

Function

Cables are used in trailer ABS systems to:

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

Power Supply Cables are used to distribute electrical power from the towing vehicle to electrically powered braking and auxiliary equipment of the trailer. The main power supply to the trailer is through a plug or socket according to ISO 7638.

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

Modulator Cables are used to supply electrical power from the ABS ECU:

- to the primary (first and second) modulators on systems where the connection is external (KB3-TA and A18)
- to the external third modulator on 4S/3M systems.

The cables are available separately for the KB3-TA system and as part of a wiring harness for the A18 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.

NOTE: *In this document the cables are divided into sections:*

- *Each section covers the system for which the cables are intended (KB4TA, A18 and KB3-TA).*
- *To help in finding the right cable, at the head of each page is a photograph of the ABS module from the relevant system*
- *Cables which can be used in more than one system have photographs of all relevant modules at the head of the page*
- *Each section starts with details of power supply 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.

Colour Coding used in this document

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

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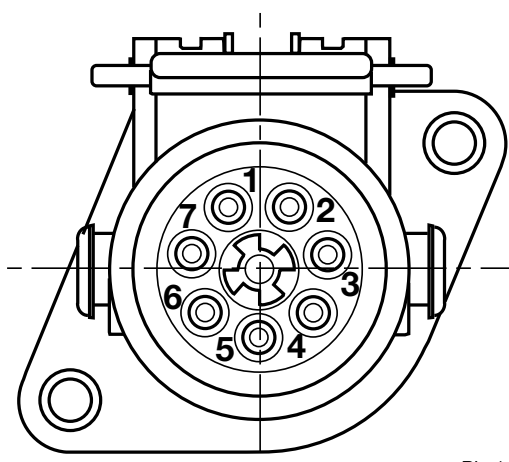
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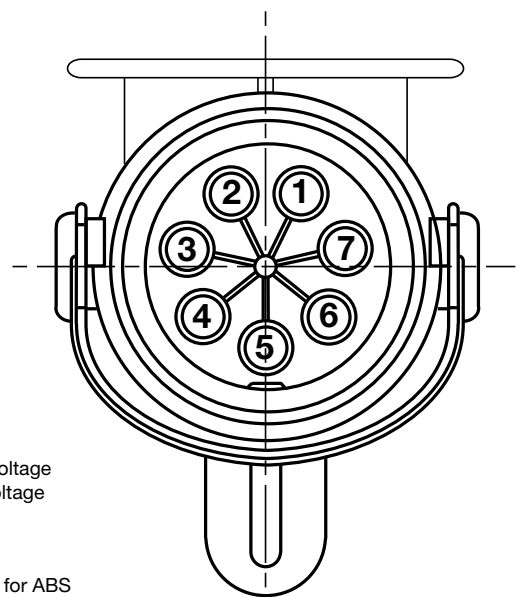
Cables for Trailer ABS

Doc. No. Y095697 (EN - Rev. 000)
September 2011

Pin Configurations

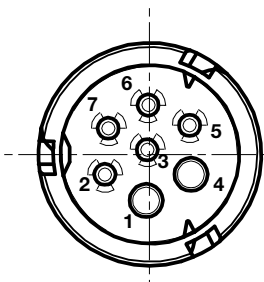


ISO 7638 Socket
(24 V)

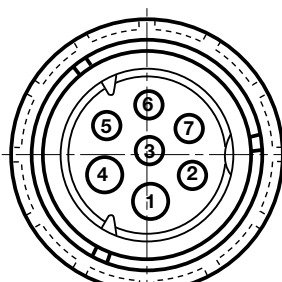


ISO 7638 Plug
(24 V)

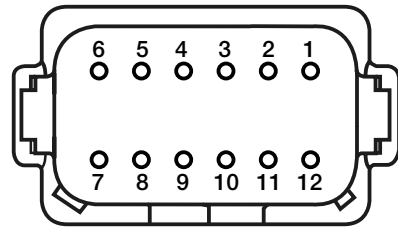
- Pin 1 red Valve supply voltage
- Pin 2 black ECU supply voltage
- Pin 3 yellow ECU ground
- Pin 4 brown Valve ground
- Pin 5 white Warning lamp
- Pin 6 - not connected for ABS
- Pin 7 - not connected for ABS



Bayonet Socket

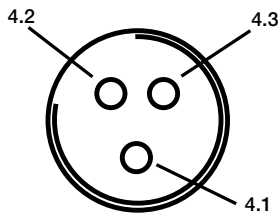


Bayonet Plug



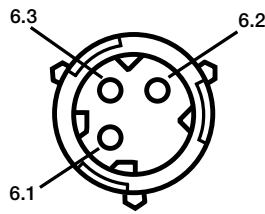
Deutsch Plug

Modulator connectors



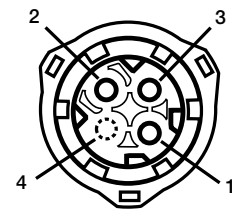
M24x1 Connector - Socket

- 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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Range Overview - KB4TA Cables



KB4TA ABS Module

Power Supply Cable Options

		Trailer	
		Semi-trailer	Drawbar or Centre-axle Trailer
ISO 7638 Connector direct to KB4TA ABS Module			
ISO 7638 Connector + ISO 1185 connection	either	Cable K015313 (page 4) 	-
	or	Cable K015468 (page 5) + ISO 7638 Socket K002290 (page 12) 	Cable K015468 (page 5) + ISO 7638 Plug K002291 (page 12)
ISO 7638 Connector to KB4TA ABS Module via intermediate connector			
ISO 7638 Connector to intermediate connector plus or plus or plus		Cable K022269 / 70 / 71 (page 4) 	Cable K022273 / 74 (page 5)
		Intermediate connector to KB4TA module + diagnostic socket 	Harness K010838 (page 6)
		Intermediate connector to KB4TA module + diagnostic socket + ISO 1185 connection 	Harness K010839 (page 6)
		Intermediate connector to KB4TA module + diagnostic socket + 3rd modulator connection 	Harness K016991 (page 7)

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Cables for Trailer ABS

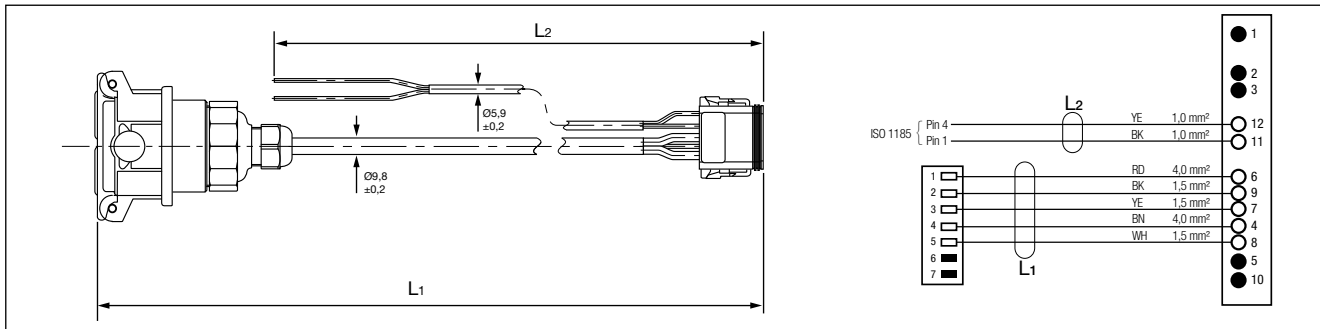
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Range Overview - KB4TA Cables (contd.)



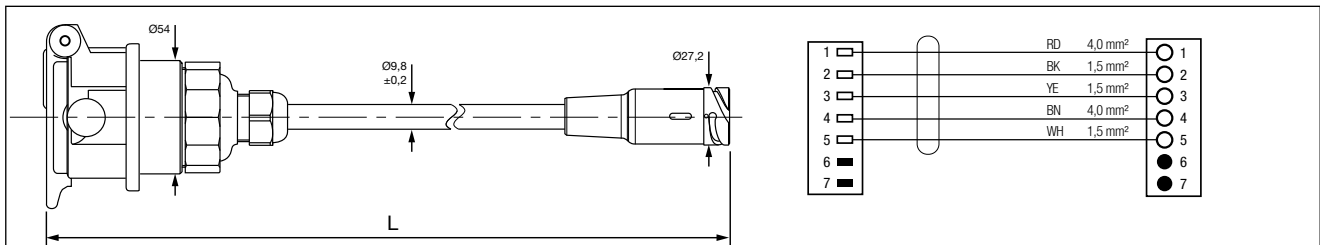
KB4TA ABS Module

Power Supply Cable (for semi-trailers) with ISO 7638 Socket and ISO 1185 Connection



Part No.	Type No.	Cable length L [m]	Comments
K015313 ¹⁾	-	L ₁ = 12.0 L ₂ = 12.0	L ₁ = power supply (ISO 7638) L ₂ = stop lamp supply (ISO 1185)

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



Part No.	Type No.	Cable length L [m]	Comments
K022269 ¹⁾	-	8.0	Use with Power Supply Wiring Harness (page 6 and 7)
K022270 ¹⁾	-	12.0	
K022271 ¹⁾	-	14.0	

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Range Overview - KB4TA Cables (contd.)



KB4TA ABS Module

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

Part No.	Type No.	Cable length L [m]	Comments
K022273 ¹⁾	-	8.0	Use with Power Supply Wiring Harness (page 6 and 7)
K022274 ¹⁾	-	10.0	

Power Supply Cable with ISO 7638 and ISO 1185 Connections

Part No.	Type No.	Cable length L [m]	Comments
K015468 ¹⁾	-	L ₁ = 12.0 L ₂ = 12.0	L ₁ = power supply (ISO 7638) L ₂ = stop lamp supply (ISO 1185) Use with ISO 7638 Plug or Socket (page 11)

¹⁾ The part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K015468N00

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Cables for Trailer ABS

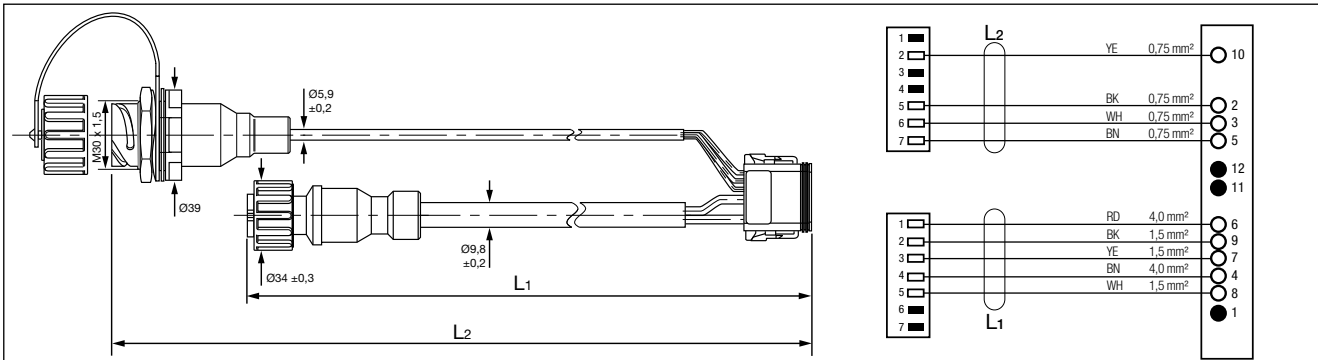
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Range Overview - KB4TA Cables (contd.)



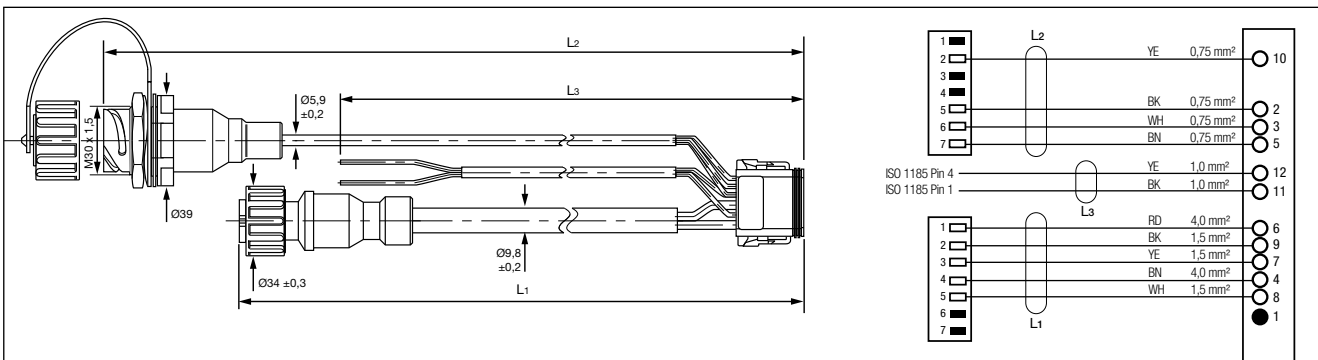
KB4TA ABS Module

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



Part No.	Type No.	Cable length L [m]	Comments
K010838 ¹⁾	-	L ₁ = 0.5 L ₂ = 6.0	L ₁ = power supply (ISO 7638) L ₂ = diagnostic socket Use with Power Supply Cable (page 4 and 5)

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



Part No.	Type No.	Cable length L [m]	Comments
K010839 ¹⁾	-	L ₁ = 0.5 L ₂ = 6.0 L ₃ = 8.0	L ₁ = power supply (ISO 7638) L ₂ = diagnostic socket L ₃ = stop lamp supply (ISO 1185) Use with Power Supply Cable (page 4 and 5)

¹⁾ The part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K010839N00

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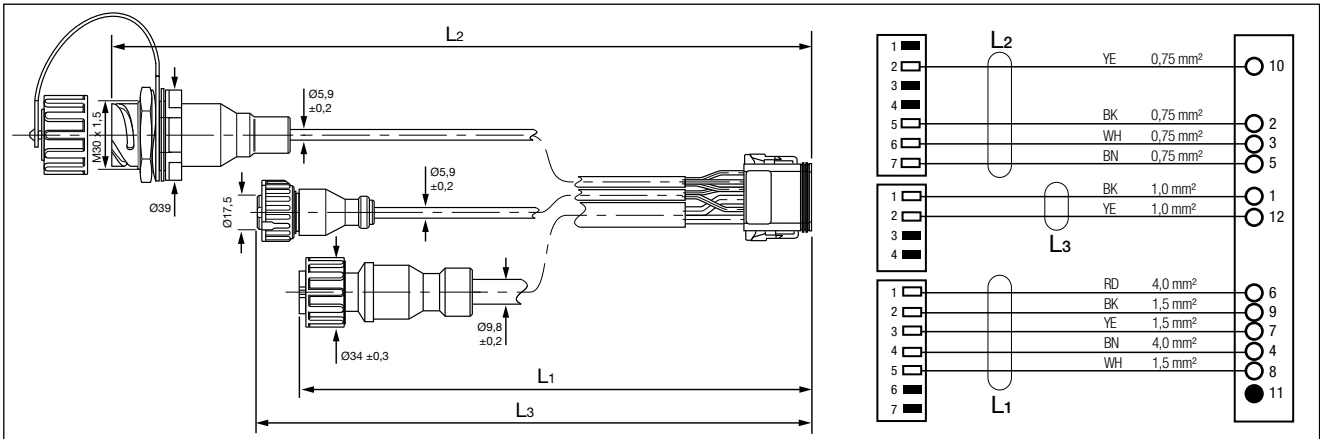


Range Overview - KB4TA Cables (contd.)



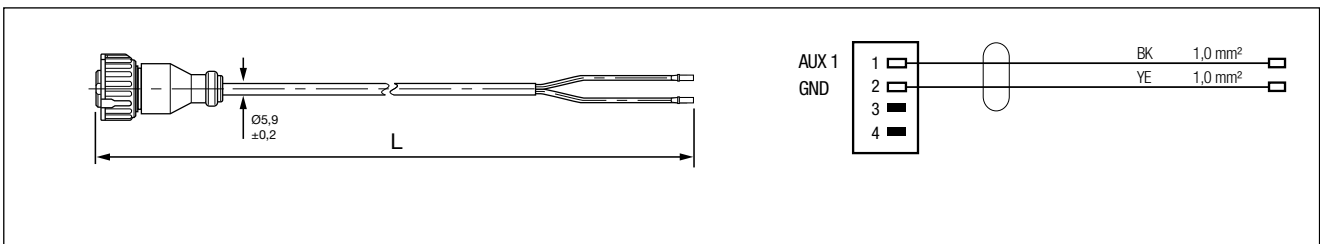
KB4TA ABS Module

Power Supply Wiring Harness (ISO 7638 only) with Diagnostic Socket and 3rd Modulator



Part No.	Type No.	Cable length L [m]	Comments
K016991 ¹⁾	-	L ₁ = 0.5 L ₂ = 6.0 L ₃ = 10.0	L ₁ = power supply (ISO 7638) L ₂ = diagnostic socket L ₃ = 3rd modulator (4S/3M system) Use with Power Supply Cable (page 4 and 5)

3rd Modulator cable



Part No.	Type No.	Cable length L [m]	Comments
K002274 ¹⁾	-	2.0	Open ends for connecting to Deutsch Connector Black wire to Pin 1 Yellow wire to Pin 12
K002275 ¹⁾	-	6.5	
K002276 ¹⁾	-	10.0	
K017003 ¹⁾	-	15.0	

¹⁾ The part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K017003N00

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Cables for Trailer ABS

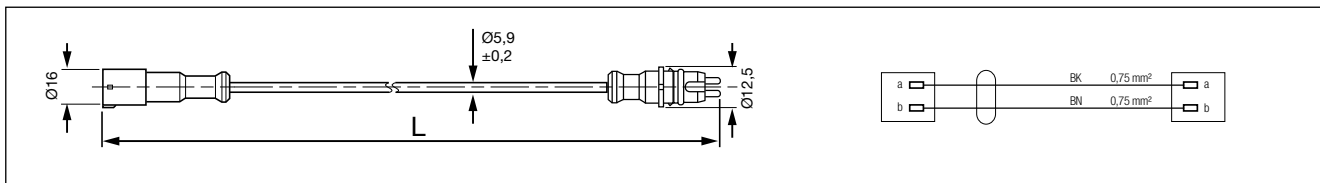
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Range Overview - KB4TA Cables (contd.)



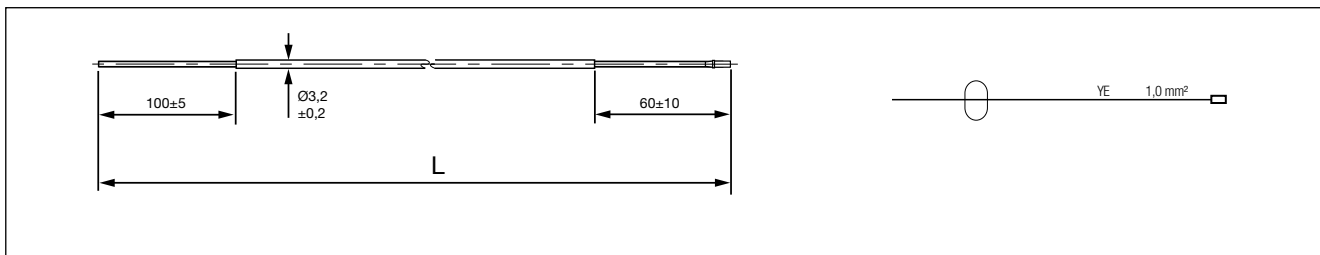
KB4TA ABS Module

Wheel Speed Sensor Extension Cable



Part No.	Type No.	Cable length L [m]	Comments
II367562000	EK3130	2.0	Use to connect KB4TA ABS module with wheel speed sensor
II367563000		3.0	
II367564000		4.0	
II367565000		5.0	
II367566000		6.0	
II367568000		8.0	
II3675610000		10.0	
II3675612000		12.0	
II3675615000		15.0	

External Warning Lamp Cable



Part No.	Type No.	Cable length L [m]	Comments
K016629 ¹⁾	-	7.0	Open end for connecting to Deutsch Connector Pin 1 - AuxIO 1 or Pin 11 - AuxIO 2
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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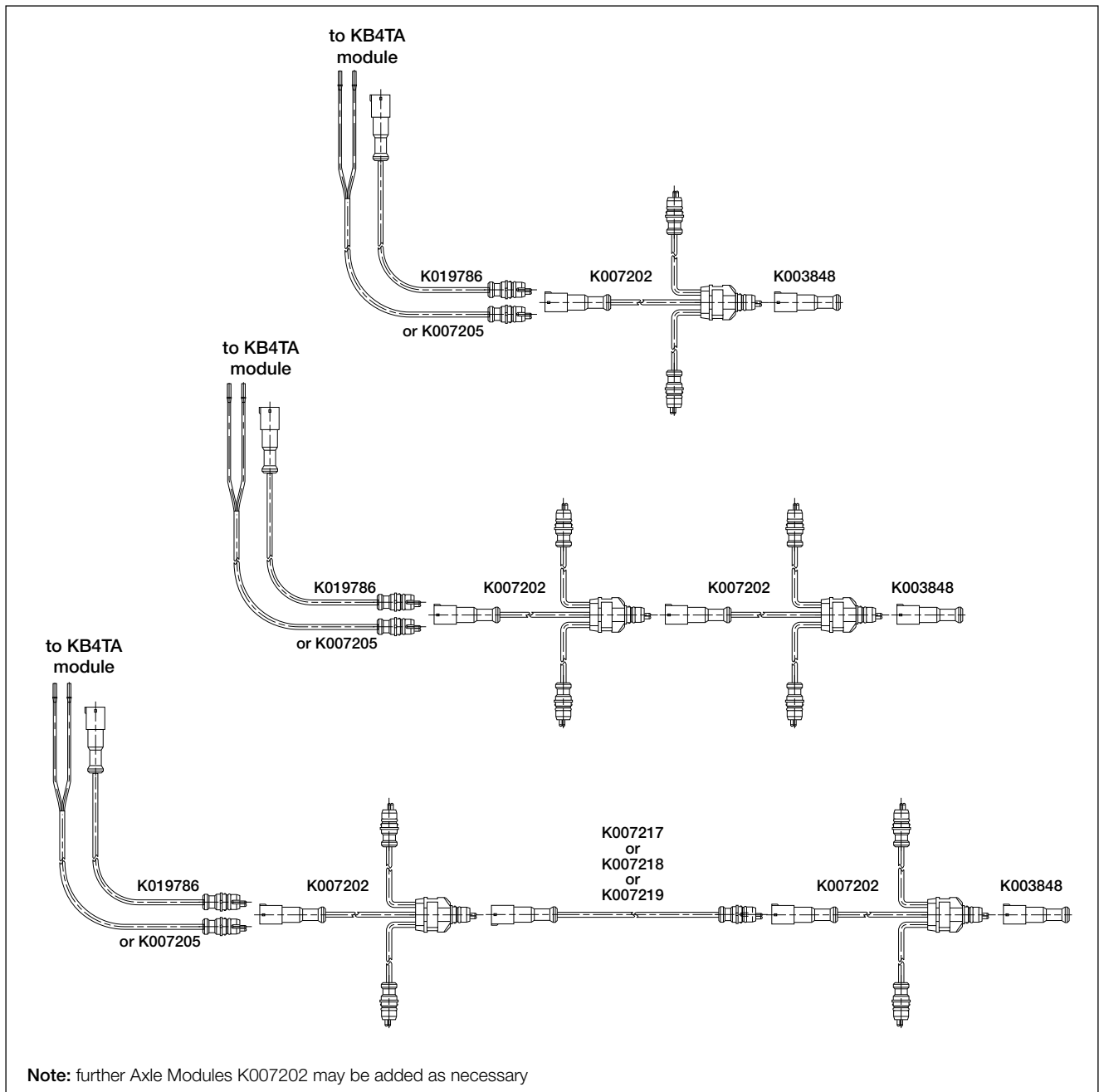
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Range Overview - KB4TA Cables (contd.)



KB4TA ABS Module

Pad Wear Sensing - Installation examples



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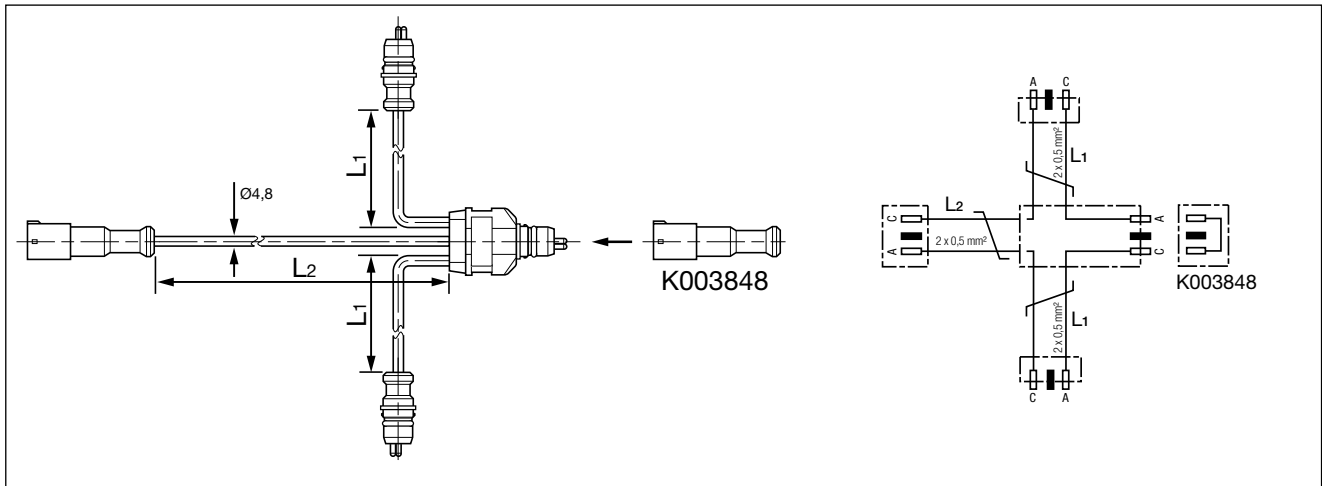
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Range Overview - KB4TA Cables (contd.)



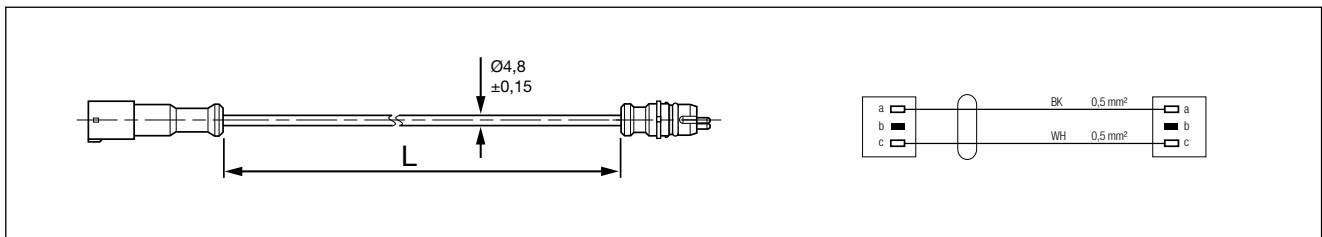
KB4TA ABS Module

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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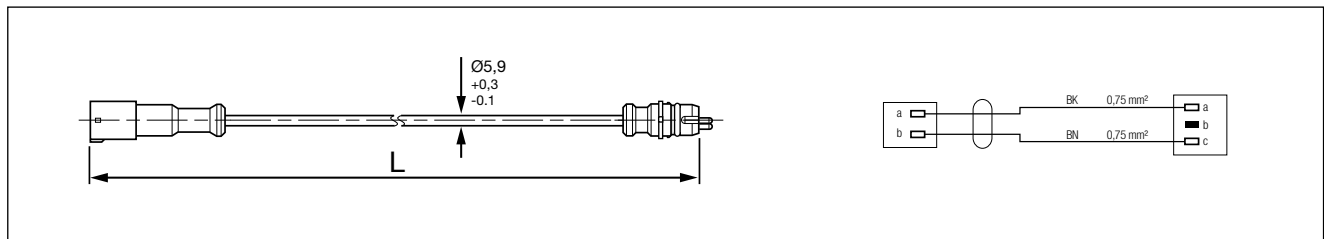
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Range Overview - KB4TA Cables (contd.)

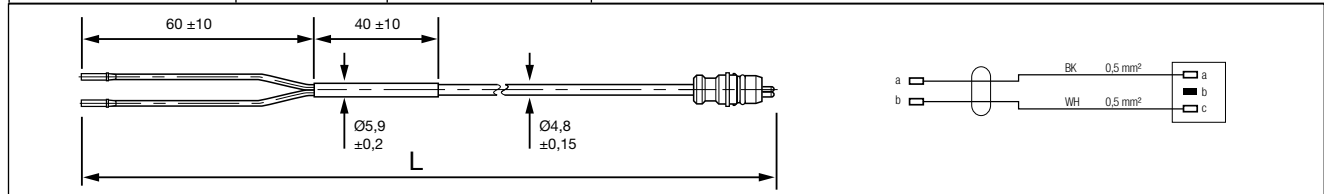


KB4TA ABS Module

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 KB4TA ABS Module (SAL or SAR)



Part No.	Type No.	Cable length L [m]	Comments
K007205	-	1.0	To connect Axle Module K007202 to KB4TA ABS Module (Deutsch plug)

Accessories

Blanking plug

Locking wedge

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

¹⁾ The part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K002287N00

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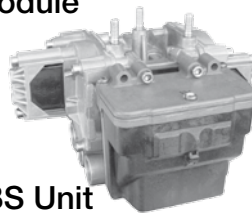
Cables for Trailer ABS

Doc. No. Y095697 (EN - Rev. 000)
September 2011

Range Overview - Accessories for KB4TA, A18 and KB3-TA

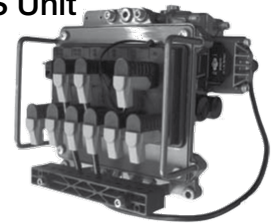


KB4TA ABS Module

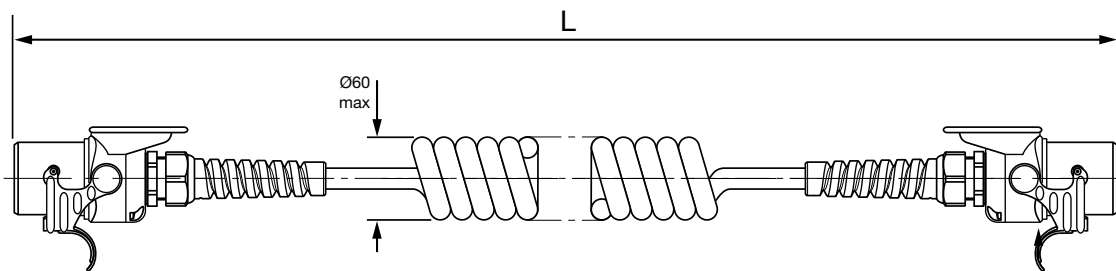


A18 ABS Unit

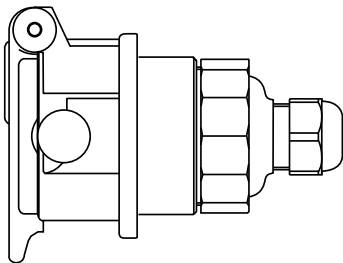
KB3-TA ABS Unit



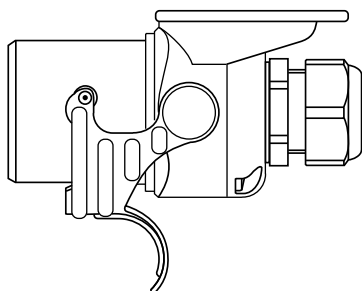
“Susie” Cable for towing vehicle to trailer connection



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



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



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

¹⁾ The part number will carry a suffix “N00” which defines that it is supplied without packaging. Example K002287N00

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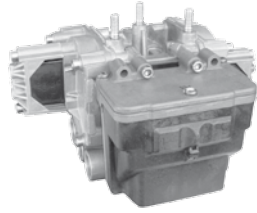
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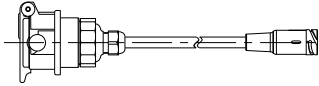
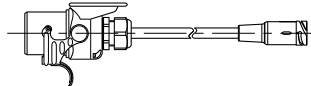
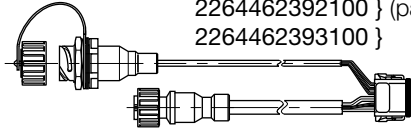
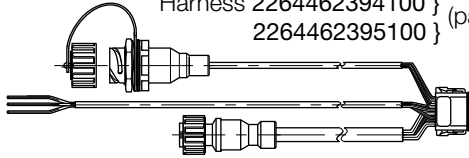


Range Overview - A18 Cables



A18 ABS Unit

Power Supply Cable Options

		Trailer	
		Semi-trailer	Drawbar or Centre-axle Trailer
ISO 7638 Connector to A18 ABS Unit via intermediate connector			
ISO 7638 Connector to intermediate connector		Cable K022269 / 70 / 71 (page 14) 	Cable K022273 / 74 (page 14) 
or plus	plus	Intermediate connector to A18 ABS Unit + diagnostic socket	Harness 2264462391100 } 2264462392100 } (page 15) 2264462393100 } 
or plus		Intermediate connector to A18 ABS Unit + diagnostic socket + ISO 1185 connection	Harness 2264462394100 } 2264462395100 } (page 15) 

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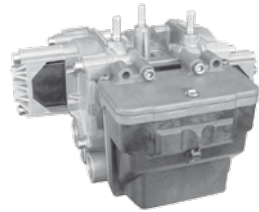
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Cables for Trailer ABS

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Range Overview - A18 Cables (contd.)



A18 ABS Unit

Power Supply Cable for semi-trailers with ISO 7638 Socket

Part No.	Type No.	Cable length L [m]	Comments
K022269 ¹⁾	-	8.0	replaces 2264462396100
K022270 ¹⁾	-	12.0	replaces 2264462397100
K022271 ¹⁾	-	14.0	replaces 2264462398100

Use with Power Supply Wiring Harness (page 14)

Power Supply Cable for drawbar trailers with ISO 7638 Plug

Part No.	Type No.	Cable length L [m]	Comments
K022273 ¹⁾	-	8.0	replaces 2264462399100
K022274 ¹⁾	-	10.0	replaces 2264462400100

Use with Power Supply Wiring Harness (page 14)

¹⁾ The part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K022274N00

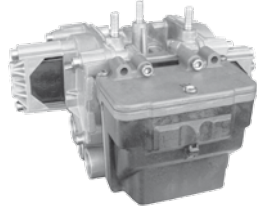
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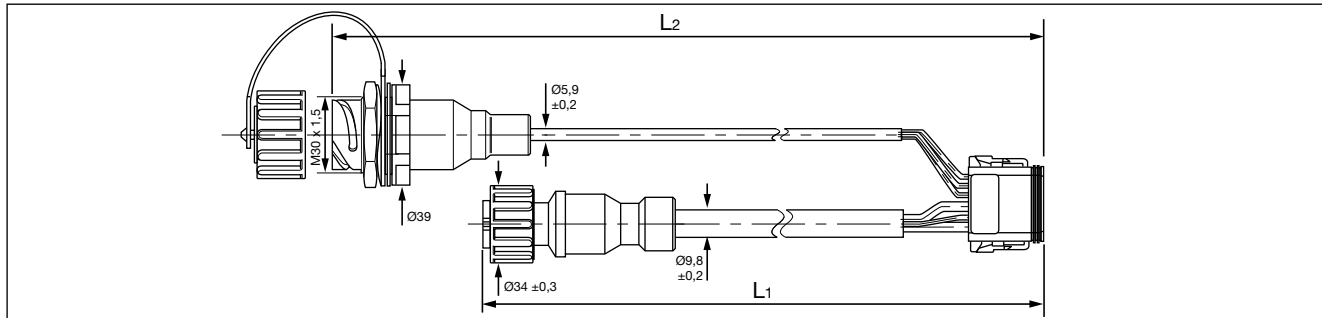
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Range Overview - A18 Cables (contd.)



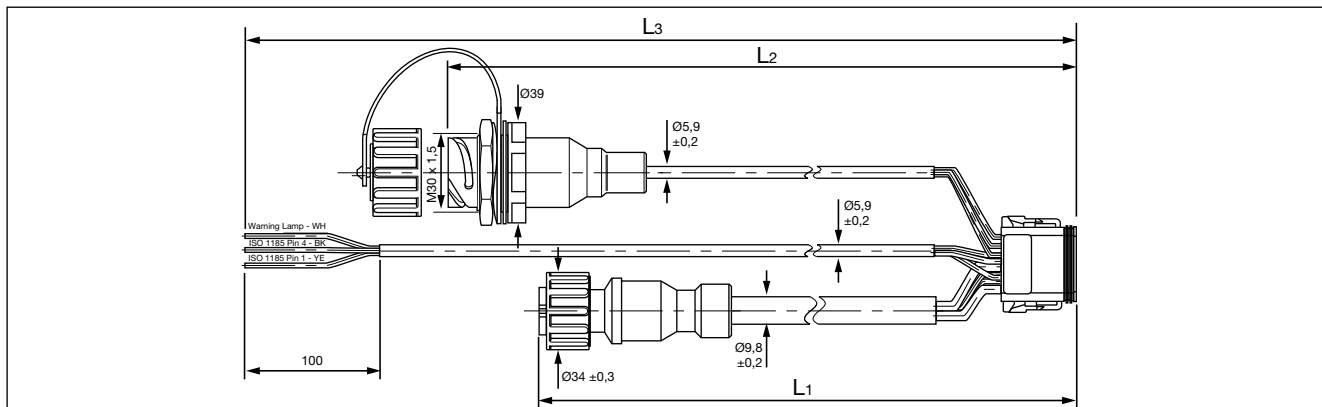
A18 ABS Unit

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



Part No.	Type No.	Cable length L [m]	Comments
2264462391100	-	L ₁ = 0.5 L ₂ = 3.0	L ₁ = power supply (ISO 7638) L ₂ = diagnostic socket (Bayonet) Use with Power Supply Cable (page 13)
2264462392100	-	L ₁ = 0.5 L ₂ = 5.0	
2264462393100	-	L ₁ = 0.5 L ₂ = 12.0	

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



Part No.	Type No.	Cable length L [m]	Comments
2264462394100	-	L ₁ = 0.5 L ₂ = 5.0 L ₃ = 13.0	L ₁ = power supply (ISO 7638) L ₂ = diagnostic socket (Bayonet) L ₃ = stop lamp supply (ISO 1185) Use with Power Supply Cable (page 13)
2264462395100	-	L ₁ = 0.5 L ₂ = 12.0 L ₃ = 13.0	

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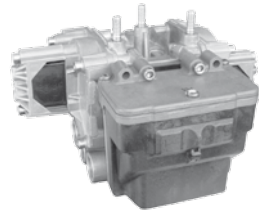
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Cables for Trailer ABS

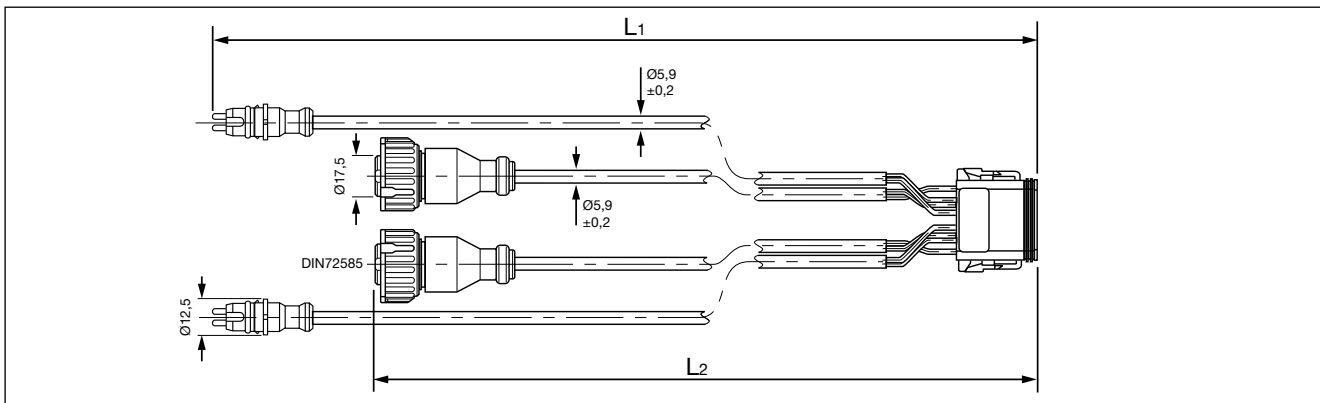
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Range Overview - A18 Cables (contd.)



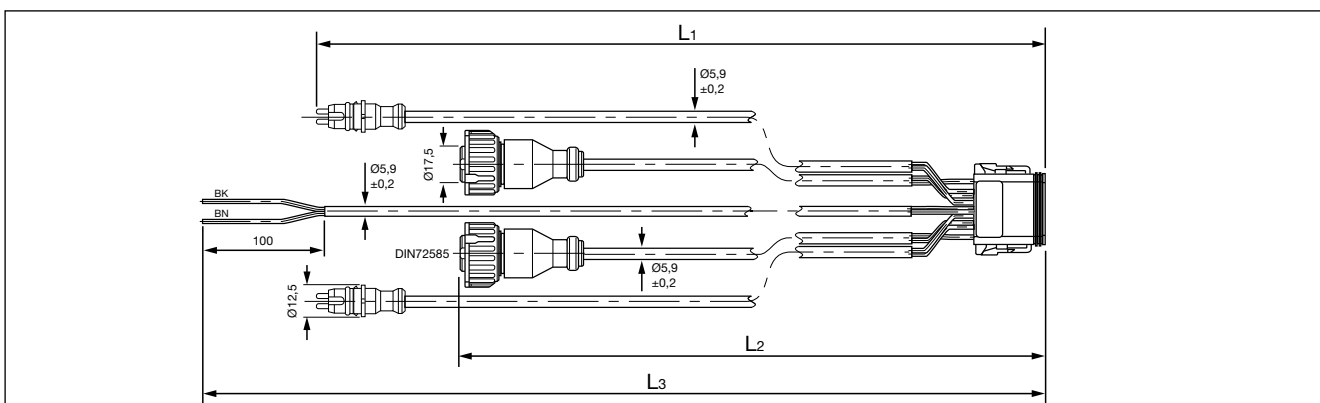
A18 ABS Unit

Modulator Wiring Harness with Wheel Speed Sensor Extension Cables



Part No.	Type No.	Cable length L [m]	Comments
2264462374100	-	L ₁ = 4.0 L ₂ = 0.5	L ₁ = wheel speed sensors
2264462375100	-	L ₁ = 6.5 L ₂ = 0.5	L ₂ = modulators

Modulator Wiring Harness with Wheel Speed Sensor Extension Cables and UNI output



Part No.	Type No.	Cable length L [m]	Comments
2264462403100	-	L ₁ = 3.0 L ₂ = 0.5 L ₃ = 6.5	L ₁ = wheel speed sensors L ₂ = modulators L ₃ = UNI output

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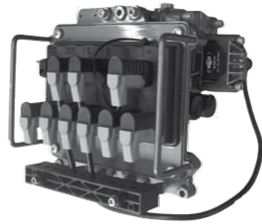
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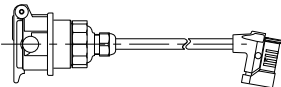
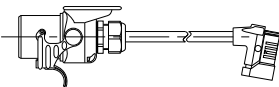
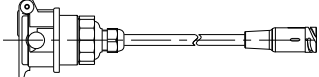
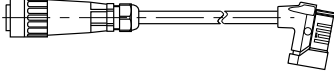
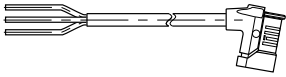


Range Overview - KB3-TA Cables



KB3-TA ABS Unit

Power Supply Cable Options

		Trailer	
		Semi-trailer	Drawbar or Centre-axle Trailer
ISO 7638 Connector direct to KB3-TA ABS Unit			
ISO 7638 Connector only		Cable EK3027 (page 18) 	Cable EK3022 (page 18) 
ISO 7638 Connector to KB3-TA ABS Unit via intermediate connector			
ISO 7638 Connector to intermediate connector		Cable EK3028 (page 19) 	-
	plus Intermediate connector to KB3-TA unit + diagnostic socket	Cable EK3029 (page 19) 	-
ISO 1185 Connection direct to KB3-TA ABS Unit			
ISO 1185 Connection only		Cable EK3040 (page 19) 	

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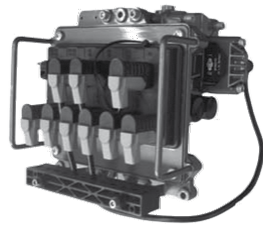
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Cables for Trailer ABS

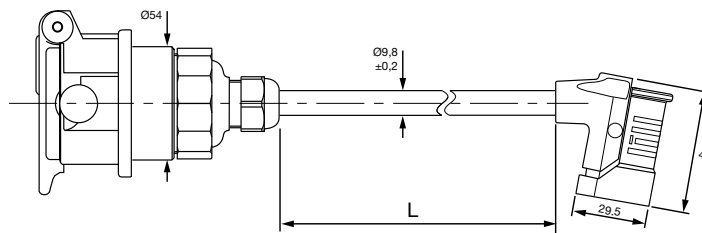
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Range Overview - KB3-TA Cables (contd.)



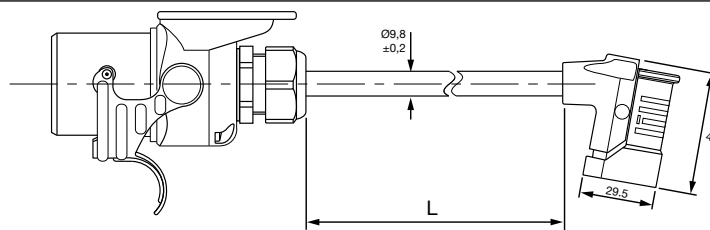
KB3-TA ABS Unit

Power Supply Cable for semi-trailers with ISO 7638 Socket



Part No.	Type No.	Cable length L [m]	Comments
II335888000	EK3027	8.0	
II3358810000		10.0	
II3358812000		12.0	
II3358813000		13.0	
II3358815000		15.0	

Power Supply Cable for drawbar trailers with ISO 7638 Plug



Part No.	Type No.	Cable length L [m]	Comments
II354156000	EK3022	6.0	
II354158000		8.0	
II354159000		9.0	
II3541523000		23.0	

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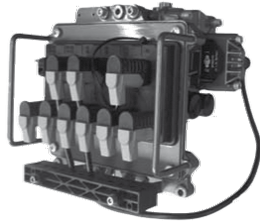
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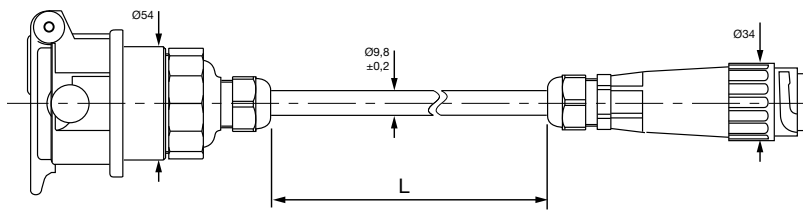


Range Overview - KB3-TA Cables (contd.)



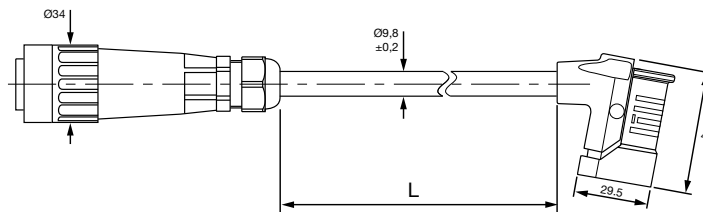
KB3-TA ABS Unit

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



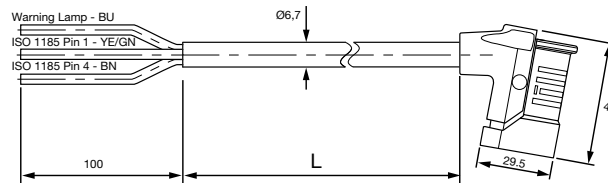
Part No.	Type No.	Cable length L [m]	Comments
II3641712000	EK3028	12.0	Use with EK3029 (see below)

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



Part No.	Type No.	Cable length L [m]	Comments
II36418500	EK3029	0.5	Use with EK3028 (see above)

Power Supply Cable for ISO 1185 Connection



Part No.	Type No.	Cable length L [m]	Comments
II335874000	EK3040	4.0	Use with ECU ES1215 / Trailer Module ES2002
II335878000		8.0	
II3358712000		12.0	

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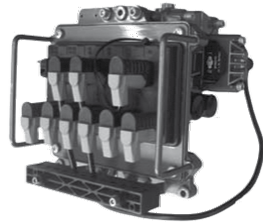
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Cables for Trailer ABS

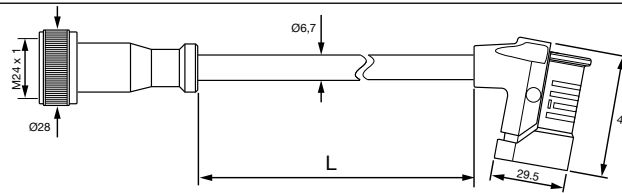
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Range Overview - KB3-TA Cables (contd.)



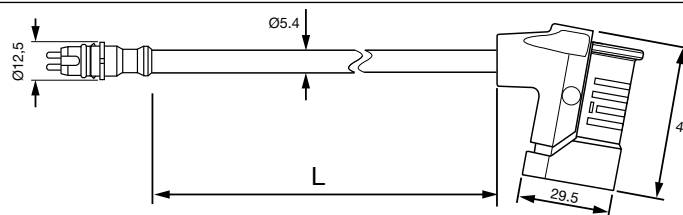
KB3-TA ABS Unit

Modulator Cable



Part No.	Type No.	Cable length L [m]	Comments
II35417500	EK3013	0.5	M24x1 Modulator Connection
II354172000		2.0	
II354173000		3.0	
II354174000		4.0	
II354178000		8.0	
II3541710000		10.0	
II3541712000		12.0	

Wheel Speed Sensor Extension Cable



Part No.	Type No.	Cable length L [m]	Comments
II354162000	EK3003	2.0	
II354163000		3.0	
II354163500		3.5	
II354165000		5.0	
II354169000		9.0	
II3541612000		12.0	
II3541615000		15.0	



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