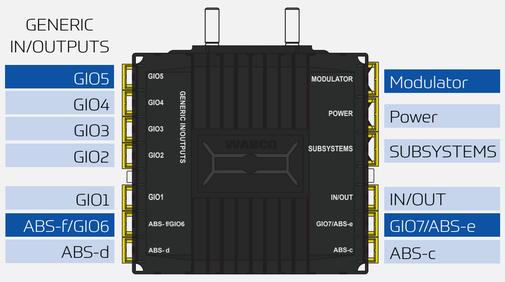
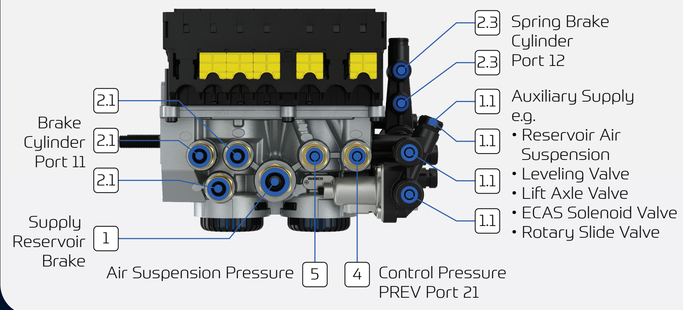
Trailer EBS E
Connections for Cables and Pipes

Trailer EBS E Modulator

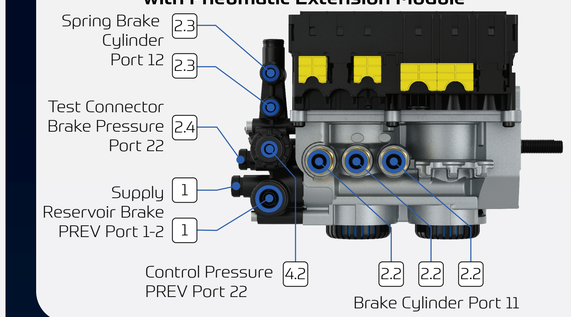
Cable Connections



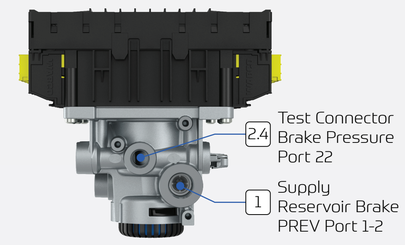
Piping Connections Left Side with Pneumatic Extension Module



Piping Connections Right Side with Pneumatic Extension Module



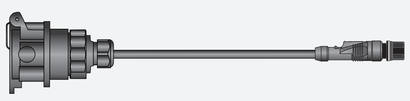
Piping Connections Back Side without Pneumatic Extension Module



Cables for TEBS E Modulator

Power Cables

S P ISO 7638 Semi-trailer — POWER / POWER



449 173 090 0	9 m
449 173 100 0	10 m
449 173 120 0	12 m
449 173 130 0	13 m
449 173 140 0	14 m
449 173 150 0	15 m
449 173 160 0	16 m

S P ISO 7638 Drawbar Trailer — POWER / POWER

449 273 060 0	6 m
449 273 100 0	10 m
449 273 120 0	12 m
449 273 150 0	15 m
449 273 180 0	18 m

S P ISO 7638 Adapter — POWER / POWER

449 347 003 0	0.3 m
449 347 025 0	2.5 m
449 347 080 0	8 m
449 347 120 0	12 m
449 347 180 0	18 m

S P ISO 7638 Adapter — POWER / POWER

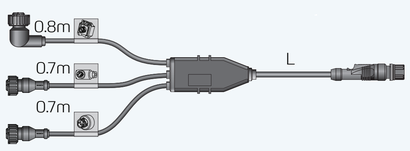
449 353 005 0	0.5 m
449 353 110 0	11 m
449 353 140 0	14 m

S P ISO 7638 Open End — POWER / POWER

449 371 120 0	12 m
449 371 180 0	18 m

3rd Modulator Cables

P EBS Relay Valve — Modulator



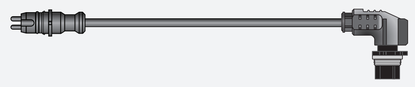
449 429 010 0	1 m
449 429 030 0	3 m
449 429 080 0	8 m
449 429 130 0	13 m

P ABS Relay Valve — Modulator

449 436 003 0	3 m
449 436 080 0	8 m

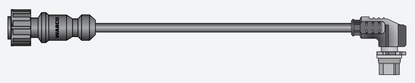
GIO Cables

S P ABS Sensor (c, d, e, f) — ABS c+d / ABS c ... f



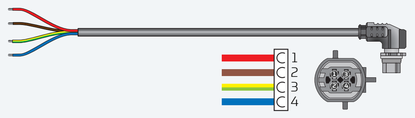
449 723 003 0	0.3 m
449 723 018 0	1.8 m
449 723 023 0	2.3 m
449 723 030 0	3 m
449 723 040 0	4 m
449 723 050 0	5 m
449 723 060 0	6 m
449 723 080 0	8 m
449 723 100 0	10 m
449 723 150 0	15 m

S P Lift Axle Valve LACV, TASC with RtR, Buzzer, or Solenoid Valve — GIO 1...4 / GIO 1...7



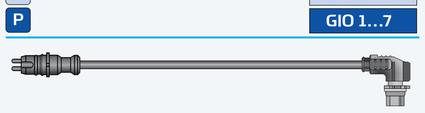
449 443 008 0	0.8m
449 443 010 0	1 m
449 443 020 0	2 m
449 443 030 0	3 m
449 443 040 0	4 m
449 443 060 0	6 m
449 443 100 0	10 m

S P GIO Open End [4-wires] Cable for Duplicate GIOs — GIO 1...4 / GIO 1...7



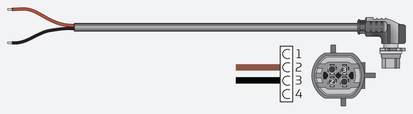
449 535 010 0	1 m
449 535 040 0	4 m
449 535 060 0	6 m
449 535 100 0	10 m
449 535 150 0	15 m

S P Adapter — GIO 1...4 / GIO 1...7



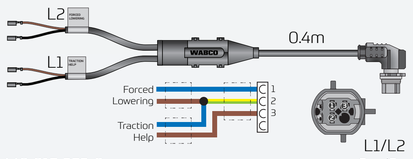
449 819 010 0 — 1 m

S P Traction Help — GIO 1 + 3 / GIO 1 + 3



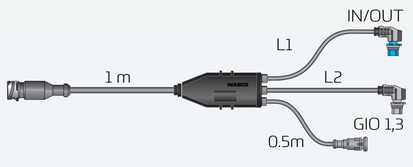
449 813 050 0	5 m
449 813 080 0	8 m
449 813 150 0	15 m

S P Traction Help + Forced Lowering — GIO 1 + 3 / GIO 1 + 3



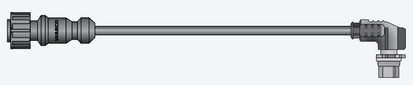
449 815 253 0	L1/L2 6m/6m
449 815 258 0	15m/6m

S P 24 N + Traction Help + Forced Lowering — GIO 1+3 IN/OUT / GIO 1+3 IN/OUT



449 356 023 0 — L1 = 1m / L2 = 0.4m

S P Axle Load Sensor or Demand Pressure Sensor — GIO 1 + 3 / GIO 1 + 3



449 812 004 0	0.4 m
449 812 030 0	3 m
449 812 040 0	4 m
449 812 100 0	10 m
449 812 120 0	12 m
449 812 180 0	18 m
449 812 260 0	26 m
449 812 320 0	32 m
449 812 440 0	44 m

S P Y-distributor for GIO — GIO 1...3 / GIO 1...7

449 629 022 0 — L1 = 0.4 m / L2 = 0.4m

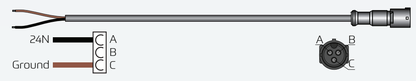
ECAS valve or lift axle valve with Y-distributor

449 761 030 0 — 3 m

Pressure sensor, lift axle or height sensor with Y-distributor

449 752 010 0	1 m
449 752 020 0	2 m
449 752 030 0	3 m
449 752 080 0	8 m
449 752 100 0	10 m

Traction Help or manouvering assistance with Y-distributor



449 762 020 0	2 m
449 762 080 0	8 m
449 762 150 0	15 m

Mechanical switch with Y-distributor

449 763 100 0 — 10 m

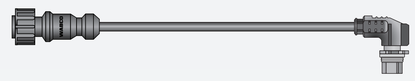
S P Brake Wear Indicator BVA — GIO 1...4 / GIO 1...7

449 816 013 0	1.3 m
449 816 030 0	3.0 m

P ABS Sensor + GIO 6+7 — GIO 6+7

449 818 022 0 — L1 = 0.4 m / L2 = 0.4m

P ECAS Solenoid Valve — GIO 2+3



449 445 010 0	1 m
449 445 030 0	3 m
449 445 050 0	5 m
449 445 060 0	6 m
449 445 120 0	12 m

P Height Sensor for ECAS and Mechanical Suspension — GIO 1+4

449 811 010 0	1 m
449 811 020 0	2 m
449 811 030 0	3 m
449 811 050 0	5 m
449 811 080 0	8 m
449 811 120 0	12 m

P — GIO 5

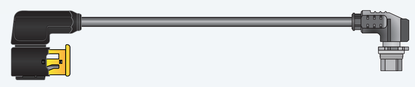
Telematics

449 915 010 0	1 m
449 915 120 0	12 m
449 915 170 0	17 m

Diagnostics

449 611 030 0	3 m
449 611 040 0	4 m
449 611 060 0	6 m
449 611 080 0	8 m

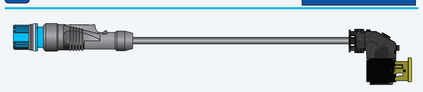
OptiTire™ or OptiLink™



449 927 020 0	2 m
449 927 050 0	5 m
449 927 120 0	12 m

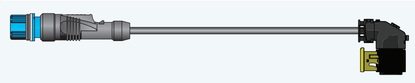
SUBSYSTEMS Cables

S P SmartBoard — SUBSYSTEMS / SUBSYSTEMS



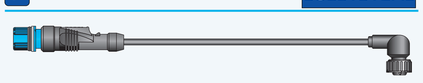
449 961 040 0	4 m
449 961 060 0	6 m
449 961 120 0	12 m

S P OptiTire™ / OptiLink™ TX-TrailerPULSE — SUBSYSTEMS / SUBSYSTEMS



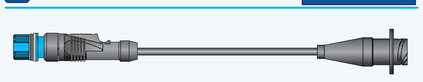
449 963 020 0	2 m
449 963 050 0	5 m

S P ECAS Control Box — SUBSYSTEMS / SUBSYSTEMS



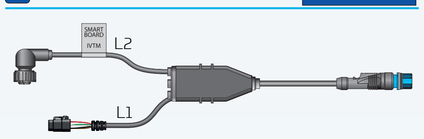
449 627 060 0 — 6 m

S P ECAS Remote Control Unit — SUBSYSTEMS / SUBSYSTEMS



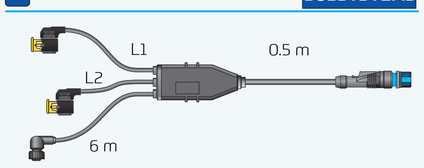
449 628 050 0 — 5 m

S P Telematics + SmartBoard — SUBSYSTEMS / SUBSYSTEMS



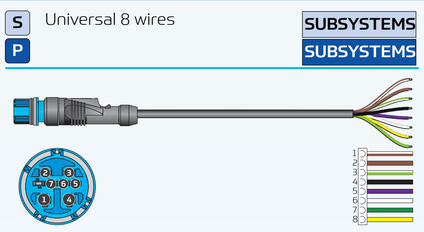
449 920 248 0 — L1 = 3 m / L2 = 6m

S P OptiTire™, OptiLink ™ and Control Box — SUBSYSTEMS / SUBSYSTEMS



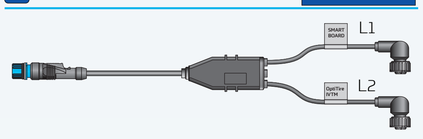
449 944 217 0 — L1 = 12 m / L2 = 4.5 m

S P Universal 8 wires — SUBSYSTEMS / SUBSYSTEMS



449 437 020 0	2 m
449 437 060 0	6 m

S P SmartBoard + OptiTire™ / IVTM — SUBSYSTEMS / SUBSYSTEMS



449 916 182 0	L1 = 0.4 m / L2 = 4 m
449 916 243 0	L1 = 1 m / L2 = 6 m
449 916 253 0	L1 = 6 m / L2 = 6 m

SmartBoard Adapter

894 600 074 2 — 0.15 m

OptiTire™ Adapter

894 600 001 2 — 0.15 m

S P SmartBoard and OptiLink™ and / or OptiTire™ — SUBSYSTEMS / SUBSYSTEMS

449 934 330 0

IN/OUT Cables

S P ISO 1185 (24N) — IN/OUT / IN/OUT

449 349 040 0	4 m
449 349 060 0	6 m
449 349 100 0	10 m
449 349 150 0	15 m

449 350 010 0	1 m
449 350 028 0	2.8 m
449 350 055 0	5.5 m

S P Stop Light Supply, Traction Help & Forced Lowering — IN/OUT / IN/OUT

449 366 010 0	1 m
449 366 055 0	5.5 m

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.

Dismantling Procedure

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

Cable Installation

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.

- 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.