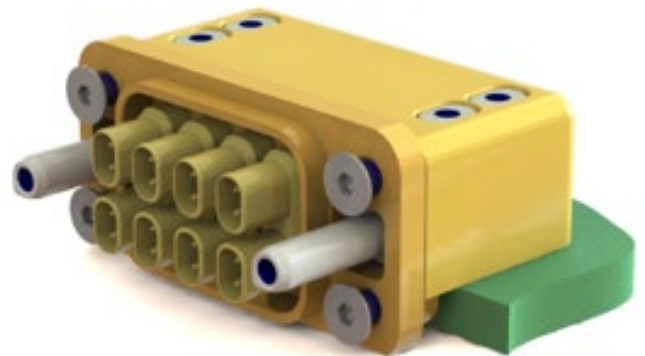


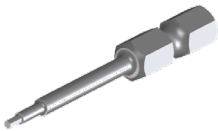
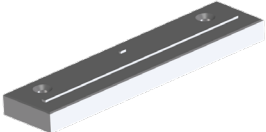
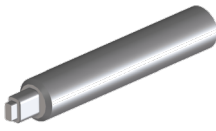
# Application Guide

## NXS Series

Revision A



## Tooling

Part Number	Description	Image
H611571	Hex Driver 1.27 A/F	
HTA-661	Contact Release tool	
HTA-662	Contact Extract tool	

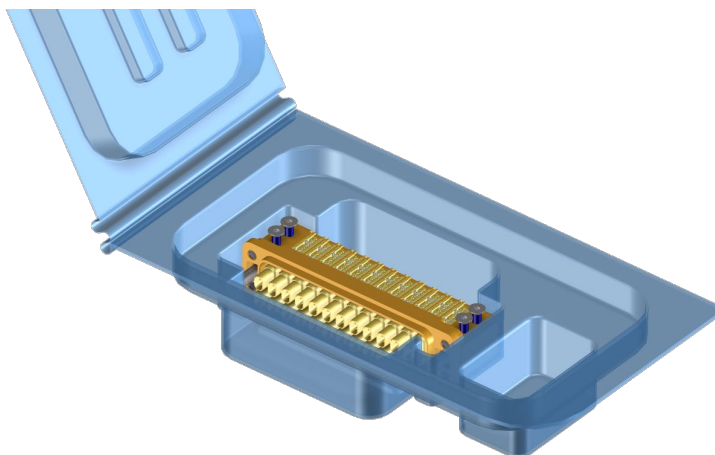
## Product

### NXS Receptacle

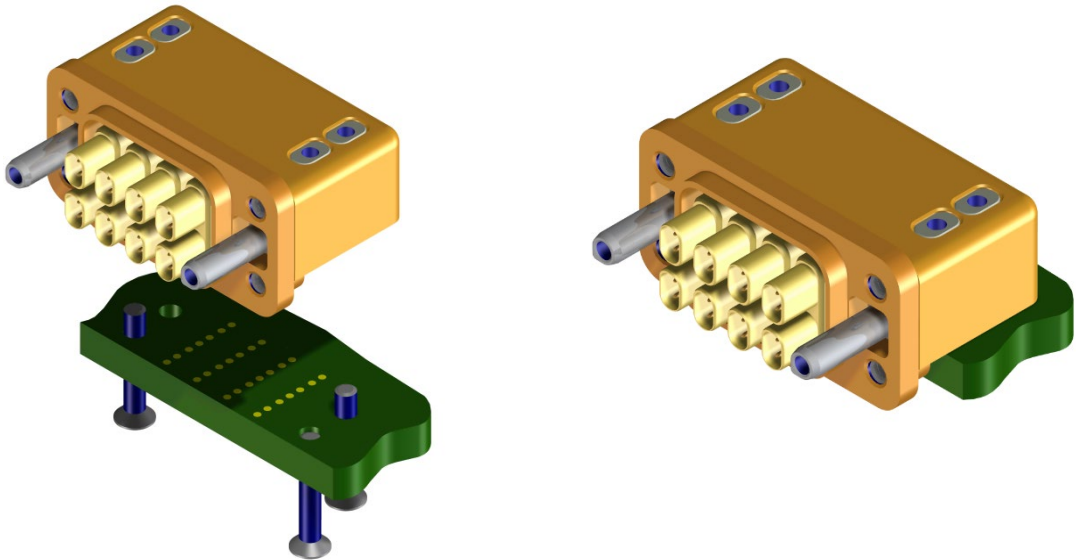
The NXS Receptacle utilizes solderless termination for connection to the parent PCB, any cleaning or conformal coating required on the parent board must be carried out prior to the fitment of the NXS Receptacle.

(Note: cleaning product & conformal coating product may cause contamination of inner contact and affect performance)

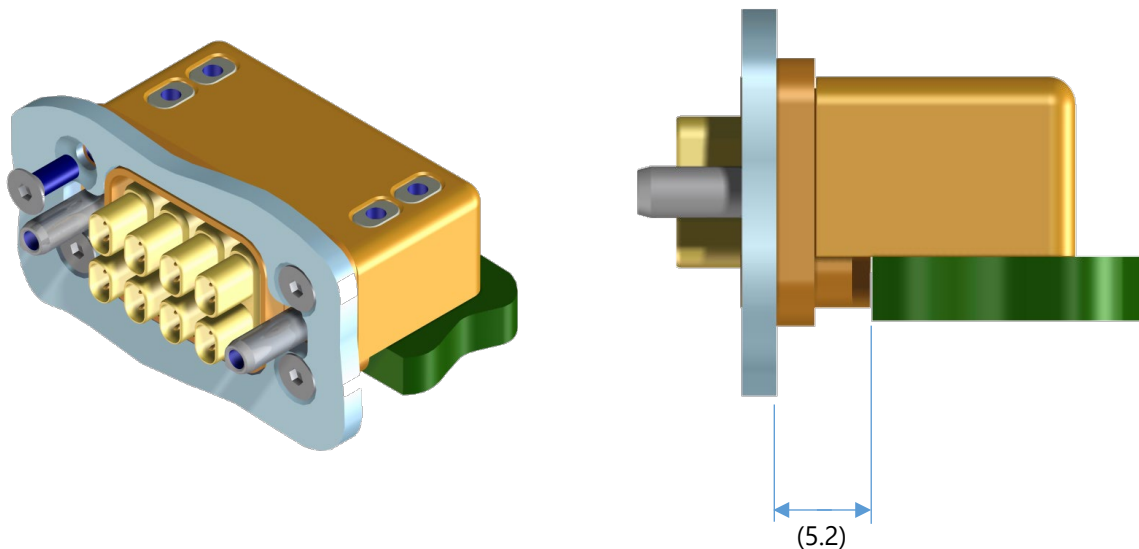
- Receptacle supplied individually packed within dedicated ESD clam-shell packing tray:



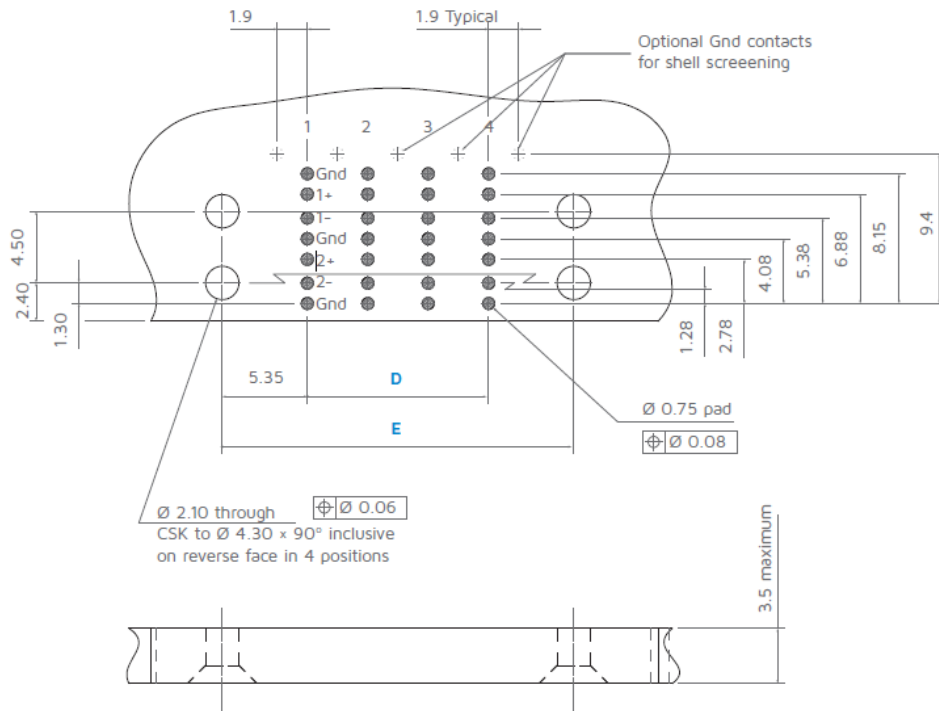
- Carefully position Receptacle to PCB, using supplied fixing screws to align and secure in correct position,
- Fixing: 1.3mm A/F hex drive, countersunk head, M2 x 5mm
- Tightening torque: 0.2Nm  $\pm$ 3%



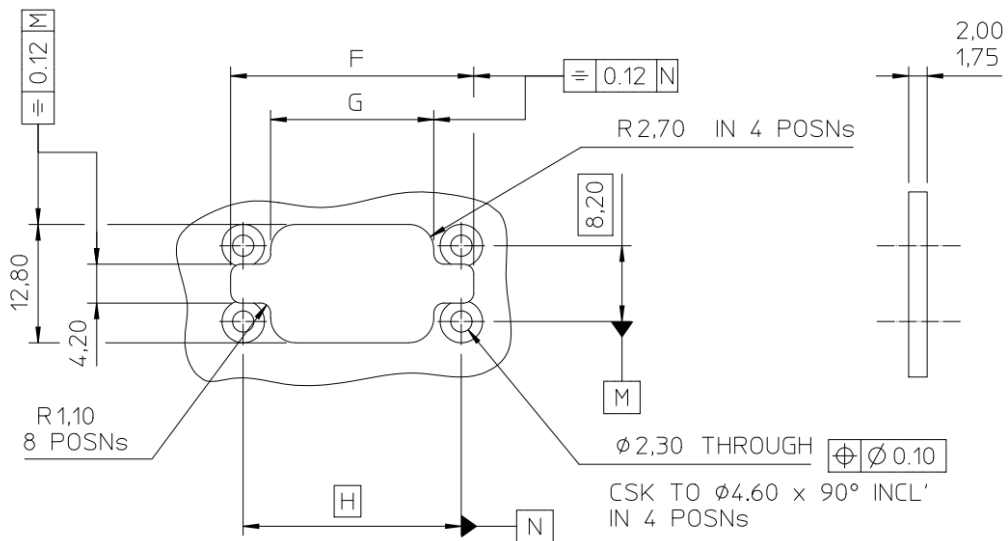
- Carefully secure assembled unit to bulkhead, using supplied fixing screws.
- Fixing: 1.3mm A/F hex drive, countersunk head, M2 x 12mm
- Tightening torque: 0.2Nm  $\pm$ 5%



### Recommended PCB footprint



### Recommended Panel cut-out



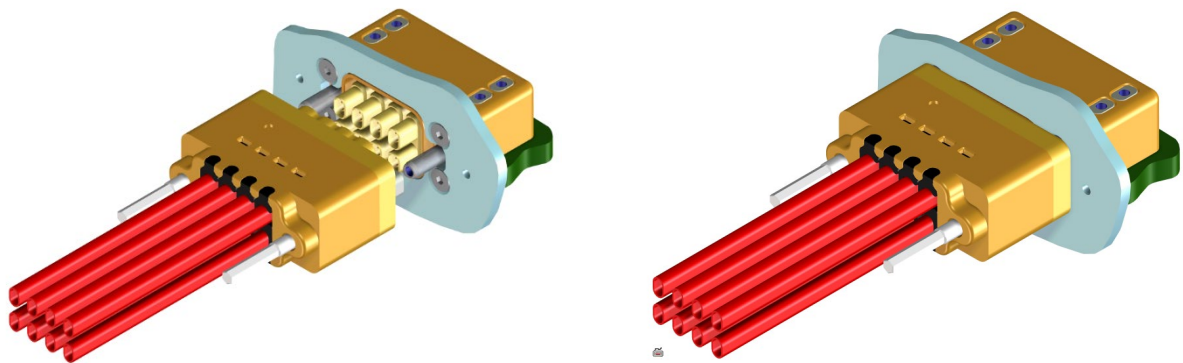
Number of ways	A	B	C	D	E	F	G	H
4	23.6	29.1	22.1	3x3.8 = 11.4	22.1	26.3	17.65	23.6
12	54.0	59.5	52.5	11x3.8 = 41.8	52.5	56.7	48.05	54

## NXS Plug

- For assembly of Cables to Plug, please refer to Smiths Interconnect data sheet: "SINT-NXS Series-Cable Fitting Guide.pdf"

## Receptacle/Plug Mated

- When mating Plug to Receptacle, Jackscrews are to be tightened to the following torque:
  - ▶ Fixing head: 2.0mm A/F
  - ▶ Tightening torque: 0.2Nm Max

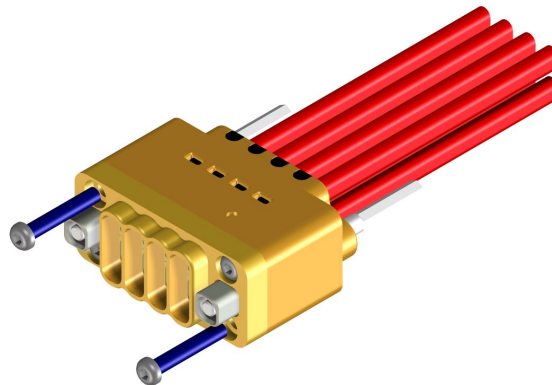


## Savers

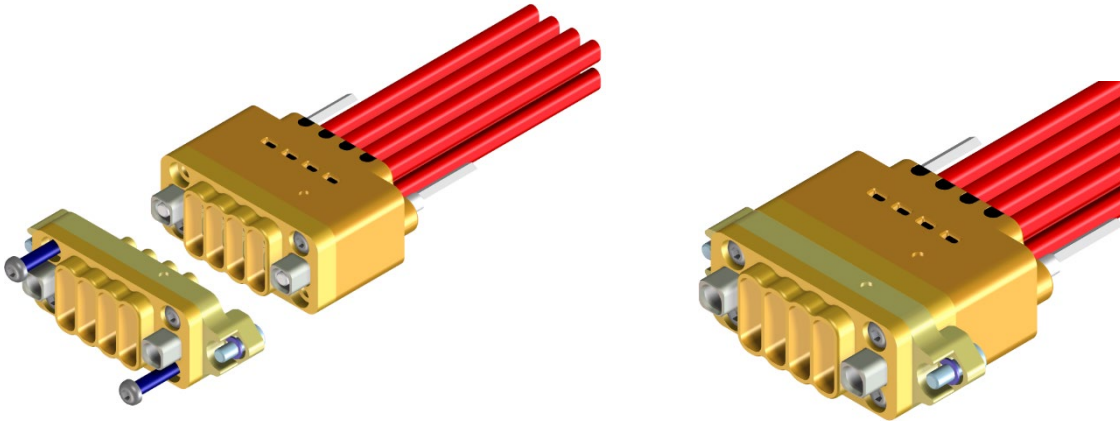
- Plug & Receptacle Savers are designed to be stackable in pairs between flight Receptacle and flight Plug or used independently between flight Receptacle and non-flight Plug or non-flight Receptacle and flight Plug.

## Plug-Saver

- Remove 2 fixings from Plug and retain, as detailed below, (tool: H611571)

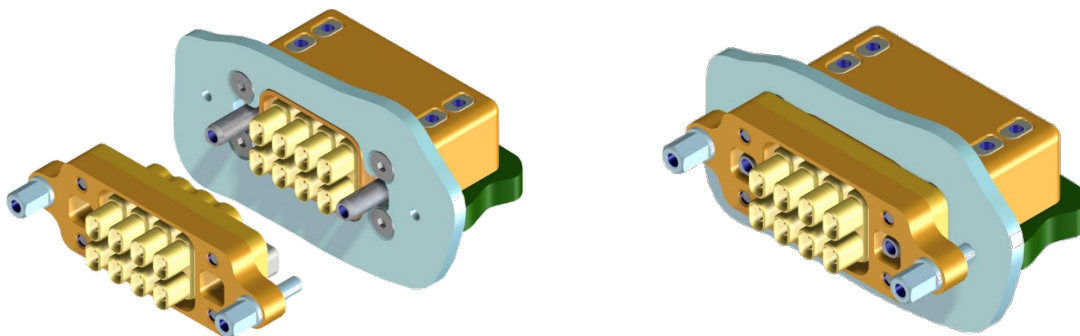


- Re-use the previously removed fixings, to attach Plug-Saver to Plug
- Fixing: 1.3mm A/F hex drive, (Tool: H611571)
- Tightening torque: 0.15Nm  $\pm$ 3%



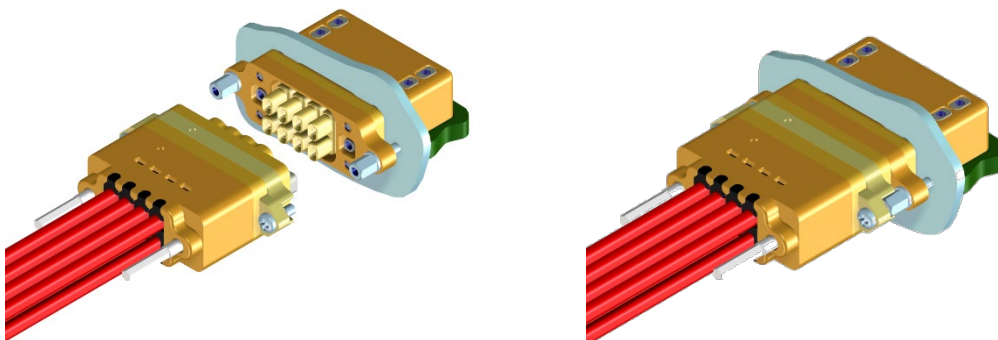
## Receptacle-Saver

- Saver is a push-fit onto Receptacle, secured to test-panel/bulkhead via M2 fixings,
- Fixing: 3.2mm A/F
- Tightening torque: 0.2Nm  $\pm$ 3%



## Saver-stacking

- Assembled Savers may be stacked:



## Cable Termination

- Please refer to Smiths Interconnect data sheet: HXS-7009
- Recommended cable (100 Ohm differential, 50 Ohm signal to shield)
  - ▶ WL GORE GSC-05-83111-00
  - ▶ TENSOLITE 540-1153-000
  - ▶ AXON AM526-A07