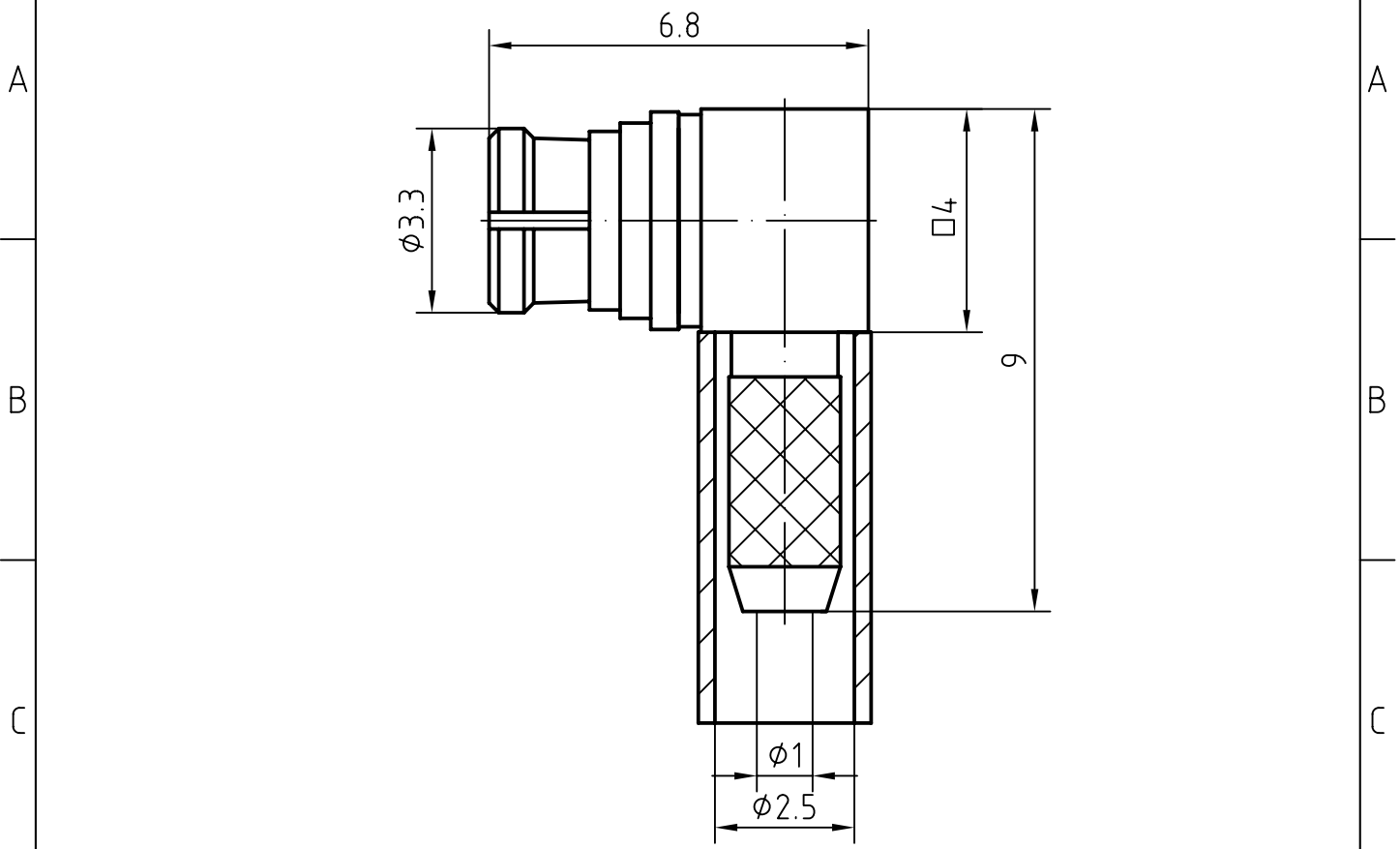
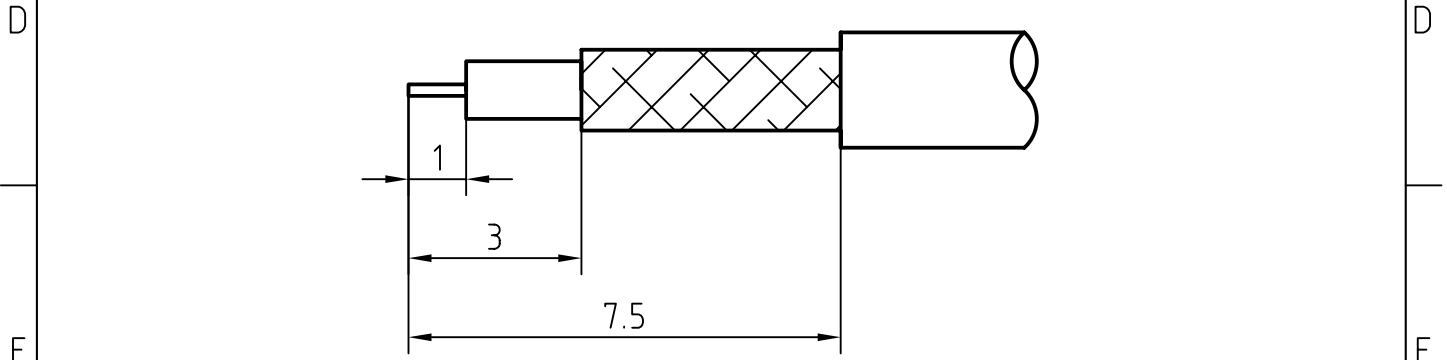


DRAWING



CABLE(RG178)



|   |   |                |                              |                            |
|---|---|----------------|------------------------------|----------------------------|
| 4 | 1 | Spring contact | Beryllium copper/Gold plated | Gold 0.2um over Nickel 2um |
| 3 | 1 | Body           | Brass/Gold plated            | Gold 0.2um over Nickel 2um |
| 2 | 1 | Insulator      | PTFE                         |                            |
| 1 | 1 | Center contact | Beryllium copper/Gold plated | Gold 0.5um over Nickel 2um |

|                            |                          |                                 |                      |                  |                 |
|----------------------------|--------------------------|---------------------------------|----------------------|------------------|-----------------|
| Designed by<br>Mingang Han | Checked by<br>Jinlong Gu | Approved by - date<br>Hongyu Du | File name<br>SMP-KW2 | Date<br>15.05.05 | Scale<br>10 : 1 |
|----------------------------|--------------------------|---------------------------------|----------------------|------------------|-----------------|

|                           |   |                       |
|---------------------------|---|-----------------------|
| Amitron Electronics, Ltd. | SMP-KW2   |                       |
|                           | <a href="http://www.amel.ru">http://www.amel.ru</a> | Edition 1.0 Sheet 1/1 |

## CHARACTERISTICS

### DESCRIPTION:

SMP Type female R/A connector

#### Electrical data:

|                               |  |
|-------------------------------|--|
| <i>Impedance:</i>             | 50 ohm   |
| <i>Frequency range:</i>       | DC to 6 GHz  |
| <i>VSWR:</i>                  | $\leq 1.08 + 0.03Xf[\text{GHz}]$                         |
| <i>Insertion loss:</i>        | $\leq 0.1X\sqrt{f[\text{GHz}]} \text{ dB, DC to 12 GHz}$ |
| <i>Insulation resistance:</i> | $\geq 5000M\Omega$                                       |
| <i>Test voltage:</i>          | 500 V rms  |
| <i>Working voltage:</i>       | 335 V rms  |
| <i>Contact resistance:</i>    |  |
| 1). Centre contact:           | 6.0 m $\Omega$   |
| 2). Outer conductor:          | 2.0 m $\Omega$   |

#### Environmental data:

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

#### Mechanical data:

##### *Mating cycles:*

|                                     |                           |
|-------------------------------------|---------------------------|
| - if mating part is smooth bore:    | $\geq 1000$               |
| - if mating part is limited detent: | $\geq 500$                |
| - if mating part is full detent:    | $\geq 100$                |
| <i>Center contact captivation:</i>  | $\geq 7 \text{ N(axial)}$ |

##### *Engagement force:*

|                   |                      |
|-------------------|----------------------|
| - smooth bore:    | $\leq 9 \text{ N.}$  |
| - limited detent: | $\leq 45 \text{ N.}$ |
| - full detent:    | $\leq 68 \text{ N.}$ |

##### *Disengagement force:*

|                   |                       |
|-------------------|-----------------------|
| - smooth bore:    | $\geq 2.2 \text{ N.}$ |
| - limited detent: | $\geq 9 \text{ N.}$   |
| - full detent:    | $\geq 22 \text{ N.}$  |

#### Suitable cables:

RG178