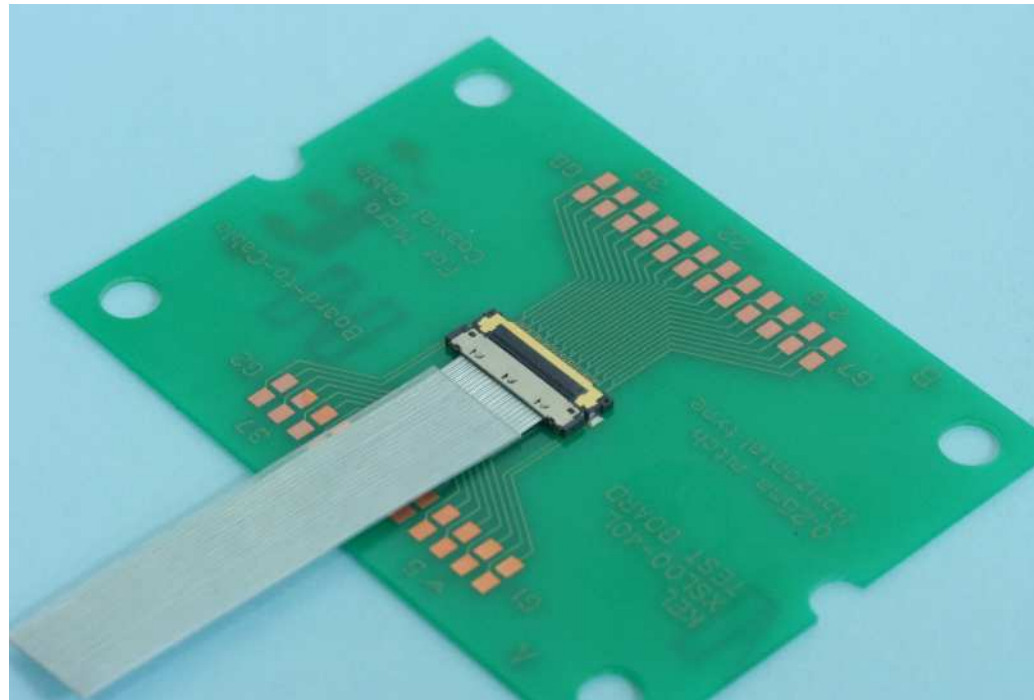


Connector for Micro Coaxial Cable
(0.25mm pitch)
XLS series



KEL CORPORATION

Applications

Target Equipment

- DVC
- Handy Terminal
- Cellular Phone



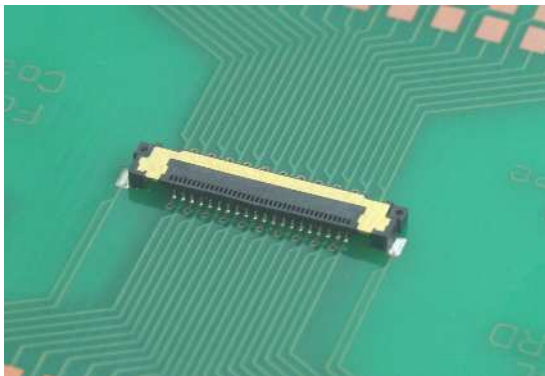
- Digital Camera
- Laptop Computer
- PDA
- Closed-circuit Television
- CCD Unit
- Ultra-sound Diagnostic Device
- Other Medical Equipments

*Above pictures are not the actually applied products.

0.25mm pitch connector for micro coaxial cable (XLS series)



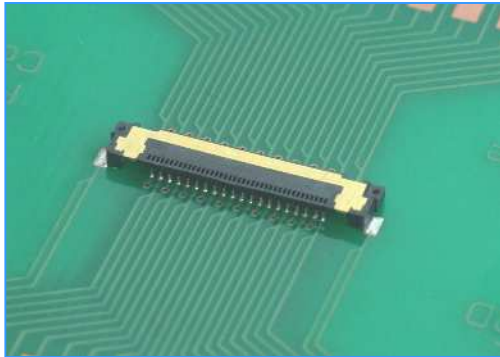
Outline picture



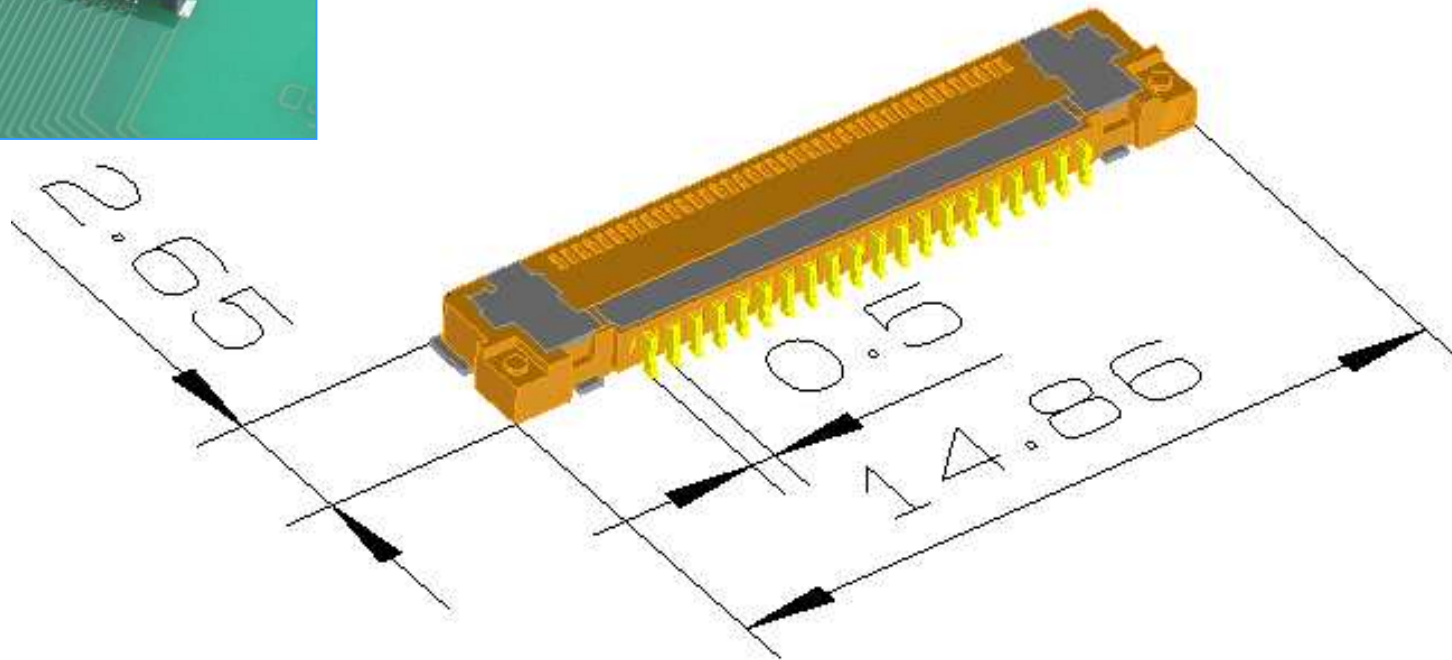
PCB side connector

- ◆ Applied to AWG44(7/0.02) micro coaxial cable.
- ◆ High quality transmission suitable for narrow tubes and hinges.
- ◆ Pitch : 0.25mm (Contact)
Mounted Height : **1.0mm**
Mating Width : 6.0mm
Connector Width : 14.86mm (40 pin)
Very small and thin.
- ◆ Highly reliable soldering by pulse heat.
- ◆ **Improvement in transmission characteristics by reinforcement of the ground.**
- ◆ Lead-free compliance.
- ◆ Pin count : 40 pin (Development sample)

XLS series (PCB side) Outline

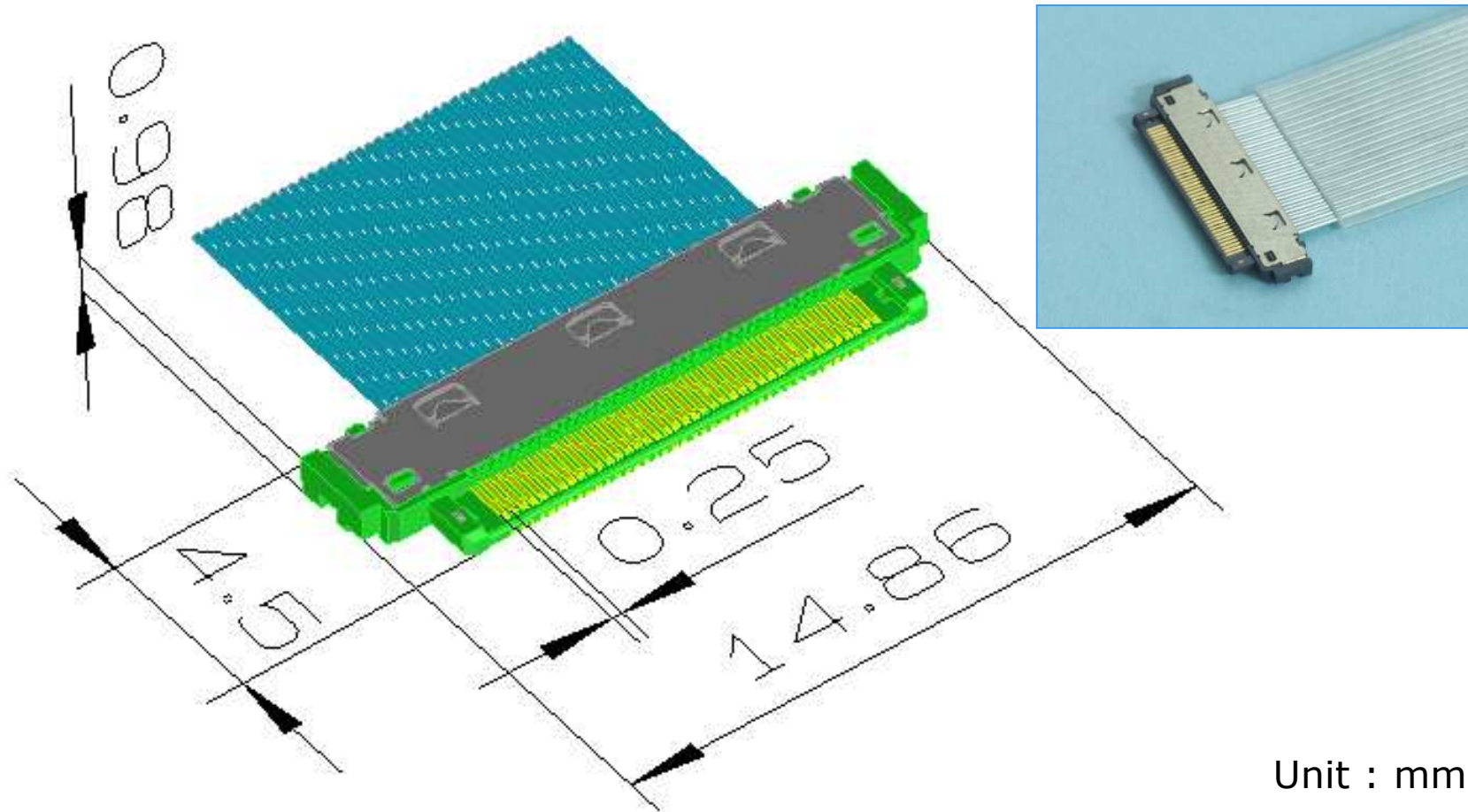


Unit : mm



Contacts appear in two sides (front and back), and the pitch is 0.25mm.

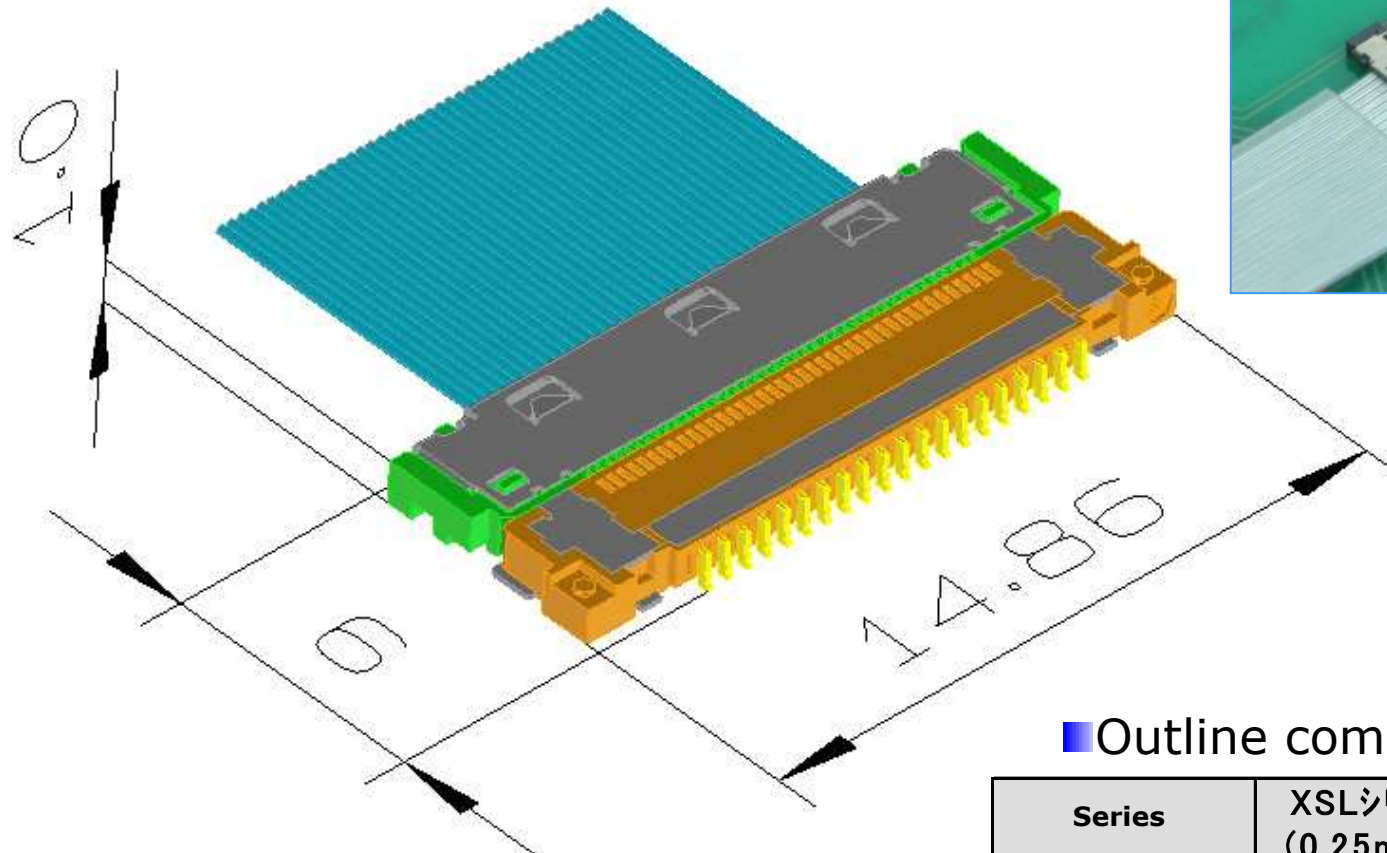
XLS series (Cable side) Outline



Cable maker : Junkosha Inc. (AWG44, Outer dimension : 0.23mm, Impedance : 40Ω)

XSL series Mating Outline

Unit : mm

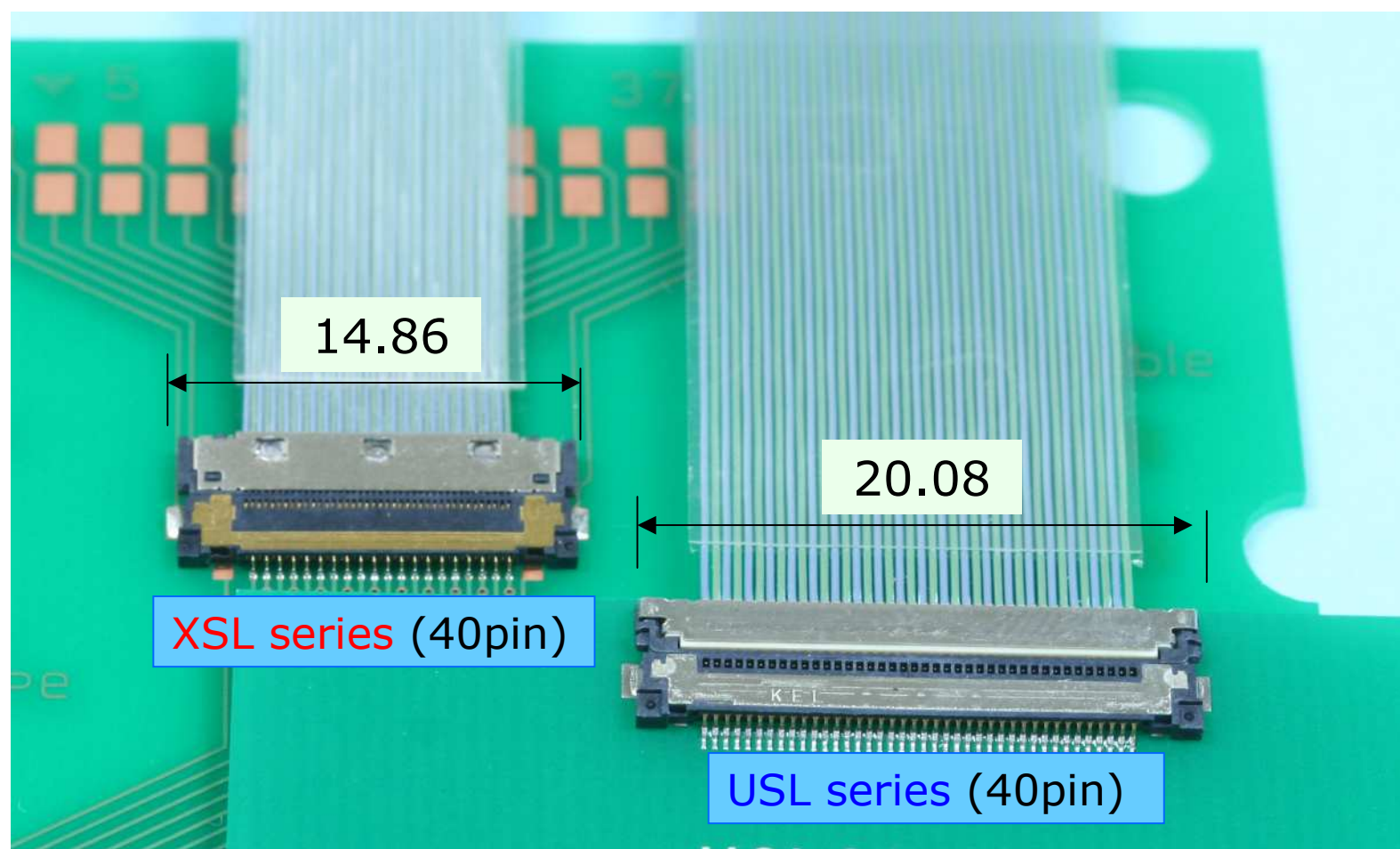


Outline comparison

Series	XSLシリーズ* (0.25mmP)	USLシリーズ* (0.4mmP)
Mating width 嵌合幅	6.0	5.6
Mounted height 実装高	1.0	1.0
Connector width (40pin) コネクタ幅(40極)	14.86	20.8

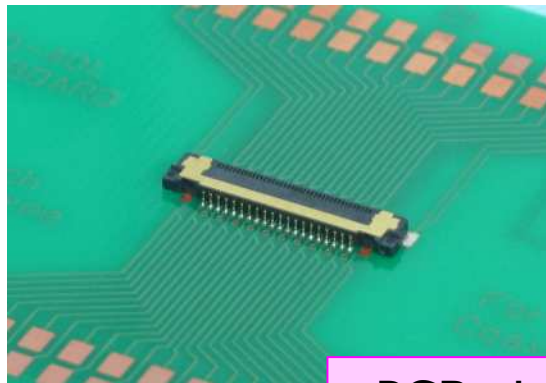
Appearance Comparison (USL@XSL)

Unit : mm

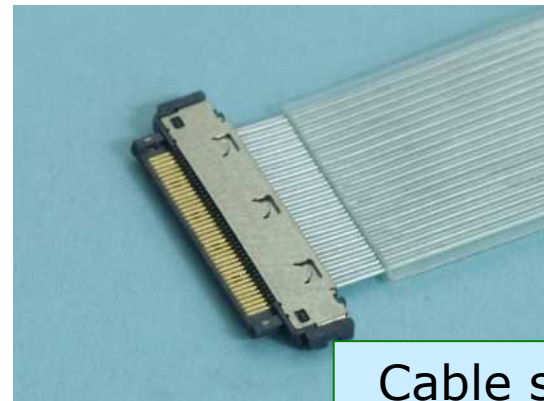


XSL series Specifications(Under Development)

- Rated Voltage/Rated Current : 0.2A/AC31.5V
- Operating Temperature : -55 to +85°C
- Contact Resistance : 100m Ω max.
- Dielectric Withstanding Voltage : AC90V for 1 min.
- Insulation Resistance : 50M Ω min. at DC100V
- Mounting Type : SMT (Soldering area : 0.5mm pitch)



PCB side



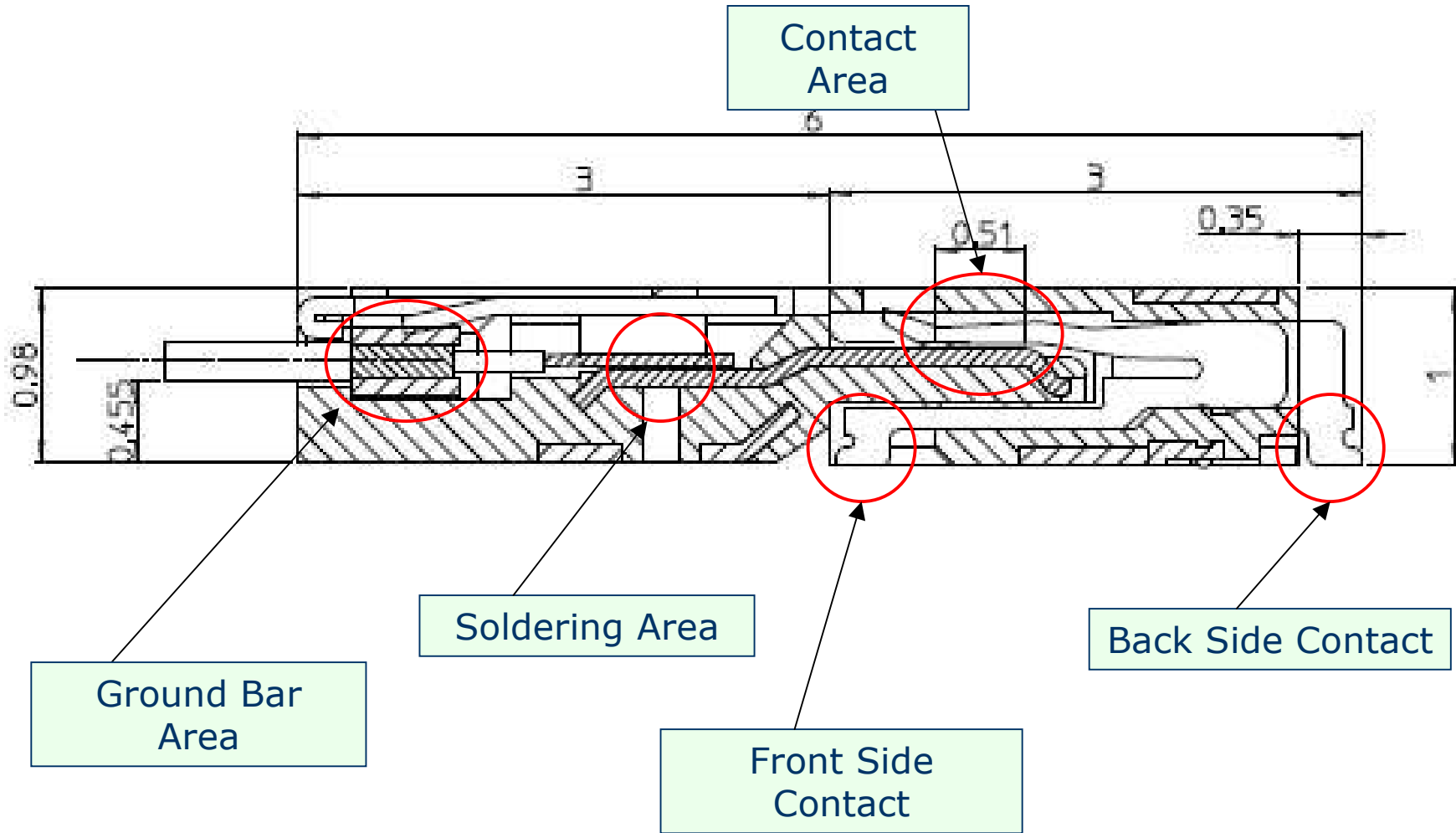
Cable side

XSL series Features

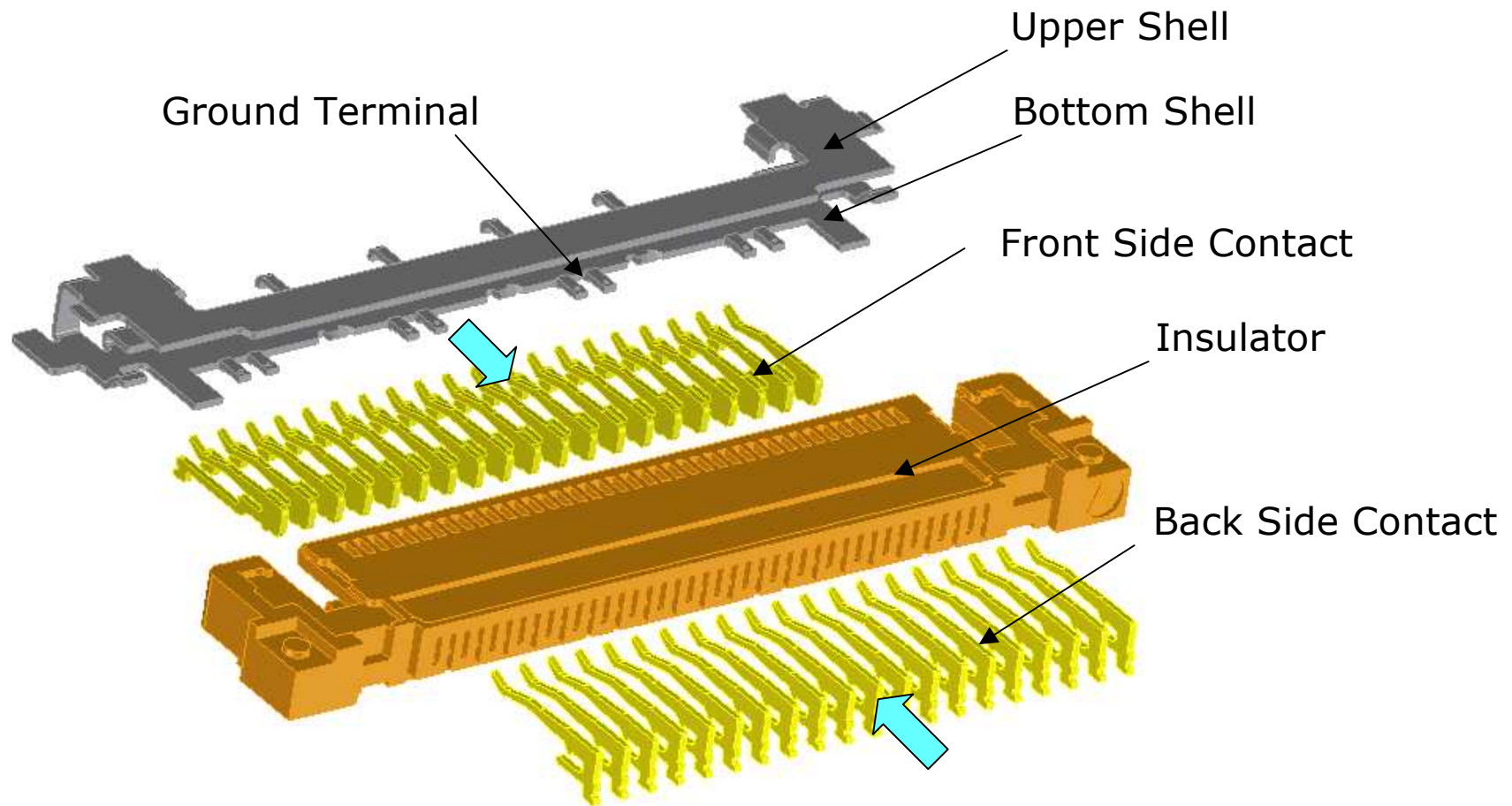
- **0.25mm pitch** is the smallest pitch in the industry.
- Low profile mounted height of **1.0mm**.
- Applied to AWG44 micro coaxial cable.
- Multi-point ground improves transmission characteristics.
- Highly reliable effective mating length of **0.51mm**.
- The bottom shell of cable side connector and the shell of PCB side connector are gold plated, which makes stable contact.
- Pick up surface space for automation.
(Surface size : 2mm/Receptacle,PCB side)
- RoHS compliance.

XSL series Sectional View

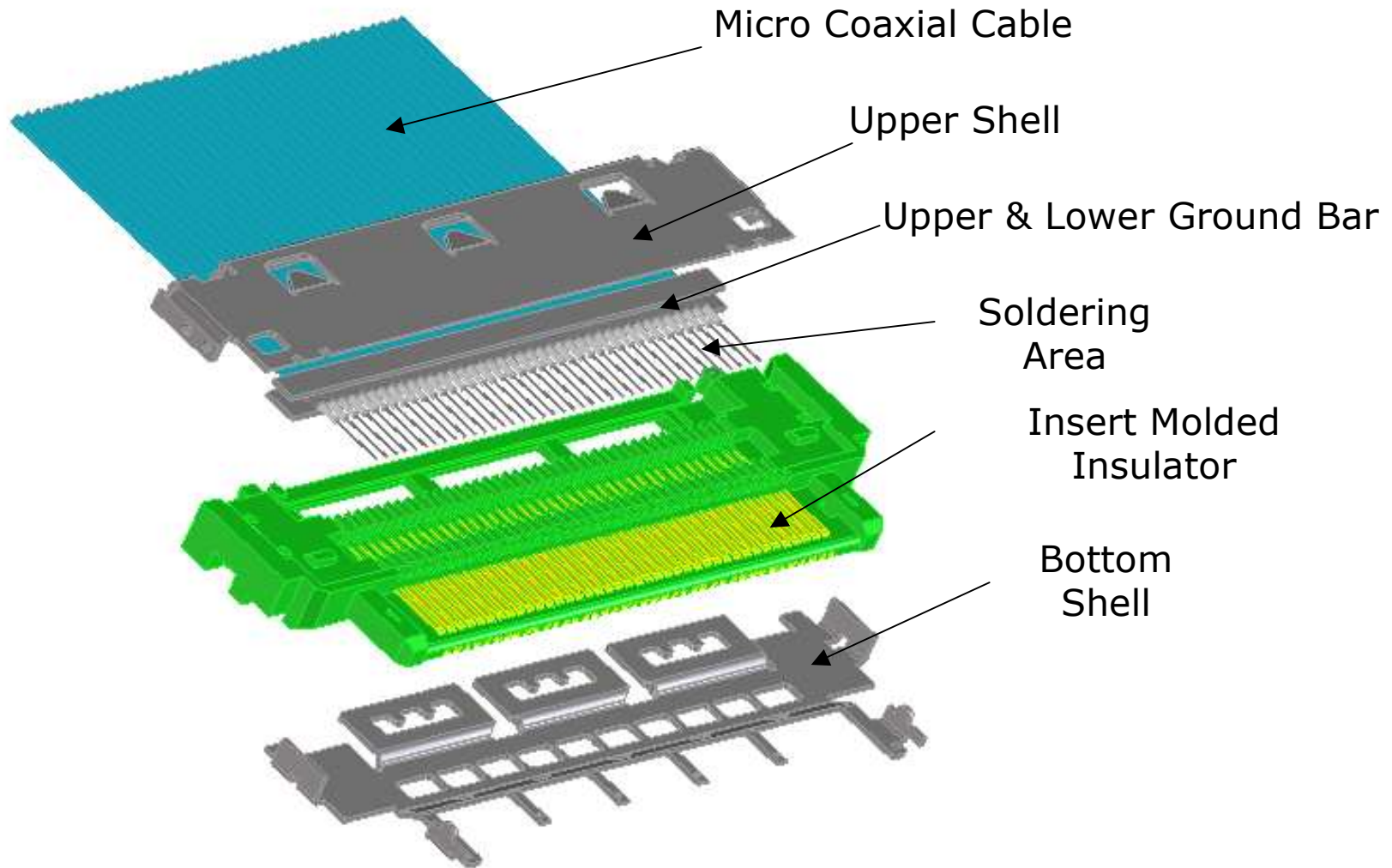
Unit : mm



XSL series (PCB side) Structure



XSL series (Cable side) Structure



Development Schedule (Forecast)

- Drawing : Middle of September,2007
- Sample : Middle of September,2007
- Specification : Middle of October,2007
- Development Agreement : April,2008
(Unscheduled)
- Official Release : September,2008
(Unscheduled)
- Delivery Start : October,2008
(Unscheduled)

Thanks for your time and attention !!



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