

# QSL RF Connector System

## DESCRIPTION

### Coaxial Cable Insulation Displacement Interface

- Low profile
- Highly reliable ruggedized interface
- Surface mount technology
- Excellent price-to-performance ratio

## APPLICATIONS

- PCI, Mini PCI, PCI Express
- Mobile Antenna / GPS / Radio Systems
- PDA / PCS / Handheld applications
- Wireless Communications systems
- Satellite Communications, Broadcast, Multimedia
- Automotive Telematics
- WiFi, WiMAX
- Broadcast / Set Top Box

## KEY FEATURES

- Surface Mount Compatible
- RoHS Compliant [Lead-free SMT process (260° C) compatible]
- PCI / PCI Express Compatible
- Designed for RG 174 & RG 316 Cable
- Overall Height < 10 mm
- 3 port QSL footprint  
12.5 mm D x 17.5 mm W
- 10 mm x 10.6 mm max. footprint (w/o panel extension)
- IP67 compatible designs available upon request
- Platform expandable for multiple ports and configuration options

© Copyright 2007 by Tyco Electronics Corporation. All International Rights Reserved.

TE LOGO and TYCO ELECTRONICS are trademarks.

PCI and PCI Express are trademarks of PCI SIG

Other products, logos, and company names mentioned herein may be trademarks of their respective owners.

9-1773447-4 09/07

 **Tyco Electronics**

Our commitment. Your advantage.

## ELECTRICAL

	SINGLE PORT	THREE PORT
• Characteristic Impedance:	50 Ohms*	50 Ohms*
• Frequency Range:	DC — 6 GHz	DC — 6 GHz
• VSWR:		
DC — 3 GHz	1.32 max	1.3 max
3 — 6 GHz	1.42 max	1.45 max
• Insertion Loss:		
DC — 3 GHz	0.35 dB max	0.30 dB max
3 — 6 GHz	0.45 dB max	0.40 dB max
• Rated voltage:	60 VAC (rms)	60 VAC (rms)
• Rated Current Per Port:	5 A max	5 A max
• Diel. Withstanding Voltage: (50Hz for 1 min at sea level)	800 VAC	800 VAC
• Insulation Resistance:	100 Megohms min	100 Megohms min
• Contact Resistance:		
Center:	20 milliohms max	20 milliohms max
Outer:	20 milliohms max	20 milliohms max

\*75 Ohm available upon request

## MECHANICAL/ ENVIRONMENTAL

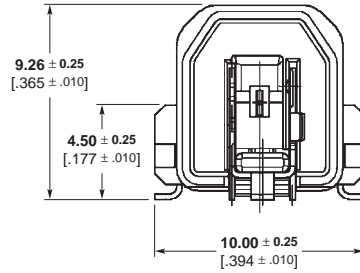
	SINGLE PORT	THREE PORT
• Engagement Force:	< 30 N	< 40 N
• Disengagement Force:	< 20 N	< 30 N
• Cable Retention:	> 89 N	> 110 N
• Operating Temperature:	- 40 to + 85°C	- 40 to + 85°C
• Durability:	250 cycles	500 cycles

## MATERIAL AND FINISH

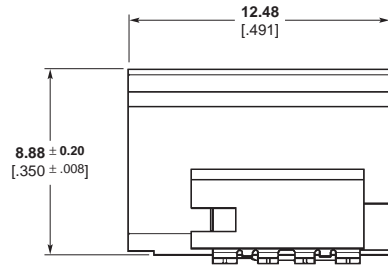
Part Description	Material	Finish
• Housing (Cable Plug)	PBT	Black, UL 94V-0
• Housing (Receptacle)	PCT/1 port, LCP/3 port	Black, UL 94V-0
• Hold Downs / Shell	Copper Alloy	Sn over Ni
• Shield & Strain Relief (Cable Plug)	Copper Alloy	Ag over Ni
• Shield (Recpt)	Copper Alloy	Ag over Ni
• Center Contact (Cable and recpt)	Copper Alloy	Au over Ni
• Insulator (Cable Plug)	PBT	Black UL 94HB

## PCB Receptacles

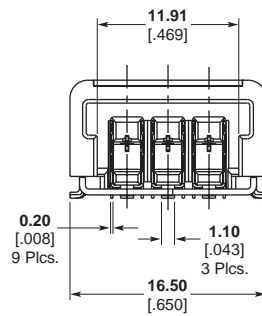
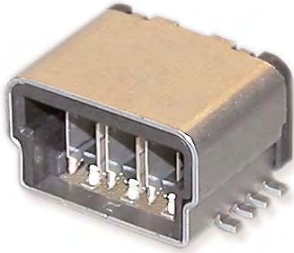
### Single Port Receptacle



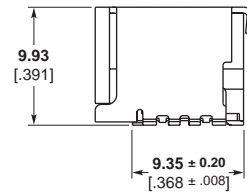
<b>Part Number</b>
1274794-1



### Three Port Receptacle



<b>Part Number</b>
1274736-1

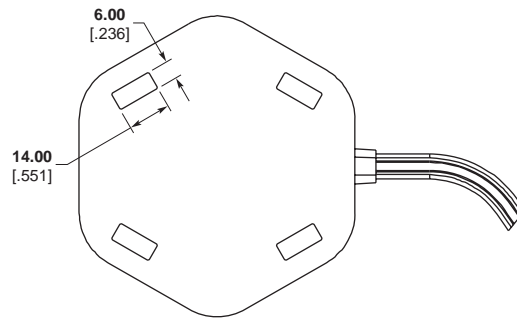
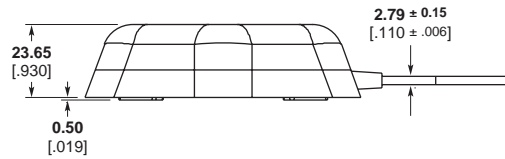
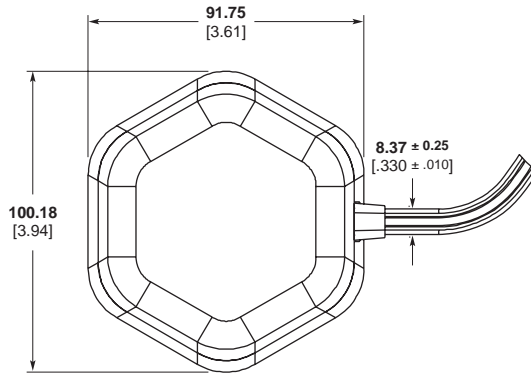


Dimensions are millimeters over inches unless otherwise specified.

## Antenna Module with 3 Port QSL Cable Plug



Part Number	Cable	Length	Antenna Type
1513712-1	RG-174	1.2 meters	MIMO/WiFi
1513711-1	RG-174	1.2 meters	MIMO/WiMAX



### FOR MORE INFORMATION

#### Technical Support Center

Phone: 1-800-522-6752

E-mail: [product.info@amp.com](mailto:product.info@amp.com)

#### Global Antenna Product Manager — Frank Basile

Mobile: 408-234-7737

E-mail: [fjb@tycoelectronics.com](mailto:fjb@tycoelectronics.com)

#### Global Antenna Engineering Manager —

#### Bruce Bishop

Phone: 831-662-1154

E-mail: [bbishop@tycoelectronics.com](mailto:bbishop@tycoelectronics.com)

Dimensions are millimeters over inches unless otherwise specified.

## QSL Jumper and Pigtail Cable Plug Assemblies

---

**QSL Single Port Jumper Cable Plug Assembly**



**QSL Single Port Pigtail Cable Plug Assembly**



**QSL Three Port Jumper Cable Plug Assembly**



**QSL Three Port Pigtail Cable Plug Assembly**



© Copyright 2007 by Tyco Electronics Corporation. All International Rights Reserved.  
TE LOGO and TYCO ELECTRONICS are trademarks.  
PCI and PCI Express are trademarks of PCI SIG  
Other products, logos, and company names mentioned herein may be trademarks of their respective owners.  
9-1773447-4 09/07