

Abstract

ROTATING LOCK RING BOTTOM TENDON CONNECTOR

A tendon bottom connector assembly has a receptacle with a bore having an annular locking profile divided into segments by axially extending slots. The connector has a housing that inserts into and locks in the receptacle. The housing and receptacle have mating anti-rotation elements. The lock ring has an outer surface with an annular locking profile divided into segments by axially extending slots. The lock ring is carried by the housing initially in the installation position with its segments aligned with the slots of the receptacle. This position allows the housing to be fully inserted into the receptacle. An ROV then rotates the ring from the installation position to a locked position, with the segments of the lock ring engaging the segments of the receptacle. Alternately, a split ring with one end fixed rotates the lock ring.

Figure 1