

Diagnostic Cables for Trailer ABS and TEBS4

Function

Diagnostic Cables are used in trailer ABS and EBS systems to:

- provide electrical power to the diagnostic equipment where necessary
- supply status information to the diagnostic equipment

Newer EBS-equipped trailers can be diagnosed through the ISO 7638 connection. Older EBS-equipped trailers and newer ABS-equipped trailers will have a diagnostic socket installed. Details of the cables/harnesses with diagnostic socket are shown in PD-272-010, Document No. Y095697 for ABS systems and PD-272-020, Document No. Y107795 for TEBS4 systems.

Included in this document are details of various diagnostic cables and the Universal Diagnostic Interface which is required to diagnose KB4TA ABS and TEBS4 systems using the Knorr-Bremse ECU*talk*® diagnostic software.



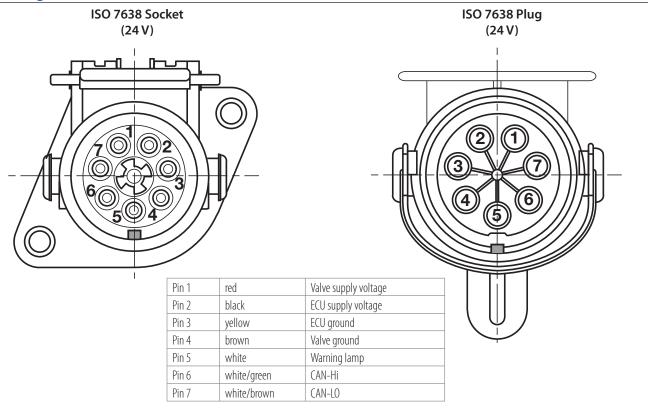
Technical Features

Operating Temperature Range: See tables for other features. -40 °C to +80 °C



Diagnostic Cables for Trailer ABS and TEBS4

Pin Configurations



DIAGNOSTIC CONNECTORS

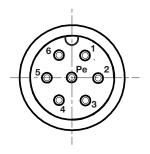
Older Amphenol Connector

Diagnostic Socket

Later Bayonet Connector

1 6 2 6 5 3 4

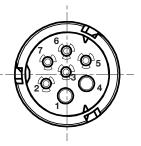
1	24V
2	not connected
3	24 V (linked to Pin 1)
4	DIA-K
5	DIA-K (linked to Pin 4)
6	DIA-K (linked to Pin 4)
Pe	GND

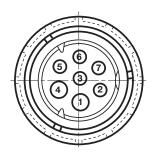


Diagnostic Plug

1	24V
2	not connected
3	not connected
4	DIA-K
5	not connected
6	not connected
Pe	GND

Diagnostic Socket





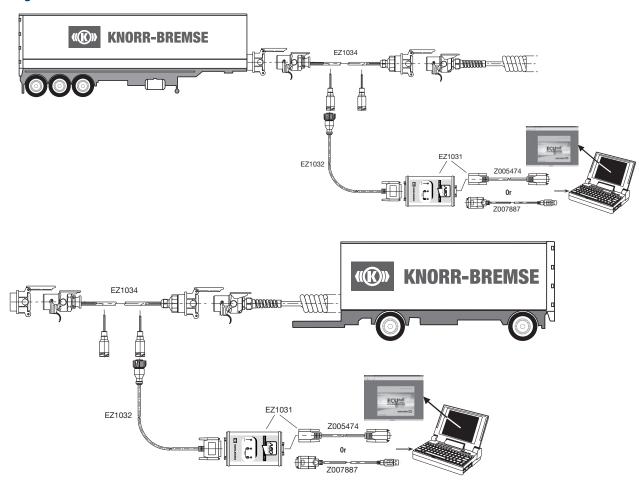
Diagnostic Plug

1	not connected
2	24 V
3	DIA-K
4	not connected
5	GND
6	CAN-L
7	CAN-H

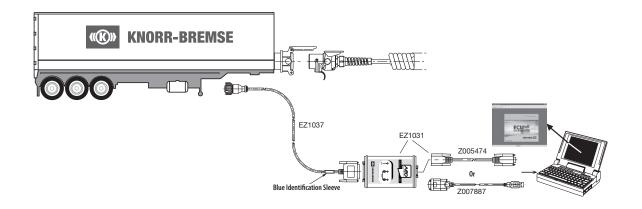
Diagnostic Cables for Trailer ABS and TEBS4

Diagnostic set up

PC Diagnostics via 24 V CAN - TEBS4



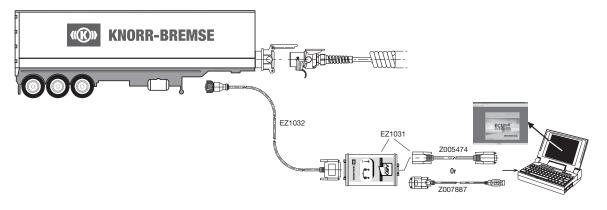
PC Diagnostics via Diagnostic Socket (Bayonet 5 V CAN) - KB4TA



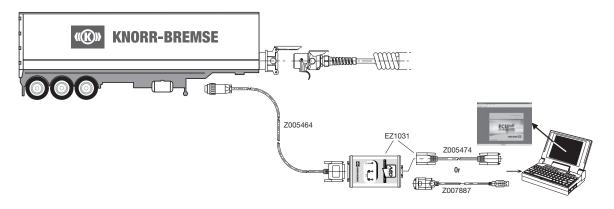
Diagnostic Cables for Trailer ABS and TEBS4

Diagnostic set up (contd.)

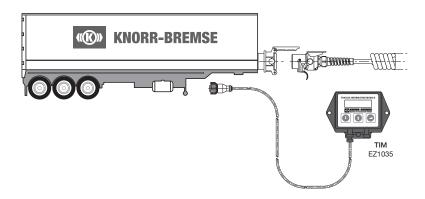
PC Diagnostics via Diagnostic Socket (Bayonet K-Line) - TEBS4 and A18



PC Diagnostics via Diagnostic Socket (Amphenol K-Line) - TEBS4 and A18



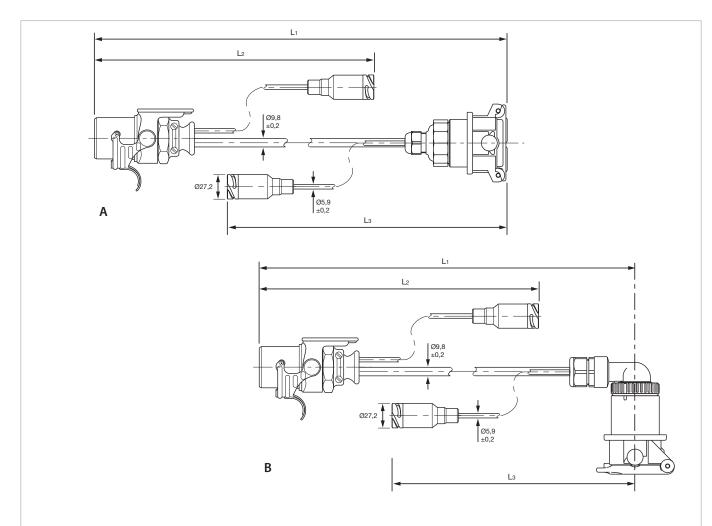
TIM Diagnostics via Diagnostic Socket (Bayonet K-Line) - TEBS4



Diagnostic Cables for Trailer ABS and TEBS4

Range Overview - Diagnostic Cables

ISO 7638 Plug/Socket 24 V CAN Adaptor Cable - TEBS4

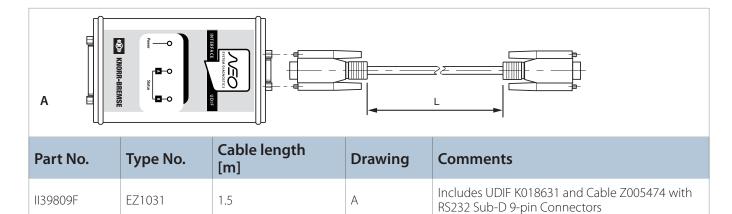


Part No.	Type No.	Cable length [m]	Drawing	Comments
II39808F	EZ1034	$L_1 = 0.45$ $L_2 = 0.60$ $L_3 = 0.35$	А	Suits all types of trailer with 24 V system
K028584		$L_1 = 0.60$ $L_2 = 0.45$ $L_3 = 0.35$	В	Suits all types of trailer with 12 V system

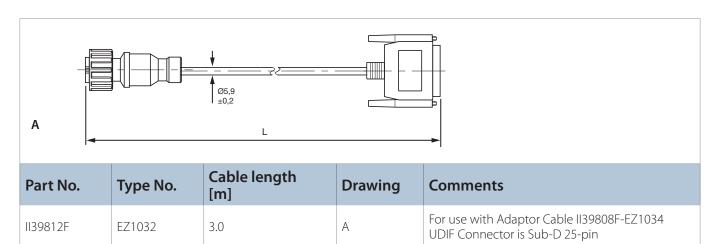
Diagnostic Cables for Trailer ABS and TEBS4

Range Overview - Diagnostic Cables (contd.)

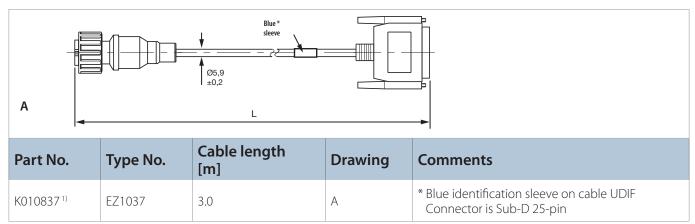
Universal Diagnostic Interface (UDIF) and Cable - TEBS4, KB4TA and A18



24 V CAN to UDIF Cable - TEBS4



Diagnostic Plug (Bayonet) to UDIF Cable - KB4TA

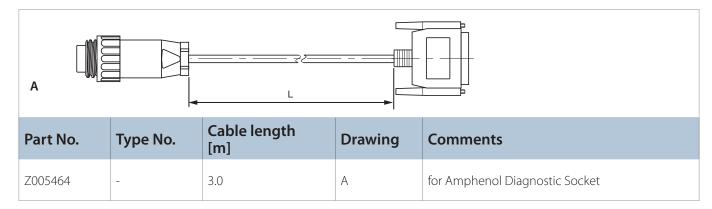


¹⁾ The part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K010837N00 and the part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K010837N00 and the part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K010837N00 and the part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K010837N00 and the part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K010837N00 and the part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K010837N00 and the packaging without packaging with packaging without packaging without packaging without packaging without packaging without

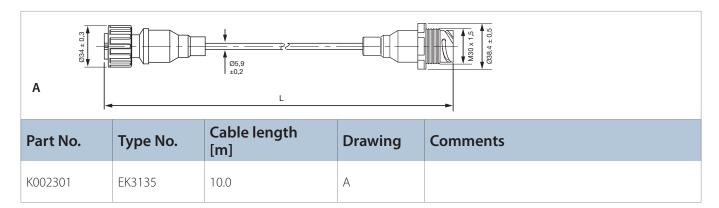
Diagnostic Cables for Trailer ABS and TEBS4

Range Overview - Diagnostic Cables (contd.)

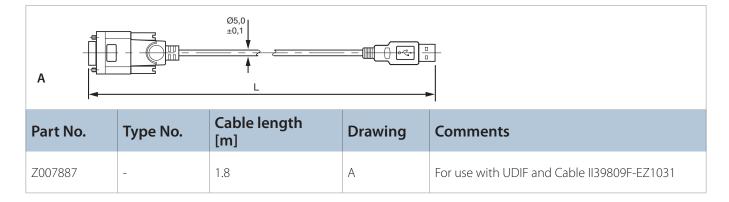
Diagnostic Plug (Amphenol) to UDIF Cable - TEBS4 and A18



Diagnostic Socket (Bayonet) Extension Cable - TEBS4, KB3-TA and A18



RS232 Sub-D 9-pin Connector to PC USB Adaptor Cable - TEBS4, KB4TA and A18



Diagnostic Cables for Trailer ABS and TEBS4

Revision Details					
Rev. 002	April 2019	New Layout			

((K))) **KNORR-BREMSE**

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