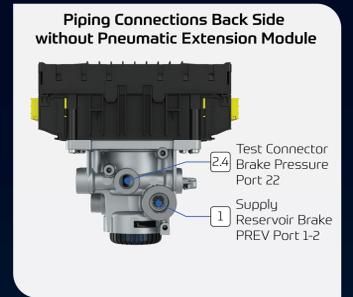
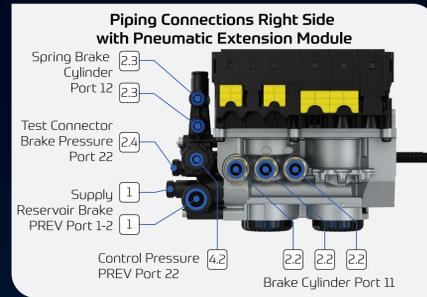
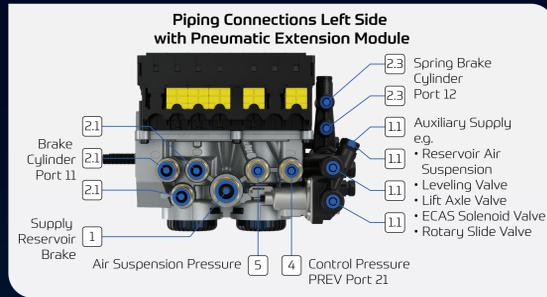
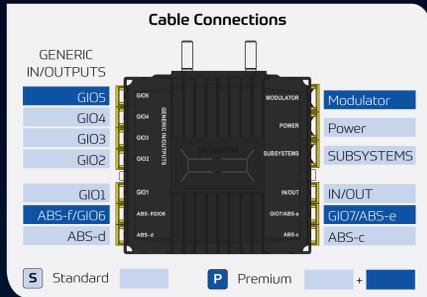


# Trailer EBS E Connections for Cables and Pipes



## Trailer EBS E Modulator



## Cables for TEBS E Modulator

Power Cables	GIO Cables	Subsystems Cables	3rd Modulator Cables
<p><b>ISO 7638 Semi-trailer</b></p> <p>449 173 090 0 (9 m)</p> <p>449 173 100 0 (10 m)</p> <p>449 173 120 0 (12 m)</p> <p>449 173 130 0 (13 m)</p> <p>449 173 140 0 (14 m)</p> <p>449 173 150 0 (15 m)</p> <p>449 173 160 0 (16 m)</p>	<p><b>ABS Sensor (c, d, e, f)</b></p> <p>449 723 003 0 (0.3 m)</p> <p>449 723 018 0 (1.8 m)</p> <p>449 723 023 0 (2.3 m)</p> <p>449 723 030 0 (3 m)</p> <p>449 723 040 0 (4 m)</p> <p>449 723 050 0 (5 m)</p> <p>449 723 060 0 (6 m)</p> <p>449 723 080 0 (8 m)</p> <p>449 723 100 0 (10 m)</p> <p>449 723 150 0 (15 m)</p>	<p><b>Traction Help</b></p> <p>449 813 050 0 (5 m)</p> <p>449 813 080 0 (8 m)</p> <p>449 813 150 0 (15 m)</p>	<p><b>Y-distributor for GIO</b></p> <p>449 629 022 0 (L1 = 0.4 m / L2 = 0.4 m)</p>
<p><b>ISO 7638 Drawbar Trailer</b></p> <p>449 273 060 0 (6 m)</p> <p>449 273 100 0 (10 m)</p> <p>449 273 120 0 (12 m)</p> <p>449 273 150 0 (15 m)</p> <p>449 273 180 0 (18 m)</p>	<p><b>Lift Axle Valve LACV, TASC with RTR, Buzzer, or Solenoid Valve</b></p> <p>449 443 008 0 (0.8 m)</p> <p>449 443 010 0 (1 m)</p> <p>449 443 020 0 (2 m)</p> <p>449 443 030 0 (3 m)</p> <p>449 443 040 0 (4 m)</p> <p>449 443 060 0 (6 m)</p> <p>449 443 100 0 (10 m)</p>	<p><b>Traction Help + Forced Lowering</b></p> <p>449 815 253 0 (L1/L2 = 6m/6m)</p> <p>449 815 258 0 (L1/L2 = 15m/6m)</p>	<p><b>ECAS valve or lift axle valve with Y-distributor</b></p> <p>449 761 030 0 (3 m)</p>
<p><b>ISO 7638 Adapter</b></p> <p>449 347 003 0 (0.3 m)</p> <p>449 347 025 0 (2.5 m)</p> <p>449 347 080 0 (8 m)</p> <p>449 347 120 0 (12 m)</p> <p>449 347 180 0 (18 m)</p>	<p><b>GIO Open End [4-wires] Cable for Duplicate GIOs</b></p> <p>449 535 010 0 (1 m)</p> <p>449 535 040 0 (4 m)</p> <p>449 535 060 0 (6 m)</p> <p>449 535 100 0 (10 m)</p> <p>449 535 150 0 (15 m)</p>	<p><b>24 N + Traction Help + Forced Lowering</b></p> <p>449 356 023 0 (L1 = 1m / L2 = 0.4m)</p>	<p><b>Pressure sensor, lift axle or height sensor with Y-distributor</b></p> <p>449 752 010 0 (1 m)</p> <p>449 752 020 0 (2 m)</p> <p>449 752 030 0 (3 m)</p> <p>449 752 080 0 (8 m)</p> <p>449 752 100 0 (10 m)</p>
<p><b>ISO 7638 Adapter</b></p> <p>449 353 005 0 (0.5 m)</p> <p>449 353 110 0 (11 m)</p> <p>449 353 140 0 (14 m)</p>	<p><b>Adapter</b></p> <p>449 819 010 0 (1 m)</p>	<p><b>Axle Load Sensor or Demand Pressure Sensor</b></p> <p>449 812 004 0 (0.4 m)</p> <p>449 812 030 0 (3 m)</p> <p>449 812 040 0 (4 m)</p> <p>449 812 100 0 (10 m)</p> <p>449 812 120 0 (12 m)</p> <p>449 812 180 0 (18 m)</p> <p>449 812 260 0 (26 m)</p> <p>449 812 320 0 (32 m)</p> <p>449 812 440 0 (44 m)</p>	<p><b>Traction Help or manouevring assistance with Y-distributor</b></p> <p>449 762 020 0 (2 m)</p> <p>449 762 080 0 (8 m)</p> <p>449 762 150 0 (15 m)</p>
<p><b>ISO 7638 Open End</b></p> <p>449 371 120 0 (12 m)</p> <p>449 371 180 0 (18 m)</p>	<p><b>SmartBoard</b></p> <p>449 961 040 0 (4 m)</p> <p>449 961 060 0 (6 m)</p> <p>449 961 120 0 (12 m)</p>	<p><b>Telematics + SmartBoard</b></p> <p>449 920 248 0 (L1 = 3 m / L2 = 6 m)</p>	<p><b>Mechanical switch with Y-distributor</b></p> <p>449 763 100 0 (10 m)</p>
<p><b>EBS Relay Valve</b></p> <p>449 429 010 0 (1 m)</p> <p>449 429 030 0 (3 m)</p> <p>449 429 080 0 (8 m)</p> <p>449 429 130 0 (13 m)</p>	<p><b>OptiTire™ / OptiLink™ TX-TrailerPULSE</b></p> <p>449 963 020 0 (2 m)</p> <p>449 963 050 0 (5 m)</p>	<p><b>SmartBoard + OptiTire™ / IVTM</b></p> <p>449 916 182 0 (L1 = 0.4 m / L2 = 4 m)</p> <p>449 916 243 0 (L1 = 1 m / L2 = 6 m)</p> <p>449 916 253 0 (L1 = 6 m / L2 = 6 m)</p>	<p><b>Telematics</b></p> <p>449 915 010 0 (1 m)</p> <p>449 915 120 0 (12 m)</p> <p>449 915 170 0 (17 m)</p>
<p><b>ABS Relay Valve</b></p> <p>449 436 003 0 (3 m)</p> <p>449 436 080 0 (8 m)</p>	<p><b>ECAS Control Box</b></p> <p>449 627 060 0 (6 m)</p>	<p><b>OptiTire™, OptiLink™ and Control Box</b></p> <p>449 944 217 0 (L1 = 12 m / L2 = 4.5 m)</p>	<p><b>Diagnostics</b></p> <p>449 611 030 0 (3 m)</p> <p>449 611 040 0 (4 m)</p> <p>449 611 060 0 (6 m)</p> <p>449 611 080 0 (8 m)</p>
	<p><b>ECAS Remote Control Unit</b></p> <p>449 628 050 0 (5 m)</p>	<p><b>Universal 8 wires</b></p> <p>449 437 020 0 (2 m)</p> <p>449 437 060 0 (6 m)</p>	<p><b>OptiTire™ or OptiLink™</b></p> <p>449 927 020 0 (2 m)</p> <p>449 927 050 0 (5 m)</p> <p>449 927 120 0 (12 m)</p>

## Installation Instructions

### Tube Installation

Use plastic tube according to DIN 74324, 73378 or ISO 7628.

Tubes must be cut at right angles. A maximum deviation of 15° is permissible.

Mark insertion length (L) on the tube by using e.g. tape.

Fully push in the tube into the bottom of the connector.

For hose piping installation, insert a hose adaptor into the fitting.

Fitting for plastic tube  $\varnothing 2 \times 1.5$  mm

Hose adaptor 899 129 467 4

Brake hose 11.5 x 3.5 mm

Hose to be clipped after 500 mm

500mm

### Cable Installation

Place the tube release tool (R) over the tube, positioning the slim side to the screw connection. Close the tool to ensure that it is tight against the tube and then press the tool into the fitting connection.

Pull the tube out of the screw connection using a rotating movement. In doing so, the tool must be kept in the screw connection. Once the pipe is out, remove the tool.

Tube Releaser Tool (R) 899 700 920 2

### Dismantling Procedure

Open the yellow slider for the lock before you insert or remove the plug into the respective socket on the ECU.

If the slider is in the locked end position, a size 13 open-end spanner (AF13) can be used to release it (1).

Pull out the slider up to the end stop by hand in order to permit access to the connector.

Insert the plug (or the dummy cap) vertically (2) on the respective socket of the ECU (e.g. power cable to POWER socket).

Press the plug into the socket (2) with a little force and push the locking slider back to its initial position (3).

The hook of the slider latches in the ECU. The correct latching of the slider is confirmed by an audible "click" sound.

Fix the cables (maximum 300 mm cable length distance to the ECU) using cable ties (T). The 8-pin cables of the ports POWER, SUBSYSTEMS and MODULATOR must be fixed on the TEBS E using the fixing points provided.