

D-sub connector keying system



Reduces misconnection risk and overall connector footprint

The Souriau space-grade D-sub series is a lightweight, miniature connector designed for space applications. The connector series is an established solution for launch vehicles, low-Earth-orbit (LEO) satellites and geosynchronous Earth orbit (GEO) applications. Connectors used in space undergo extreme stress during launch and need to be able to withstand extreme conditions while in use.

In space applications, there are often multiple different-sized connectors used in close proximity to one another. So, it is important to ensure these critical

compartments remain reliably connected at all times. And, because reducing the size and weight of space-grade connectors makes a significant impact in reducing the overall payload, there is a benefit to size reductions.

Traditionally, there have been very few options to avoid misconnecting critical components. Often connectors are simply turned from 90° to 180° to visually ensure the right connection is made. Sometimes a larger connector size is utilized without using all the contacts. These solutions don't help to minimize the size and weight of the connectors.

Here at Eaton, our keying system is an accessory that can be added to our D-sub connectors, allowing you to select the most efficient sized connector with the confidence that the correct connection will be made. Our keying system reduces the risk of misconnection by integrating one key of six positions on each mounting hole, providing 36 keying possibilities. On the equipment side, the female keying replaces the standard screw-lock, which allows the end-user/harness maker to use the male counterpart.

Key features

- Reduces the risk of misconnection
- Use same size connectors in close proximity
- Optional reconfigurable accessory
- Easy to use, drop-in design
- Fixing plate version can be used with existing connectors
- Female key acts like a female screw-lock
- Can be used with most backshells and accessories
- Space-grade production process

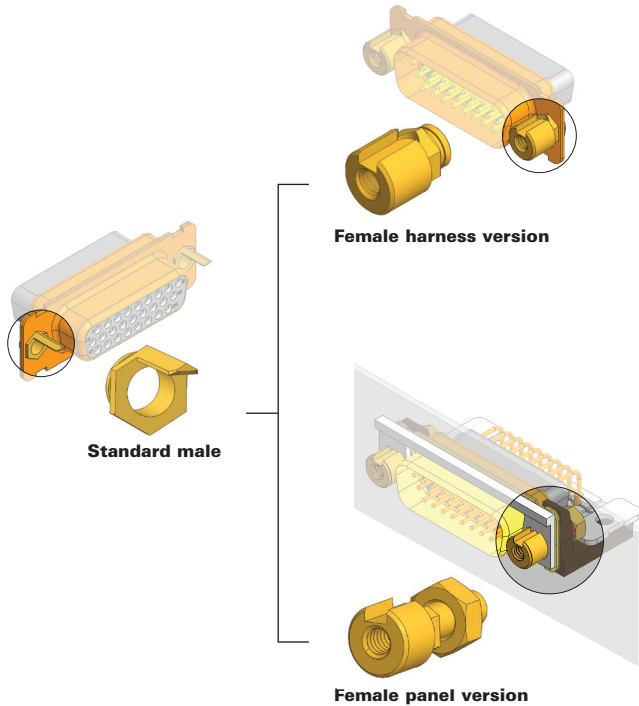


EATON

Powering Business Worldwide

On the equipment side, the female keying replaces the standard female screw-lock. It can be standardized on your equipment to offer the possibility to the end-user/harness maker to use the male counterpart.

Keying system accessory



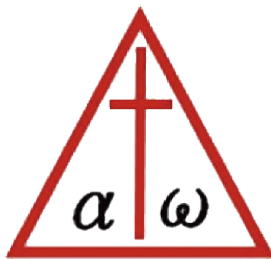
Technical specifications

- Six positions on each side = 36 keying possible
- The female key is also a female screw-lock
- Usable with standard male screw-lock
- With or without fixing plate
- Vibration levels are according to 3408.
- Based on the ESCC 3401/022
- Material brass with gold plating
- Fixing plate material is aluminum with nickel plating

Part number	Material	Souriau (engineering models)
Male		
Standard	Brass	8949 P 401 NM
Version with fixing plate	Brass	8949 PF 403 NM
Female		
Harness version	Brass	8949 S 402 NM
Harness version with fixing plate	Brass	8949 SF 404 NM
Panel version thickness 1	Brass	8949 SF 406 NM
Panel version thickness 2	Brass	8949 SF 408 NM
For savers	Brass	8949 SF 420 NM

Availability:

Keying accessories > January 2023
Contact us for samples before
D-Sub series without fixing plate:
Size B > January 2023
Other sizes > April 2023



佳昭企業有限公司
NEARSON ENTERPRISE CORP.

• TEL:886-2-2957-9823 • FAX:886-2-2957-9712
• <http://www.nearson.com.tw>

Eaton.com/space

For more information contact us:
www.eaton.com/interconnect-support

© 2022 Eaton
All Rights Reserved
Printed in France
Document No. DS700-1
October 2022

For further information,
please visit:

