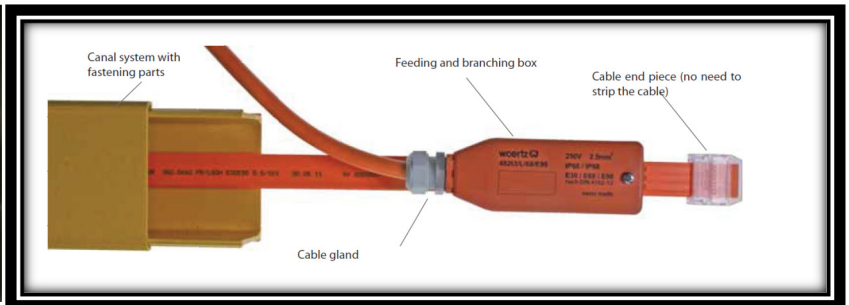


## Switzerland *World's leading authorities on safety and Self rescue facilities in tunnels*



*Gotthard Tunnel - Switzerland*



**Woertz AG**, a Swiss Manufacturer of Flat Cable Power Bus Systems, will provide their Fire Proof Safety Cable to power emergency lighting and life safety equipment in the Gotthard Tunnel upgrade construction project. At 57 KM (35 miles) the Gotthard tunnel is the longest in Europe and at completion of the project, Woertz will supply 240 KM (143 miles) of fire proof power cable and over 10,000 IP68 rated connection boxes.

Specified by the Swiss Federal Railways (SBB) the Woertz Fire Proof Cable has been tested to withstand the most extreme conditions maintaining its circuit integrity to provide power to components required for fire rescue, emergency lighting, smoke extraction systems, elevators...and more.

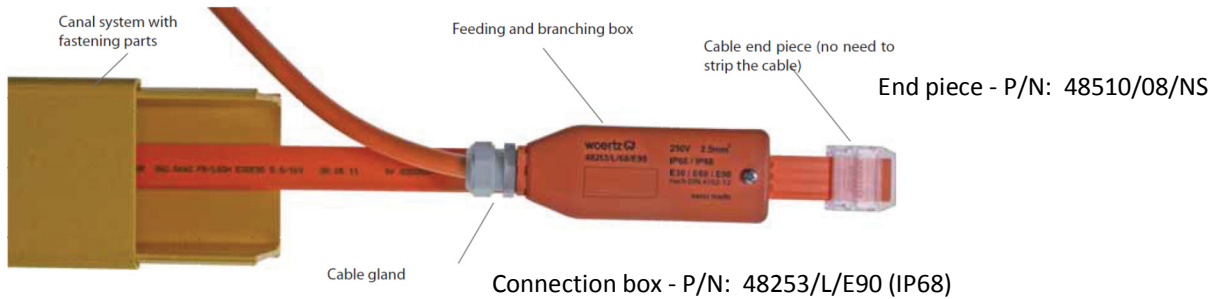
- Cable is Halogen Free
- **Cable is classified as FE 180 Rated** – Cable circuit integrity is maintained while cable is subjected to flame temperatures at least 750 °C (1,382°F). Electrical current continues flows for 180 minutes after.
- **Function Integrity 90 E rated** – The function integrity indicates duration the installation continues to function in case of a fire. E 90 means it should function 90 minutes.
- **Easy installation** – Insulation displacement technology for junction box installation
- **Junction boxes are HOT swappable.**

Please contact our US office to request more information on the capabilities and specifications of the Woertz Flat Cable Power Bus System.

### **North American Office**

151 Discovery Drive, Suite 112  
Colmar, PA 18915

Wire tray cover - P/N: 49332/80



Wire tray - P/N: 49331/80



Flat cable - P/N: 48250/FE180/NS/OR

- 3 x 2.5mm<sup>2</sup>
- Note – 5 conductor cable also available

Mounting procedure of connecting box No. 48253/L/68/E90

(may be used for both feeding and branching)

<p>1</p>	<p>Remove the cover plate of the box. The cable gland has to be prepared and mounted on the branching cable (round cable). Cut the latter to the desired length and dismantle it. Introduce the stripped leads.</p>	<p>2</p>	<p>Tighten up the 3 screws. Once the O-ring positions correctly in the cable gland, tighten up the latter.</p> <p>Philips No.1 0.7Nm 6.2lb-in</p>
<p>3</p>	<p>Position the flat cable in the right position. The lug in the base acts as a reference point. It has to match the lug of the flat cable. In case of incorrect mounting the box cannot be fitted with normal force. The cable must be cleaned, gel and oil must be removed.</p>	<p>4</p>	<p>Snap together the upper part and the base. Tighten up the 3 fastening screws of the base.</p>
<p>5</p>	<p>Tighten up the 6 piercing screws (Twin-Piercing) in order to establish contact with the flat cable cores.</p> <p>Philips No.1 0.7Nm 6.2lb-in</p>	<p>6</p>	<p>Replace the cover plate carefully and tighten up the screws. The box may be marked if necessary.</p>