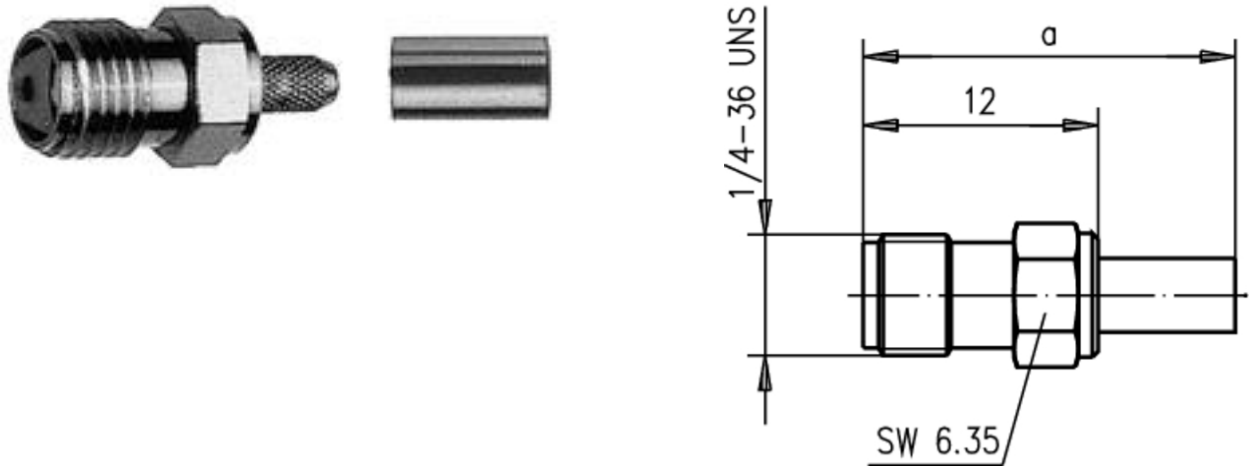


order number: J01151A0351

SMA Straight Jack Crimp G8 (RD-316)



| Technical Attributes |   |
|----------------------|---|
| Cable group; cable   | G8 (RD-316)<br>K 02252 D<br>RD-316<br>HF 50 0.5/1.5 LDY |
| Finish               | Gold  |
| Dimensions           | a=19  |
| Assembly             | C0714   |
| Crimp die            | N01003A0014   |
| Series               |   |
| Mount. dim.          |   |

## Product description

The SMA series is a very popular coax connector with threaded coupling, and can be used up to frequencies of over 18 GHz (depending on type). The impedance is controlled at 50 Ω. Connector styles are available for flexible, conformable and semi-rigid cable types. Versions of the SMA connector are available for mounting to printed circuit boards using both through-hole soldered and through-hole press-fit techniques, as well as surface mount types (SMD). Solder, crimp and clamp techniques are used to terminate this series to cables. SMA applications include communications, satellite and test equipment.

Mating face sealing for SMA connectors between plug and jack (mated) according to IP 68. This classification is a general statement for the relevant series. Individual connectors may deviate from the values shown. If in doubt, please consult our engineers.

| Mechanical Characteristics  |  |
|---|--|
| Durability (mating cycles)  | ≥ 500  |
| Recommended coupling torque   | 79 - 113 Ncm                                 |
| Material: spring contacts   | CuBe2  |
| Material: solid contact parts standard type                           | CuZn39Pb3                                    |
| Material: solid contact parts MIL-type (stainless steel)              | 1.4305                                       |
| Material: crimp ferrule   | Cu   |
| Material: serrated lock washer  | CuSn6  |
| Material: insulators  | PTFE PTFE                                    |
| Material: gaskets   | MVQ  |
| Finish: Inner conductor   | Cu1Ni2Au1.27                                 |
| Finish outer conductor: Gold (standard; last digit ...1)              | NiPAu  |
| Finish outer conductor: MIL gold (last digit ...2)                    | Cu1Ni2Au1.27                                 |
| Finish outer conductor: Stainless steel (last digit ...6)             | passivated passivated                        |
| Finish outer conductor: Type for printed circuits (last digit ...7)   | SnPb8  |
| Finish outer conductor: Telealloy (white bronze) (last digit ...8)    | CuSnZn3 (Telealloy); Ag2CuSnZn0.5 (Optargen) |
| Finish outer conductor: Nickel (last digit ...9)                      | Cu2Ni5                                       |
| Finish other metal parts: Gold (standard; last digit ...1)            | Cu2Ni5Au0.2                                  |
| Finish other metal parts: MIL gold (last digit ...2)                  | Cu1Ni2Au0.8                                  |
| Finish other metal parts: Stainless steel (MIL type; last digit ...6) | passivated passivated                        |
| Finish other metal parts: Telealloy (white bronze) (last digit...8)   | CuSnZn3                                      |

|  |        |
|--|--------|
| Finish other metal parts: Nickel (last digit ...9) | Cu2Ni5 |
|--|--------|

|   |           |
|---|-----------|
| Climatic Characteristics                |           |
| Climatic category acc. to IEC 60068 - 1 | 55/155/56 |

|  |                     |
|--|---------------------|
| Electrical Characteristics                                     |                     |
| Impedance  | 50 $\Omega$         |
| Voltage proof  | 1 kV/50 Hz          |
| Working voltage  | $\leq 335$ V/50 Hz  |
| Contact resistance inner conductor                             | $\leq 3$ m $\Omega$ |
| Contact resistance outer conductor                             | $\leq 2$ m $\Omega$ |
| Insulation resistance  | $\geq 5$ G $\Omega$ |
| Frequency range for flexible cable up to                       | 12.4 GHz            |
| Frequency range for semi-rigid cable up to (Straight style)    | 18.0 GHz            |
| Frequency range for semi-rigid cable up to (Angle style)       | 12.4 GHz            |
| Return loss flexible cable (straight and angle style) at 1 GHz | $\geq 20.0$ dB      |
| Return loss flexible cable (straight and angle style) at 2 GHz | $\geq 19.2$ dB      |
| Return loss flexible cable (straight and angle style) at 4 GHz | $\geq 17.7$ dB      |
| Return loss flexible cable (straight and angle style) at 6 GHz | $\geq 16.5$ dB      |
| Return loss semi-rigid cable (straight style) at 1 GHz         | $\geq 28.5$ dB      |
| Return loss semi-rigid cable (straight style) at 2 GHz         | $\geq 27.5$ dB      |
| Return loss semi-rigid cable (straight style) at 4 GHz         | $\geq 26.0$ dB      |
| Return loss semi-rigid cable (straight style) at 6 GHz         | $\geq 24.9$ dB      |
| Return loss semi-rigid cable (angle style) at                  | $\geq 25.7$ dB      |

|   |           |
|---|-----------|
| 1 GHz   |           |
| Return loss semi-rigid cable (angle style) at 2 GHz | ≥ 25.2 dB |
| Return loss semi-rigid cable (angle style) at 4 GHz | ≥ 24.2 dB |
| Return loss semi-rigid cable (angle style) at 6 GHz | ≥ 23.2 dB |

| Standards     |  |
|---------------|--|
| IEC 60 169-15 |  |