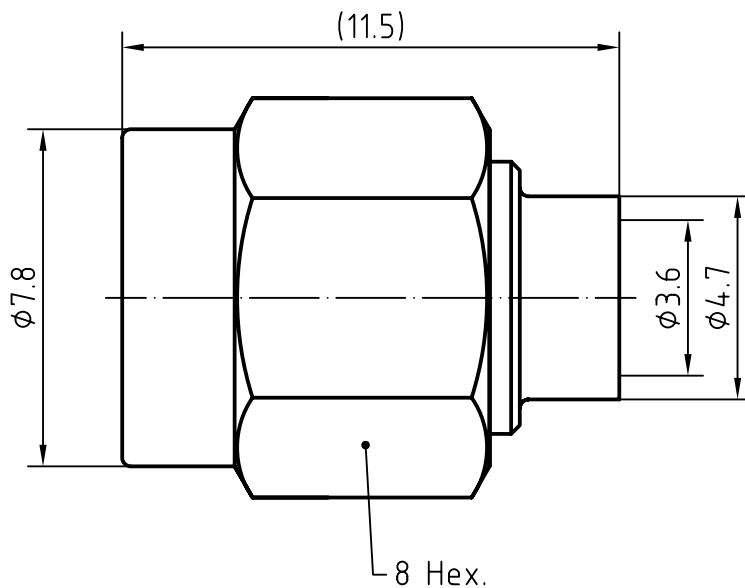
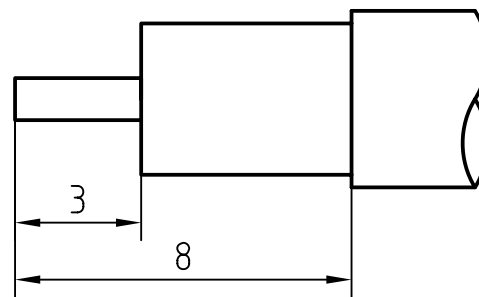
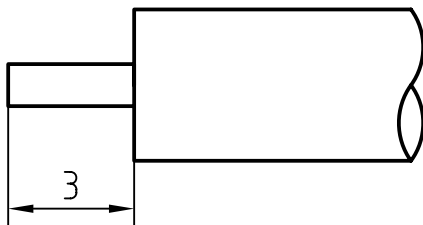


DRAWING

SMA Type male connector



CABLE(UT 141, RG 402)



With jacket

| 6       | 1        | O ring                                           | Silicone rubber                |                       |
|---------|----------|--------------------------------------------------|--------------------------------|-----------------------|
| 5       | 1        | Spring                                           | 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 - date  
Jing ChanFile name  
SMA-131100EDate  
09.03.02Scale  
6 : 1

SMA-131100E

Edition  
1.0Sheet  
1/1

# CHARACTERISTICS

## DESCRIPTION:

SMA Type male connector

### Electrical data:

|                                                         |                                                                        |
|---------------------------------------------------------|------------------------------------------------------------------------|
| <i>Impedance:</i>                                       | <i>50 ohm</i>                                                          |
| <i>Frequency range:</i>                                 | <i>DC to 18.0 GHz</i>                                                  |
| <i>VSWR:</i>                                            | <i><math>\leq 1.04 + 0.03 \times f \text{ [GHz]}</math></i>            |
| <i>Insertion loss:</i>                                  | <i><math>\leq 0.08 \times \sqrt{f \text{ [GHz]}} \text{ dB}</math></i> |
| <i>Insulation resistance:</i>                           | <i><math>\geq 5000 \text{ M}\Omega</math></i>                          |
| <i>Test voltage:</i>                                    | <i>1000 V rms</i>                                                      |
| <i>Working voltage:</i>                                 | <i>480 V rms</i>                                                       |
| <i>Contact resistance:</i>                              |                                                                        |
| 1). Centre contact:                                     | <i>3.0 m<math>\Omega</math></i>                                        |
| 2). Outer conductor:                                    | <i>2.0 m<math>\Omega</math></i>                                        |
| <i>Power handling (at 20 ° C, sea level, VSWR 1.0):</i> | <i><math>\leq 200 \text{ W @ 2 GHz}</math></i>                         |
| <i>RF-leakage</i>                                       | <i><math>\geq 100 \text{ dB up to 1 GHz}</math></i>                    |

*- Limitations are possible due to the used cable type -*

### Environmental data:

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

### Mechanical data:

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

### Suitable cables:

*UT 141, RG 402*