

## Quick Lock N (QLN) Series Connectors

### Product Facts

- Similar performance and applications to standard N Series
- Time saving and user friendly snap on/off mating
- Excellent performance to 6 GHz
- No torquing of connector required
- Free rotation of mated connection
- Higher packaging density can be achieved
- Fully compatible with Huber&Suhner and Radiall QN Series QLF® connectors\*



### Description

Snap-on version of the popular N Series connector

- Snap-on interface facilitates assembly
- Same dependable performance as standard N connector

### Applications

- Cellular & PCS Base Stations
- Broadcast equipment
- Telephony applications, WLAN
- Instrumentation and remote measuring equipment
- Mil Aero, SatCom, Radar

### Material and Finish

**Shell** — Brass, plated white bronze  
**Male Pin Center Contact** — Brass, plated gold  
**Female Socket Center Contact** — Beryllium copper, plated gold  
**Outer Contact** — Phosphor bronze, plated white bronze  
**Insulators** — PTFE or PFA

### Electrical Characteristics

**Characteristic Impedance** — 50 ohms  
**Frequency Range** — DC to 6 GHz  
**Voltage Standing Wave Ratio (VSWR)** — 1.12 max. DC to 3 GHz  
**Insertion Loss** — 0.15 dB max. DC to 3 GHz  
**Rated Voltage** — 1000 VAC rms, 50 Hz (at sea level)  
**Insulation Resistance** — 5000 megohms min.  
**Contact Resistance** — Center Contact — 1.5 milliohms max. Outer Contact — 1.5 milliohms max.

### Mechanical Characteristics

**Engagement Force** — 30 N typical  
**Disengagement Force** — 30 N typical  
**Interface Retention Force** — 450 N min.  
**Contact Captivation** — 28 N min.  
**Durability** — 100 cycles min.

### Environmental Characteristics

**Operating Temperature** — -40°C to +125°C (cable dependent)  
**Thermal Shock** — IEC 60169 para. 16.4  
**Corrosion** — MIL-STD-202, Method 101, Condition B  
**Vibration** — IEC-1169-1 para. 9.3.3 (10-500 Hz, 5g)  
**IP Rating for Interface** — IP68 (connector dependent)

### Related Product Data

**Internet** — <http://tycoelectronics.com/products/rfcoax>

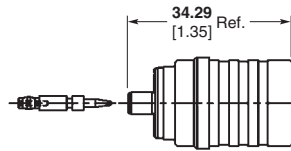
**Product Specification/Design Objectives** — 108-2281

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**Quick Lock N (QLN) Series Connectors** (Continued)

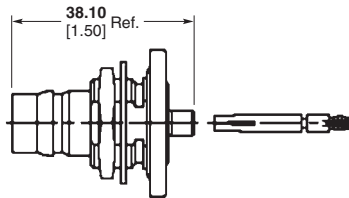
**Semi-Rigid Cable —  
Direct Solder Attachment**

**Straight Cable Plug**



Cable	Part No.
RG 402	1274805-1

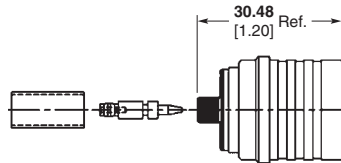
**Bulkhead Cable Jack**



Cable	Part No.
RG 402	1274806-1

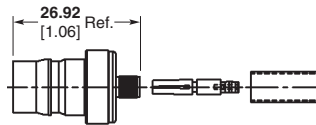
**Flexible Cable —  
Crimp Attachment**

**Straight Cable Plug**



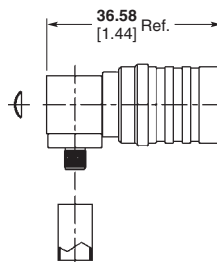
Cable	Part No.
RG 58	1274688-1
RG 142	1274688-2
LMR 240	1274688-3

**Straight Cable Jack**



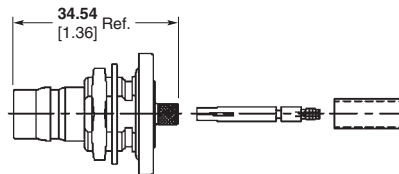
Cable	Part No.
RG 58	1274689-1
RG 142	1274689-2
LMR 240	1274689-3

**Right-Angle Cable Plug**



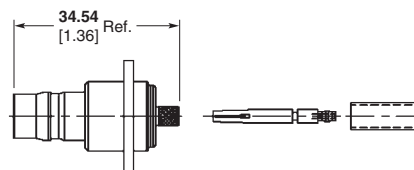
Cable	Part No.
RG 58	1274804-1
RG 142	1274804-2
LMR 240	1274804-3

**Bulkhead Cable Jack**



Cable	Part No.
RG 58	1274734-1
RG 142	1274734-2
LMR 240	1274734-3

**4-Hole Square Flange  
Cable Jack**



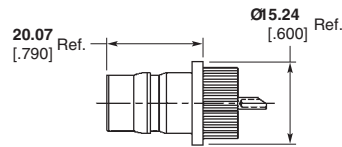
Cable	Part No.
RG 58	1274735-1
RG 142	1274735-2
LMR 240	1274735-3

**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

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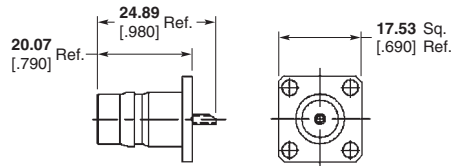
**Panel Mount Receptacles**

**Press-Fit Bulkhead Jack Receptacle — Solder Terminal**



<b>Part Number</b>
1274807-1

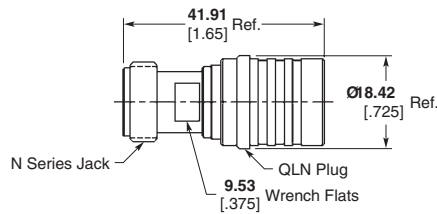
**4-Hole Flange Jack Receptacle — Solder Terminal**



<b>Part Number</b>
1274662-1

**Adapters — Between Series**

**QLN Plug to N Series Jack**



<b>Part Number</b>
1274808-1

**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.