DW3 Specifications

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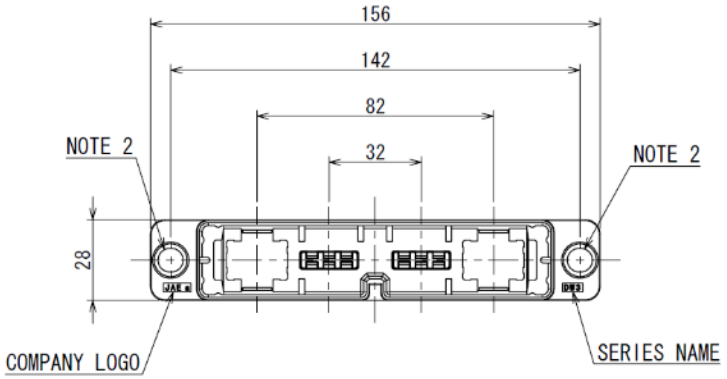
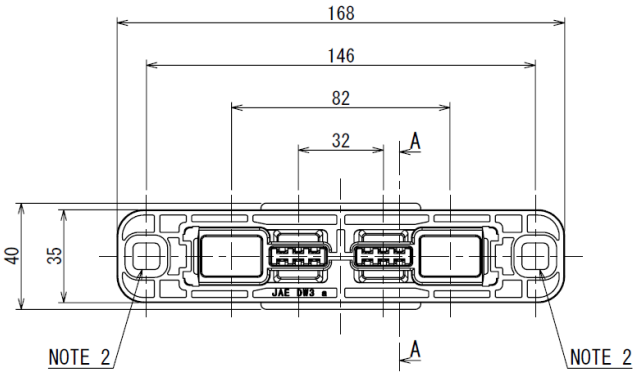
Item	Power	Signal
Pin count	2 pins	24 pins
Rated current	150 A	2 A
Rated voltage	1,000 V	100 V
Contact resistance	Initial: Max. 0.2	Initial: Max. 20 After evaluation: Max. 30
Cable	Bus bar: Width 15 +/- 1mm Thickness 3 +/- 0.1mm	AWG22 (0.3mm^2) Outer diameter of coated cable: 1.5mm
Durability	100 times	
Overvoltage category	4	
Pollution grade	3	
Ambient temperature	-25 to 60 C	
Temperature increase at power contact	Max. 45 C	
Allowable temperature at power contact	Max. 105 C	

Receptacle



Plug



DW3 Application Example

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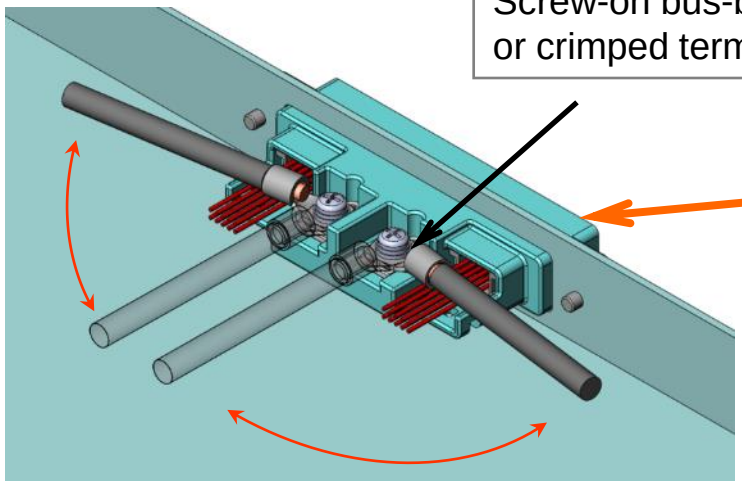
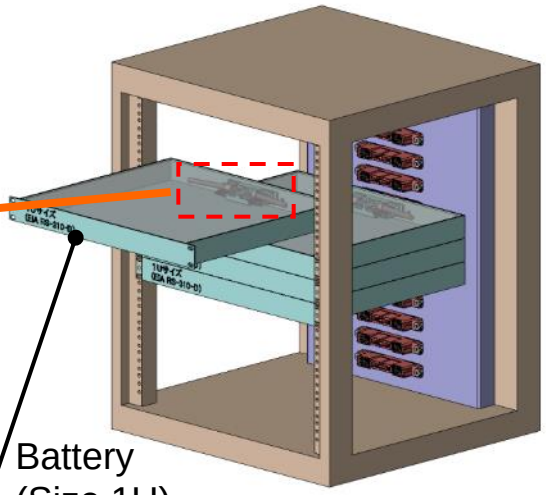
Receptacle



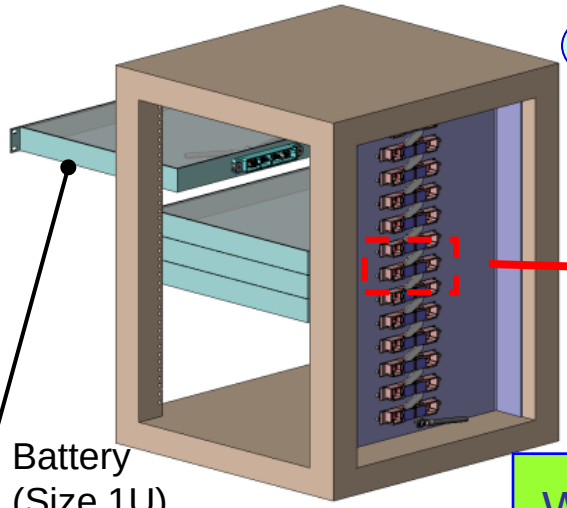
Screw-on bus-bar
or crimped terminal



Battery
(Size 1U)

19 inch rack

Plug

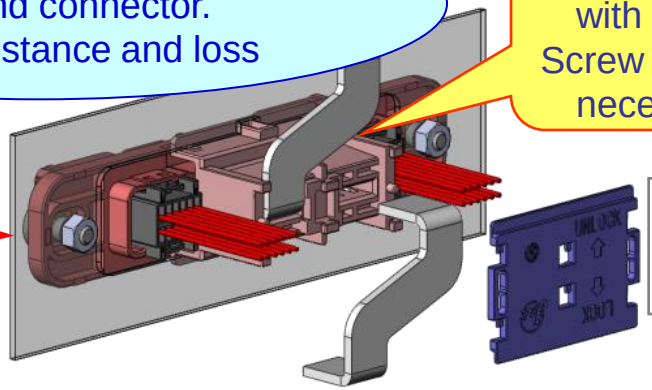


Battery
(Size 1U)

19 inch rack

Omits connection between cable, bus-bar and connector.
Free from resistance and loss

Can connect bus-bar with fingers
Screw or harness not necessary



After connecting bus-bar, mount cover

Workability made easy by direct connect to bus-bar (plug)

DW3 Signal Contacts

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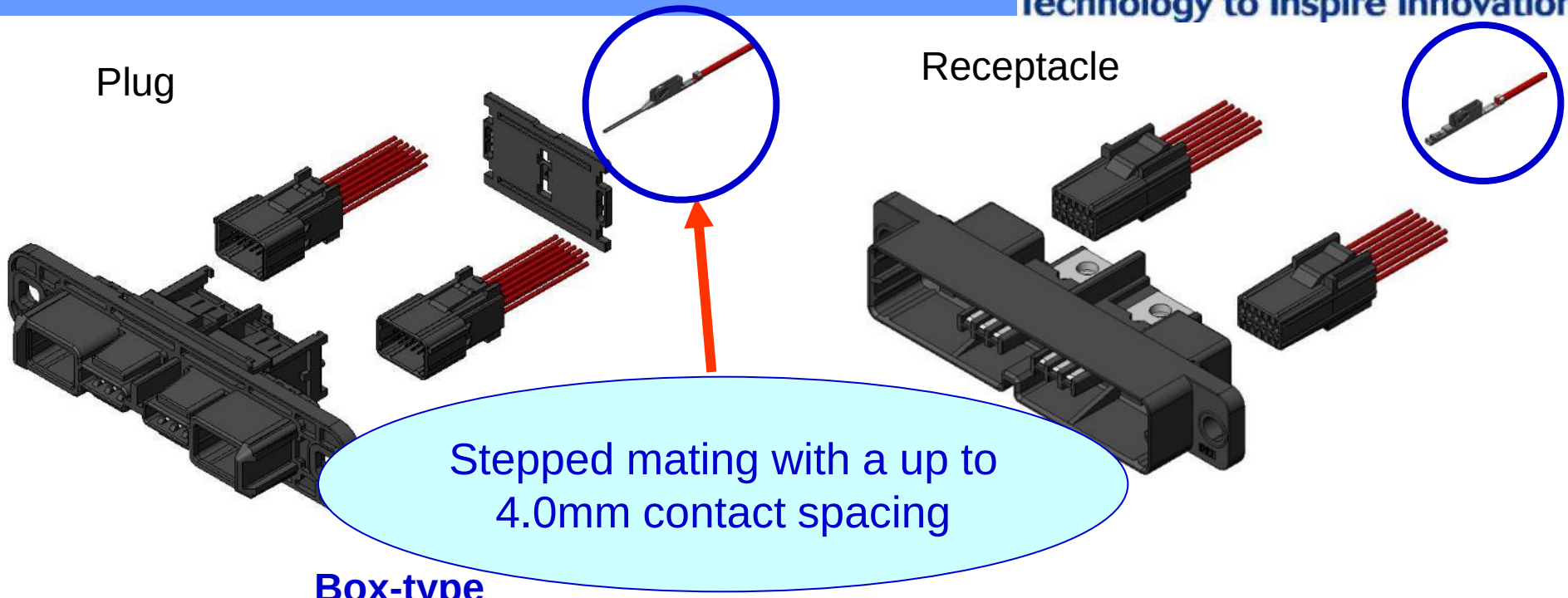
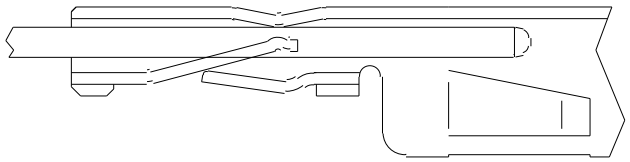
Plug

Receptacle



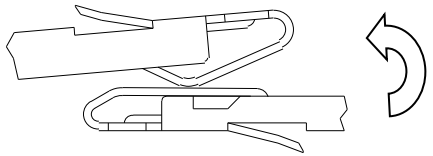
Stepped mating with a up to
4.0mm contact spacing

Box-type
Socket Contact Structure



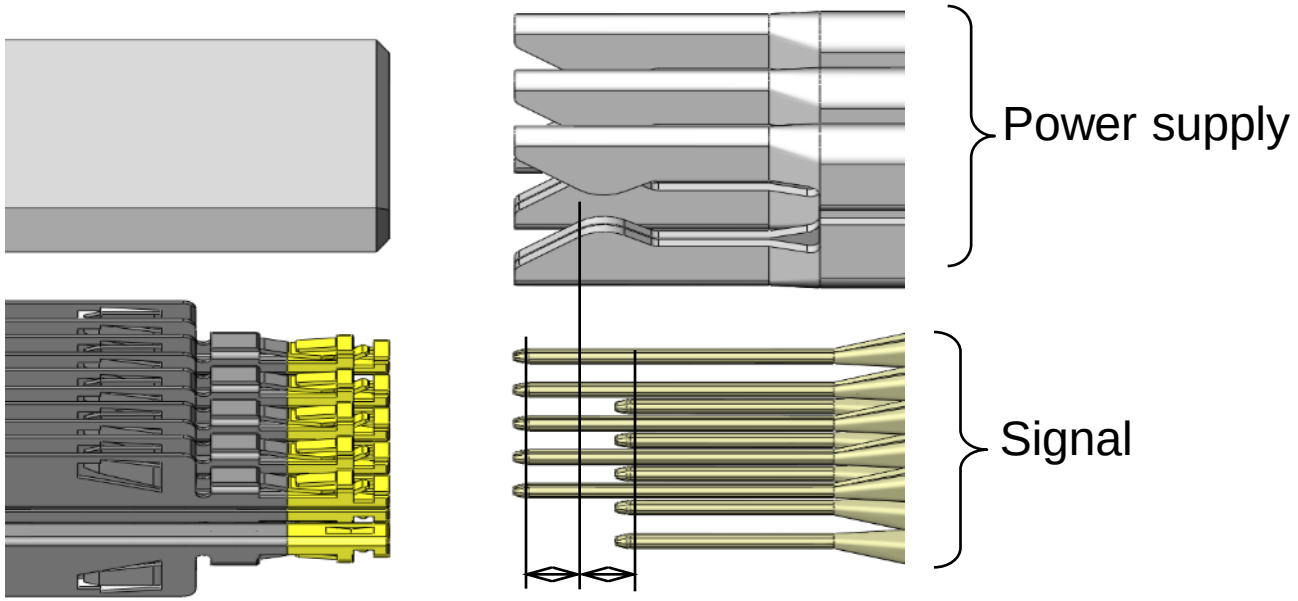
2-point contact → Steady Connection

Better than inferior bellows-type
1-point contact → weak with and dust



Same concept as high-reliability automotive contacts

DW3 3-Step Mating Sequence



Staggered spacing 2mm each

3-step sequence available by using different pin lengths

1) Start connecting → Power connect → Complete connection
2) Start unplug → Power unplug → Complete unplug

3-steps sequential signal pin

DW3 Electric Shock Prevention

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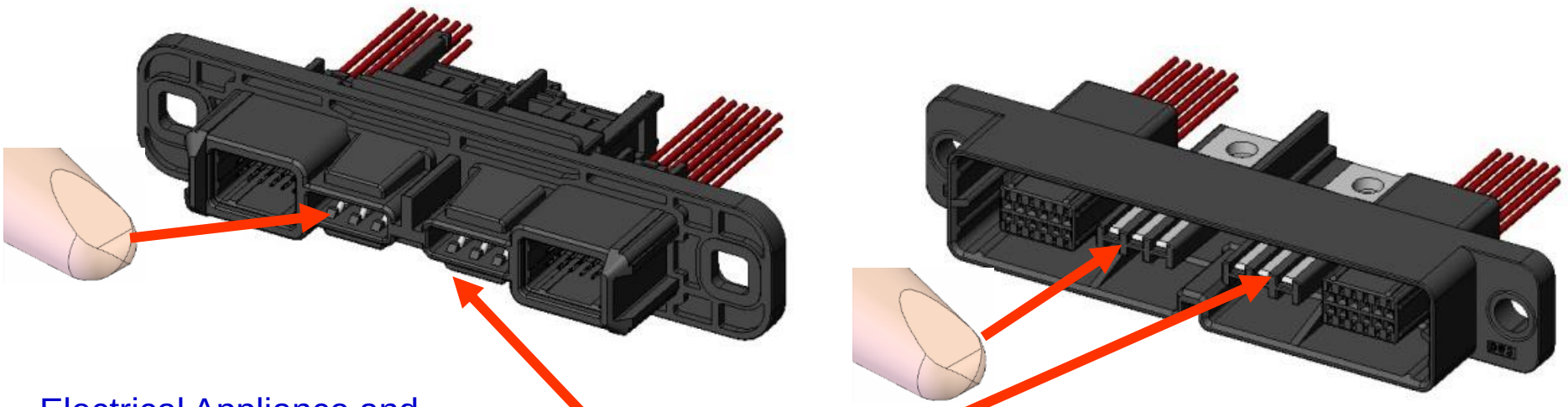
Plug

Receptacle



Electrical Appliance and Material Safety (J60950)

Finger test cleared (ϕ12mm)

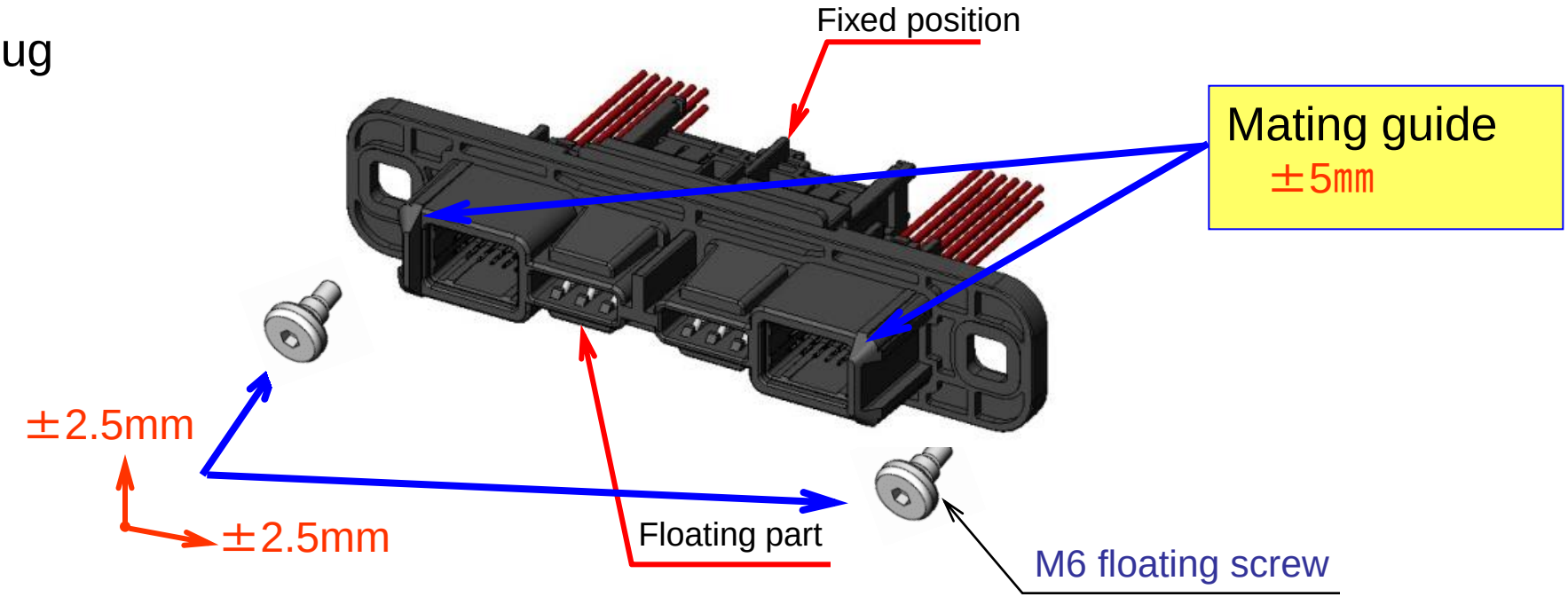
Prevents electric shock

Both plug and receptacle have shock prevention design

DW3 Floating Range, Connection Guide

Technology to Inspire Innovation

Plug



Floating range
±2.5mm

Acceptable position gap ±2.0mm between fixed position and center of mounted panel

No need to use expensive high-accuracy racks

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