

**>> BRAZIL**  
**AXON' CABLE INDUSTRIA**  
**E COMÉRCIO LTDA**  
RIO DE JANEIRO  
TEL.: +55 21 3596-8002  
e-mail: salesbrazil@axon-cable.com

**>> CANADA**  
**AXON' CABLE CANADIAN OFFICE**  
MONTREAL, QUEBEC  
TEL.: +1 514 898 2044  
e-mail: sales@axoncable.com

**>> CHINA**  
**AXON' INTERCONNECT LTD**  
SHUNDE, GUANGDONG  
TEL.: +86 757 2838 7200  
e-mail: sales@axon-interconnect.com

**>> GERMANY**  
**AXON' KABEL GMBH**  
LEONBERG  
TEL.: +49 7152-97992-0  
e-mail: sales@axon-cable.de

**>> HUNGARY**  
**AXON' KÁBELGYÁRTÓ KFT.**  
KECSKEMÉT  
TEL.: +36 76 508 195  
e-mail: axon@axon-cable.hu

**>> INDIA**  
**AXON' INTERCONNECTORS & WIRES**  
**PVT LTD**  
BANGALORE  
TEL.: +91 (0) 806 816 2966  
e-mail: sales@axon-cable.in

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**DHRUV AXON' INTERCONNECT**  
**PRIVATE LTD**  
BANGALORE

**>> JAPAN**  
**AXON' CABLE JAPAN OFFICE**  
NAGANO  
TEL./FAX: +81 26 217 6728  
e-mail: axon-japan@axon-cable.com

**>> LATVIA**  
**AXON' CABLE SIA**  
DAUGAVPILS  
TEL.: +371 6540 78 91  
e-mail: axon@axoncable.lv

**>> MEXICO**  
**AXON' INTERCONEX, S.A. DE C.V.**  
QUERÉTARO  
TEL.: +52 442 215 2713  
e-mail: axon-mexico@axoncable.com.mx

**>> SINGAPORE**  
**AXON' CONNECT PTE LTD**  
SINGAPORE  
TEL.: +65 6250 3169  
e-mail: sales.singapore@axon-cable.com

**>> SPAIN**  
**AXON' CABLE SPANISH OFFICE**  
MADRID  
TEL.: +34 911 309 123  
e-mail: sales@axon-cable.com

**>> UNITED KINGDOM**  
**AXON' CABLE LTD**  
DUNFERMLINE  
TEL.: +44 1383 421500  
e-mail: sales@axon-cable.co.uk

**>> USA**  
**AXON' CABLE INC.**  
SCHAUMBURG  
TEL.: +1 847 230 7800  
e-mail: sales@axoncable.com

## HEADQUARTERS: FRANCE

**AXON' CABLE S.A.S.**  
2 ROUTE DE CHALONS EN CHAMPAGNE  
51210 MONTMIRAIL  
TEL.: +33 3 26 81 70 00  
sales@axon-cable.com



VISIT OUR WEBSITE

[www.axon-cable.com](http://www.axon-cable.com)

**axon'**  
cables & connectors

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# Versatys®

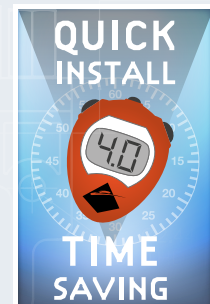
## outbests D-Sub connectors



± 0.13 (1.215 ± .005)

(1.051) MAX

AWG 25



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Ultra-fast connection,  
modularity, weight and space  
saving all in a tiny parcel! This  
is what the new range of Axon's  
Versatys® power connectors  
offers. Derived from Micro-D  
technology,  
these miniature connectors can  
be mated and  
locked in place without  
any tooling and all in a single  
click. The time saving  
is clear ! Available in both  
aeromil and space  
versions, this is  
the ideal solution  
to supply electrical  
and electronic devices for  
satellites and aircraft.



AERONAUTICS



SPACE

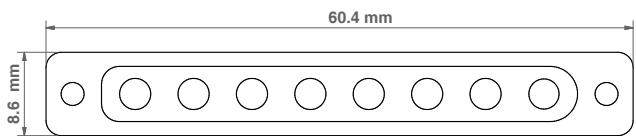
# VERSATYS® OUTBESTS D-SUB CONNECTORS

## Why is Versatys® better than a D-Sub ?

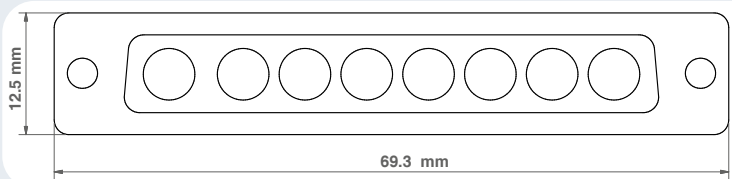
Compared with power D-Sub, Versatys® connectors deliver substantial space and weight savings while achieving the same overall performance.

- You can mate and lock up to 15 Versatys® connectors inside a minute with the D-Click® fast-locking system (compared to 1 D-Sub in over 2 minutes)
- 40 % smaller than D-Sub connectors
- 40 % lighter than D-Sub connectors
- Best RF performances at 40 GHz
- ATOX and radiation resistant
- Cost-effective solution in terms of launch costs (space)
- Time saving during integration as no tooling required: cost-effective solution !
- Fast locking D-Click® system: one single click and the plug is connected and locked to the receptacle
- Components of the Versatys® connector including the shell, contacts and wires can all be ordered in kit form
- Easy maintenance: no need to change the whole connector when a line is damaged

### VERSATYS® - 8 WAYS



### D-SUB - 8 WAYS



| CHARACTERISTICS               | DISMOUNTABLE VERSATYS® 8 WAYS                                                               | D- SUB 8W8 8 WAYS                            | VERSATYS® VERSUS D-SUB®                                       |
|-------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------|
| SIZE                          | 60.4 mm * 8.6 mm                                                                            | 69.3 mm * 12.5 mm                            | 40 % smaller                                                  |
| MAX WEIGHT (SHELL + CONTACTS) | 16.6 g                                                                                      | 29.5 g                                       | 40 % lighter<br>US \$130 launching costs saved by connector * |
| DISMOUNTABILITY               | Easy and quick<br>No tooling required                                                       | Specific tooling needed                      | 2 seconds compared to > 1 minute                              |
| LOCKING                       | Fast locking-<br>just one click !                                                           | Jackscrew hardware<br>Torque driver required | Less than 4 seconds<br>with D-Click® system                   |
| POWER CONTACTS                |                                                                                             |                                              |                                                               |
| TEMPERATURE                   | -65°C / + 200°C<br>dismountable version<br>-65°C / +125°C<br>non-dismountable version & PCB | -55°C / +125°C                               | Greater temperature range                                     |
| CURRENT                       | 40A per contact,<br>20A after derating                                                      | 40A per contact,<br>20A after derating       | Same performance                                              |
| COAXIAL CONTACTS              |                                                                                             |                                              |                                                               |
| RF PERFORMANCES               | ROS 1.25 @ 40GHz                                                                            | ROS 1.4 @ 1 GHz                              | Higher performance                                            |

\* Launching cost for Ariane 6: US \$10/gram

## CONSTRUCTION & TECHNICAL CHARACTERISTICS

- According to ESCC 3401/092 - 093 - 094
- Based on Micro-D connector technology (MIL-DTL-83513 and ESCC3401/029)
- A large number of combinations with power contacts
  - plug or receptacle shells,
  - pigtails and PCB versions (CBR/BS)
- Dismountable or potted versions, depending on the application
- Fast locking or standard hardware, depending on the application
- Connectors available in 4 or 8 ways - other ways on request
- Power contacts:
  - Size 12 power contact compatible with 12AWG, 14AWG, 16AWG wires (ESCC, MIL standard)
  - Size 16 power contact, compatible with 16AWG, 18AWG, 20AWG wires (ESCC, MIL standard) - please contact us
- Size 12 coax contact compatible with axowave® coaxial cables (X25SK/A086)
- Several versions available:
  - Space dismountable version: MMCSA reference
  - Space non dismountable version: MMCS reference
  - Aeromil dismountable version: MMCA reference
  - Aeromil non dismountable version: MMC version

- Vibration: 20 g
- Shocks: 50 g

Previously, the D-Sub represented the «best» approved rectangular on the market...  
...TODAY VERSATYS® «outbests» the BEST.

