

Function

Cables are used in trailer EBS systems to:

- provide electrical power to the components in the system.
- communicate signals to the ECU from sensors monitoring trailer characteristics.
- communicate control commands from the ECU to modulators/modules to enable any required braking intervention.
- communicate control commands from the towing vehicle.

Power Supply Cables are used to distribute electrical power from the towing vehicle to electrically powered braking and auxiliary equipment on the trailer. The main power supply to the trailer is through a plug or socket according to ISO 7638. The ISO 7638 connection carries the CAN signal from/to the towing vehicle and so the EBS **Power Supply Cables** also provide the CAN signal to the ECU.

The cables are available in various lengths and are normally supplied with a bayonet connector to ensure easy and safe connection.

Modular Cables / Wiring Harnesses are available in many configurations and are used to supply electrical signals and power to auxiliary equipment including the external third modulator on 4S/3M systems.

Wheel Speed Sensor Cables are used to connect the ECU to the wheel speed sensors so that their wheel speed signals can be sent. The wheel speed sensor is supplied with only a short length of cable and so will often require a **Wheel Speed Sensor Extension Cable** to enable connection.

NOTES: *The text in the 'Comments' columns describes the typical usage. Other connections are possible for most cables.*

- *The document starts with details of power cables, then shows modulator cables, wheel speed sensor cables and auxiliary cables.*

**Technical Features**

Operating Temperature Range: -40 °C to +80 °C

See tables for other features.

TEBS4

Cables for Trailer EBS (TEBS4)

Doc. No. Y107795 (EN - Rev. 001)
August 2015

Colour Coding used in this document

BK	Black	GN	Green	YE	Yellow
BN	Brown	RD	Red		
BU	Blue	WH	White		

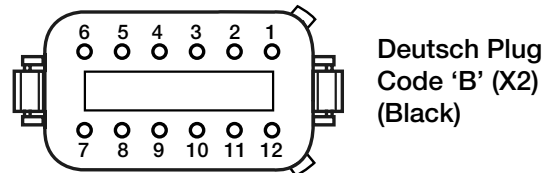
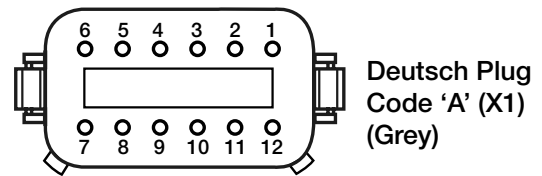
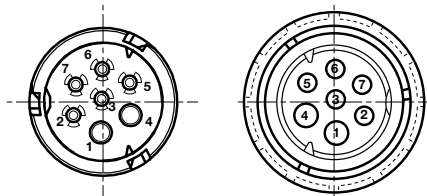
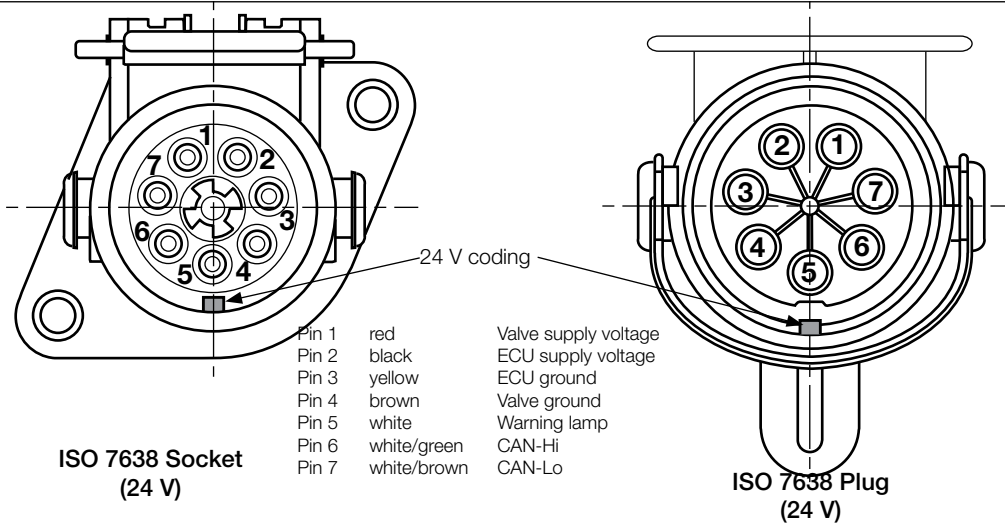
Other Documentation

For information on systems and components mentioned in this document please refer to:

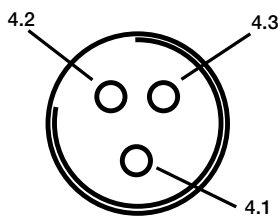
ABS Relay Modulator Valves	PD-200-200, Document No. Y011362
TEBS4 Brake Module	PD-214-100, Document No. Y011366
Wheel Speed Sensors	PD-261-000, Document No. Y011363
Pressure Sensor	PD-262-200, Document No. Y095830
Deflection Sensor	PD-264-200, Document No. Y095832
Cables for TEBS G2	PD-272-025, Document No. Y142784
Diagnostic Cables for Trailer ABS/EBS	PD-272-030, Document No. Y107796
Diagnostic Cables for TEBS G2	PD-272-035, Document No. Y138839
Tyre Pressure Monitoring System (TPMS)	PD-551-000, Document No. Y095833

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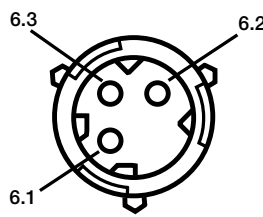
Pin Configurations



Modulator connectors

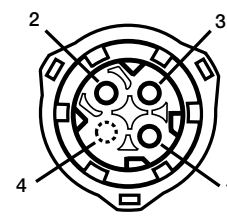


- 4.1 - Common
- 4.2 - Release Valve
- 4.3 - Hold Valve



DIN72585 Bayonet Socket

- 6.1 - Release Valve
- 6.2 - Common
- 6.3 - Hold Valve



DIN72585 Bayonet Plug

- 1 - Release Valve
- 2 - Common
- 3 - Hold Valve
- 4 - not connected

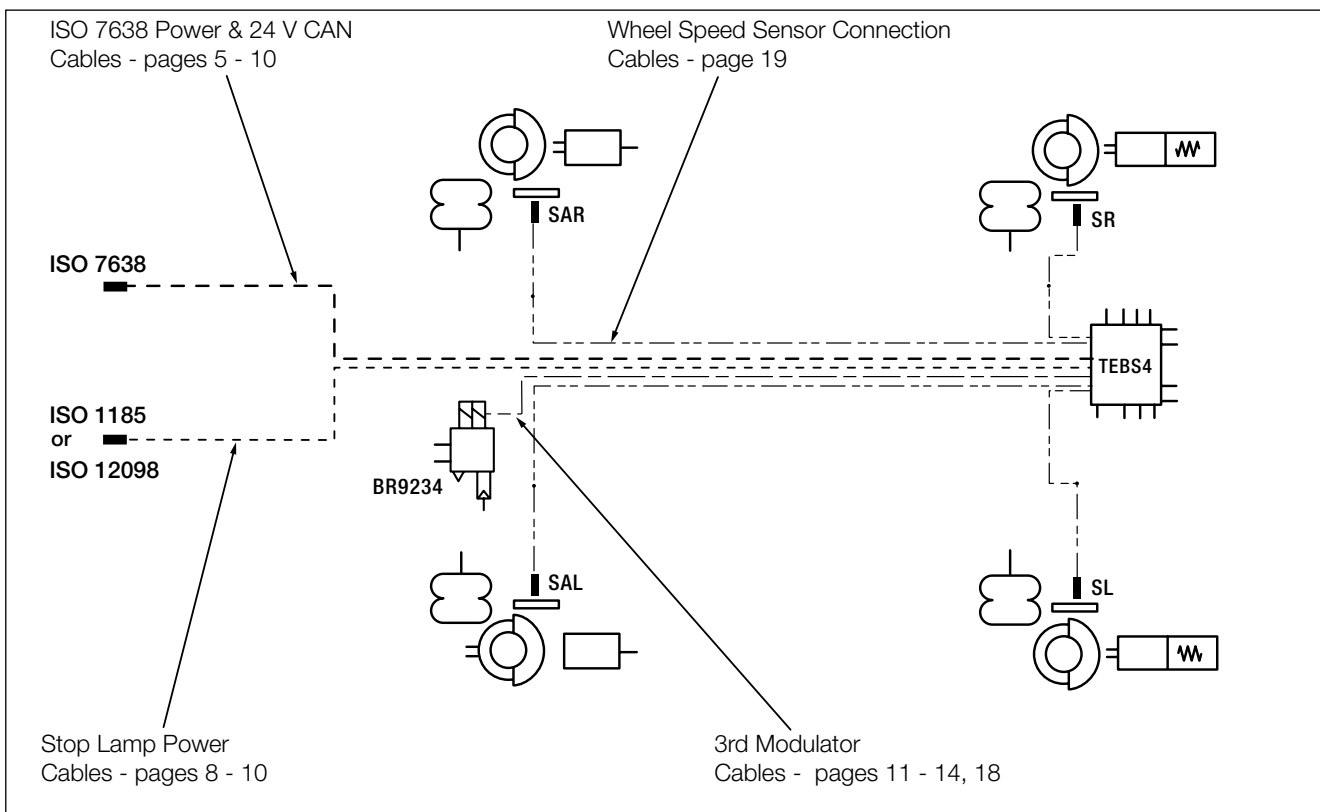
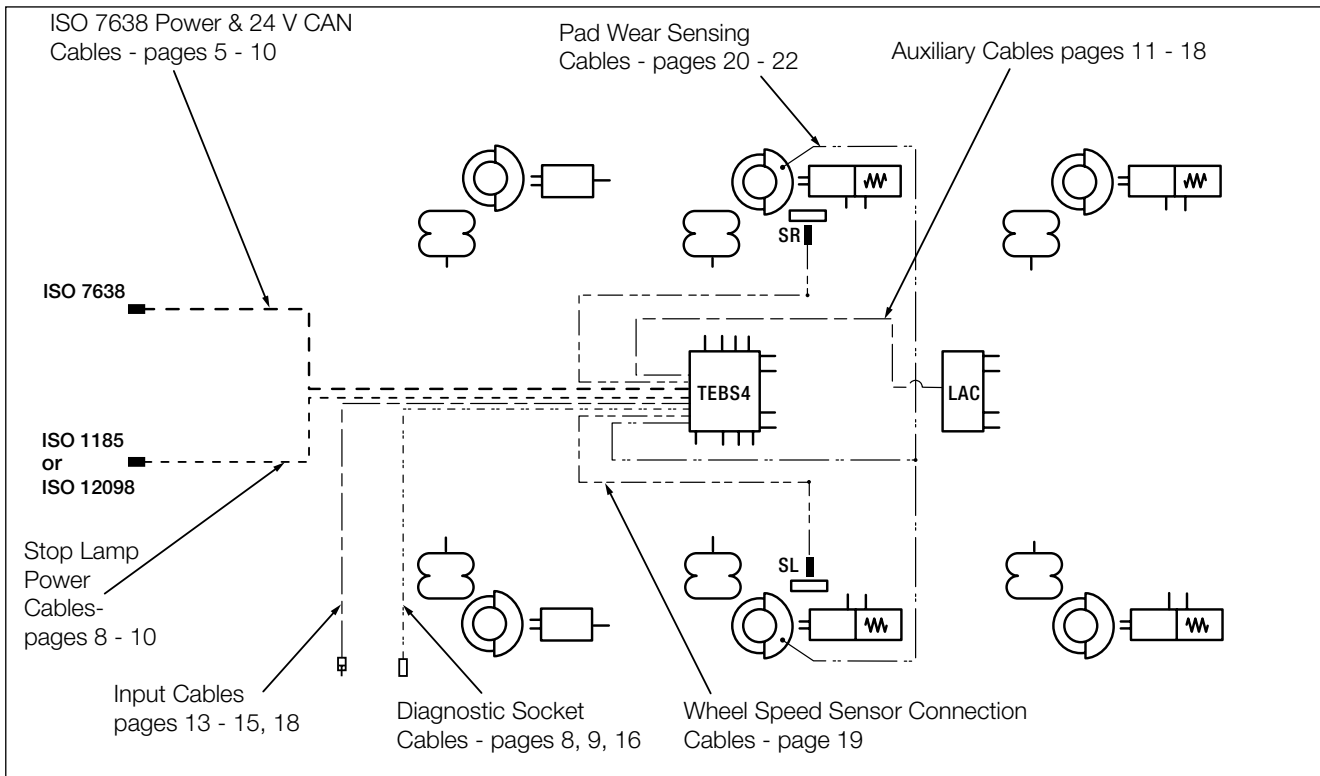
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TEBS4

Cables for Trailer EBS (TEBS4)

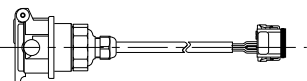
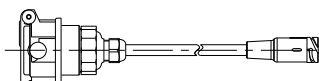
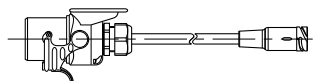
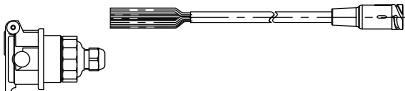
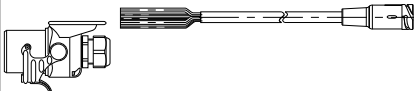
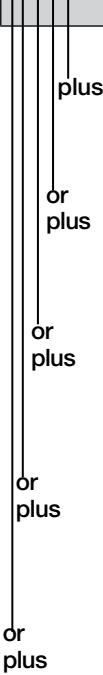
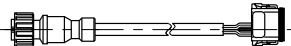



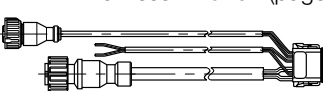
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Cable Selection Guide - TEBS4 (typical systems)



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Power Supply Cable Options

		Trailer	
		Semi-trailer	Drawbar or Centre-axle Trailer
ISO 7638 Connector direct to TEBS4 Brake Module			
ISO 7638 Connector only		Cable K002294 (page 6) 	-
ISO 7638 Connector to TEBS4 Brake Module via intermediate connector			
ISO 7638 Connector to intermediate connector	either	Cable EK3110 (page 6) 	Cable EK3115 (page 8) 
	or	Cable K002288 / 89 / K004775 (page 7) + ISO 7638 Socket K002290 (page 23) 	Cable K002288 / 89 / K004775 (page 7) + ISO 7638 Plug K002291 (page 23) 
	Intermediate connector to TEBS4 module (ISO 7638 only)	Cable K002286 (page 10) 	
	Intermediate connector to TEBS4 module + ISO 1185 connection	Harness EK3108 (page 10) 	
	Intermediate connector to TEBS4 module + diagnostic socket	Harness EK3101 (page 8) 	
	Intermediate connector to TEBS4 module + diagnostic socket + ISO 1185 connection	Harness EK3100 / 07 (page 8, 9) 	
	Intermediate connector to TEBS4 module + ISO 1185 connection + auxiliary socket	Harness EK3102 (page 9) 	

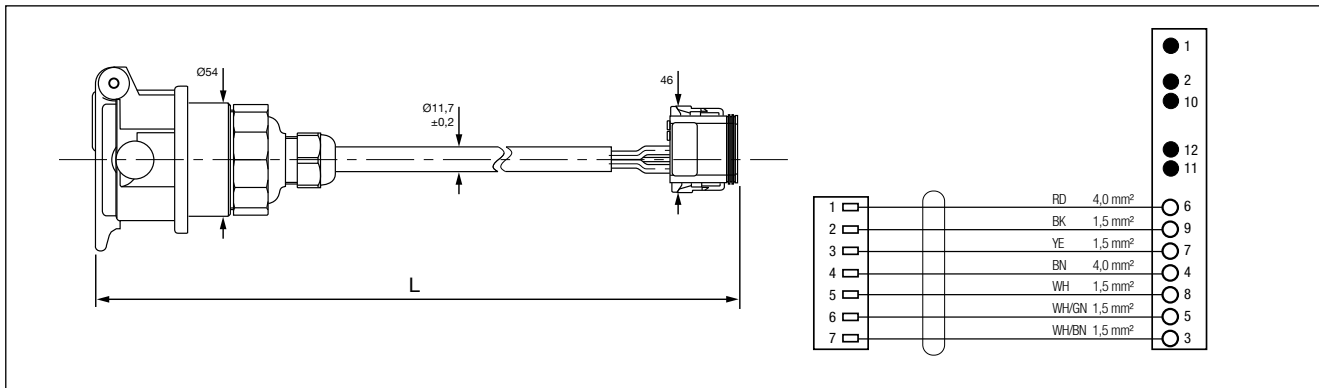
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TEBS4

Cables for Trailer EBS (TEBS4)

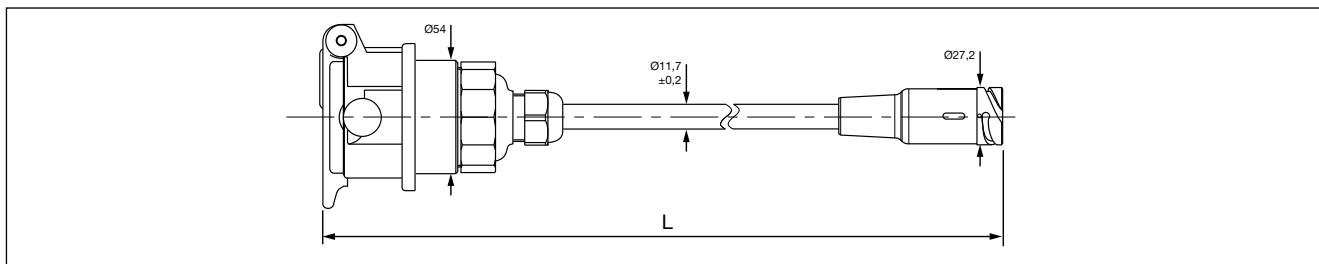
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Power Cable (for semi-trailers) with ISO 7638 Socket and X1 Connector



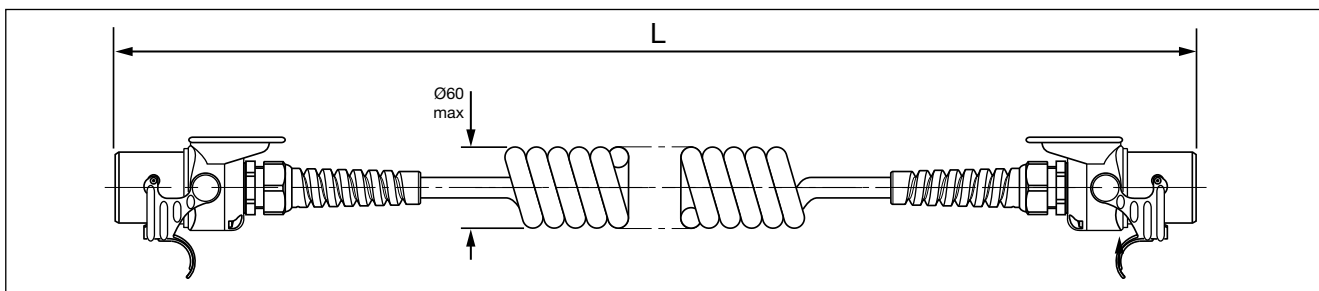
Part No.	Type No.	Cable length L [m]	Comments
K002294 ¹⁾	-	12.0	

Power Cable (for semi-trailers) with ISO 7638 Socket



Part No.	Type No.	Cable length L [m]	Comments
II367419000	EK3110	9.0	Use with X1 Power Supply Harness (pages 8 to 10)
II3674115000		15.0	

Power Connecting Cable - towing vehicle to trailer

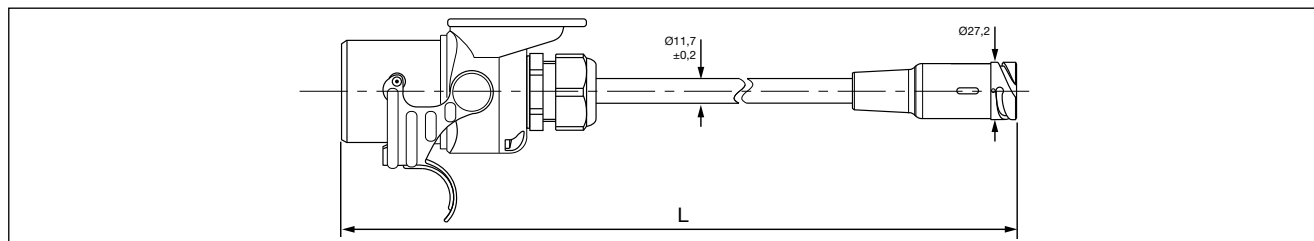


Part No.	Type No.	Cable length L [m]	Comments
K004098 ¹⁾	EK3150	1.0 - 4.0	With 7 pin connectors, for connecting ABS or EBS With buckling protection

¹⁾ The part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K004098N00

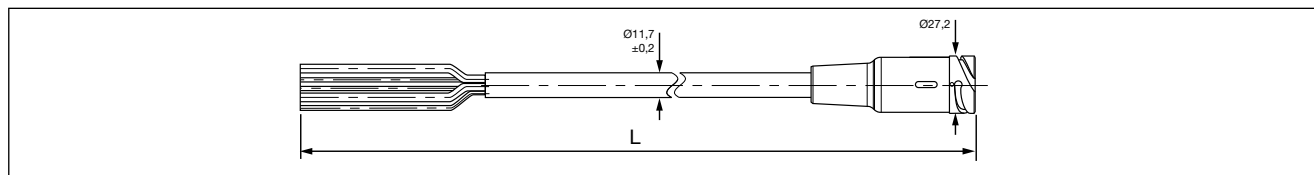
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Power Cable (for drawbar and centre-axle trailers) with ISO 7638 Plug



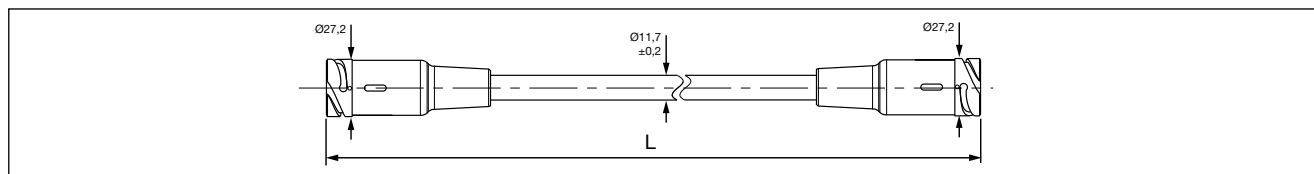
Part No.	Type No.	Cable length L [m]	Comments
II397938000	EK3115	8.0	Use with X1 Power Supply Harness (pages 8 to 10)
II3979310000		10.0	
II3979312000		12.0	

Power Cable without plug



Part No.	Type No.	Cable length L [m]	Comments
K002288 ¹⁾	-	13.0	Use with separate ISO 7638 socket/plug (page 23) and X1 Power Supply Harness (pages 8 to 10)
K002289	-	17.5	
K004775	-	23.5	

Power Connecting Cable



Part No.	Type No.	Cable length L [m]	Comments
K010712 ¹⁾	-	0.5	Adapter to connect TEBS G2 Power Cable to TEBS4

¹⁾ The part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K010712N00

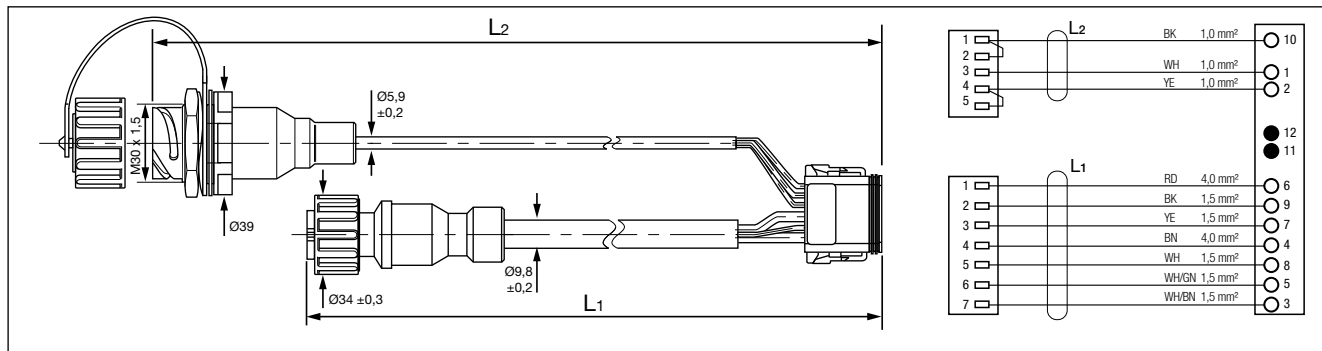
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TEBS4

Cables for Trailer EBS (TEBS4)

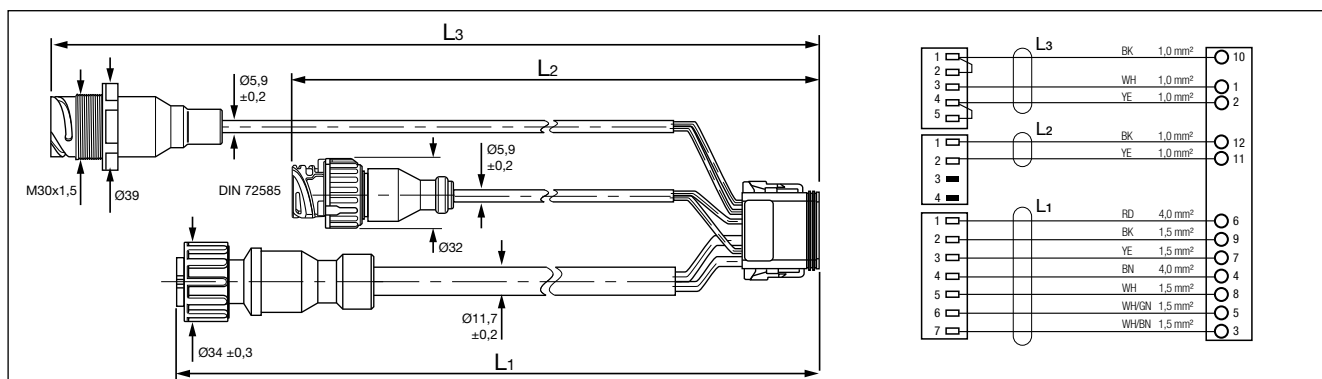
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X1 Power Supply Harness (ISO 7638 only) with Diagnostic Socket



Part No.	Type No.	Cable length L [m]	Comments
I1367381	EK3101	L ₁ = 0.5 L ₂ = 4.0	L ₁ = power supply (ISO 7638) L ₂ = diagnostic socket Use with Power Supply Cable (page 6 and 7)

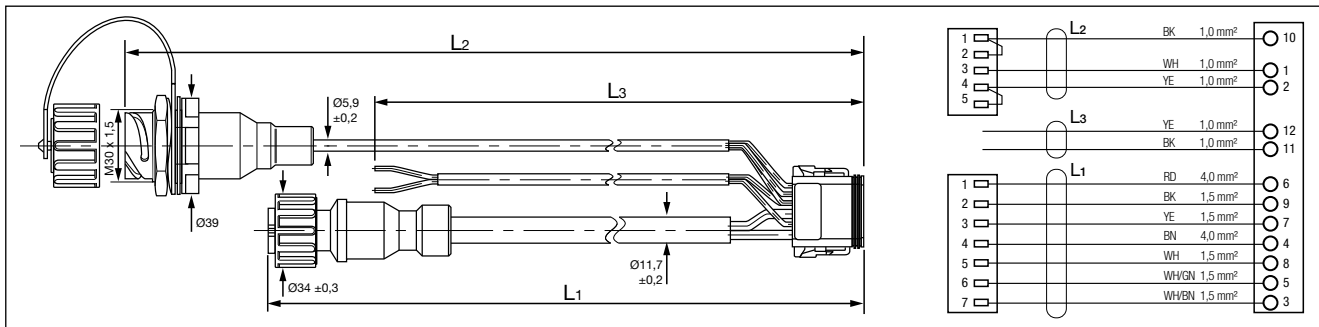
X1 Power Supply Harness (ISO 7638 and ISO 1185) with Diagnostic Socket



Part No.	Type No.	Cable length L [m]	Comments
K007525	EK3107	L ₁ = 0.5 L ₂ = 1.0 L ₃ = 4.0	L ₁ = power supply (ISO 7638) L ₂ = stop lamp supply (ISO 1185) L ₃ = diagnostic socket (without mounting kit) Use with Power Supply Cable (page 6 and 7)

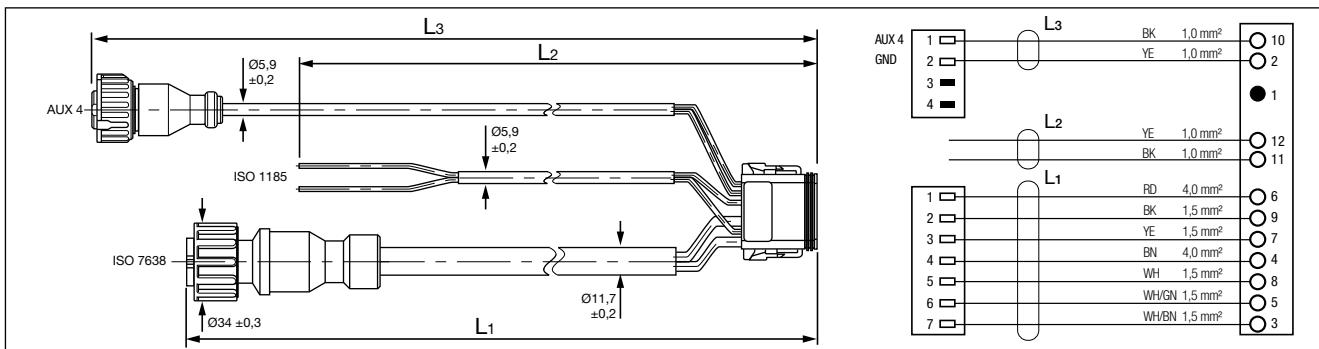
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X1 Power Supply Harness (ISO 7638 and ISO 1185) with Diagnostic Socket (contd.)



Part No.	Type No.	Cable length L [m]	Comments
II367391	EK3100	L ₁ = 0.5 L ₂ = 4.0 L ₃ = 1.0	L ₁ = power supply (ISO 7638) L ₂ = diagnostic socket L ₃ = stop lamp supply (ISO 1185) Use with Power Supply Cable (page 6 and 7)
II367393		L ₁ = 0.5 L ₂ = 6.0 L ₃ = 1.0	
II367395		L ₁ = 0.5 L ₂ = 4.0 L ₃ = 12.0	
II367397		L ₁ = 0.5 L ₂ = 6.0 L ₃ = 12.0	

X1 Power Supply Harness (ISO 7638 and ISO 1185) with Auxiliary Socket (Aux 4)



Part No.	Type No.	Cable length L [m]	Comments
K002950	EK3102	L ₁ = 0.5 L ₂ = 12.0 L ₃ = 6.0	L ₁ = power supply (ISO 7638) L ₂ = stop lamp supply (ISO 1185) L ₃ = auxiliary socket (Aux 4) Use with Power Supply Cable (page 6 and 7)
K004754		L ₁ = 0.5 L ₂ = 1.0 L ₃ = 4.0	
K004756		L ₁ = 0.5 L ₂ = 12.0 L ₃ = 4.0	

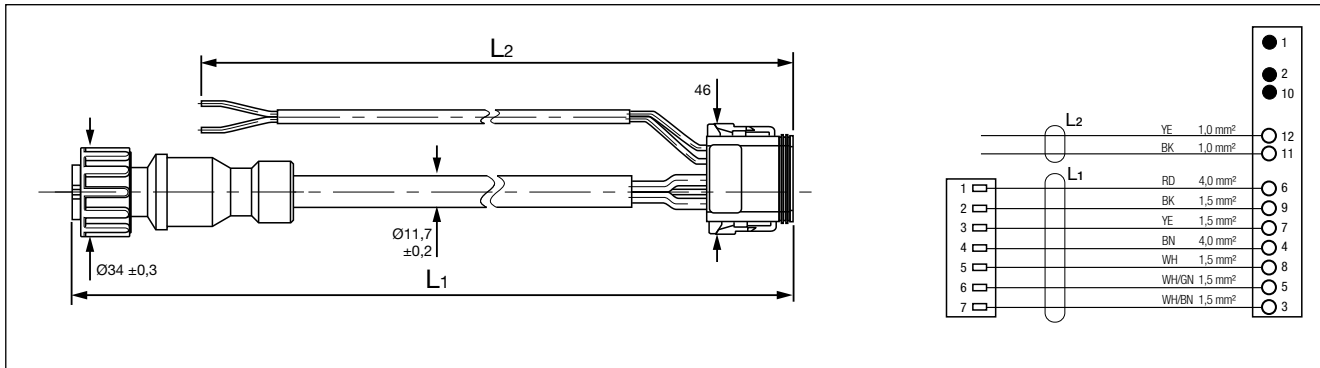
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TEBS4

Cables for Trailer EBS (TEBS4)

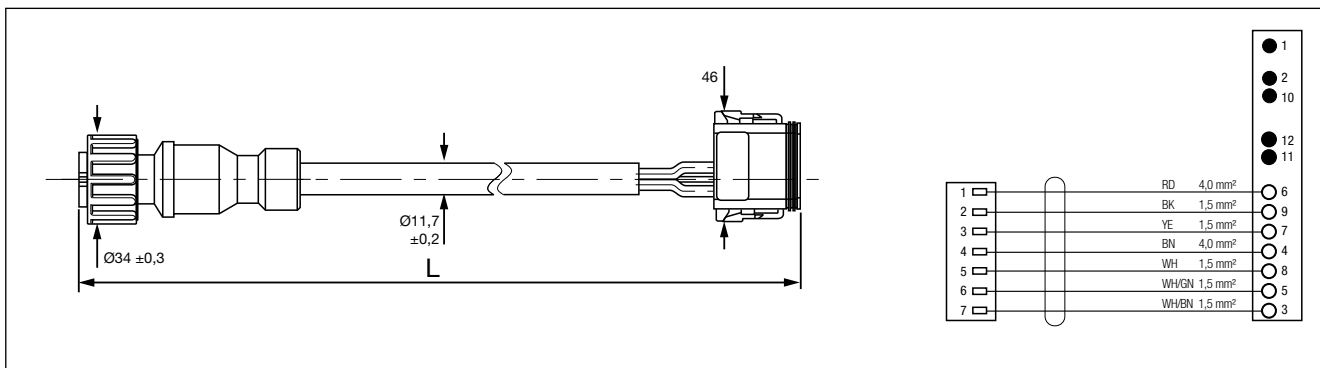
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X1 Power Supply Harness (ISO 7638 and ISO 1185)



Part No.	Type No.	Cable length L [m]	Comments
II40391F1	EK3108	L ₁ = 0.5 L ₂ = 1.0	L ₁ = power supply (ISO 7638) L ₂ = stop lamp supply (ISO 1185)
II40391F2		L ₁ = 0.5 L ₂ = 12.0	Use with Power Supply Cable (page 6 and 7)

X1 Power Supply Harness (ISO 7638)

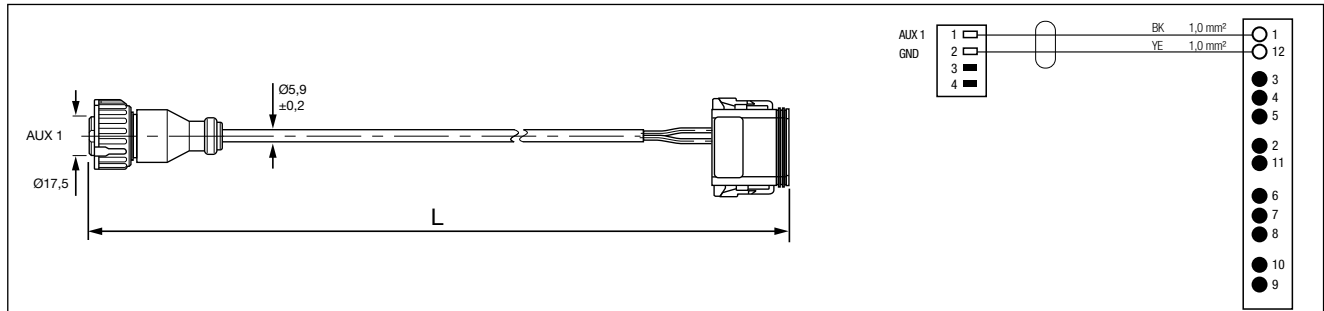


Part No.	Type No.	Cable length L [m]	Comments
K002286 ¹⁾	-	0.5	L = power supply (ISO 7638) Use with Power Supply Cable (page 6 and 7)

¹⁾ The part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K002286N00

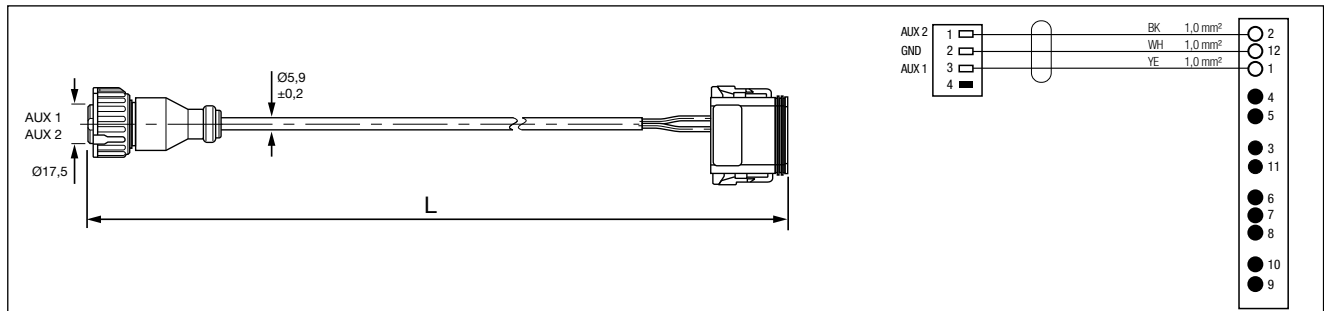
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X2 Connector Harness with Auxiliary Connector (Aux 1)



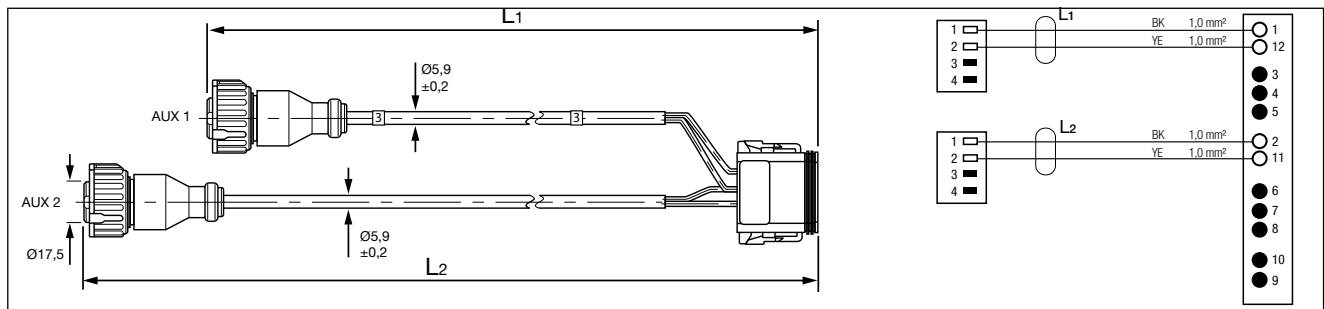
Part No.	Type No.	Cable length L [m]	Comments
II397882	EK3123	4.0	
II397883		6.0	
II397884		2.0	

X2 Connector Harness with Auxiliary Connector (3rd Modulator or Aux 1 & 2)



Part No.	Type No.	Cable length L [m]	Comments
K002954	EK3142	9.0	for connecting 3rd modulator BR9234 OR other Aux 1/2 devices

X2 Connector Harness with Auxiliary Connectors (Aux 1 and Aux 2)



Part No.	Type No.	Cable length L [m]	Comments
II397874	EK3122	L ₁ = 6.0 L ₂ = 2.0	L ₁ = Aux 1 L ₂ = Aux 2

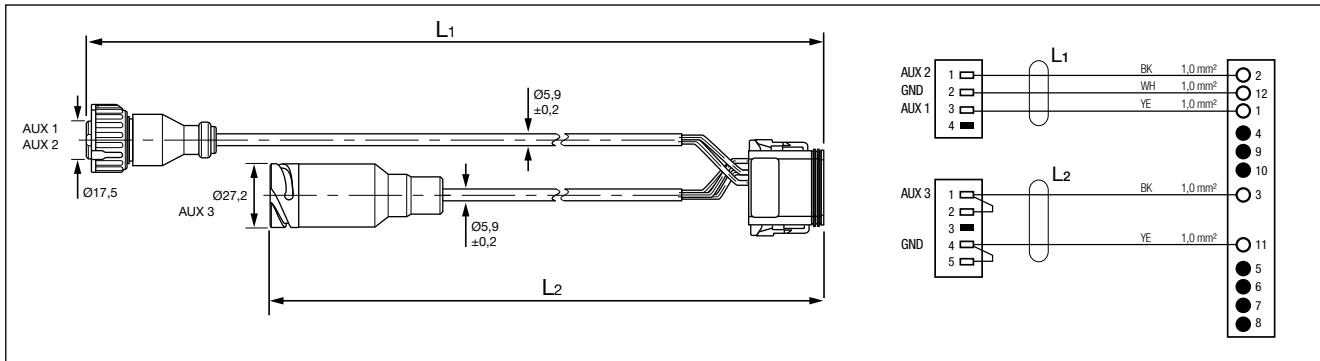
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TEBS4

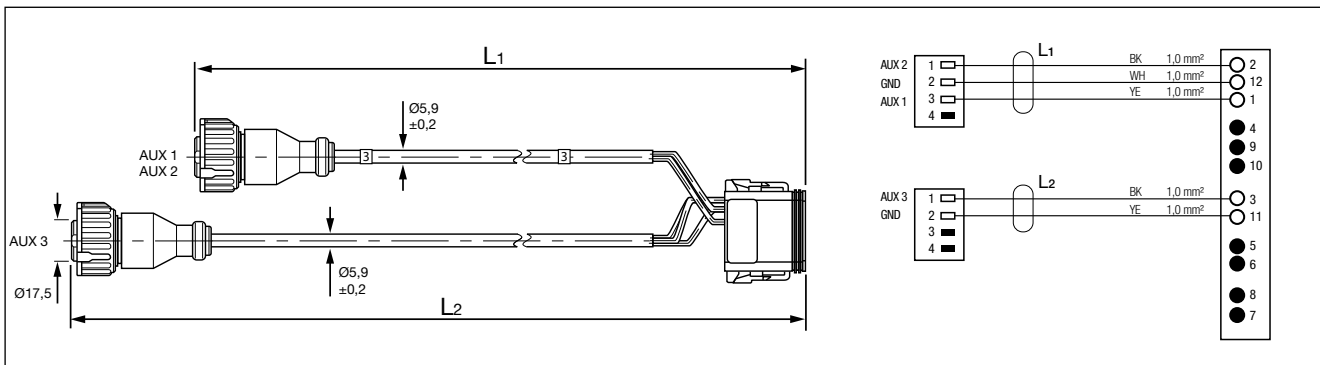
Cables for Trailer EBS (TEBS4)

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August 2015

X2 Connector Harness with Auxiliary Connectors (3rd Modulator or Aux 1, Aux 2 and Aux 3)



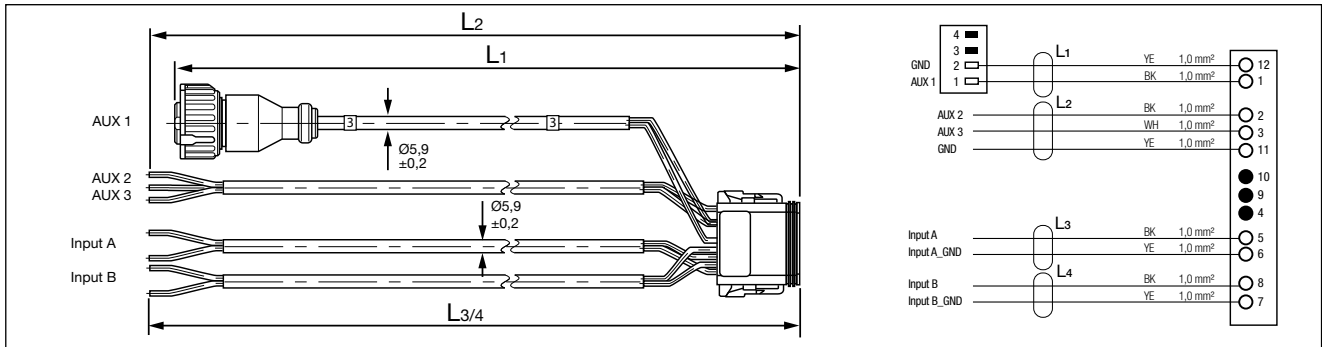
Part No.	Type No.	Cable length L [m]	Comments
K002951	EK3140	L ₁ = 9.0 L ₂ = 6.0	L ₁ = BR9234 or other Aux 1/2 devices L ₂ = Aux 3 - bayonet splitter



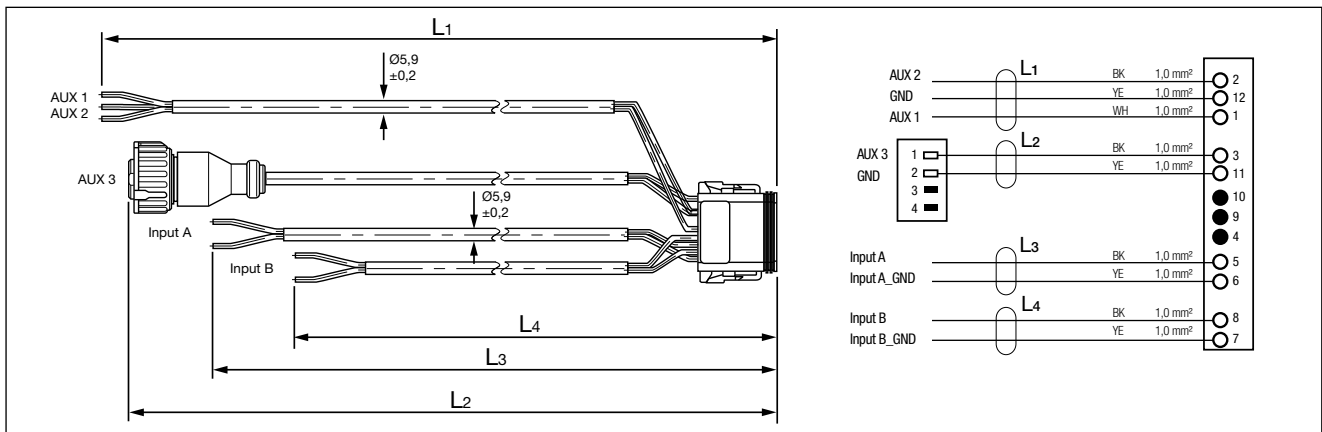
Part No.	Type No.	Cable length L [m]	Comments
K002952	EK3141	L ₁ = 3.0 L ₂ = 6.0	L ₁ = BR9234 or other Aux 1/2 devices L ₂ = Aux 3

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X2 Connector Harness with Auxiliary Connectors and input cables



Part No.	Type No.	Cable length L [m]	Comments
II397951	EK3125	L ₁ = 4,0 L ₂ = 1,0 L ₃ = 1,0 L ₄ = 1,0	L ₁ = Aux 1 L ₂ = Aux 2 & 3
		L ₁ = 6,0 L ₂ = 1,0 L ₃ = 1,0 L ₄ = 1,0	L ₃ = Input A L ₄ = Input B



Part No.	Type No.	Cable length L [m]	Comments
K004569	EK3129	L ₁ = 1,0 L ₂ = 1,2 L ₃ = 1,0 L ₄ = 1,0	L ₁ = Aux 1 & 2 or BR9234 L ₂ = Aux 3 L ₃ = Input A L ₄ = Input B

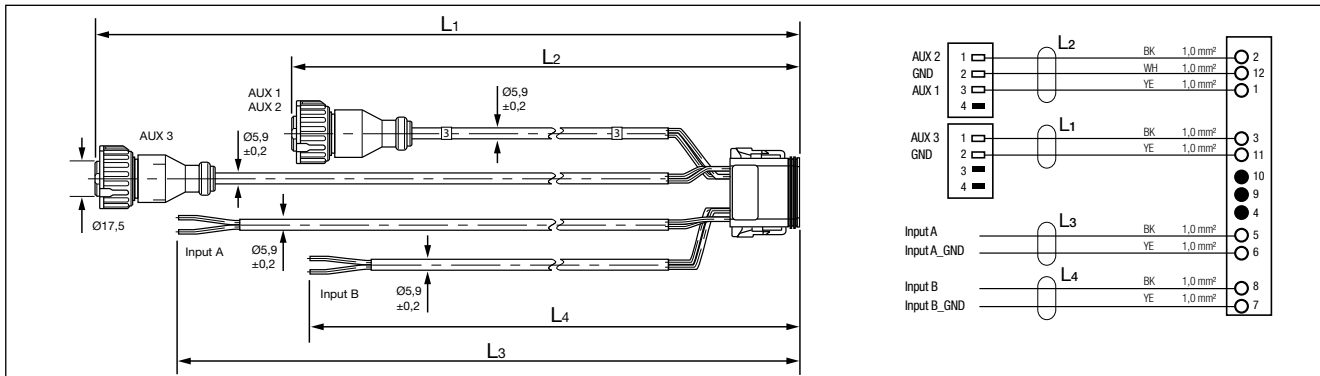
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TEBS4

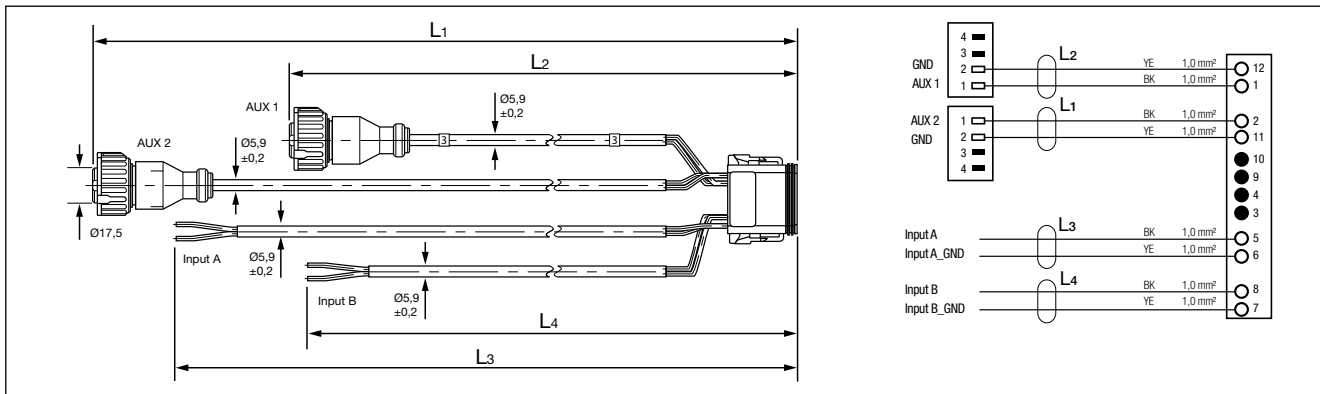
Cables for Trailer EBS (TEBS4)

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X2 Connector Harness with Auxiliary Connectors and input cables (contd.)



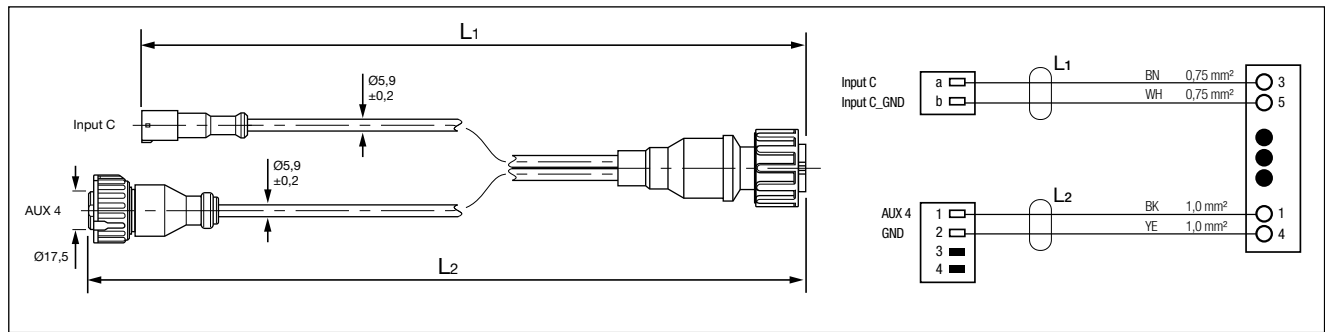
Part No.	Type No.	Cable length L [m]	Comments
II39802F1	EK3126	$L_1 = 2.0$ $L_2 = 6.0$ $L_3 = 1.0$ $L_4 = 1.0$	$L_1 = \text{Aux 3}$ $L_2 = \text{Aux 1 \& 2 or BR9234}$ $L_3 = \text{Input A}$ $L_4 = \text{Input B}$



Part No.	Type No.	Cable length L [m]	Comments
II39814F1	EK3127	$L_1 = 6.0$ $L_2 = 2.0$ $L_3 = 15.0$ $L_4 = 7.0$	$L_1 = \text{Aux 2}$ $L_2 = \text{Aux 1}$
II39814F2		$L_1 = 6.0$ $L_2 = 2.0$ $L_3 = 6.0$ $L_4 = 6.0$	$L_3 = \text{Input A}$ $L_4 = \text{Input B}$

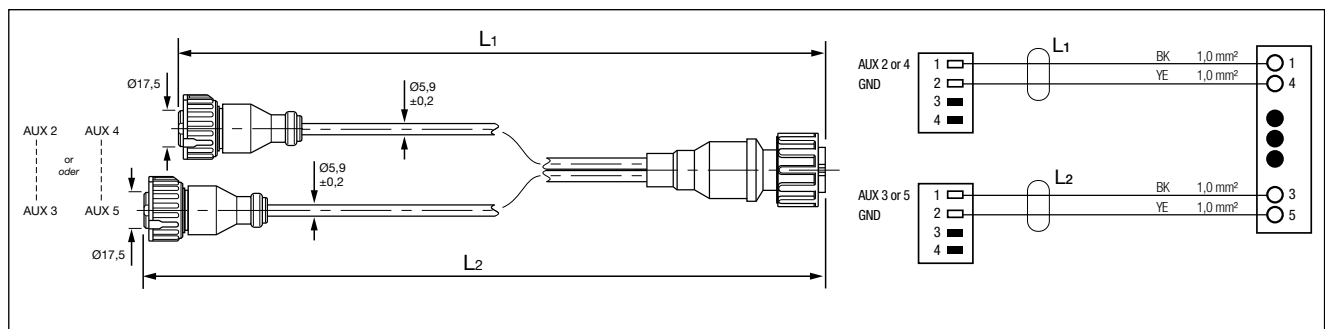
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Connecting Cable for Aux 4 and Input C



Part No.	Type No.	Cable length L [m]	Comments
K002283	-	L ₁ = 1.0 L ₂ = 3.0	L ₁ = Input C L ₂ = Aux 4 Used in conjunction with K002270/71/72

Connecting Cable - Bayonet Splitter



Part No.	Type No.	Cable length L [m]	Comments
K002284	-	L ₁ = 1.0 L ₂ = 3.0	L ₁ = Aux 2 or Aux 4 L ₂ = Aux 3 or Aux 5 Used in conjunction with K002270/71/72

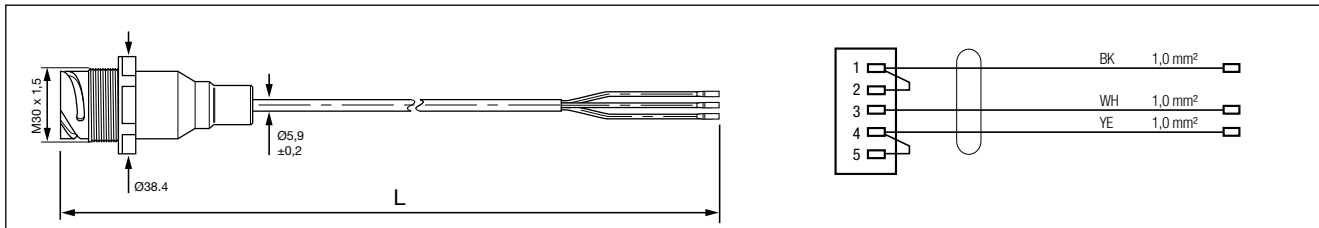
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TEBS4

Cables for Trailer EBS (TEBS4)

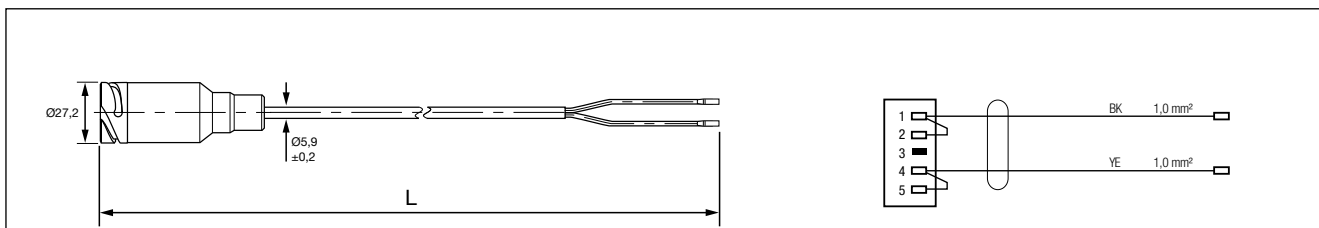
Doc. No. Y107795 (EN - Rev. 001)
August 2015

Connecting Cable for Diagnostic Socket



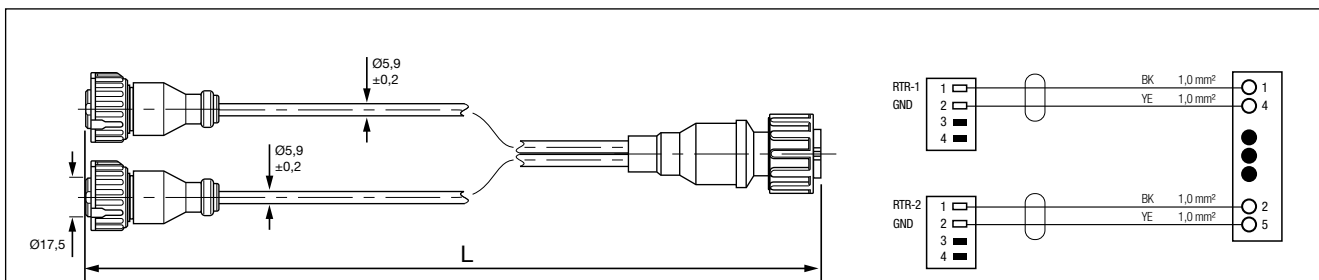
Part No.	Type No.	Cable length L [m]	Comments
K002270 ¹⁾	-	2.0	Diagnostic Socket without mounting kit or AUX 4 and Input C or several AUX
K002271 ¹⁾	-	6.0	
K002272 ¹⁾	-	15.0	

Connecting Cable - Bayonet Splitter



Part No.	Type No.	Cable length L [m]	Comments
K002273	-	6.0	Used in conjunction with K002285

Connecting Cable - 2 x reset to ride height outputs

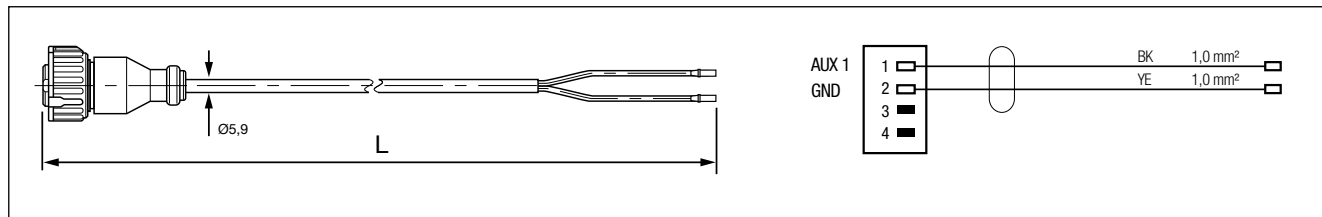


Part No.	Type No.	Cable length L [m]	Comments
K002285	-	0.5	Used in conjunction with K002273

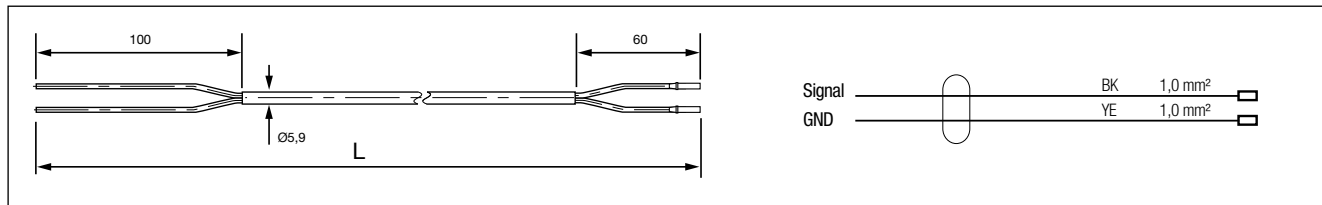
¹⁾ The part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K002272N00

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Connecting Cable for auxiliaries (2 pins)



Part No.	Type No.	Cable length L [m]	Comments
K002274 ¹⁾	-	2.0	with one end open (with pins to suit the Deutsch connector) for several AUX connections
K002275 ¹⁾	-	6.5	
K002276 ¹⁾	-	10.0	
K017003 ¹⁾	-	15.0	



Part No.	Type No.	Cable length L [m]	Comments
K002280 ¹⁾	-	7.0	with two ends open (one with pins to suit the Deutsch connector) for several AUX connections
K002281 ¹⁾	-	15.0	

¹⁾ The part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K002281N00

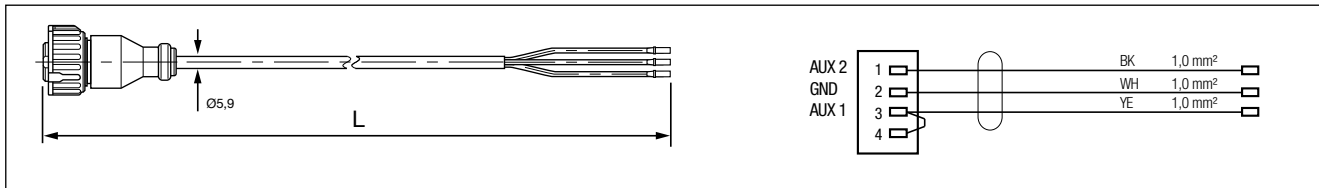
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TEBS4

Cables for Trailer EBS (TEBS4)

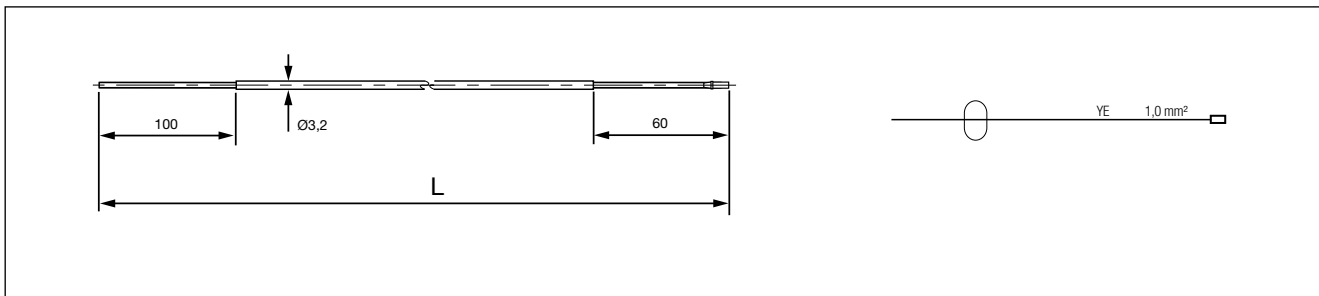
Doc. No. Y107795 (EN - Rev. 001)
August 2015

Connecting Cable for auxiliaries with Bayonet Connector (3 pins)



Part No.	Type No.	Cable length L [m]	Comments
K002277 ¹⁾	-	3.0	for 3rd modulator (BR9234) connection
K002278 ¹⁾	-	9.0	
K002279 ¹⁾	-	15.0	

Cable with open ends

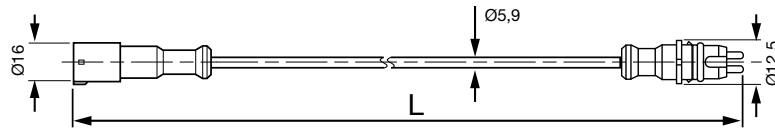


Part No.	Type No.	Cable length L [m]	Comments
K016629 ¹⁾	-	7.0	for Stop Lamp (for example)
K016630 ¹⁾	-	15.0	

¹⁾ The part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K016630N00

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Wheel Speed Sensor Extension Cable



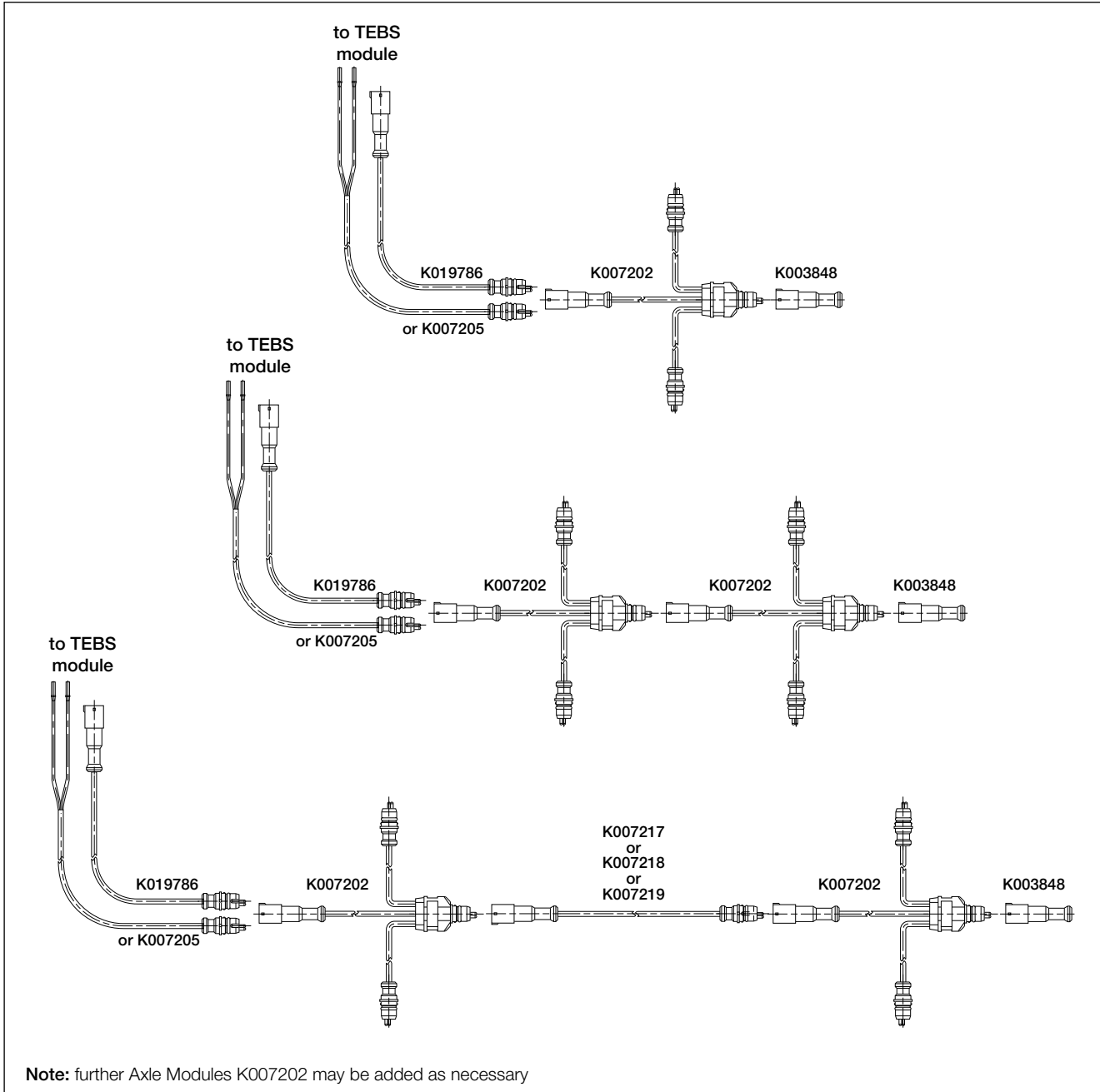
Part No.	Type No.	Cable length L [m]	Comments
II367562000	EK3130	2.0	For extending the wheel speed sensor cable to enable connection to the brake module
II367563000		3.0	
II367564000		4.0	
II367565000		5.0	
II367566000		6.0	
II367568000		8.0	
II3675610000		10.0	
II3675612000		12.0	
II3675615000		15.0	

TEBS4

Cables for Trailer EBS (TEBS4)

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Pad Wear Sensing - Installation examples



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Axle Module for Pad Wear Sensing

Part No.	Type No.	Cable length L [m]	Comments
K007202	-	L ₁ = 2.0 L ₂ = 2.0	L ₁ = pad wear sensor L ₂ = connecting or extension cable
K003848	-	-	Closure Cap for Axle Module K007202

Extension Cable for Pad Wear Sensing

Part No.	Type No.	Cable length L [m]	Comments
K007217	-	1.0	To connect two Axle Modules K007202 together
K007218	-	3.0	
K007219	-	5.0	

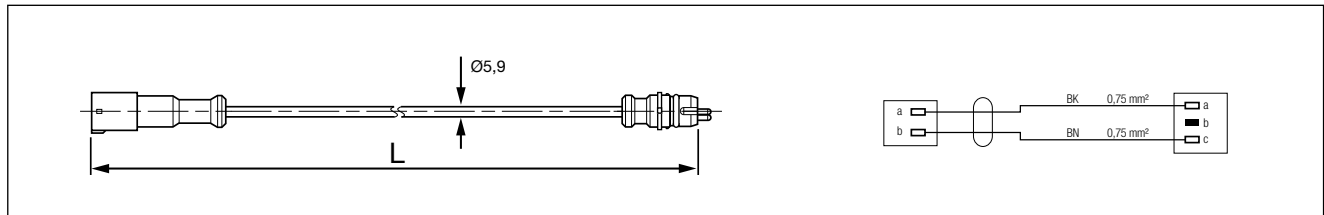
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TEBS4

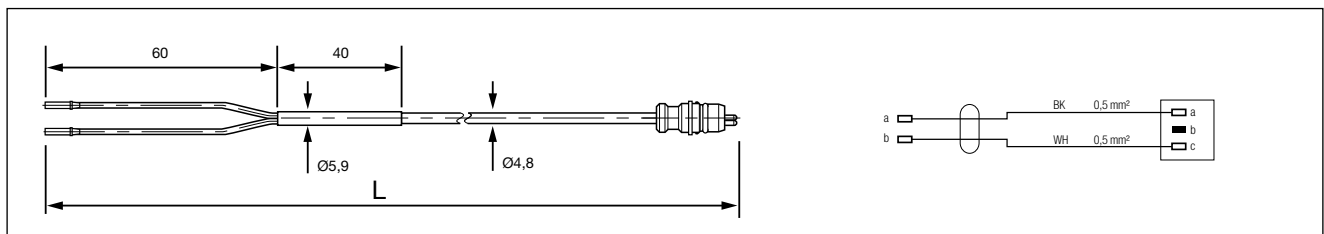
Cables for Trailer EBS (TEBS4)

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August 2015

Connecting Cable for Pad Wear Sensing



Part No.	Type No.	Cable length L [m]	Comments
K019786 ¹⁾	-	1.0	To connect Axle Module K007202 to TEBS Module (TEBS4 Module - SAL or SAR)

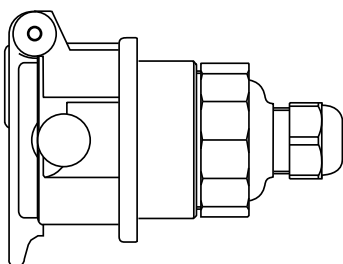


Part No.	Type No.	Cable length L [m]	Comments
K007205	-	1.0	To connect Axle Module K007202 to TEBS Module (Deutsch plug)

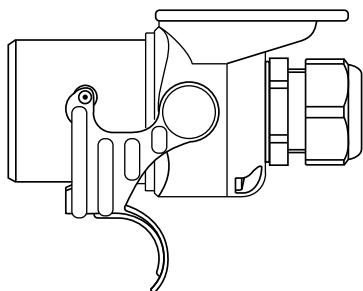
¹⁾ The part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K019786N00

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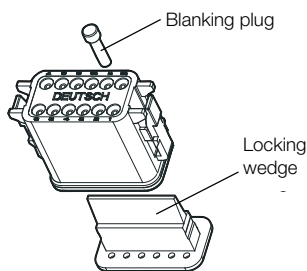
Accessories



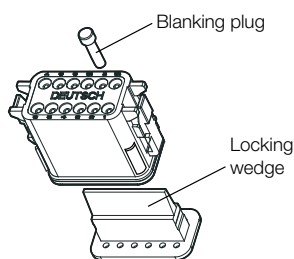
Part No.	Type No.	Description
K002290	-	ISO 7638 Socket (7 pin)



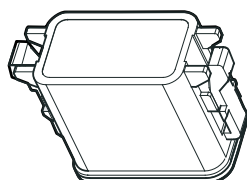
Part No.	Type No.	Description
K002291	-	ISO 7638 Plug (7 pin)



Part No.	Type No.	Description
K002287 ¹⁾	-	12-pin Deutsch Plug (Code B for X2) includes: 1 x Deutsch plug 1 x Locking wedge 12 x Blanking plugs



Part No.	Type No.	Description
K091439 ¹⁾	-	12-pin Deutsch Plug (Code A for X1) includes: 1 x Deutsch plug 1 x Locking wedge 10 x Blanking plugs



Part No.	Type No.	Description
K026197V01 ¹⁾	-	Blanking Plug for all Deutsch 12-way and 18-way Sockets (no coding)

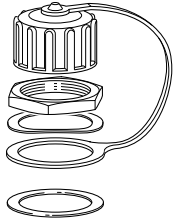
¹⁾ The part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K026197V01N00

TEBS4

Cables for Trailer EBS (TEBS4)

Doc. No. Y107795 (EN - Rev. 001)
August 2015

Accessories (contd.)

	Part No.	Type No.	Description
	K005378	-	Mounting kit for Diagnostic Socket

Revision Details

Rev. 000	March 2012	New document
Rev. 001	May 2015	Amended to include only TEBS4 cables. Obsolete part numbers deleted.
Rev. 001	August 2015	Correction to K091439..



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