



LUMINUS

Luminus: Small, lightweight, low-cost circular solutions



Overview

Luminus are lightweight, cost-effective connectors that are highly reliable and simple to use. With multiple configurations and arrangements available, a solution can be tailored to suite your application's exact requirements. Proven solutions can be found in single engine general aviation, multiple-engine business and passenger jets, and high performance rotary aircraft.

Ideal where space is limited, these innovative, "scoop-proof" connectors feature a locking mechanism that ensures stability, are suitable for blind-mating, and are RoHS compliant.

Features & Benefits

1/4 turn bayonet style connection; push and snap connection	Makes wire installation/maintenance easy and efficient; positive "click" when locked	
Interfacial and Triple-Barrier Seal	Enables environmental sealing (IP 67 rating)	
Multiple Keying Positions	Ensures proper connectivity	
Multiple Configurations and Accessories	Tailored solutions to meet application needs	
Contacts	AS39029 MIL Spec contacts for broad application compatibility. Stamped & Formed available as lower cost option	
Visual markings	Visual aid for easy assembly	
Rugged Polyamide Housings; 500 mating cycles	Durability	
Blind-Mate Connection	Enables simple, blind mating; easy assembly	
D160, M81714, FAR25 Compliance	Meets demanding military-aerospace environmental conditions	

25 lbs

30 lbs

size 16

size 12

Materials & Specifications

Materials	Insulator Body: Polyamide 6/6 (Nylon)		Lubricating Oil per Mil-Prf-78	308
	Grommet & Face Seal: Silicone Rubber		Cleaning Compound per Mil-Prf-87937, Alkaline	
	Contact Retainer: Stainless Steel		Isopropyl Alcohol & Mineral Spirit Solution	
Temperature Range	-65°C to 125°C	Fluid Immersion	Skydrol Hydraulic Fluid	
Temperature Life	500 hours @ 85°C		Hydraulic Fluids per MIL-PRF-83282 MIL-PRF-87257	
Insulation Resistance	5000 MΩ Min. @ 500 VDC		Ethylene Glycol	
Dielectric Withstanding	1500 VAC, 60 Hz @ Sea Level, 1ma		Propylene Glycol	
	300 VAC, 60 Hz @ 70,000 ft, 2ma		Aviation Jet A	
Durability	500 mating cycles	Flammability	UL94, V0.	
Temperature Cycling	5(1) Hour Cycles: -65°C to 125°C		DOTG section 26.6.2 & 26.6.3	
Thermal Shock	-65°C to 200°C		FAR Part 25 App F Part I	
Vibration	30G Sinusoidal; 43.96G Random	Contact Insertion & Removal Force (not to exceed)	size 22	10
Shock	300G, 3msec, Half-Sine		size 20	10
Salt Spray	5% Salt Spray @ 95°C for 48 Hours		size 16	13
Humidity	10 Days @ 25°C to 65°C, 90% - 95% RH		size 12	15
Seal Rating	IP67		size 22	10
RoHS & REACH Compliance	Yes			
		Contact Retention	size 20	15
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(minimum)