

Amphenol

Medium Density Circular Environmental Connectors with Butt Contacts

164GB Series



164GB Series Connectors have 6 fixed butt connectors with solder bucket terminations and high endurance ball bearing couplings.

The connectors are capable of up to 3,000 engagements and separations without any degradation in performance.

The range includes cable to cable, cable to panel, and unit to panel connector styles, all fitted with self-cleaning spring loaded butt contacts.

Mating is by means of three-recessed “J” bayonet slots, offset to prevent mismatching on the male shells and three positional matching spring-loaded ball bearings on the female shell. In addition, the unit to panel styles can be fitted with a heavy-duty shroud which provides increased mating protection.

Shell material is stainless steel with a sandblasted passivated finish.

The free plugs have black anodised back fittings and stainless steel cable support springs.

Technical Specification

Materials

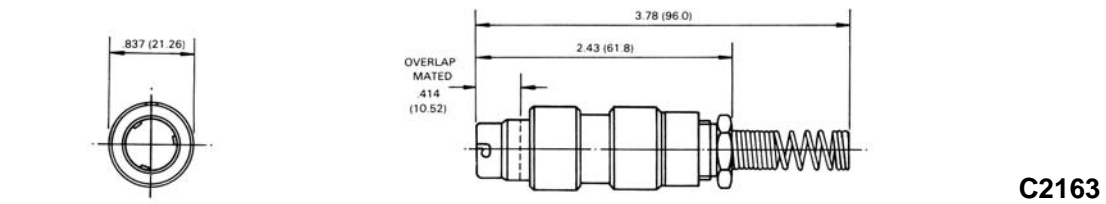
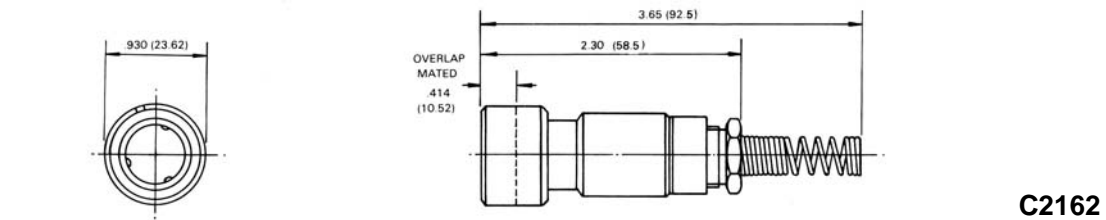
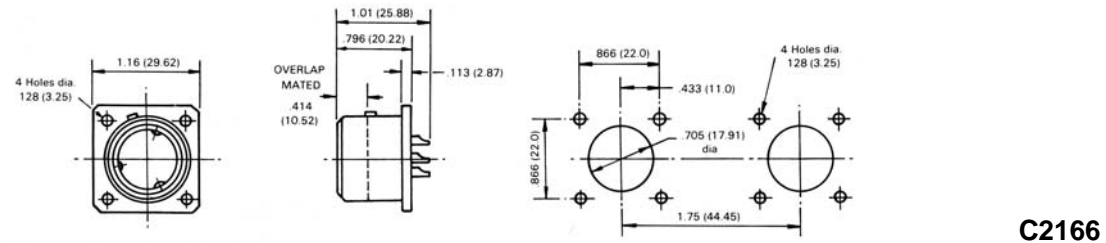
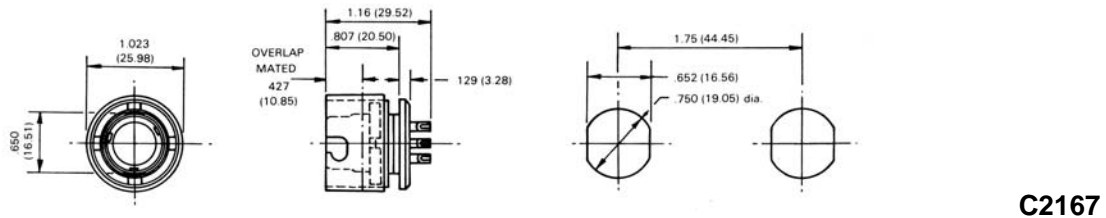
Shell: Stainless Steel sandblasted and passivated finish
Cable Support Springs: Stainless Steel with black finish
Back Fittings: Aluminium hard black anodised
Mechanical Endurance: Up to 3000 operations
Operating Temperature: -40 to +90°C

Electrical

Max Working Voltage: 200 V D.C. or A.C. peak at sea level, 1500V D.C or A.C. peak at 8500 mtrs
Current Rating @ 85°C: 0.5 Amp (all contacts used simultaneously)
Contact Resistance: 50mΩ max. at 20mV D.C, 1mA
 100mΩ after 3000 operations
Insulation Resistance: 5000M minimum exceeds 100M after climatic cycling

Ordering Code	Style/Reference No	Amphenol Drg. No.	Amphenol Description
BS9522 F0023	C. 2162 - 0	164GB - 0515	Free - Female Plug
BS9522 F0023	C. 2163 - 0	164GB - 0516	Free - Male Plug
BS9522 F0023	C. 2164 - 0	164GB - 0514	Fixed - Female Receptacle
BS9522 F0023	C. 2165 - 0	164GB - 0513	Fixed - Male Plug
BS9522 F0023	C. 2166 - 0	164GB - 0518	Fixed - Female - Heavy Duty
BS9522 F0023	C. 2167 - 0	164GB - 0519	Fixed - Male - Heavy Duty
BS9522 F0023	T. 2168	294GB - 0048	Panel Nut Spanner

Inches (mm)



BUTT CONNECTORS ARE ALSO AVAILABLE IN 8 WAY CIRCULAR AND 38 WAY RACK AND PANEL CONFIGURATIONS
 PLEASE CONTACT AMPHENOL FOR FURTHER DETAILS