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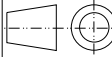
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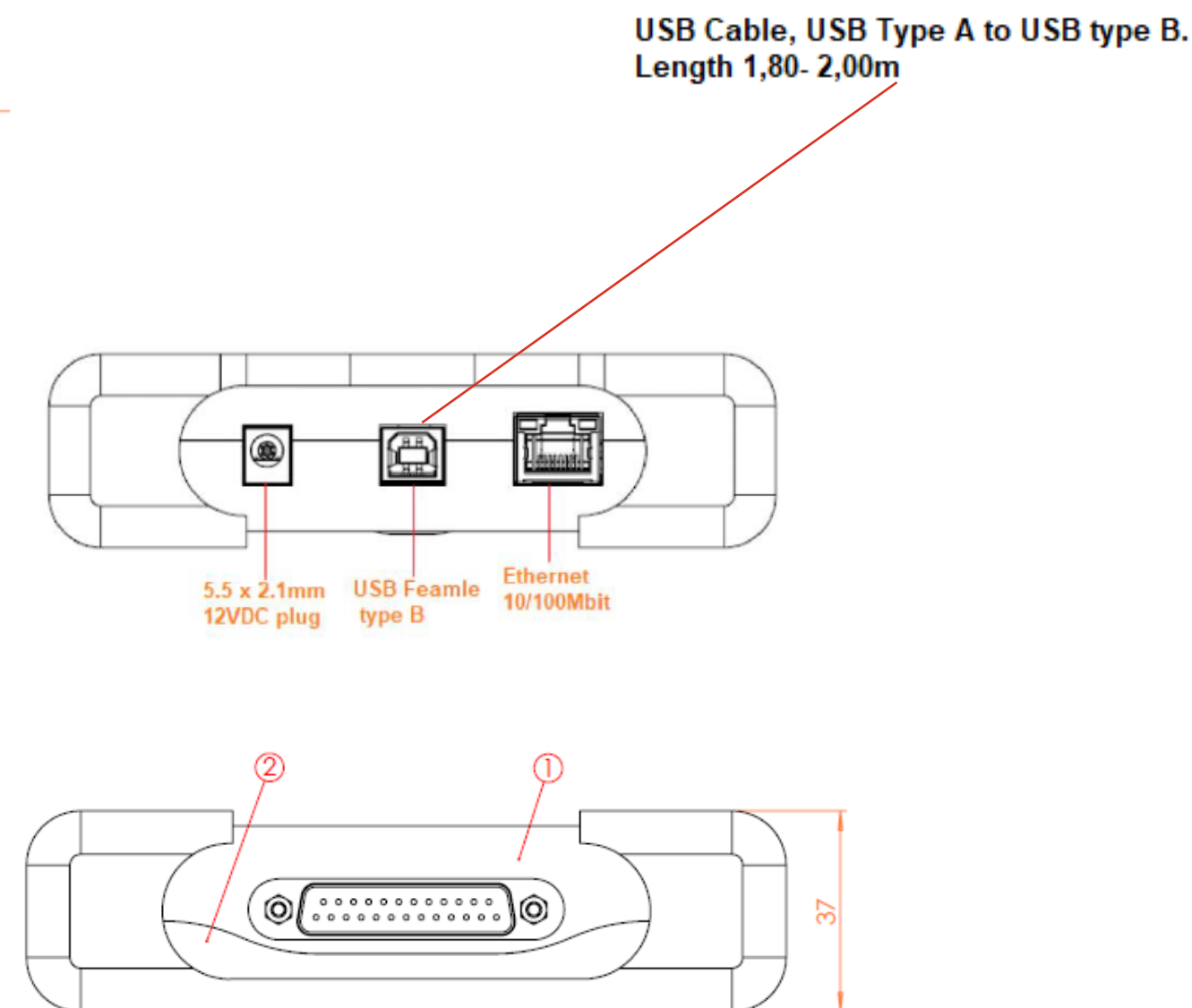
**+ USB Cable, USB Type A to USB type B.
Length 1,80- 2,00m**

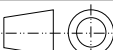
General Specification: ISO 8015, JED-334-1, Size ISO 14405 LP						Copyright ZF®			 Diagnostic Interface ZF DCI -Diagnostics Interface Set										
Further Technical Data: Product Specification						Date		Signature											
Doc. Code: 035			Sheet: To			Drawn													
						2025-04-03		Sudheesan											
General Tolerances JED-261						Checked													
						2025-04-03		Marco Michel											
						Dimensions in mm													
Class 1)		Range of nominal dimensions in mm				Mass		Scale		Material No.			Date of first issue: 2024-08-27						
Fine			±0.15	±0,2	±0,2	±0,3	1,00 kg		NTS		446 301 249 0			Doc.Code		Language		Sheet	
Medium		X	±0,3	±0,5	±0,5	±0,8								005		EN		1/3	
Coarse			±0,8	±1,2	±1,2	±2													
Tapped Holes acc. -						Size		CAD System				ECN-No.		Revision		Techn. Resp.		Replacement for	
1) Tolerance Class Applied Crossmarked						A 3		CREO				519707		A		6980			

100mm

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<table><tr><td rowspan="4">Class 1)</td><td colspan="5">Range of nominal dimensions in mm</td><td rowspan="4"></td></tr><tr><td>≤ 50</td><td>> 50 ≤ 180</td><td>> 180 ≤ 400</td><td>> 400</td></tr><tr><td>Fine</td><td>±0.15</td><td>±0.2</td><td>±0.2</td><td>±0.3</td></tr><tr><td>Medium</td><td>±0.3</td><td>±0.5</td><td>±0.5</td><td>±0.8</td></tr><tr><td>Coarse</td><td>±0.8</td><td>±1.2</td><td>±1.2</td><td>±2</td></tr></table>										Class 1)	Range of nominal dimensions in mm												≤ 50	> 50 ≤ 180	> 180 ≤ 400	> 400	Fine	±0.15	±0.2	±0.2	±0.3	Medium	±0.3	±0.5	±0.5	±0.8	Coarse	±0.8	±1.2	±1.2	±2	2025-04-03		Marco Michel			
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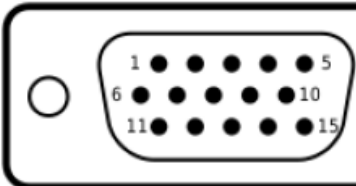
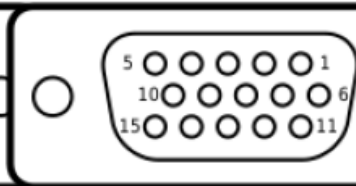
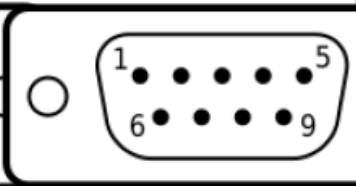
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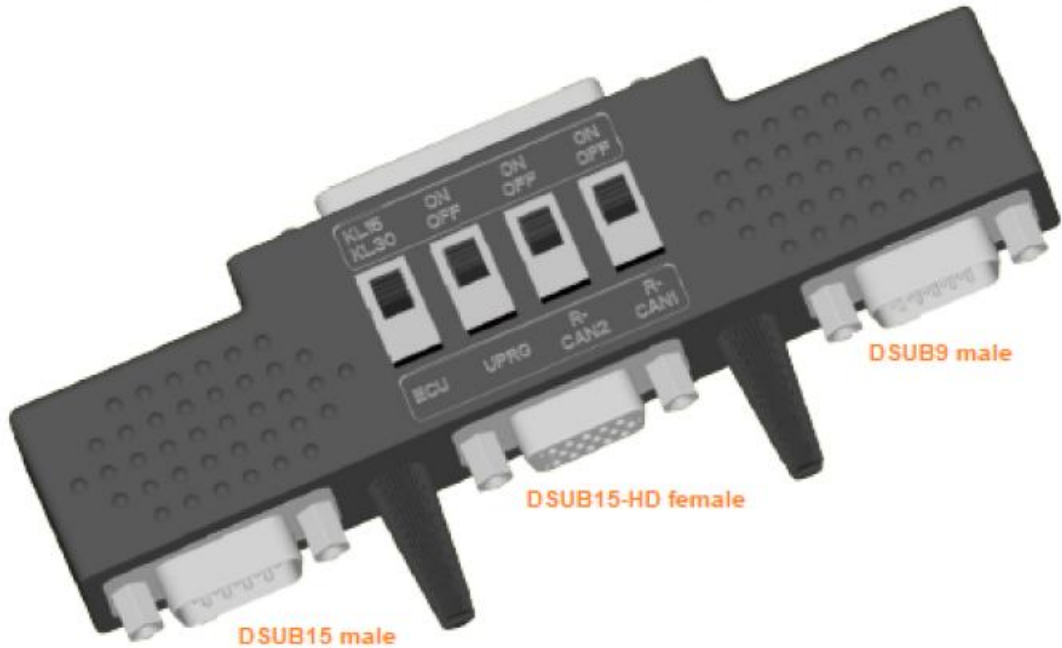
Replacement

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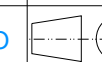
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DSUB15 male		DSUB15-HD female		DSUB9 male	
					
PIN	Description	PIN	Description	PIN	Description
1	CAN1 High	1	NC	1	KL30 UBat
2	CAN2 High	2	NC	2	GND Vehicle
3	GND Vehicle	3	GND Vehicle	3	GND CAN
4	K-Line	4	CAN1 High	4	CAN1 Low
5	SAE-J1708B	5	KL30 UBat	5	CAN1 High
6	CAN1 Low	6	NC	6	SAE-J1708A
7	CAN2 Low	7	NC	7	SAE-J1708B
8	U-Prog	8	NC	8	K-Line
9	L-Line	9	CAN1 Low	9	L-Line
10	SAE-J1708A	10	NC		
11	KL15 Vehicle	11	DIO1		
12	KL30 ECU	12	DIO2		
13	GND Vehicle	13	GND Vehicle		
14	KL15 In	14	DIO3		
15	KL30 UBat	15	DIO4		
Housing	Shield	Housing	Shield	Housing	Shield



Switch	Position	Function
ECU	KL15	Connection between PIN11 KL15 Vehicle and PIN15 KL30 UBat (DSUB15 male) closed
	KL30	Connection between PIN12 KL30 ECU Vehicle and PIN15 KL30 UBat (DSUB15 male) closed
UPRG	On	Connection between PIN8 UPRG and PIN15 Ubat (DSUB15 male) closed
	Off	Connection between PIN8 UPRG and PIN15 Ubat (DSUB15 male) open
R-CAN1	On	1200hm between PIN1 CAN1 High and PIN6 CAN1 Low (DSUB15 male) active
	Off	1200hm between PIN1 CAN1 High and PIN6 CAN1 Low (DSUB15 male) inactive
R-CAN2	On	1200hm between PIN2 CAN2 High and PIN7 CAN2 Low (DSUB15 male) active
	Off	1200hm between PIN2 CAN2 High and PIN7 CAN2 Low (DSUB15 male) inactive

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