**IMPORTANT!**

Core order along no. 4.

1-Red (primary)  2-Black (output signal)
3-Blue (primary)  4-White (output signal)

Load Cell equipped with fixed cable has color marked conductors.
If cable no. 4 is lengthened it is important to keep core order.

**IP20:**
Power Supply 24 (-18~36) VDC
Signal earth (0V) connected to Tension Electronics metal plate inside the unit
Cable Shields should be connected to earth close to the Tension Electronics inside the unit

**IP65:**
Power Supply 100 (-15%) to 240 (+10%) VAC or 24 VDC
Signal earth (0V) connected to earth bar inside the control
Cable Shields should be connected to earth bar close to the Tension Electronics inside the unit

**Increased Force in the direction of the arrow results in a positive output signal change.**

**PFTL101**
**PFCL201**

**PFTL201**
**PFRL101**

**Radial Force**

Because of practical reasons the Load Cell PFTL201 is often mounted so that the plug connector is pointing away from the roll. This results in that one of the Load Cells will have inversely applied force.

**Table 1:**
For inversely applied Force on Load Cell: Swap

<table>
<thead>
<tr>
<th>Force</th>
<th>Swap</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>X3:1 &amp; 2</td>
</tr>
<tr>
<td>B</td>
<td>X3:3 &amp; 4</td>
</tr>
<tr>
<td>C</td>
<td>X3:5 &amp; 6</td>
</tr>
<tr>
<td>D</td>
<td>X3:7 &amp; 8</td>
</tr>
</tbody>
</table>

**CABLE LIST**
1. 3 x 1.5~2.5 mm² [14~12 AWG]
2. 2 x 0.4~1.1 mm² [22~18 AWG] Shielded
3. 2 x 1.5~2.5 mm² [14~12 AWG] Shielded with male plug connector
4. 4 x 1.0 mm² [18 AWG] Shielded twisted pair
5. 4 x 2 x 0.5 mm² [20 AWG] Shielded twisted pair

**Removed Load Cell(s):**
Connect shorting wire in PFXCl61 at

<table>
<thead>
<tr>
<th>Load Cell</th>
<th>Connect Shorting Wire in PFXCl61 at</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>17 &amp; 18</td>
</tr>
<tr>
<td>B</td>
<td>21 &amp; 22</td>
</tr>
<tr>
<td>C</td>
<td>25 &amp; 26</td>
</tr>
<tr>
<td>D</td>
<td>29 &amp; 30</td>
</tr>
</tbody>
</table>

**REV. DESCRIPTION**

D Sh. 7 added.
C Instruction for single load cell application adjusted.
B X12 & X14 was 0 V, X13 and X14 added.
A New document

**DATE**

2013-06-06
2007-04-18
2012-12-18
2003-11-28

**ABB**

**3BSE02814D0065**