CABLINE[®]-CX II The simulation of passing PLUG through hinge Part No. Plug:, 20977-040T-01, 20978-040T-01

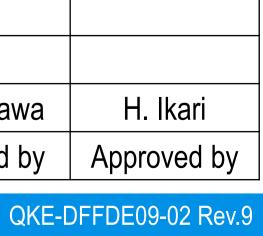
Technical Report

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0	R21113	2021/02/23	R. Hatano	T. Tanigawa	Н
Rev.	ECN	Date	Prepared by	Checked by	Appr



1. Purpose

- 2. Simulation conditions
 - Connector : CABLINE-CX II PLUG WITH COVER CABLE ASS'Y (20977-040T-01) CABLINE-CX II PLUG WITHOUT COVER CABLE ASS'Y (20978-040T-01)
 - •Number of pins : 40P
 - Cable : MICRO-COAX CABLE AWG#44,46 (See Table.1 for jacket diameter.) \times Each simulation is connected to all Pins.
 - Bonding : CABLINE-CXII recommends bonding cable outlets. Be sure to bend the cable from the end of the bonding.

Table.1 Cable jacket(outer) diameter (mm)

AWG#	Impedance matching		
AVVG#	45ohm	50ohm	
44	0.24		
46	0.22	0.24	

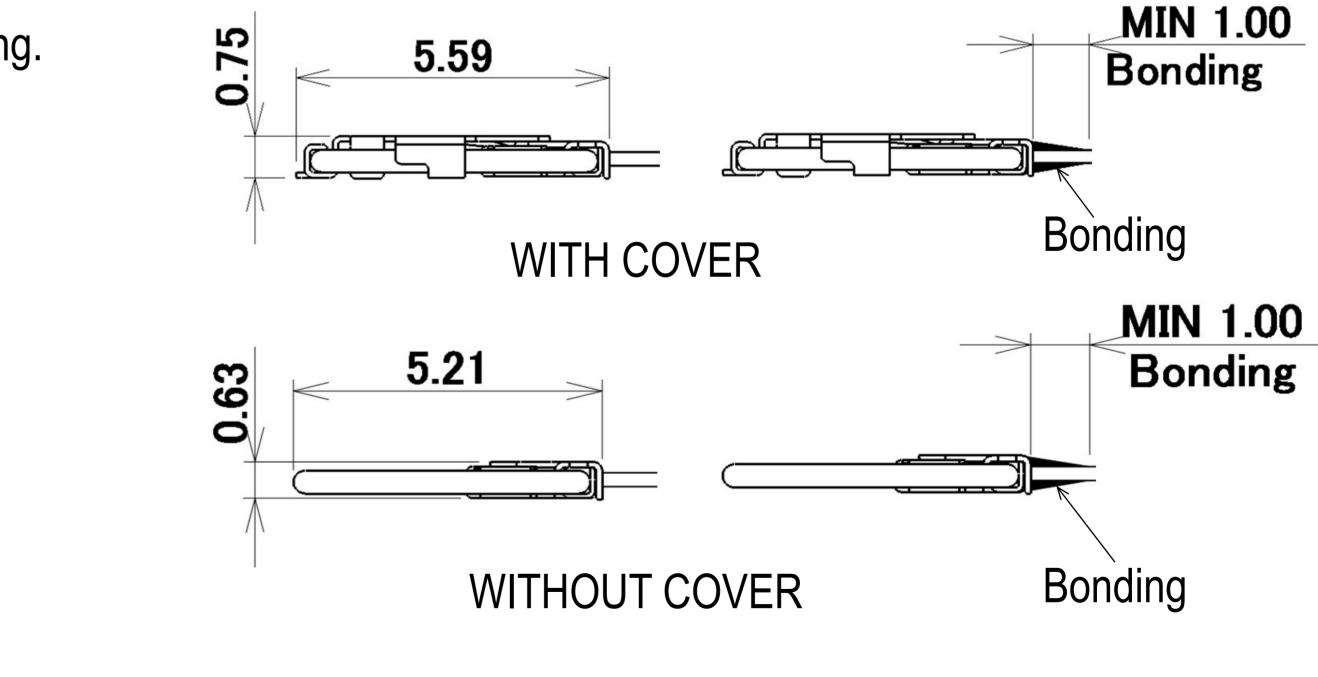
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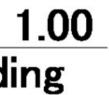
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We report the simulation results of the minimum diameter of the hinge that can store the connector(CABLINE-CX II Plug) and cable.

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3. Simulation result

The simulation results are shown in Table.2 and 3.

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Table.2 WITH COVER - minimum hinge inner diameter (mm)

	Size	AWG#44	AWG#46	
Cable	Impedance matching	45ohm	45ohm	50ohm
	Jacket diameter	0.24	0.22	0.24
Minimum hinge inner diameter	Connector 40P	7.35	7.33	7.35

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Table.3 WITHOUT COVER - Minimum hinge inner diameter (mm)

Cable	Size	AWG#44	AWG#46	
	Impedance matching	45ohm	45ohm	500
	Jacket diameter	0.24	0.22	0.2
Minimum hinge inner diameter	Connector 40P	6.98	6.96	6.9



3. Simulation result Simulation results with AWG #44.

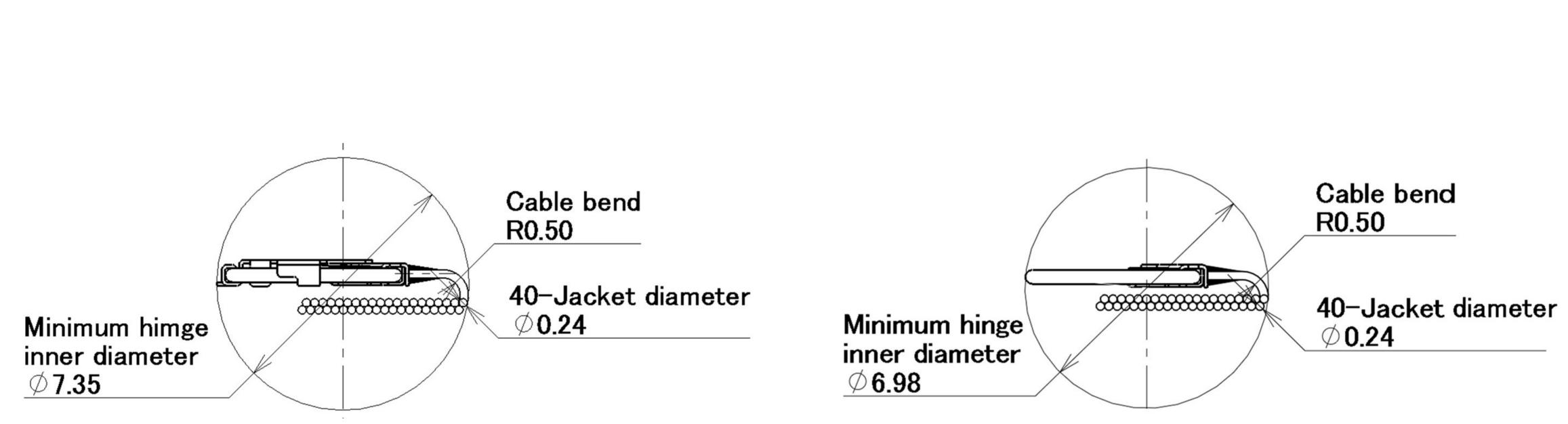


Fig.1 WITH COVER - AWG#44 (45ohm) 40P

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Fig.2 WITHOUT COVER - AWG#44 (45ohm) 40P

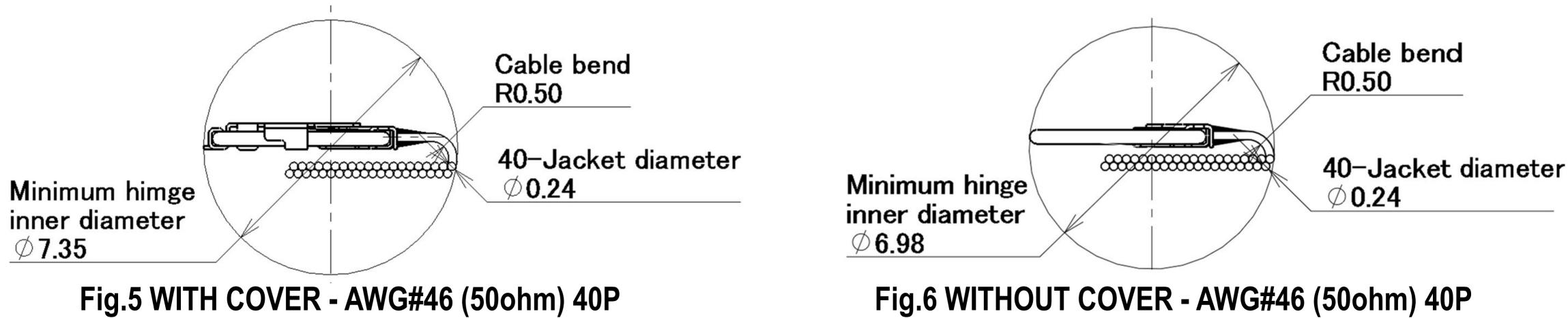




3. Simulation result Simulation results with AWG #46.



Fig.3 WITH COVER - AWG#46 (45ohm) 40P



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Fig.4 WITHOUT COVER - AWG#46 (45ohm) 40P





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