



# Kirby Morgan Dive Systems, Inc.®

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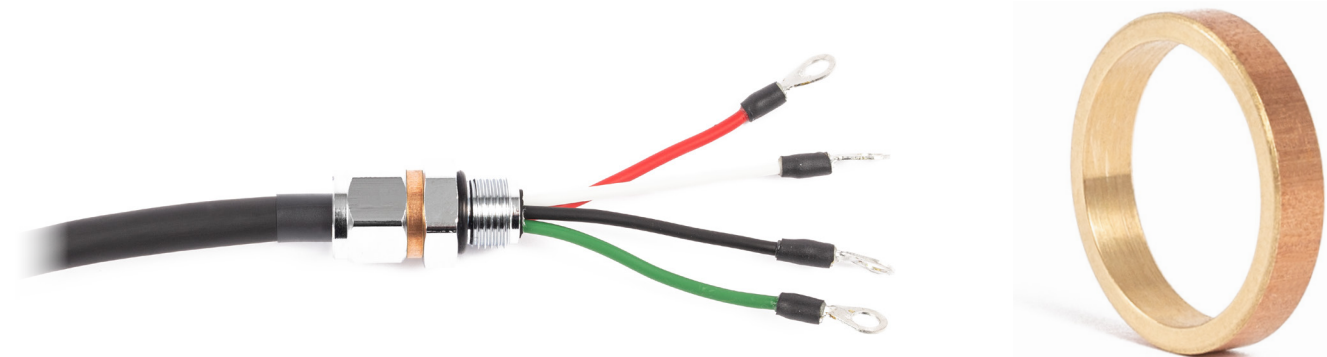
## **CHANGE TO PRODUCT BULLETIN**

**P/N 515-034 Spacer Washer Now on P/N 505-047 MWPC**

**Products Affected:** P/N 505-047 Male Waterproof Connector

Through field feedback, we have determined a potential risk of failure to the internal wires near the external packing nut and packing gland of our 515-045 Waterproof Connector. After investigating, it was discovered that overtightening the packing nut to the packing gland in the field was the cause of this. The potential problem stems from over-compression and distortion of the internal plastic ferrules that seal the outer jacket of the connector wire to the packing gland assembly. There is no specific call-out for torque between these components.

A measured distance (space) between the packing nut and packing gland hex will apply appropriate compression between all components and avoid wire damage by over-torquing. The correct distance between the nut and gland is 0.085 to 0.125 inch (2.15 to 3.17 mm). As an improvement, Kirby Morgan has begun installing P/N 515-034 spacer washer between the two main compression parts to simplify rebuilding these assemblies. These brass spacers (for compression resistance and visibility) have recently been applied to production units from Kirby Morgan, making it impossible to over-tighten the parts. Additional strain relief by adding heat shrink wrap in the packing area improves abrasion resistance and allows using a spacer washer thickness from 0.085" to 0.125" thickness (2.15 to 3.17 mm). All connectors shipped from KMDSI will include the heat shrink wrap.



*The new P/N 515-034 washer installed onto the P/N 505-047 Male Waterproof Connector, left and close-up detail of the washer, right.*

It should be noted that applying the dimensions given or re-using the spacer when rebuilding these assemblies applies **ONLY** to genuine KMDSI parts. Using a different brand/type of connector with the stated dimensions or spacer may or may not introduce similar problems. Use **ONLY** genuine Kirby Morgan parts.

Please contact your authorized KMDSI dealer or e-mail [sales@kirbymorgan.com](mailto:sales@kirbymorgan.com) for more information.

