

CABLINE[®]-CA II

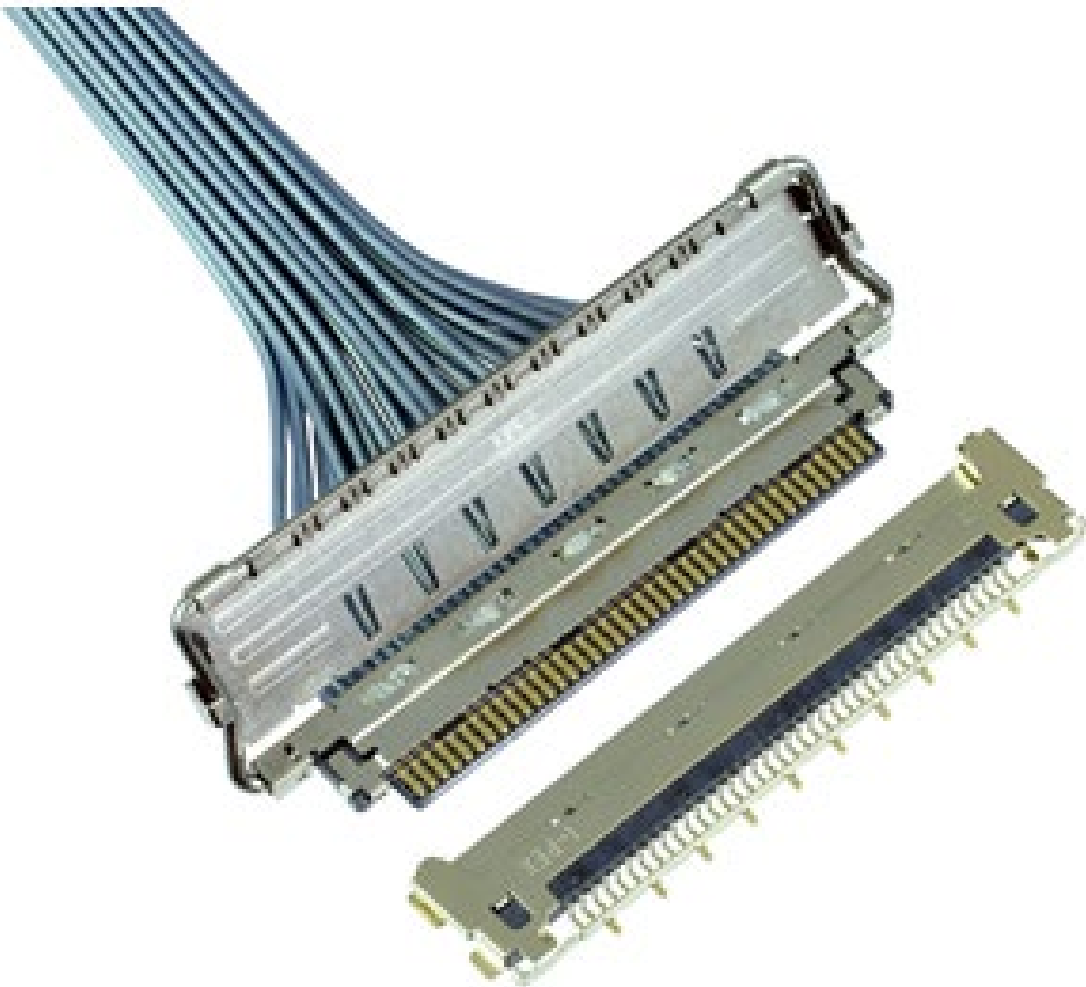
0.4 mm pitch, Micro-coax connector with EMI shielding cover



CABLINE®-CA II : Product Summary

0.4 mm pitch , mating height 1.1 mm max.

High speed micro-coax connector with EMI shielding cover

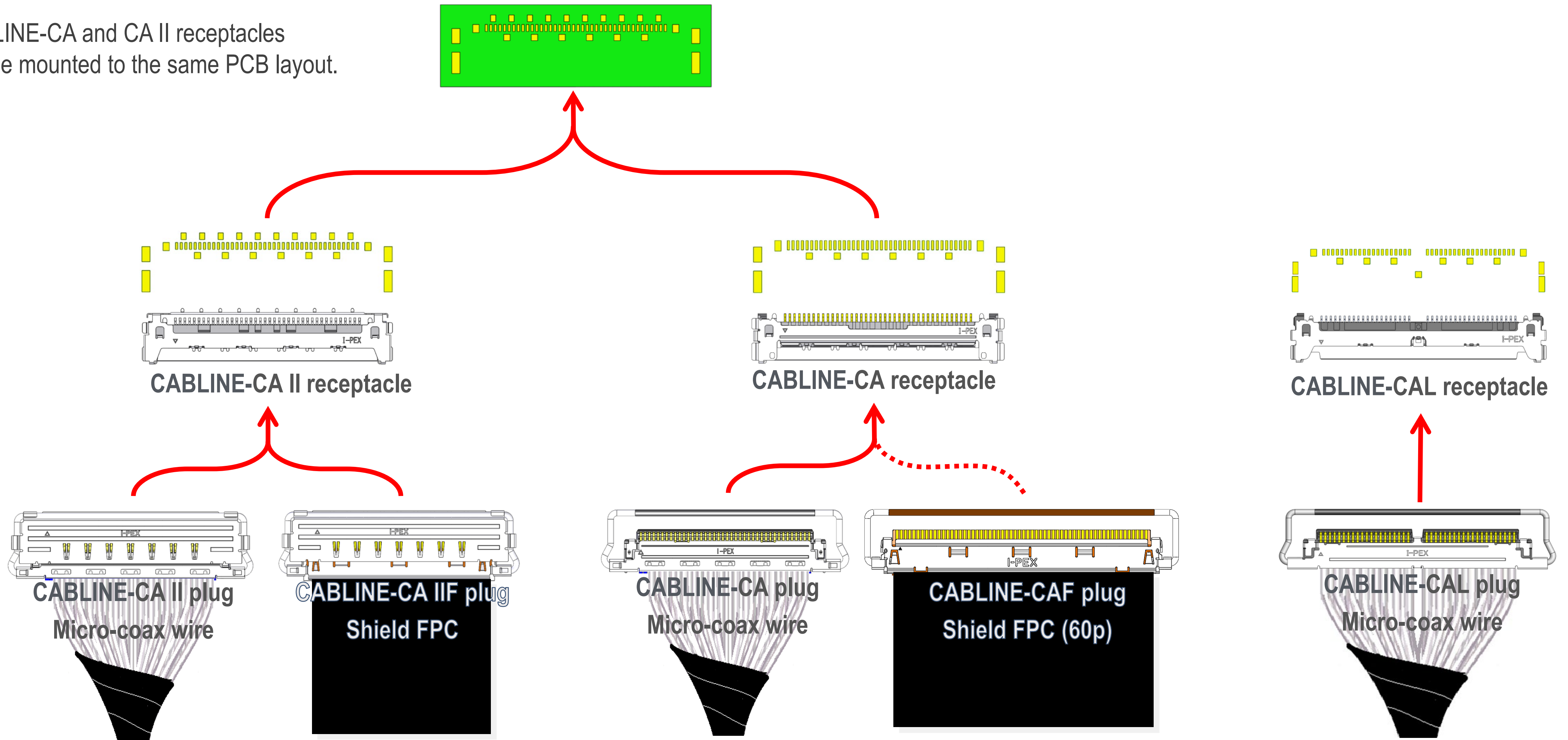


CABLINE-CA II

■ Name	CABLINE®-CA II
■ Pitch	0.4 mm
■ Pin range	6 – 60 pin
■ Pin count	20, 30, 40, 50 p (60 p is available with CA II PLUS)
■ Mating type	Horizontal mating type
■ Mated Height	1.1 mm max. with cover
■ Depth	6.20 mm (including lock bar ass'y)
■ Width formula	$6.95 + (0.4 * ?p)$ mm (including lock bar ass'y)
■ Wire	Micro-Coax 45Ω AWG #38 or smaller wire Micro-Coax 50Ω AWG #40 or smaller wire Twinc coax AWG# 40 Discrete AWG# 34 or smaller wire

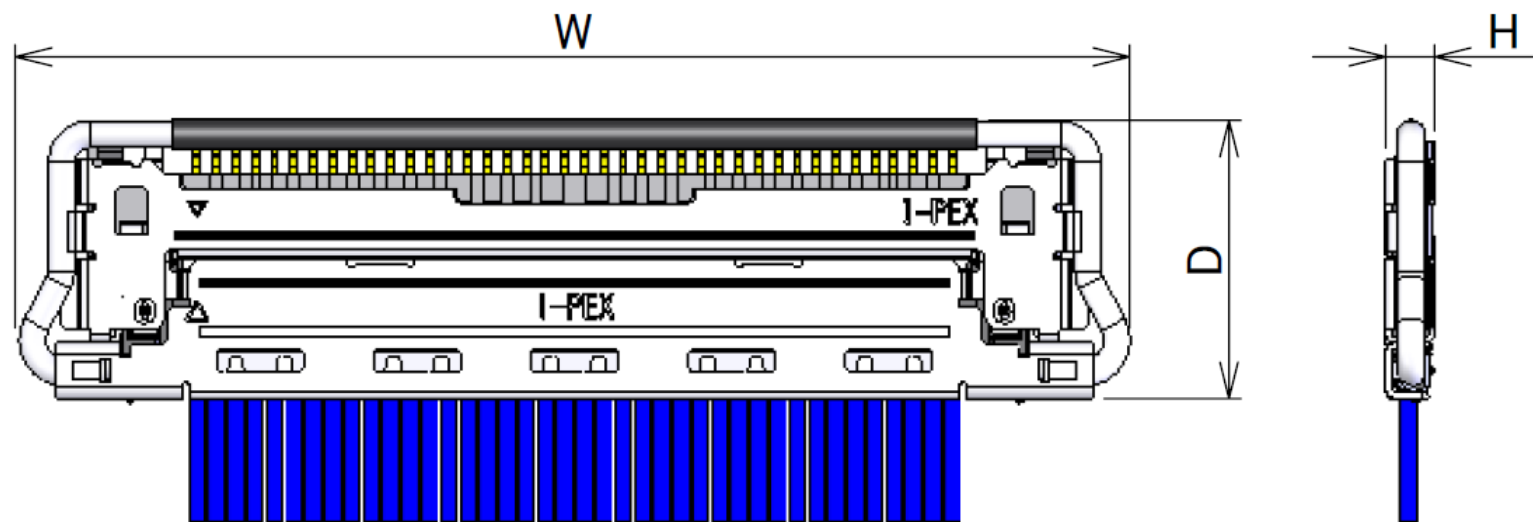
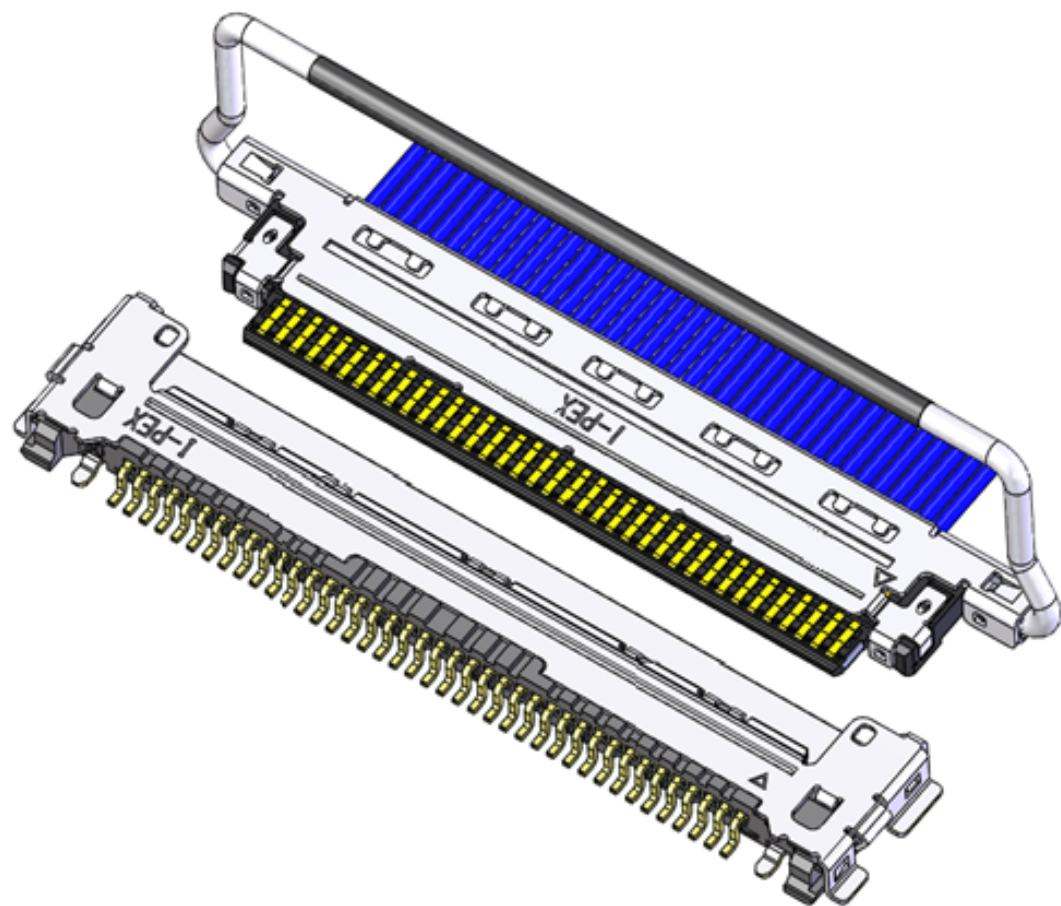
CABLINE[®]-CA series (0.4 mm pitch) connectors

CABLINE-CA and CA II receptacles
can be mounted to the same PCB layout.



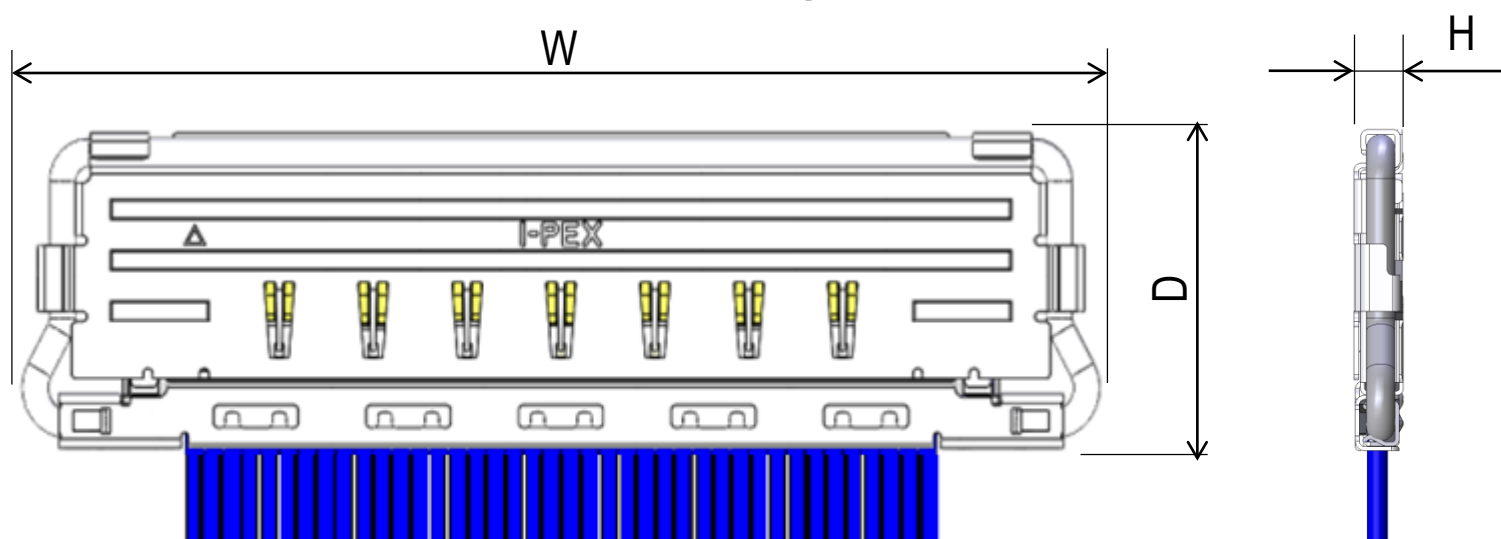
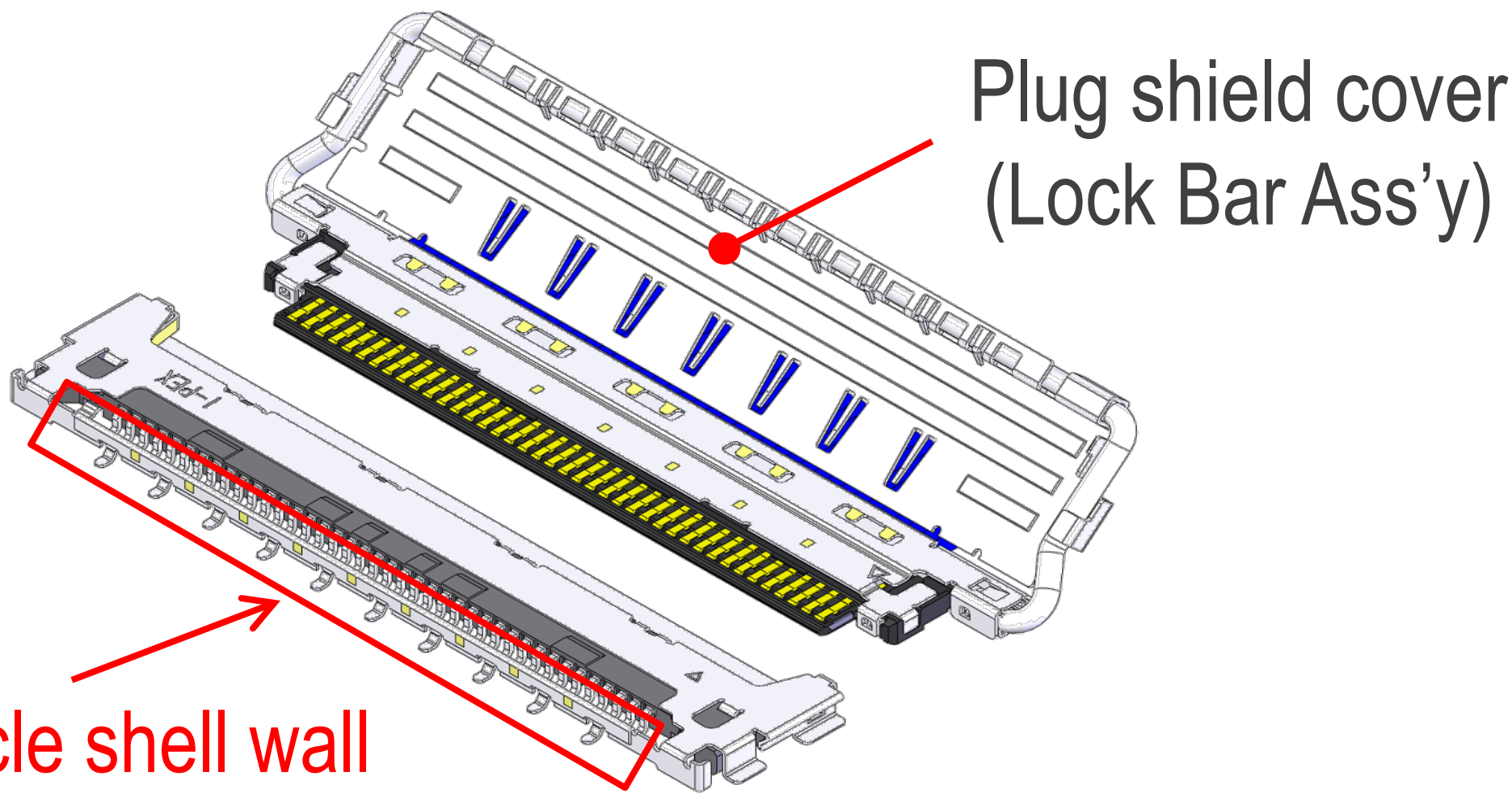
Size comparison with CABLINE[®]-CA and CA II 40p

CABLINE-CA 40p



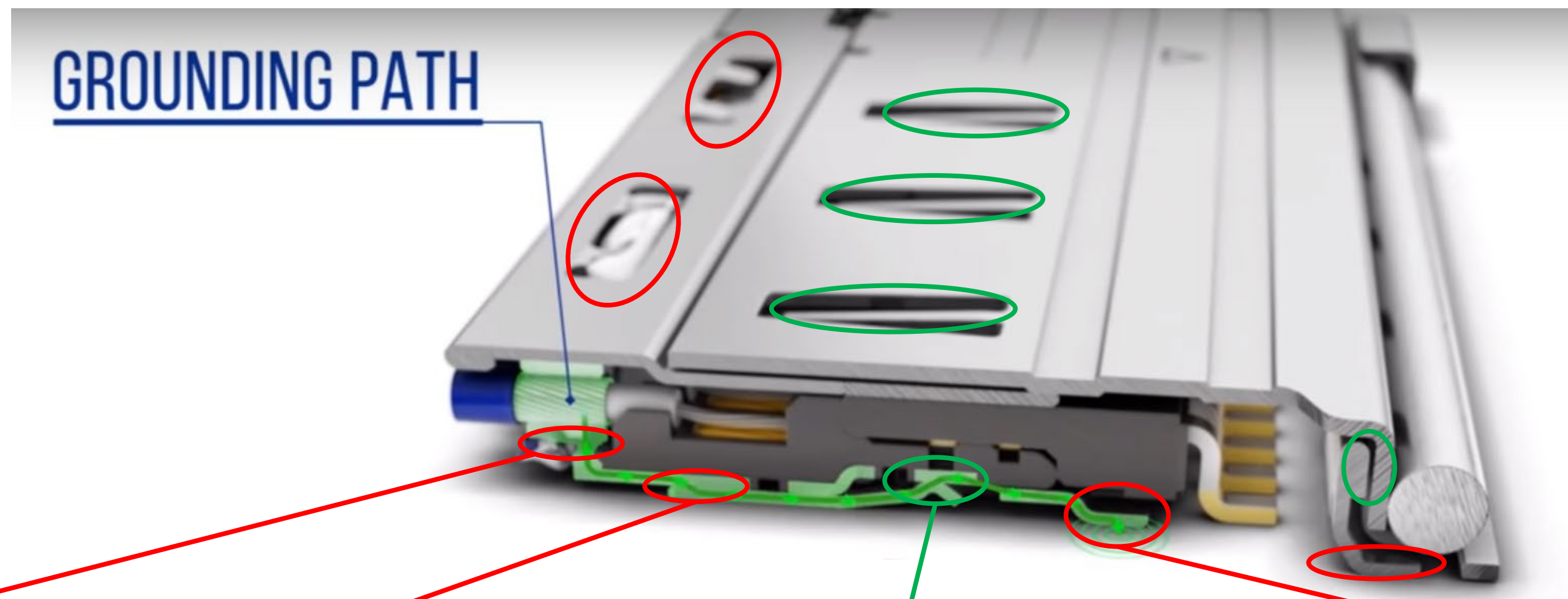
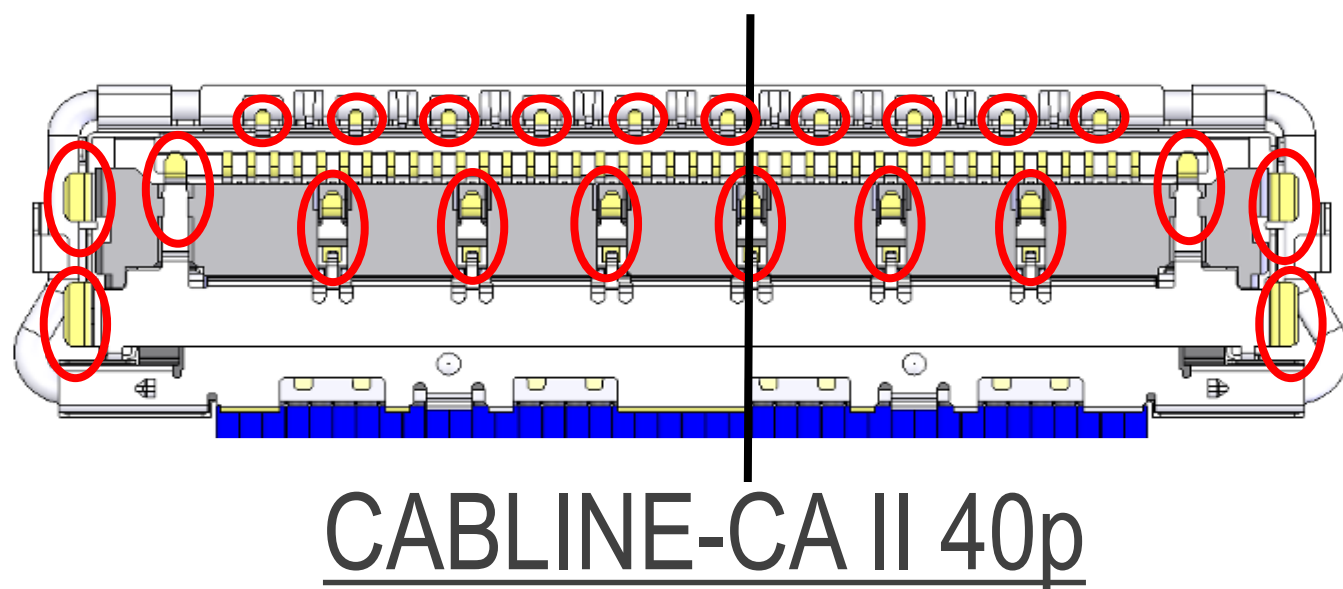
CABLINE [®] -CA			
(mm)	W	D	H
40P	22.95	5.73	1.10 max.

CABLINE-CA II 40p

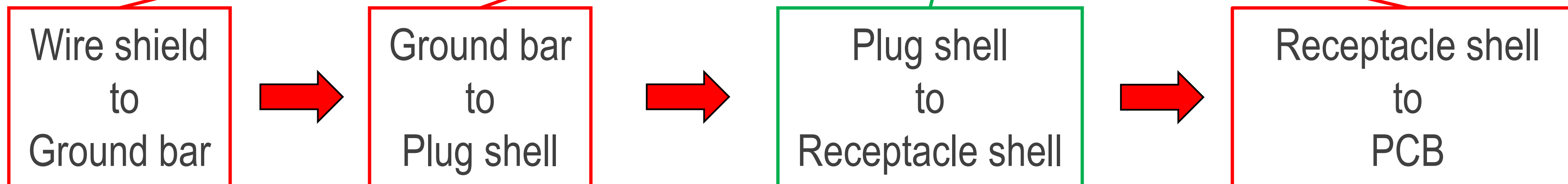


CABLINE [®] -CA II			
(mm)	W	D	H
40P	22.95	6.20	1.10 max.

Ground structure



- Soldered contacts
- Mechanical contacts



Reliable contact design

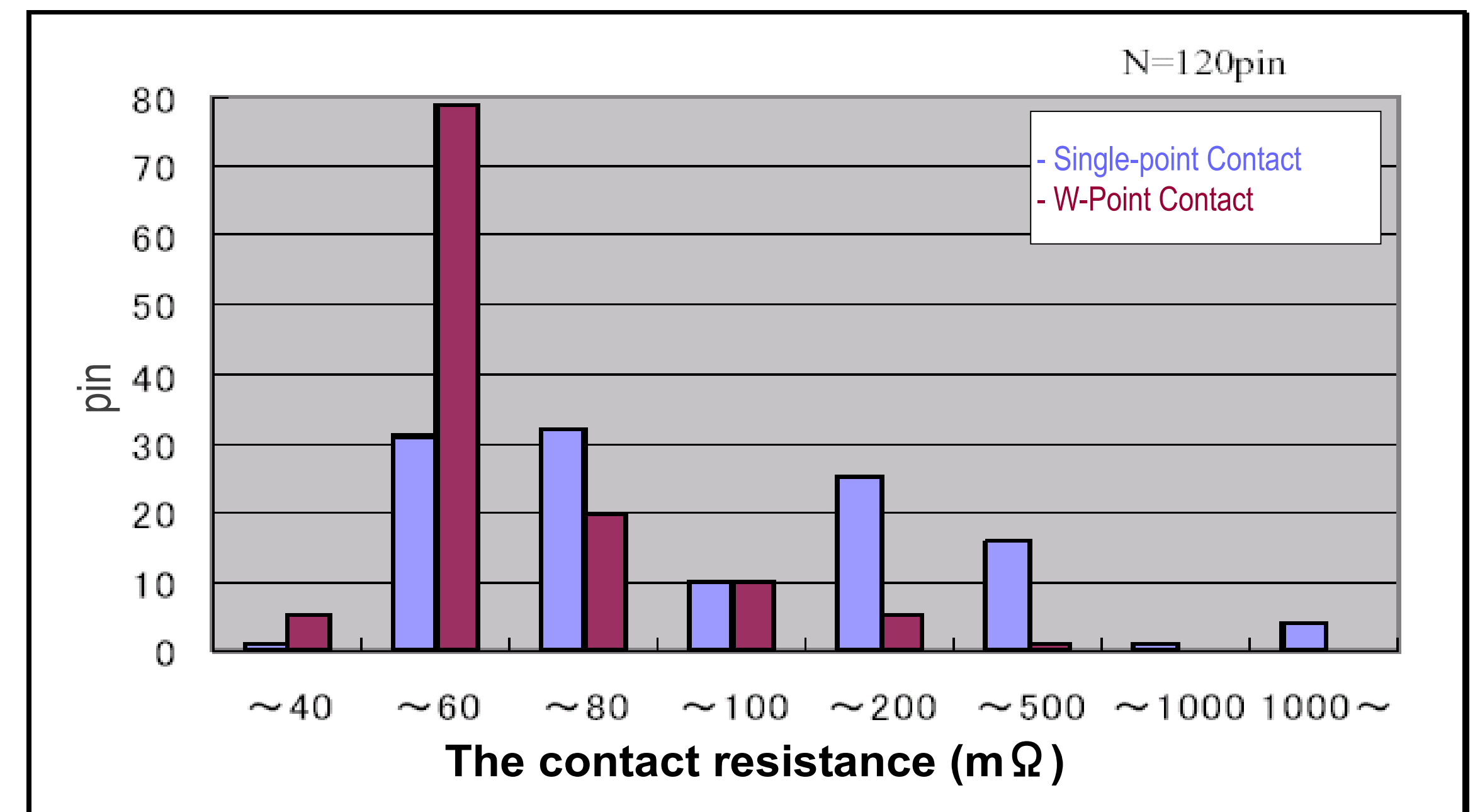
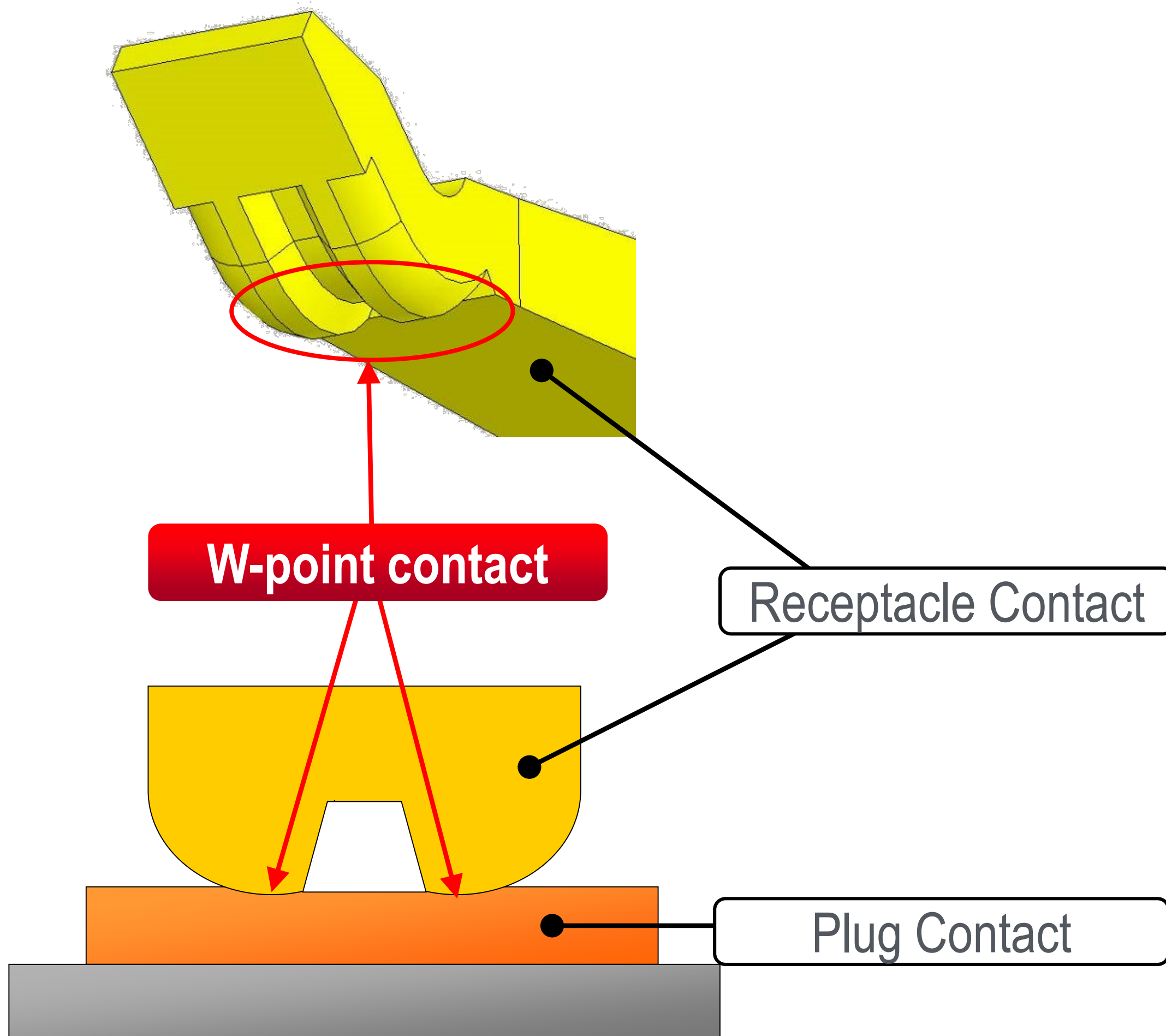
High reliability with two points of contacts

Comparison of W-point contact and single-point contact in a harsh test.

<Test method>

Dip plug in the flux for 1 minutes and let dry for 24 hours.

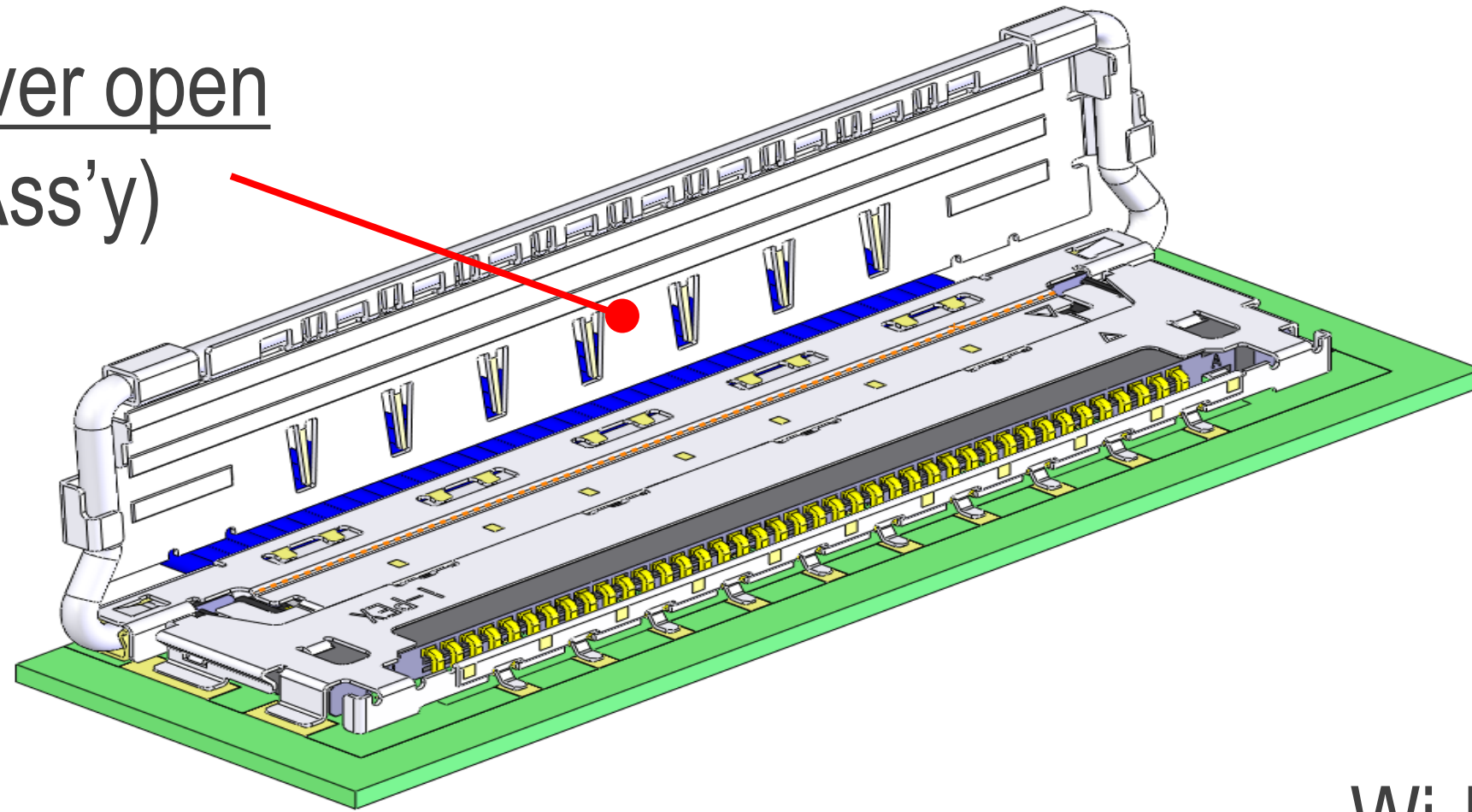
Mate plug with receptacle and measure contact resistance.



True 100% shielding

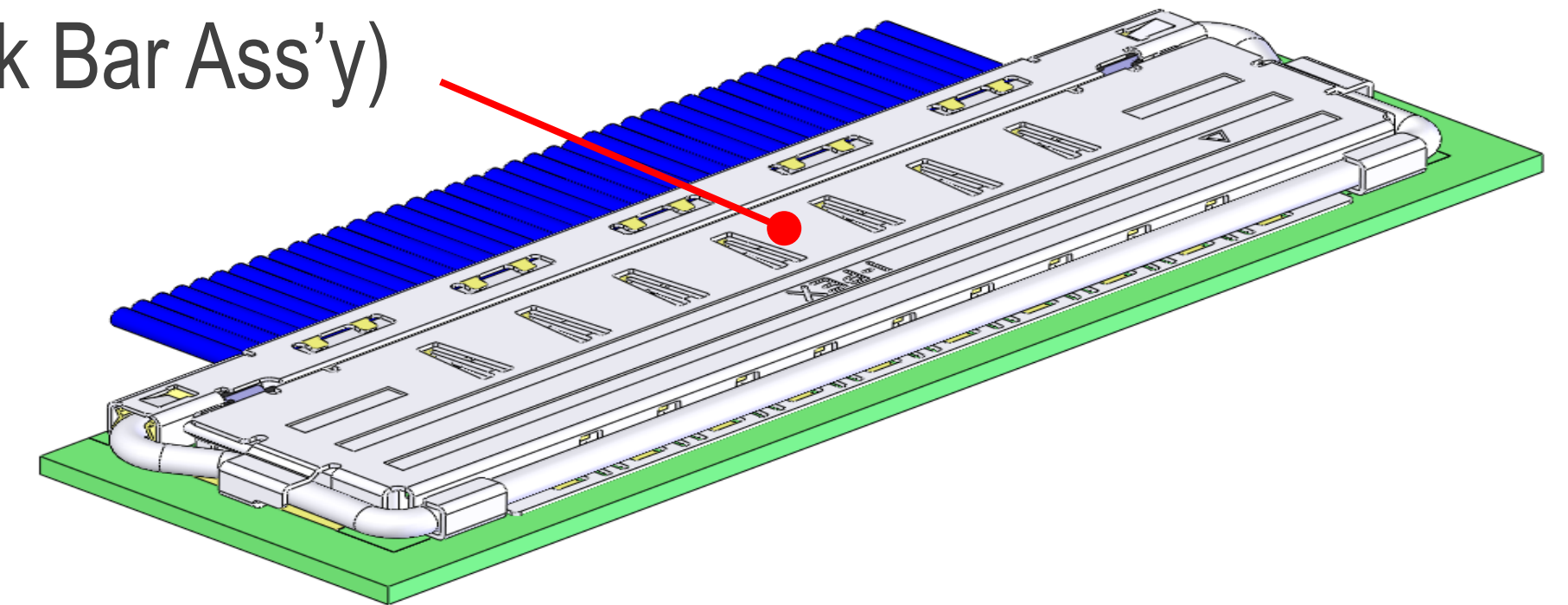
Prevent EMI leakage from contact tails

Plug shield cover open
(Lock Bar Ass'y)

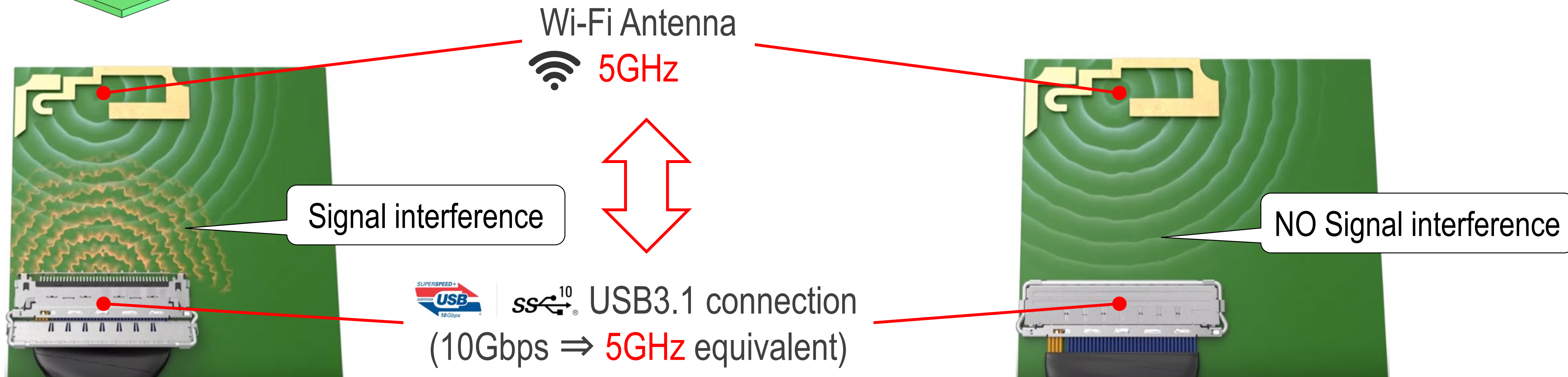


Plug shield cover close
(Lock Bar Ass'y)

Close cover



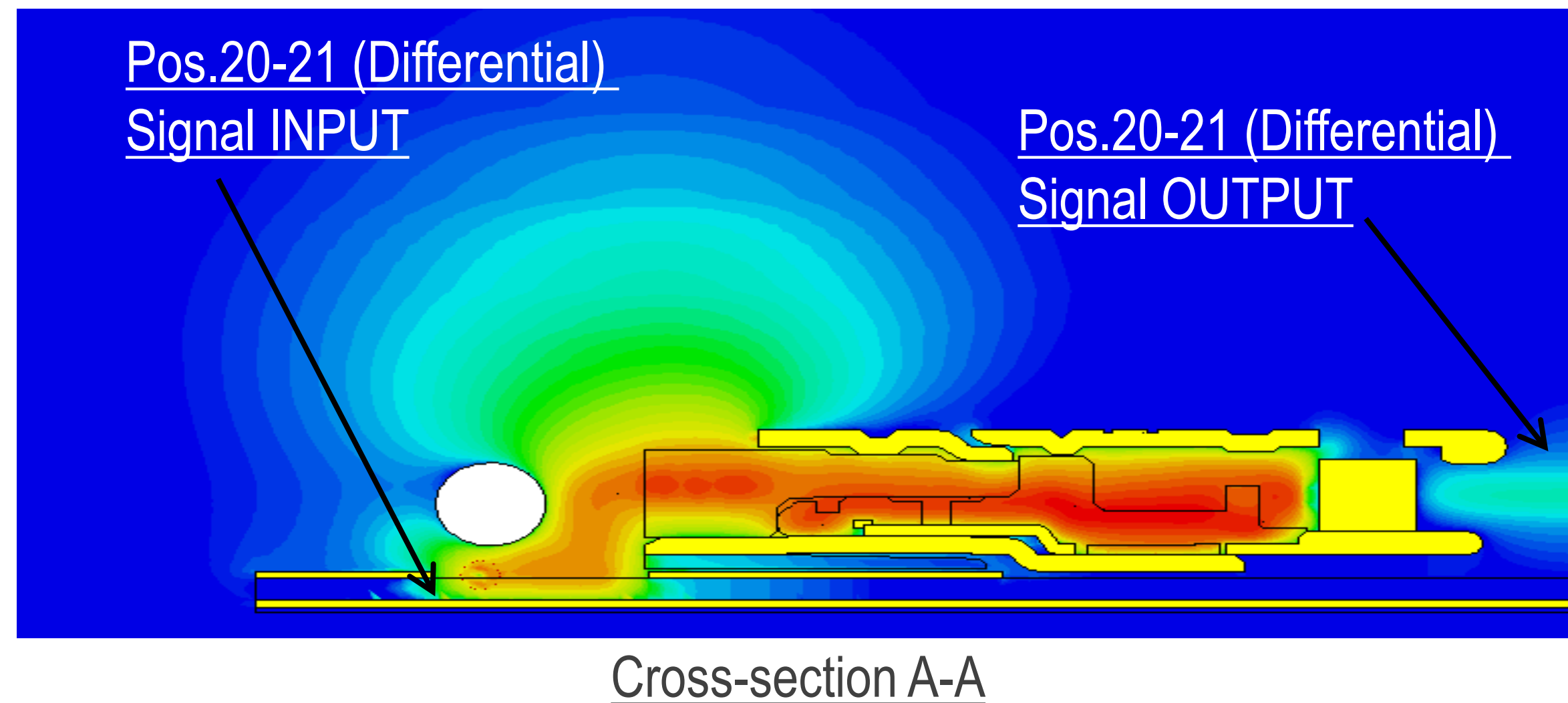
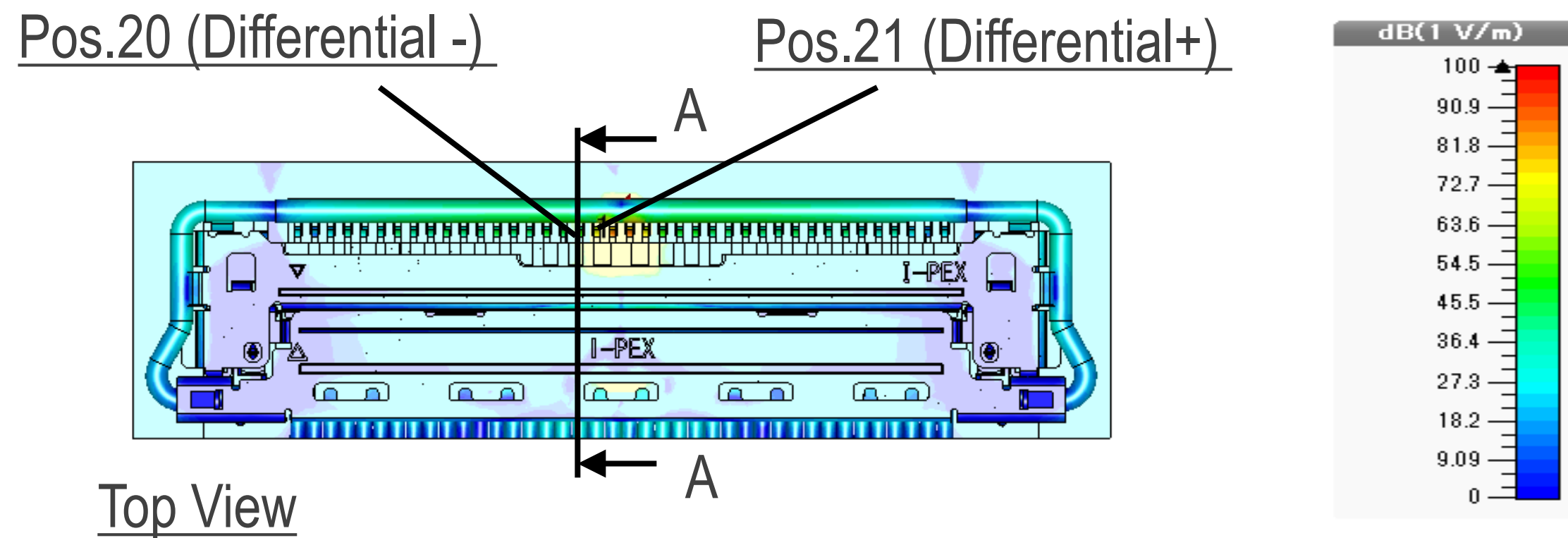
Example



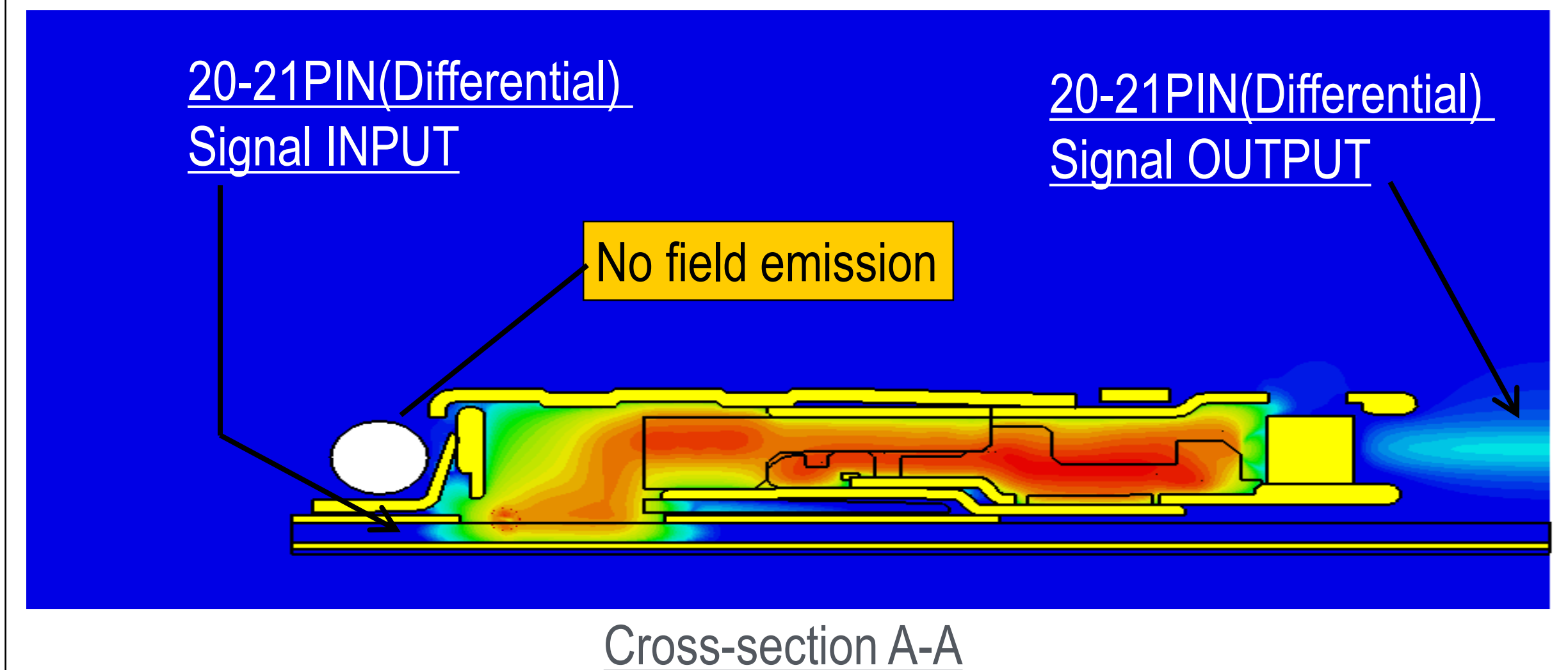
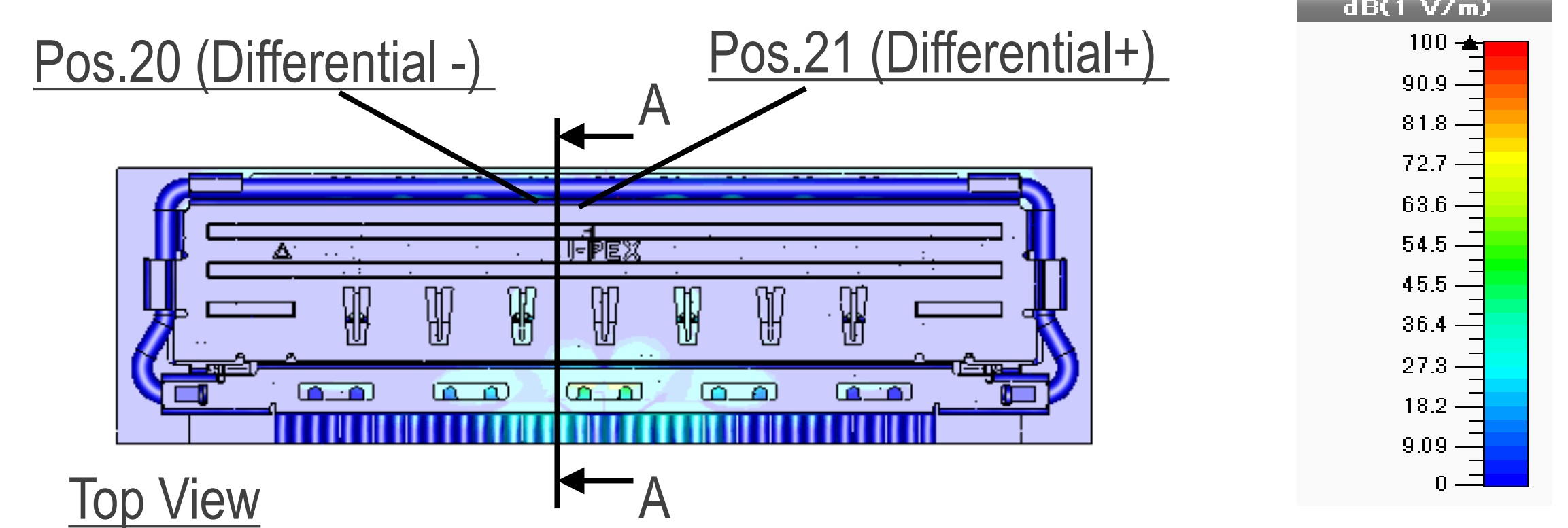
Comparison with CABLINE[®]-CA

EMI Simulation

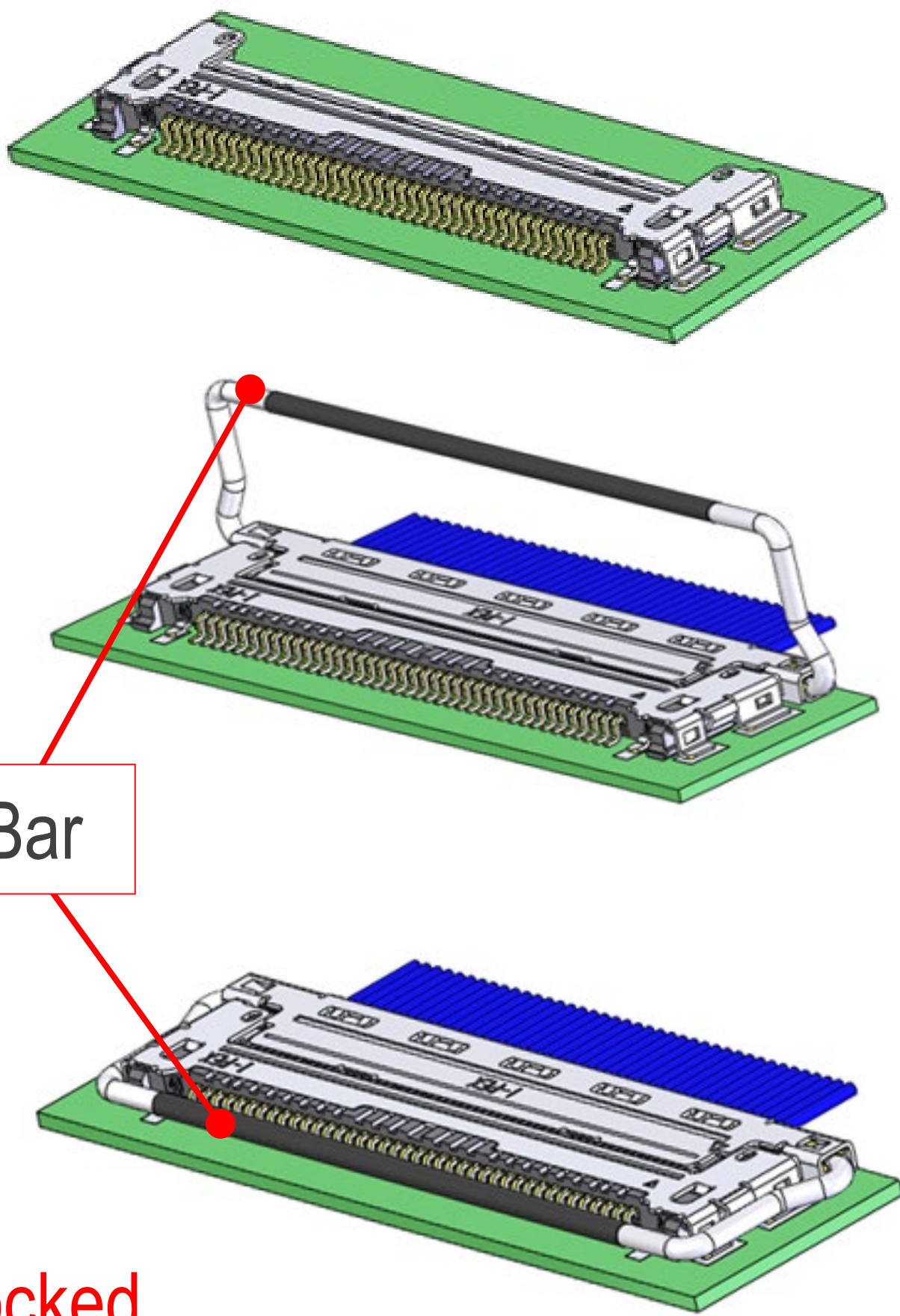
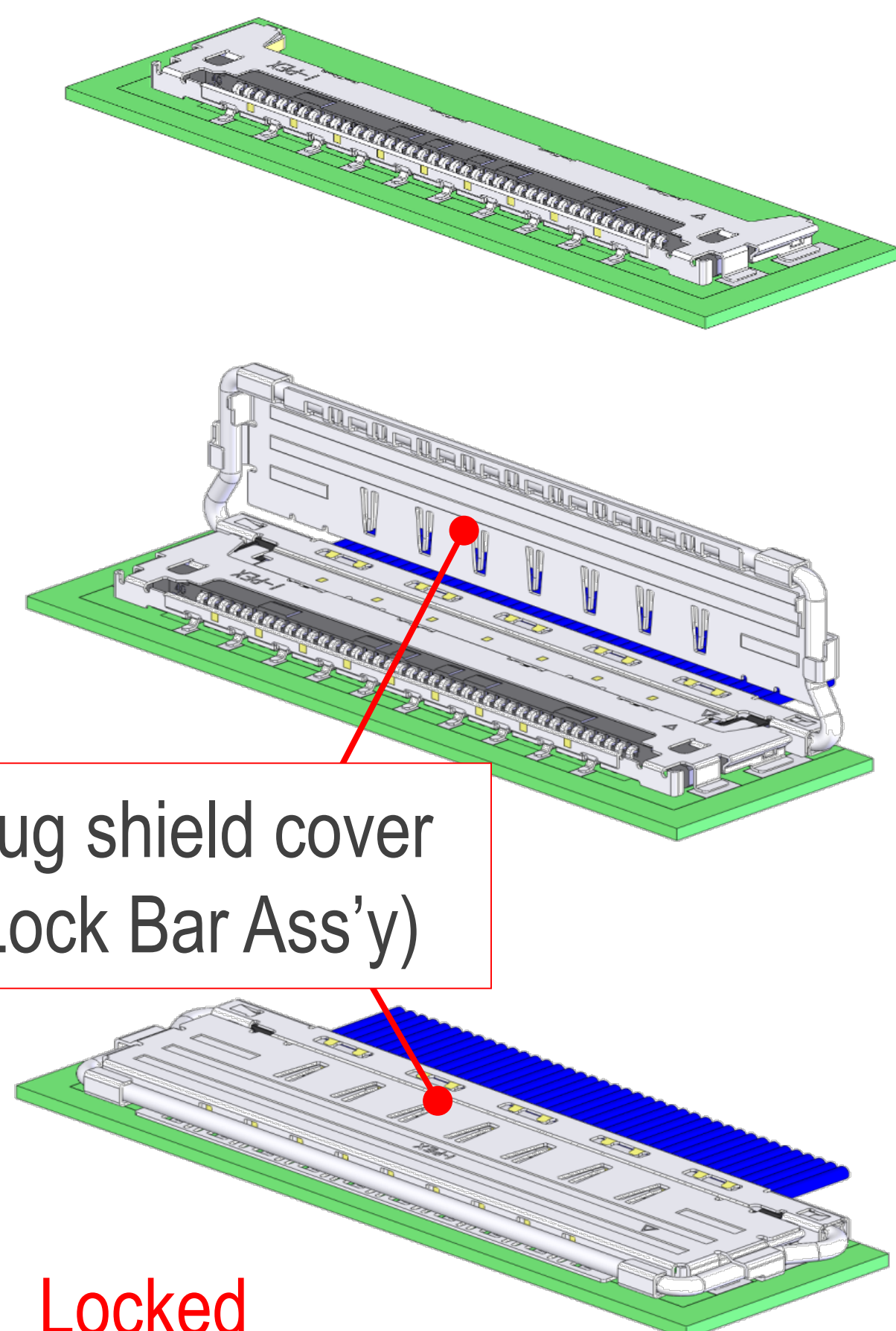
CABLINE-CA



CABLINE-CA II



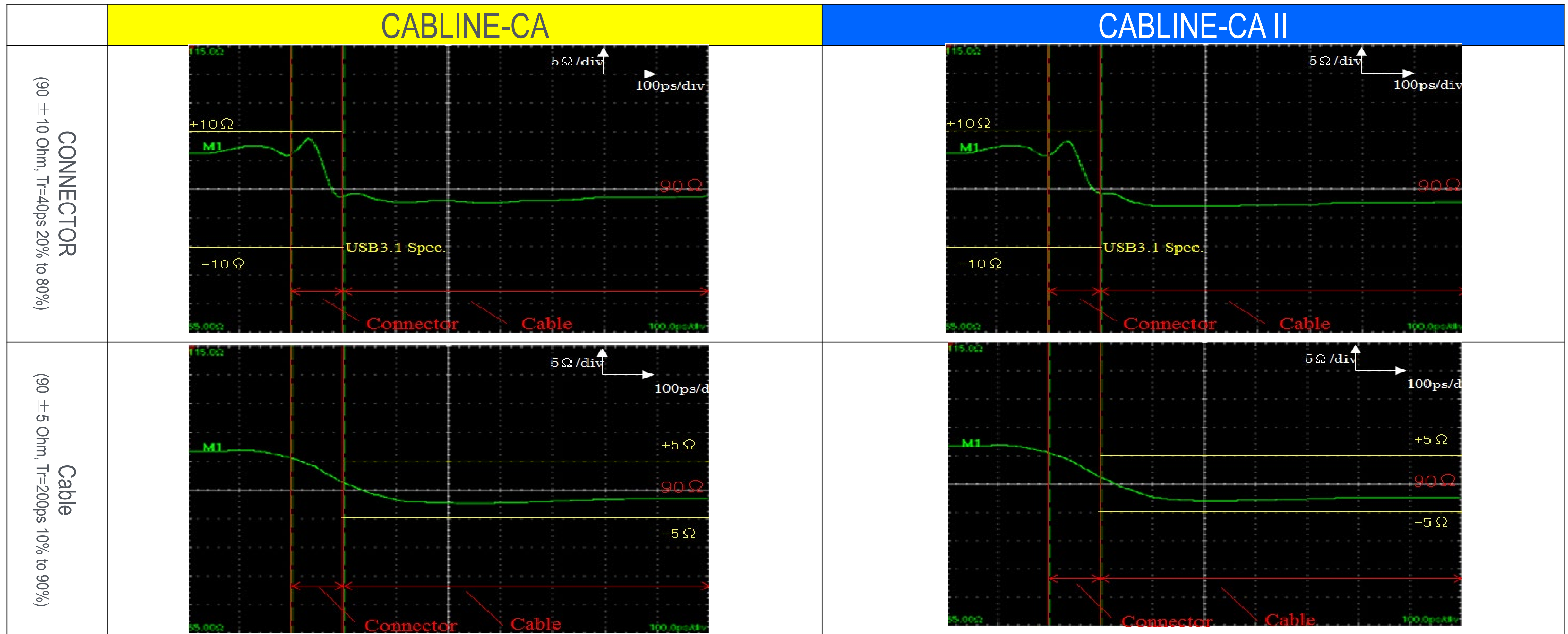
Comparison with CABLINE®-CA

Operation process	CABLINE-CA	CABLINE-CA II
<p>(1) SMT receptacle on PCB</p> <p>↓</p> <p>(2) Mate plug and receptacle</p> <p>↓</p> <p>(3) Lock using lock bar or lock bar Ass'y</p>	 <p>The diagram shows the assembly of CABLINE-CA in three steps: 1. SMT receptacle on PCB, 2. Mating the plug to the receptacle, and 3. Locking the assembly using a Lock Bar. The Lock Bar is shown as a long, thin metal bar with a handle, which is inserted into the receptacle and then bent over to lock the plug in place. The final state is labeled 'Locked'.</p>	 <p>The diagram shows the assembly of CABLINE-CA II in three steps: 1. SMT receptacle on PCB, 2. Mating the plug to the receptacle, and 3. Locking the assembly using a Plug shield cover (Lock Bar Ass'y). The Plug shield cover is shown as a long, thin metal cover that is inserted into the receptacle and then bent over to lock the plug in place. The final state is labeled 'Locked'.</p>

Comparison with CABLINE[®]-CA

Characteristic Impedance (USB3.1)

Micro-coax wire : AWG38, 45 Ohm, 100mm

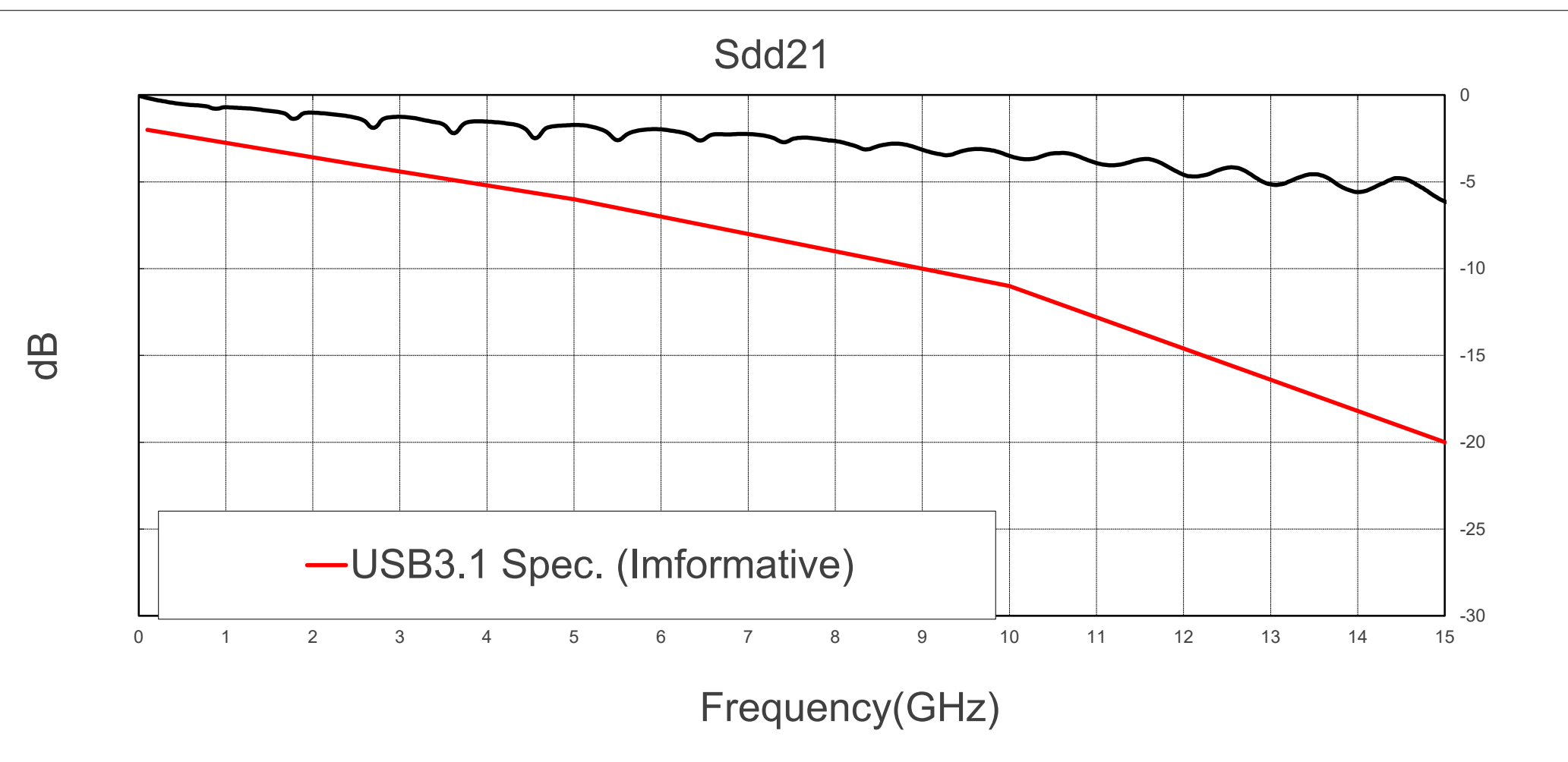


Comparison with CABLINE[®]-CA

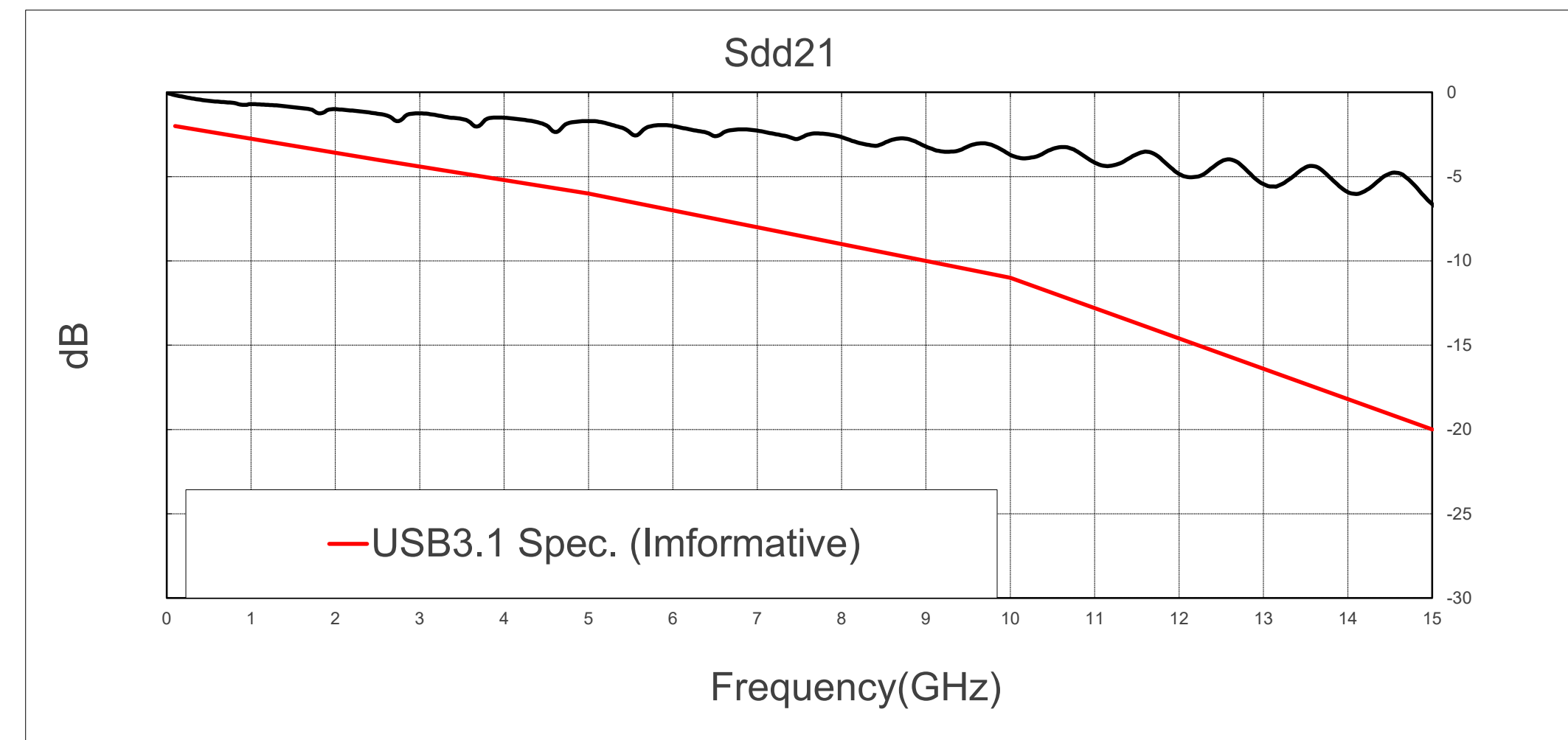
Insertion Loss (USB 3.1)

Micro-coax wire : AWG38, 45 Ohm, 100mm

CABLINE-CA



CABLINE-CA II



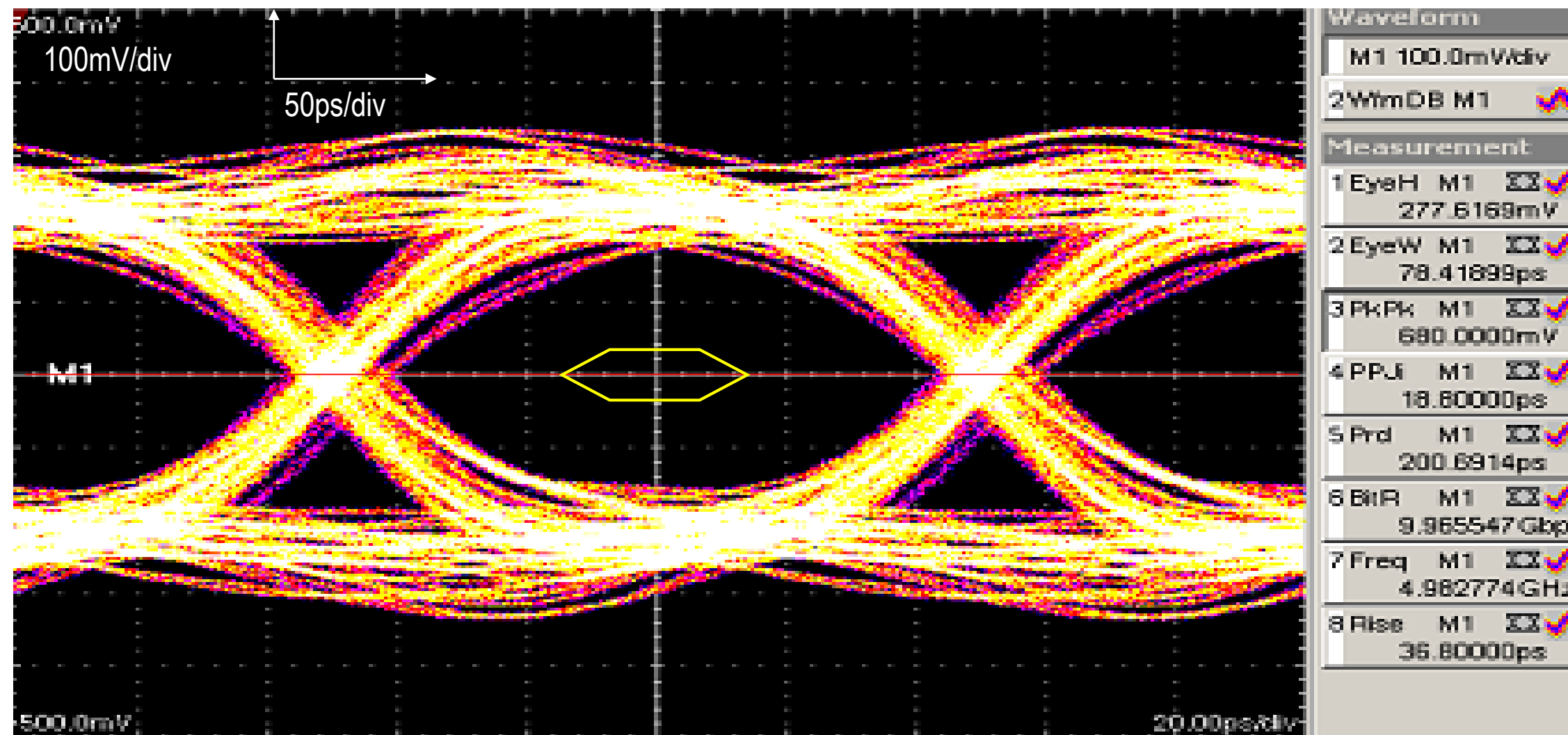
Unit:dB

Comparison with CABLINE[®]-CA

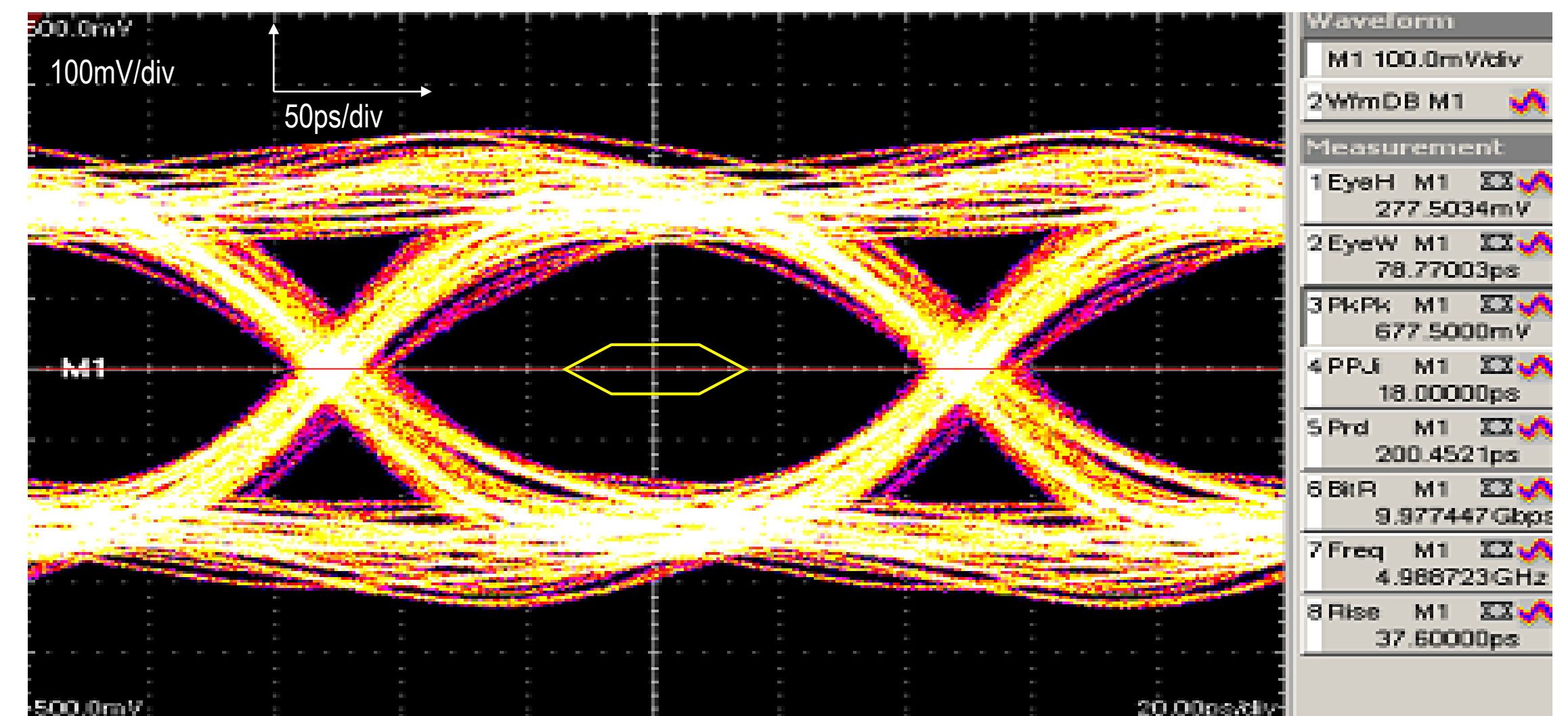
Eye Pattern (USB 3.1)

Micro-coax wire : AWG38, 45 Ohm, 100mm

CABLINE-CA



CABLINE-CA II



Unit:dB



I-PEX is a trademark of DAI-ICHI SEIKO Co., Ltd. All other trademarks are owned by their respective companies.
All specifications of the products shown here are subject to change without notice. DAI-ICHI SEIKO Co., Ltd., assumes no responsibility for any inaccuracies or obligation to update Information on these documents.

www.i-pex.com