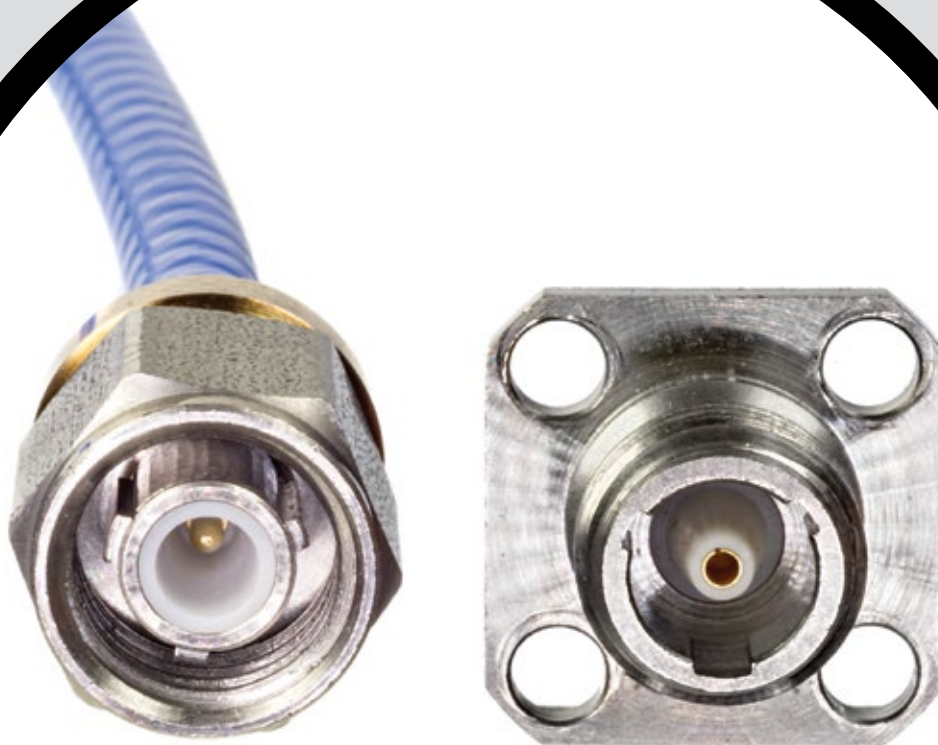


THE  
**PERFORMANCE LEADER**  
**IN MICROWAVE CONNECTORS**



**SMKey 3.7 mm DC to 18 GHz Keyed Coax Connectors**



**Failsafe Mating**

**Low VSWR**

**Low Insertion Loss**

**Low RF Leakage**

**High Temperature**

**Excellent Repeatability**

**Southwest Microwave, Inc.**

+1 (480) 783-0201 | [www.southwestmicrowave.com](http://www.southwestmicrowave.com)

This new range of high-security keyed coax connectors provides a failsafe mating solution for critical connections between mated connector pairs. SMKey connectors are offered in 10 keyed combinations, each with uniquely polarized key positions. Each connector also includes one non-keyed (Universal) option. By assigning differing key positions for mating pairs within a set, SMKey eliminates the risk of interconnect mismatch, ensuring reliable protection against the potential for operator error and preventing devastating results in connection-critical applications.

## SPECIFICATIONS

### ELECTRICAL: FLANGE MOUNT CONNECTORS

Mode Free Through 18 GHz  
 Nominal Impedance: 50 ohms  
 Frequency: DC to 18 GHz  
 VSWR: DC to 18 GHz, 1.15:1 Max  
 Low Insertion Loss  
 Low RF Leakage:  $\leq -100$  dB

### TEMPERATURE

-55 °C to +165 °C

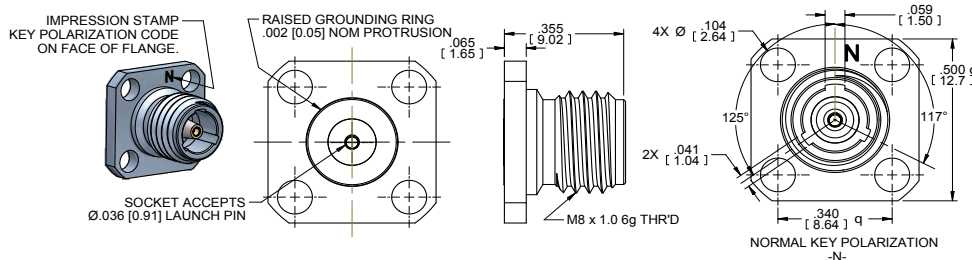
### MATERIALS / CONSTRUCTION

Materials and finishes vary by product type. For data, refer to website or request Product Drawings and Specifications for desired connector.

## JACK (FEMALE) CONNECTORS

### FLANGE JACK (FEMALE): 4 HOLE .500 SQUARE

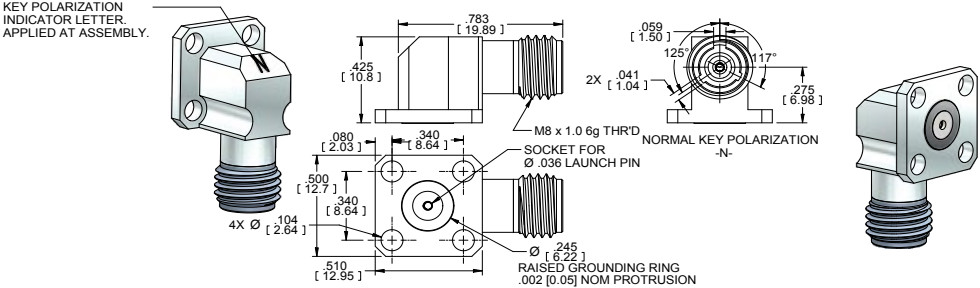
ACCEPTS PIN DIA. **.036**  
 CONNECTOR NO. **53730-0XXJ**



KEY POLARIZATION			
DASH NO.	KEY POL.	H (DEG)	G (DEG)
-010J	J	93	160
-009J	H	100	149
-008J	G	136	96
-007J	F	125	107
-006J	E	93	149
-005J	D	106	136
-004J	C	172	70
-003J	B	155	87
-002J	A	146	96
-001J	N	125	117
-000J	No Key	N/A	N/A

**FLANGE JACK (FEMALE) RIGHT ANGLE: 4 HOLE .500 SQUARE**

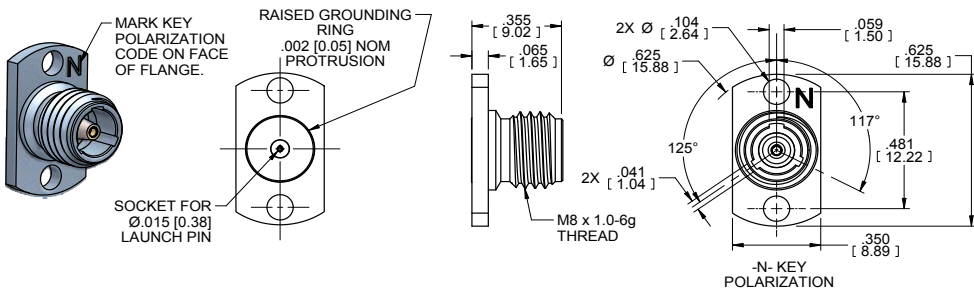
ACCEPTS PIN DIA. **.036** CONNECTOR NO. **53732-0XXJ**



KEY POLARIZATION			
DASH NO.	KEY POL.	H (DEG)	G (DEG)
-010J	J	93	160
-009J	H	100	149
-008J	G	136	96
-007J	F	125	107
-006J	E	93	149
-005J	D	106	136
-004J	C	172	70
-003J	B	155	87
-002J	A	146	96
-001J	N	125	117
-000J	No Key	N/A	N/A

**FLANGE JACK (FEMALE): 2 HOLE .625 X .350**

ACCEPTS PIN DIA. **.015** CONNECTOR NO. **53733-0XXJ**

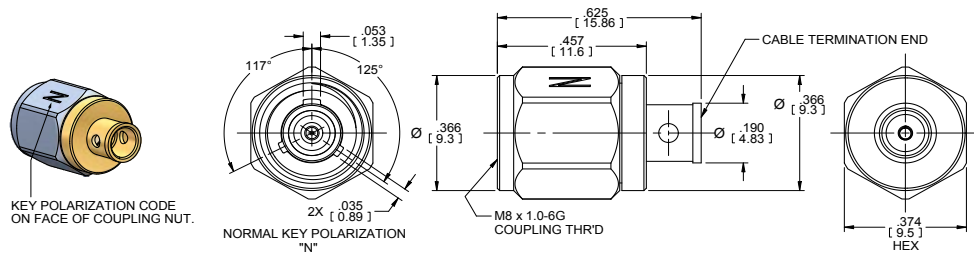


KEY POLARIZATION			
DASH NO.	KEY POL.	H (DEG)	G (DEG)
-030J	J	93	160
-029J	H	100	149
-028J	G	136	96
-027J	F	125	107
-026J	E	93	149
-025J	D	106	136
-024J	C	172	70
-023J	B	155	87
-022J	A	146	96
-021J	N	125	117
-020J	No Key	N/A	N/A

**CABLE CONNECTORS (DIRECT SOLDER)**

**PLUG (MALE)**

CABLE CENTER CONDUCTOR DIA.\* **.036** CABLE\*\* **0.141** CONNECTOR NO. **52770-0XXP**



KEY POLARIZATION			
DASH NO.	KEY POL.	H (DEG)	G (DEG)
-010P	J	93	160
-009P	H	100	149
-008P	G	136	96
-007P	F	125	107
-006P	E	93	149
-005P	D	106	136
-004P	C	172	70
-003P	B	155	87
-002P	A	146	96
-001P	N	125	117
-000P	No Key	N/A	N/A

\* Center conductor is not soldered  
\*\* Flex cable

# CABLE CLAMP CONNECTORS (DIRECT SOLDER)

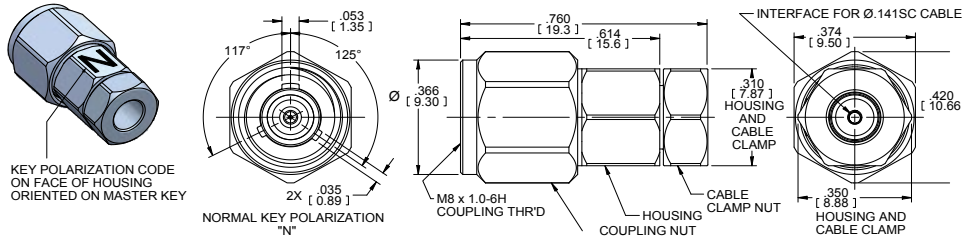
SMKey 3.7 mm DC to 18 GHz

## PLUG (MALE)

CABLE CENTER CONDUCTOR DIA.\*  
.036

CABLE\*\*  
0.141

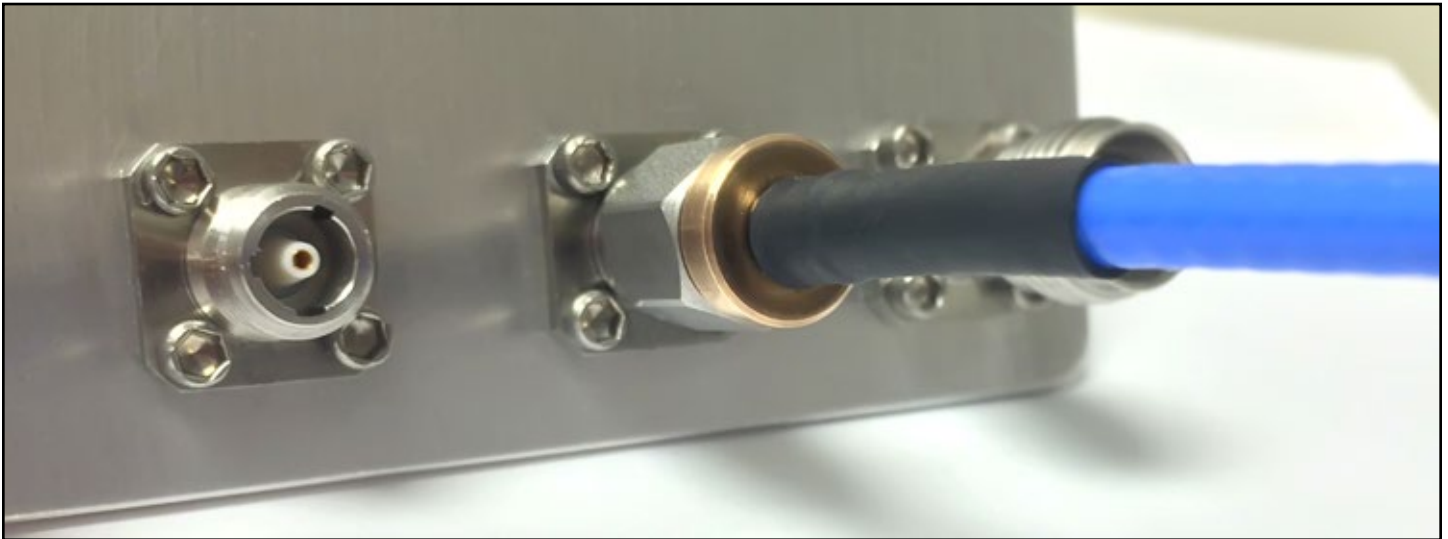
CONNECTOR NO.  
52771-OXXP



\* Center conductor is not soldered  
\*\* Flex cable

KEY POLARIZATION			
DASH NO.	KEY POL.	H (DEG)	G (DEG)
-010P	J	93	160
-009P	H	100	149
-008P	G	136	96
-007P	F	125	107
-006P	E	93	149
-005P	D	106	136
-004P	C	172	70
-003P	B	155	87
-002P	A	146	96
-001P	N	125	117
-000P	No Key	N/A	N/A

## CABLE ASSEMBLIES



Southwest Microwave can supply complete cable assemblies to simplify high-performance interface to and between our complete range of SMKey connectors. Contact the factory for more information.

