



NASA's STEREO  
(Solar TERrestrial RELations Observatory),  
artist's concept

 SuperNine®

# Blind-Mate Connectors

## Rack-and-Panel Sealed, Assisted Kick-off and Feed-Through Blind-Mate to D38999

Blind-mate, fixed and float-mount interconnects for non-ITAR commercial as well as military/defense applications

**Application:** Glenair Series 253 blind-mate connectors are designed for use in commercial rack-and-panel instrumentation applications, satellite deployment, scientific payloads, interstage, UAV, and munitions release, and more.

- Available in most symmetrical MIL-STD-1560 insert arrangements with contacts sizes from #23 to #8
- Selected materials offer low outgassing properties and high resistance to both corrosion and stress corrosion cracking
- NASA outgassing bake-out process available
- Designed to withstand the rigors of launch and flight—including shock, vibration, thermal vacuum, acceleration, and temperature extremes
- Standard accessory threads and teeth per MIL-DTL-38999 accommodate a wide range of backshell accessories
- Crimp-removable contacts standard. PC tails, dual-flange standoffs, hermetically sealed, and custom blind-mate configurations available

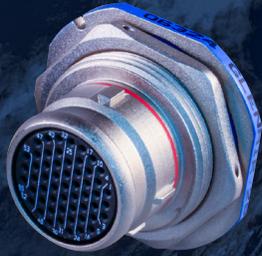


SPACE-GRADE BLIND MATE

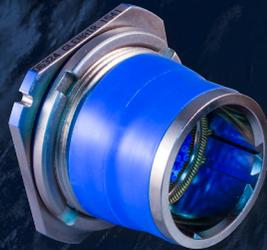


# Float-mount and adjustable separation force connectors MIL-DTL-38999 Series III type, environmental, crimp contact

## CRITICAL MECHANICAL FEATURES OF BLIND-MATE AND ADJUSTABLE SEPARATION FORCE (ZEF) CONNECTORS



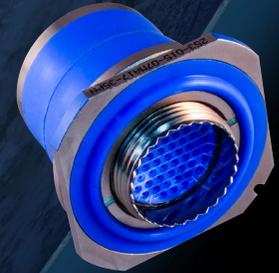
**Roll-off nose:** allows for the smooth disconnection of blind mate plugs and receptacles.



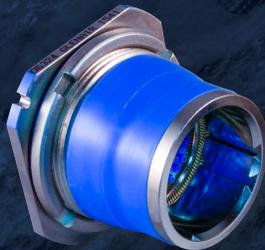
**Float mounting:** allows for coplanar movement of the receptacle during mating, preventing contact and shell damage.



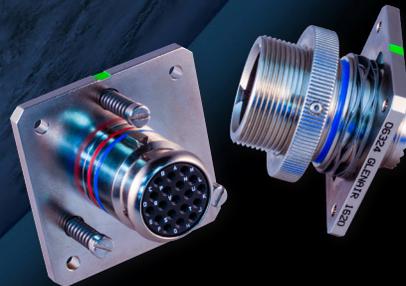
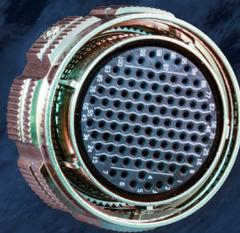
**Misalignment accommodation:** Radial, axial, and angular misalignment during mating is accounted for with integral wave springs.



**Sealing:** Misalignment accommodation makes environmental sealing difficult. The problem is solved with auxiliary external seals.



**EMI shielding:** Glenair incorporates ground springs in receptacle connectors and grounding fingers in special coupling nut-equipped plugs to optimize 360° shell-to-shell continuity.



**Assisted separation force:** Adjustable kick-off style with spring-loaded posts and an adjustment ring to calibrate separation force. A second style uses wave springs on the shell body.



### Available non-ITAR environmental blind-mate and adjustable separation force solutions

Basic Part No.	Description	Mates With
<a href="#">253-014</a>	Fixed jam-nut mount plug with roll-on/roll-off nose and accessory threads	<a href="#">253-015</a>
<a href="#">253-015</a>	Floating jam-nut mount receptacle with misalignment accommodation and optional sealing	<a href="#">253-014</a>
<a href="#">253-016</a>	Fixed wall mount plug with spring assist (zero separation force)	<a href="#">253-017</a>
<a href="#">253-017</a>	Floating wall mount receptacle with adjustable separation force and misalignment accommodation	<a href="#">253-016</a>
<a href="#">253-018-07</a>	Blind-mate feed-thru, jam-nut mount plug with B-side D38999 type receptacle mating interface and assisted kick-off (spring force)	<a href="#">253-019</a>
<a href="#">253-018-G6</a>	Blind-mate in-line feed-thru with B-side D38999 type plug mating interface and assisted kick-off (spring force)	<a href="#">253-019</a>
<a href="#">253-019</a>	Floating jam-nut mount receptacle with misalignment accommodation and optional sealing	<a href="#">253-018</a>
<a href="#">253-031</a>	Blind-mate jam-nut mount plug with kick-off spring and accessory threads	<a href="#">253-032</a>
<a href="#">253-032</a>	Floating jam-nut mount receptacle with misalignment accommodation	<a href="#">253-031</a>
<a href="#">253-033</a>	Float mount feed-thru, jam nut mount receptacle to 38999 type Series III plug mating interface	<a href="#">253-019</a>
<a href="#">253-025</a>	Locking circuit and test mate connector	<a href="#">253-016</a>
<a href="#">253-022</a>	Fixed jam-nut mount blind-mate receptacle with roll-on/roll-off nose for rack and panel applications	<a href="#">253-015</a>