th>MBL kN</th>
</tr>
</thead>
<tbody>
<tr>
<td>03302016</td>
<td>6.3 - 12.4 mm</td>
<td>660 mm</td>
<td>20.5 kN</td>
</tr>
<tr>
<td>03302018</td>
<td>2.7 - 18.8 mm</td>
<td>810 mm</td>
<td>44.4 kN</td>
</tr>
<tr>
<td>03302044</td>
<td>6.3 - 12.4 mm</td>
<td>660 mm</td>
<td>20.5 kN</td>
</tr>
<tr>
<td>03302046</td>
<td>2.7 - 18.8 mm</td>
<td>810 mm</td>
<td>44.4 kN</td>
</tr>
</tbody>
</table>

Use these items to maintain wire rope. See item for location in this catalog.

- **Rope Tensioning System** - page 61
- **Load weighing devices** - pages 62 - 66
- **DrakaLube rope treatment** - page 60
- **Automatic rope oiler** - page 60