

CRITICAL MECHANICAL FEATURES OF BLIND-MATE AND ADJUSTABLE SEPARATION FORCE (ZEF) FLOAT RECEPTACLE AND FIXED MOUNT PLUG 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.



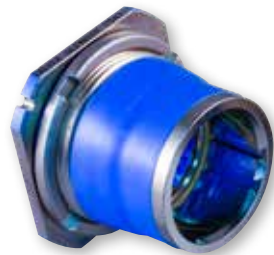
Float mounting: allows for a modicum of coplanar movement of the receptacle during rack-and-panel and other blind mate applications, preventing both contact and shell damage.



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, high-speed blind-mate and adjustable separation force solutions		
Basic Part No.	Description	Mates With
253-044	Fixed jam-nut and square flange mount plug with roll-on/roll-off nose and accessory threads	253-045
253-045	Floating jam-nut and square flange mount receptacle with misalignment accommodation and optional sealing	253-044
253-047	Fixed wall mount plug with spring assist (zero separation force)	253-048
253-048	Floating wall mount receptacle with adjustable separation force and misalignment accommodation	253-047