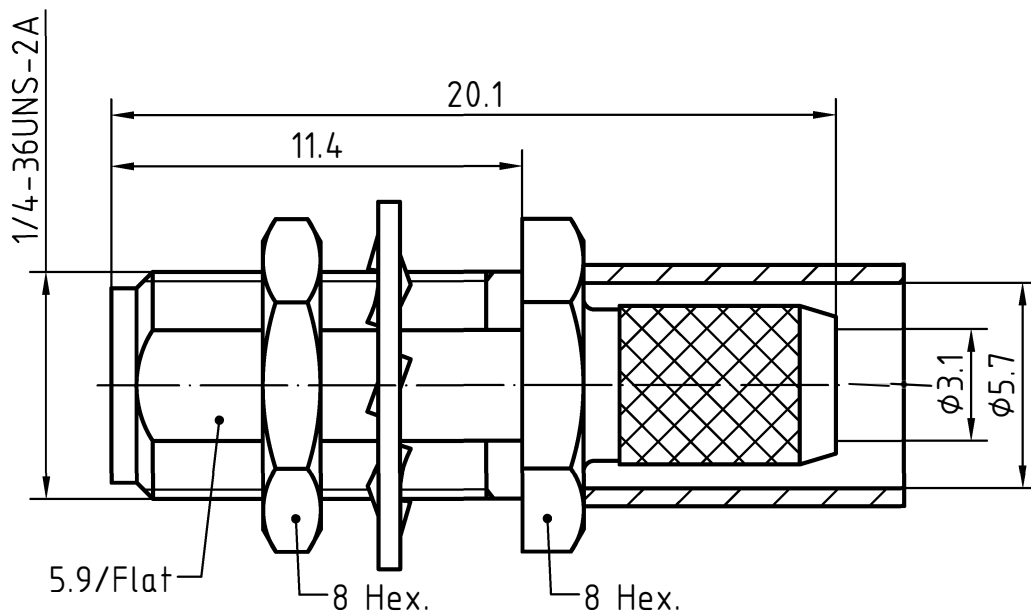
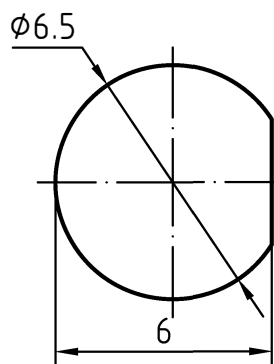
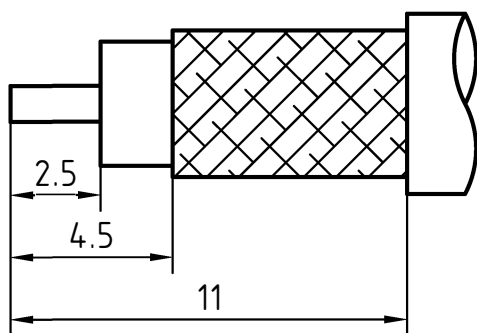


## DRAWING



CABLE(RG142B/U, RG223/U, RG400/U)

MOUNTING HOLE



| 5       | 1        | Nut                                              | Brass/Gold plated            |                       |
|---------|----------|--------------------------------------------------|------------------------------|-----------------------|
| 4       | 1        | Washer                                           | Beryllium copper/Gold plated |                       |
| 3       | 1        | Body                                             | Brass/Gold plated            |                       |
| 2       | 1        | Insulator                                        | PTFE                         |                       |
| 1       | 1        | Center contact                                   | Beryllium copper/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-112110BDate  
09.04.12Scale  
5:1

SMA-112110B

Edition  
1.0Sheet  
1/1

# CHARACTERISTICS

## DESCRIPTION:

SMA Type female BH connector

### Electrical data:

|                                                                |                                                      |
|----------------------------------------------------------------|------------------------------------------------------|
| <i>Impedance:</i>                                              | <i>50 ohm</i>                                        |
| <i>Frequency range:</i>                                        | <i>DC to 12.4 GHz</i>                                |
| <i>VSWR:</i>                                                   | $\leq 1.10 + 0.04 \times f \text{ [GHz]}$            |
| <i>Insertion loss:</i>                                         | $\leq 0.15 \times \sqrt{f \text{ [GHz]}} \text{ dB}$ |
| <i>Insulation resistance:</i>                                  | $\geq 5000 \text{ M}\Omega$                          |
| <i>Test voltage:</i>                                           | <i>1000 V rms</i>                                    |
| <i>Working voltage:</i>                                        | <i>500 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</i> (at 20 °C, sea level, VSWR 1.0)          | $\leq 200 \text{ W @ 2 GHz};$                        |
| <i>RF-leakage</i>                                              | $\geq 100 \text{ dB up to 1 GHz}$                    |
| <i>- Limitations are possible due to the used cable type -</i> |                                                      |

### 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>         | $\geq 500$                |
| <i>Coupling nut retention</i> | $\geq 270 \text{ N}$      |
| <i>Coupling test torque:</i>  | $\leq 1.1 \text{ Nm}$     |
| <i>Recommended torque:</i>    | <i>0.46 Nm to 0.69 Nm</i> |

### Suitable cables:

*RG142B/U, RG223/U, RG400/U*