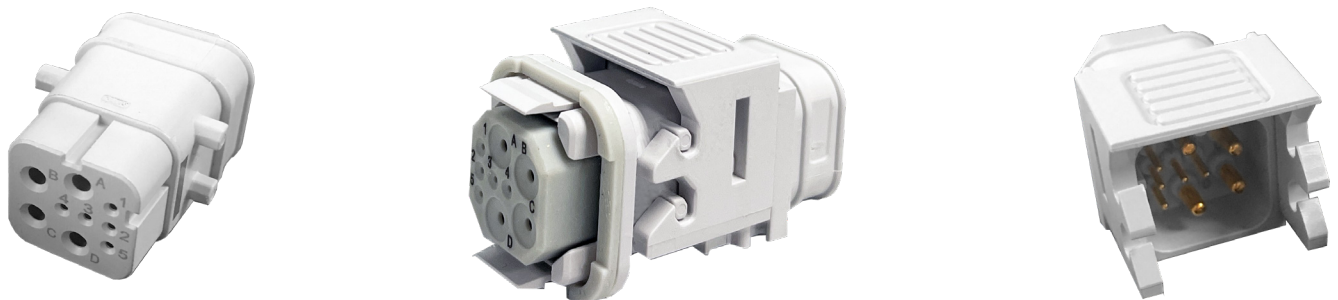




## Velok™

### A quick-mating connector ideal for medium power applications

Velok™ is a small, light-weight, and easy to use rectangular connector designed for low and medium power applications primarily used in aerospace and harsh environments. Its compact design allows for limited space access. Velok's spring-loaded latch makes mating/unmating a snap by simply pushing to lock/unlock connection. The push lock provides convenient single-handed and tool-less mating. Positive lock indicator allows visual confirmation that the connector is properly mated.



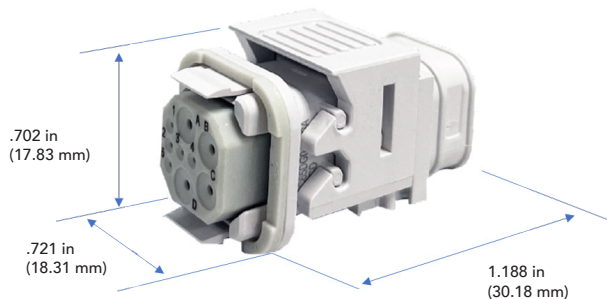
## Features & Benefits

Push/Pull Mating	Push-Mate and quick release reduce assembler fatigue
Scoop-Proof	Prevents contacts from being bent or electrically shorted during mating
Compact Rectangular Form Factor	Ideal where space is limited
Positive Lock Indicator	Easy for assembler to see connector is fully mated
Polyetherimide Housing (Ultem)	Wide operating range and chemical resistance
Multiple Keying Positions	Reducing operator errors or mis-mating
Boot Ridge	Integrated feature for tying off protective sheathing w/o adding backshells or saddle clamps

## Materials & Specifications

Item	Specification
Materials	Connector Thermoplastic Material Mechanism: Polyetherimide Grommet & Face Seal: Silicone Rubber Contact Retainer: Stainless Steel Mounting Cradle: PA 6/6 Latching Mechanism: PEI
Contact Insertion & Removal Force	Size 23: ≥ 10 LBF (EIA-364-05) Size 16: ≥ 15 LBF (EIA-364-05)
Connector Coupling & Decoupling Force	Mating: ≥ 10 LBF (EIA-364-13 Method A) Unmating: ≥ 8 LBF (EIA-364-13 Method A)
Insulation Resistance	≥5000 MΩ at 500 VDC (EIA-364-21)
Dielectric Withstanding Voltage	Size 23: 1300 VRMS (EIA-364-20 Test Condition I) Size 16: 1500 VRMS (EIA-364-20 Test Condition I)
Dielectric Withstanding Voltage (25,000 FT)	Size 23 and 16: 1000 VRMS (EIA-364-20 Test Condition III and IV)
Mechanical Durability	100 Mating Cycles Minimum (EIA-364-09)
Altitude Immersion	5,000 FT (EIA-364-03)

Item	Specification
Thermal Shock	Connectors: Test (EIA-364-32) Condition IV, 150°C to -55°C Cradle: Test Condition I, 100°C to -55°C (EIA-364-32)
Temperature Life	Method A, 1000 hours at 150°C (EIA-364-017)
Mechanical Shock	50g @ 11ms half-sine profile (EIA-364-27) Test Condition A
Humidity	10 cycles @ -10C -65C in 85%-95% RH for 24 hours; EIA-364-31, Method IV, with Cold Shocks
Salt Spray	48 hrs.; Tested to EIA-364-26, Condition B
Contact Retention	Size 23: 9.1 LBF (EIA-364-21) Size 16: 25.1 LBF (EIA-364-21)
Fluid Resistance	Isopropyl Alcohol (EIA-364-10) Methyl Propyl Ketone (EIA-364-10) Alkaline Detergent (EIA-364-10) Skydrol (EIA-364-10) DOW Frost 60 Heat Transfer Fluid (EIA-364-10)
Seal Rating	IP69K



## Insert Arrangements

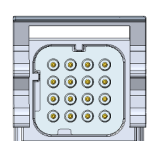
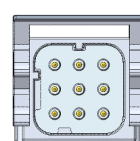
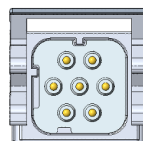
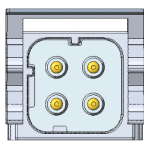
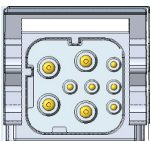
4 - Size 16  
5 - Size 23

4 - Size 16

7 - Size 20

9 - Size 23

16 - Size 23



\* Contact factory for custom materials, finish and insert arrangements.