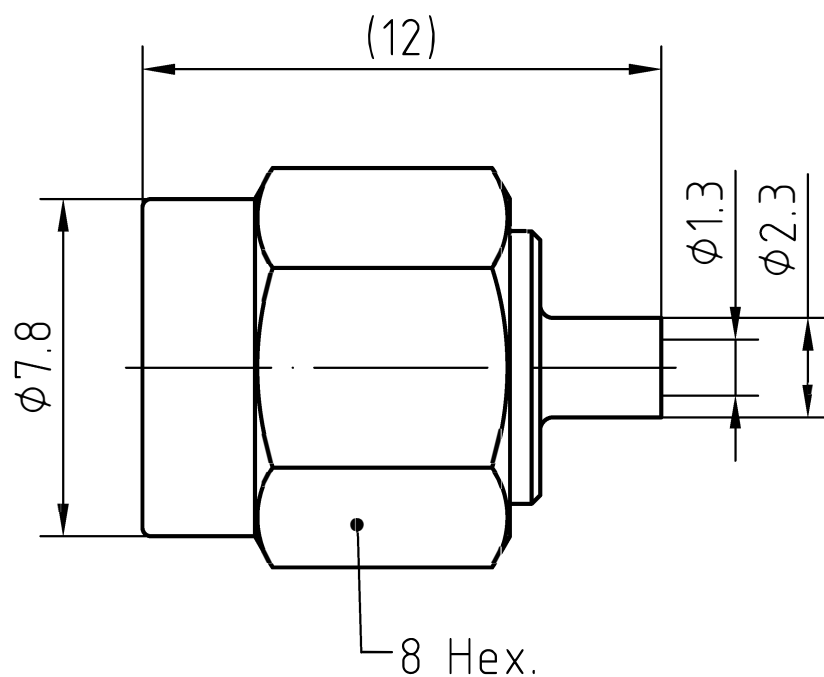
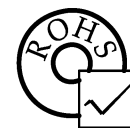
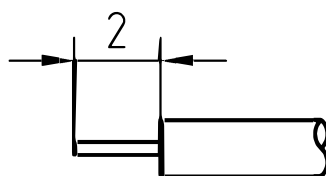


## DRAWING



CABLE(UT047,670-047)



| 6       | 1        | O ring                                           | Silicone rubber                |                       |
|---------|----------|--------------------------------------------------|--------------------------------|-----------------------|
| 5       | 1        | C_ring                                           | Beryllium copper/Nickel plated |                       |
| 4       | 1        | Coupling nut                                     | Brass/Gold plated              |                       |
| 3       | 1        | Body                                             | Brass/Gold plated              |                       |
| 2       | 1        | Insulator                                        | PTFE                           |                       |
| 1       | 1        | Center contact                                   | Brass/Gold plated              |                       |
| Itemref | Quantity | Title/Name, designation, material, dimension etc |                                | Article No./Reference |

Designed by  
Xio XangChecked by  
Jing LoApproved by  
Jing ChanFile name  
SMA-131100JDate  
09.02.02Scale  
6 : 1**RF CONNEC**

SMA-131100J

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# CHARACTERISTICS

## DESCRIPTION:

SMA Type male str connector

### Electrical data:

|                                                         |                                                      |
|---------------------------------------------------------|------------------------------------------------------|
| Impedance:                                              | 50 ohm                                               |
| Frequency range:                                        | DC to 18.0 GHz                                       |
| VSWR:                                                   | $\leq 1.06 + 0.02 \times f \text{ [GHz]}$            |
| Insertion loss:                                         | $\leq 0.15 \times \sqrt{f \text{ [GHz]}} \text{ dB}$ |
| Insulation resistance:                                  | $\geq 5000 \text{ M}\Omega$                          |
| Test voltage:                                           | 1000 V rms                                           |
| Working voltage:                                        | 480 V rms                                            |
| Contact resistance:                                     |                                                      |
| 1). Centre contact:                                     | 3.0 m $\Omega$                                       |
| 2). Outer conductor:                                    | 2.0 m $\Omega$                                       |
| Power handling(at 20 ° C, sea level, VSWR 1.0):         | $\leq 200 \text{ W @ 2 GHz}$ ;                       |
| RF-leakage                                              | $\geq 100 \text{ dB up to 1 GHz}$                    |
| - Limitations are possible due to the used cable type - |                                                      |

### Environmental data:

|                     |                     |
|---------------------|---------------------|
| Temperature rating: | -65 ° C to +165 ° C |
| 2002/95/EC (RoHS):  | Compliant           |

### Mechanical data:

|                        |                       |
|------------------------|-----------------------|
| Mating cycles:         | $\geq 500$            |
| Coupling nut retention | $\geq 270 \text{ N}$  |
| Coupling test torque:  | $\leq 1.7 \text{ Nm}$ |
| Recommended torque:    | 0.46 Nm to 0.69 Nm    |

### Suitable cables:

UT047,670-047