

# Space-grade, blind-mate connectors

## 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. Without this feature, connectors can catch or hang during mate and demate.



**Float mounting:** allows for a modicum of coplanar movement of the receptacle during rack-and-panel and other blind mate applications, preventing both contact and shell damage.



**Misalignment accommodation:** Additional radial, axial, and angular misalignment during mating is accounted for in the receptacle design with integral wave springs.



**Sealing:** Misalignment accommodation makes environmental sealing difficult in blind-mate connectors. The problem is solved with auxiliary external seals.



**EMI shielding:** Glenair incorporates ground springs in receptacle connectors as well as grounding fingers in special coupling nut-equipped plugs (253-018-G6 feed-thru shown) to optimize 360° shell-to-shell continuity.



**Assisted separation force:** Glenair supplies two styles of spring-loaded blind-mate connectors. **Adjustable kick-off styles** feature spring-loaded posts on the plug and an adjustment ring on the receptacle used 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>