Wire-to-Board Connector Features a Unique Double-Lock Design

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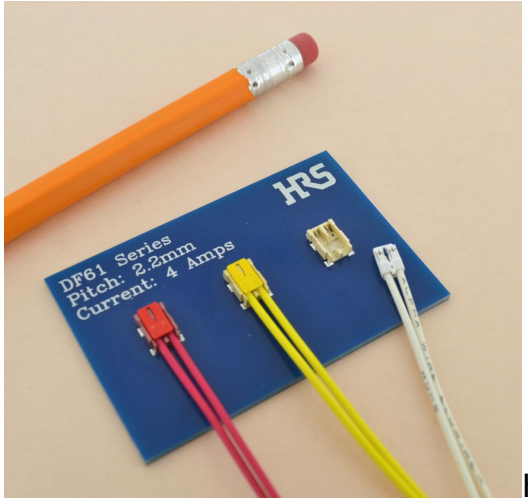

Hirose Electric has developed the DF61 Series, a low-profile double-locking wire-to-board connector with the capacity to handle up to 5 Amps and 350 Volts. The DF61 Series is a rugged, 2-position connector that features a unique “Swing Lock” design that utilizes a positive and friction lock together to deliver a cable pull force resistance of 10 N. The double-lock design makes this connector quick and easy to assemble and provides a clear tactile ‘click’ to confirm proper mating.

Hirose’s positive lock structure was designed to prevent the socket from disengaging when tension was placed on the cable. The catch on the housing engages the socket and allows the connection to endure up to 10 N of force when the cable is pulled up in the vertical direction. The housing provides support to the lance structure and together, they combine to produce a mated lance strength of 7 N to prevent the contacts from pulling loose during wiring. When the connection is initiated, the housing lance gets pushed up and this increases the surface area and helps to create the additional lance strength. The friction lock prevents the socket from floating after being mated, while molded in contacts prevent solder wicking.

For more information, visit: www.hirose.com [1].

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[1] http://www.hirose.com