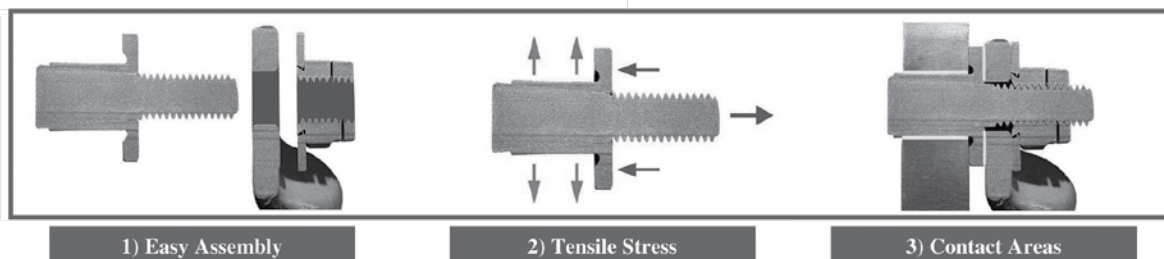


Glenair Earth Bonding System Typical Performance Values



Principle of the Earth Bond



Electrical Performance: Aluminium Plate

Part Number	80958 - M6	80959 - M10	80960 - M6	80961-M10
Electrical resistance measured at a point between the terminal lug (copper tin plated) and the aluminium plate	60 micro ohms T = 2 mm	50 micro ohms T = 2 mm	60 micro ohms T = 4 mm	20 micro ohms T = 4 mm
Withstand short circuit test - 3 passes of high intensity current with no degradation of the connection	10 Ka	20 Ka	10 Ka	20 Ka
Corrosion Test: 500 hours	90 micro ohms T = 2 mm	50 micro ohms T = 4 mm	-	-

T = Plate Thickness

Mechanical Performance: Aluminium Plate

Part Number	80958-M6	80959-M10	80960-M6	80961-M10
Tensile force applied to the dowel or threaded stud to remove earth bond from the plate	250 daN T = 2 mm	200 daN T = 2 mm	300 daN T = 4 mm	500 daN T = 4 mm
Bending moment (IEC60068-2-21). Force applied at a point 5 mm from the end of the thread	34 daN T = 1.5 mm	100 daN T = 2 mm	200 daN T = 4 mm	300 daN T = 4 mm
Pressure Seal: Pressure applied to both sides of bond for 2 hours with no leak between bush and plate	6 Bar	6 Bar	6 Bar	6 Bar

T = Plate Thickness

Mechanical Performance: Steel + Stainless Steel Plate

Part Number	80923-M6	80924-M10	80925-M6	80926-M10
Electrical resistance measured at a point between the terminal lug (copper tin plated) and the steel plate	25 micro ohms T = 2 mm	20 micro ohms T = 2 mm	25 micro ohms T = 4 mm	20 micro ohms T = 4 mm
Electrical resistance measured at a point between the terminal lug (copper tin plated) and the stainless steel plate	120 micro ohms T = 2 mm	70 micro ohms T = 2 mm	75 micro ohms T = 4 mm	60 micro ohms T = 4 mm
With stand short circuit test-3 passes of high intensity current with no degradation of the connection.	10 Ka	15 Ka	10 Ka	20 Ka
Corrosion test: 500 hours: 2 mm steel plate	30 micro ohms	25 micro ohms	-	-
On 2 mm stainless steel plate	150 micro ohms	90 micro ohms	-	-

T = Plate Thickness

Mechanical Performance: Steel + Stainless Steel Plate

Part Number	80923-M6	80924-M10	80925-M6	80926-M10
Tensile force applied to the dowel or threaded stud to remove earth bond from the plate	400 daN = 2 mm	500 daN T = 2 mm	500 daN T = 4 mm	800 daN T = 4 mm
Bending moment (IEC60068-2-21). Force applied at a point 5 mm from the end of the thread	100 daN T = 1.5 mm	190 daN T = 2 mm	200 daN T = 4 mm	330 daN T = 4 mm
Pressure seal: Pressure applied to both sides of bond for 2 hours with no leak between bond and plate	6 Bar	6 Bar	6 Bar	6 Bar

T = Plate Thickness