

# **MIL-E-QUAL® FIRST MATE LAST BREAK CONTACT**

NEW PRODUCT BULLETIN C707

## **FEATURES & BENEFITS**

- First mate last break contact protects the electrical components around the connection
- Two contact sizes available: #12 size and #16 size standard
- Sturdy construction is IP-67 rated when overmolded
- Black thermoplastic with UV inhibitor for rugged outdoor applications

## APPLICATIONS

- Lighting fixtures
- Power transmission for alternative energy





# **CONXALL®**

A SWITCHCRAFT COMPANY



CONXALL • 601 E Wildwood • Villa Park, IL 60181 • 630-834-7504 Please visit conxall.com for the most up-to-date product specifications. Made in USA.

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## NEW PRODUCT BULLETIN C707

| <u>Conxall</u><br>Contact Style   |              | <u></u>                                   | <u>X 310XA 2</u>   | <u>xxxx xx</u>                           | x xxxx  |                 | eathertight Option adds<br>Ring for plug (3106A)   |
|---|--------------|---|--|--|---|-----------------|--|
| <b>S</b> - Solder<br><b>C</b> - Crimp   |              |   |  |  |   | Ela             | astomer Gasket for Receptacle. (3102A)   |
| Shell Typ   | e ———        |   |  |  |   |                 | ceptacle with (4) mounting hole<br>nforcements. Consult factory.   |
|   | e Receptacle |   |  |  |   | <b>310</b> - Sa | me as -010 except with Elastomer Gasket.   |
| In-Line with<br>Accessory Thread<br>3102A - Box Receptacle<br>3106A - Straight Plug | •            | I<br>Insert Number / Arrangement per 5015 |  |  |   | <b>320</b> - G  | ld plated contacts. (gold is optional)   |
|   | Receptacle   | 10SL-4<br>10SL-3<br>12S-3<br>14S-1        | <u>mber / Arrangement</u><br>16S-1<br>16S-8<br>16-10<br>18-1 | 18-19<br>20-7<br>20-16<br>20-27          |   | 30GX -          | Pin Insert Receptacle with ground pin.<br>"X" is the letter position of the extended<br>pin. Letter is left "Blank" for crimp contacts.<br>Standard plating, silver. |
|   |              | 14S-2<br>14S-5<br>14S-6<br>14S-7          | 18-4<br>18-8<br>18-10<br>18-11                               | 20-27<br>20-29<br>22-14<br>24-2<br>24-28 |   | 32GX -          | Pin Insert Receptacle with ground pin.<br>"X" is the letter position of the extended<br>pin. Letter is left "Blank" for crimp contacts.<br>Optional plating, gold.   |
|   |              | 14S-9                                     | 18-12  | 28-2<br>28-12<br>28-21                   | <u>No. &amp; Type of C</u><br><b>P</b> - Pin<br><b>S</b> - Socket | Contacts        |  |

## **SPECIFICATIONS**

#### **PRODUCT SPECIFICATIONS**

| Manufacturers ID | MIL-E-QUAL <sup>®</sup>       |
|------------------|-------------------------------|
| Description:     | Field Installable Connector & |
|                  | Custom Cable Assemblies       |
| Rating:          | 3.4 thru 23.0A, 600V DC       |
| Contact Sizes:   | #12 and #16 AWG               |
| Conductor Sizes: | #12AWG, #14AWG, #16AWG        |
|                  | #18AWG or #20AWG              |
| Configuration:   | Contacts per Mil-C-5015       |
| Certification:   | UL File E150822               |
|                  |                               |

#### **ELECTRICAL SPECIFICATIONS**

600V-AC for Shell Types 3101A and 3102A 500V-AC for Shell Type 3106A up to 28 positions 277V-AC for Shell Type 3106A from 29 or greater positions

#### **ENVIRONMENTAL SPECIFICATIONS**

| Operating Temperature: | -40 °C to +75 °C(-40°F to +167°F)         |
|------------------------|---|
| Corrosion:             | 48hr salt spray contacts (mated)          |
| Durability:            | 300 mate/unmate cycles minimum            |
| Weathertight:          | Consult factory with specific application |

NEMA 6P, 13: IEC IP67

## FACTORY MOLDED CABLE ASSEMBLIES

Watertight:

**NOTE** Gasket, O-Ring & Grommet materials are suitable for -40 °C to +75 °C(-40°F to +167°F). Consult factory for higher temperature requirements.

## MATERIAL SPECIFICATIONS

| Cable Pin/Socket:     |   |
|-----------------------|---|
| Mechanical Backshell: | Thermoplastic, UL Recognized, Black with UV Inhibitor<br>(Threaded) |
| Strap:                | Thermoplastic, UL Recognized, Black with UV Inhibitor               |
| Screws:               | Stainless Steel   |
| Grommet:              | Elastomer, Black  |
| Coupling Ring:        | Thermoplastic, UL Recognized, Black with UV Inhibitor               |
| Contacts:             | Copper Alloy, Standard Silver Plated,<br>Gold Plated Optional       |
| Connector Body:       | Thermoplastic, UL Recognized, Black with UV Inhibitor               |
| O-Ring:               | Elastomer   |
| Optional              |   |
| Connector Cap:        | Thermoplastic, UL Recognized, Black with UV Inhibitor               |
| Gold Contacts:        | Copper Alloy, Gold over Nickel                                      |
| Alternate Key         |   |
| Positions Available   |   |
| Box Receptacle        |   |
| Contacts:             | Copper Alloy, Standard Silver Plated,                               |
|                       | Gold Plated Optional  |
| Receptacle Body:      | Thermoplastic, UL Recognized, Black with UV Inhibitor               |
| Optional              |   |
| Receptacle Cap:       | Thermoplastic, UL Recognized, Black with UV Inhibitor               |
| Gasket:               | Elastomer, Black  |
| Gold Contacts:        | Copper Alloy, Gold over Nickel                                      |
| Extended Bosses       |   |
| Alternate Key         |   |
|                       |   |



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**Positions Available**