CABLE MOUNTED PLUG 7007 SERIES
AVIONICS/MIL

Our 7007 is a two pole, four cable, avionics-grade, quick disconnect, cable-mounted plug and is designed to mate with our avionics-grade, bulkhead-mounted receptacles. The members of our avionics family of connectors conform to and are QPL'd to Mil Specs MS25182, MS3509, Mil-PRF-18148, Mil-E-18148, Mil-E-81099 and are available under Rebling's Cage Code 30525. Each connector undergoes an electrical resistance test prior to shipment, 100% of the attaching hardware is functionally tested, the connector's components are fully assembled, a unique serial number is attached to the connector as well as the individual container in which it is shipped and a list of all serial numbers for each shipment is included with the shipping documents. The 7007 has four side access cable openings for connecting two positive and two negative cables. It can also be used when only two cables are attached. The quick disconnect feature enables an operator, even with double-gloved hands, to rotate the handle clockwise to engage the connector and lock it in place then to rotate the handle counter-clockwise to disengage the electrical contacts and unlock the connector. Polarity markings on the outside and inside of the connector are clearly visible and the mechanical polarizing design prevents it from being mis-mated. All fastening and mechanical hardware components are made from stainless steel.

ELECTRICAL

Current
- ► Rated Current — 750 amp

Voltage
- ► Rated Voltage (volts, continuous) — 750
- ► Dielectric Withstanding Voltage — 2,500

Contact Resistance (Micro Ohms) — 60

MECHANICAL

Wire Size Range
- ► Minimum Wire Size — 8 AWG
- ► Maximum Wire Size — 4/0
- ► Maximum Cable OD (inches) — 0.90"
- ► Maximum Terminal Lug Tongue Width (inches) — 1.07"
- ► Maximum Terminal Lug Web Width (inches) — 0.40"

Environmental Sealing when mated
- ► With standard kit components — IP34
- ► With optional gasket, shrink tubing or boot accessories — IP56

Operating Temperature
- ► Minimum (ºC) — -85º
- ► Maximum (ºC) — 71º

Flammability Rating (per UL Standard #94) — V-0

Mechanical Shock — 50gs - 3 axes

Vibration — 10gs - 3 axes

Mating Cycles
- ► No Electrical Load (# mating cycles) — 5,000

Mating Force
- ► Maximum Mating or Unmating force after 10 matings (pounds) — 12
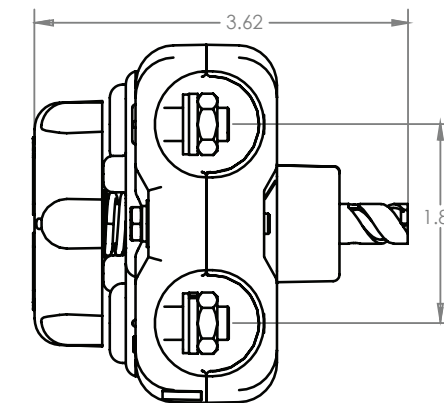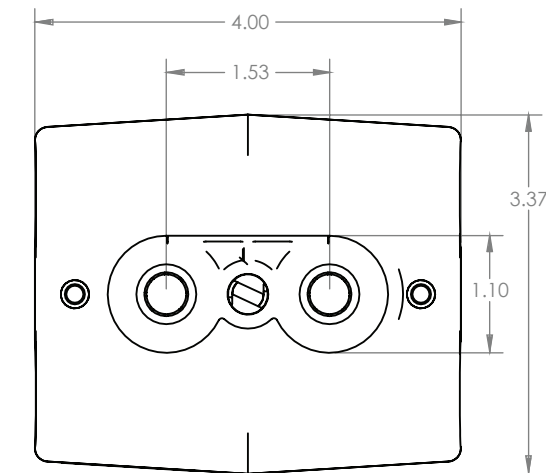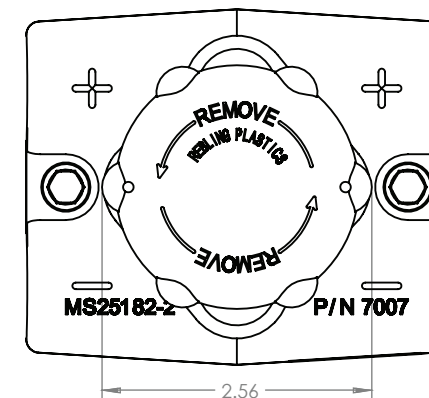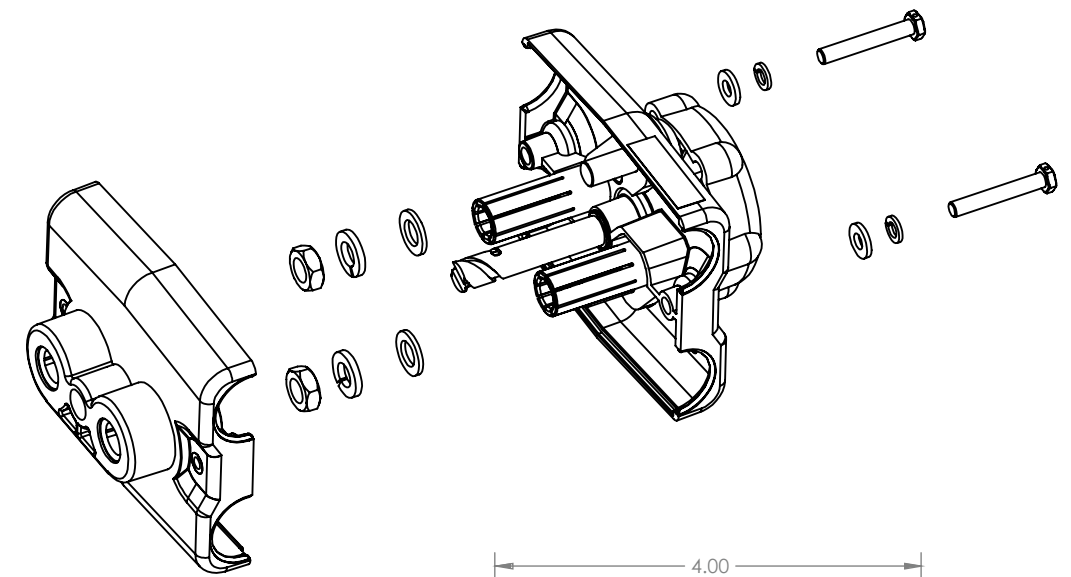- ► Maximum Mating or Unmating force after 5,000 matings (pounds) — 12

Assembly Instructions
- ► Recommended Torque on 5/16" Electrical Connection Nuts — 100 to 140 in-lbs
- ► Recommended Torque on 10-32 Backshell Bolts — 15 to 20 in-lbs

CERTIFICATIONS:

CERTIFIED FOR AVIONICS APPLICATIONS PER MILITARY STANDARDS #

- ► MIL PRF 18148-2
- ► MS 25182-2
- ► MIL E 81099

MS25182-2   P/N 7007

4.00
1.53
3.37
1.10
2.56

3.62
1.87

ORDERING INFORMATION

CONNECTOR
- ► 7007 (MS52182-2) Plug, 4 Wire, Round Handle, Black

ACCESSORIES
- ► 653A1659-0 Grommet (black rubber), accepts cable OD = .000 (solid plug)
- ► 653A1659-10 Grommet (black rubber), accepts cable OD = .625
- ► 653A1659-11 Grommet (black rubber), accepts cable OD = .688
- ► 653A1659-7 Grommet (black rubber), accepts cable OD = .438
- ► 653A1659-8 Grommet (black rubber), accepts cable OD = .500
- ► 653A1659-9 Grommet (black rubber), accepts cable OD = .563