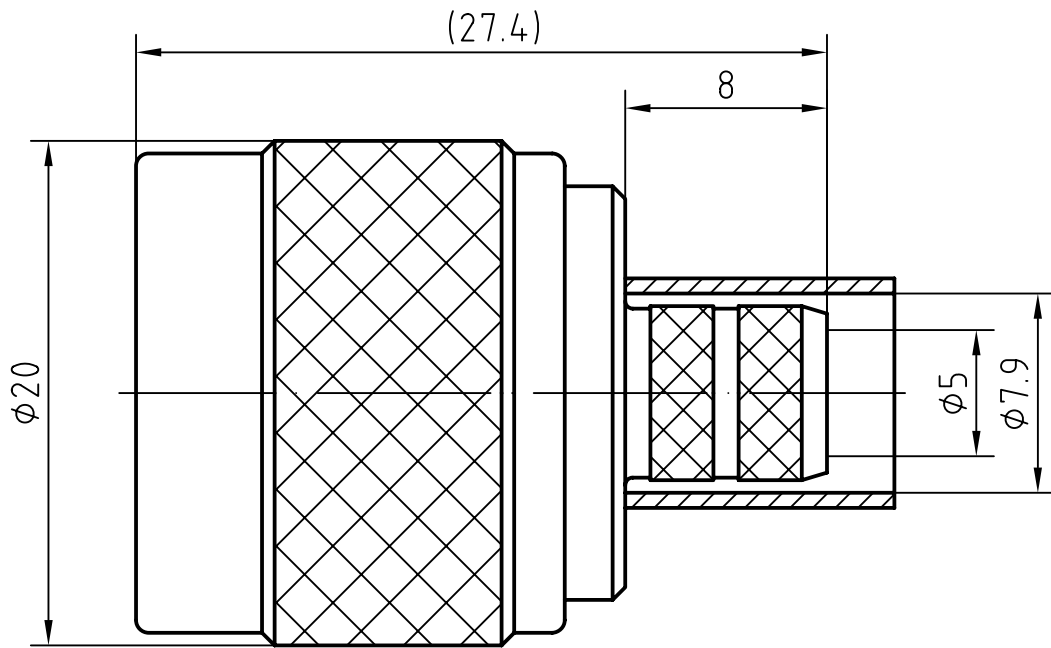
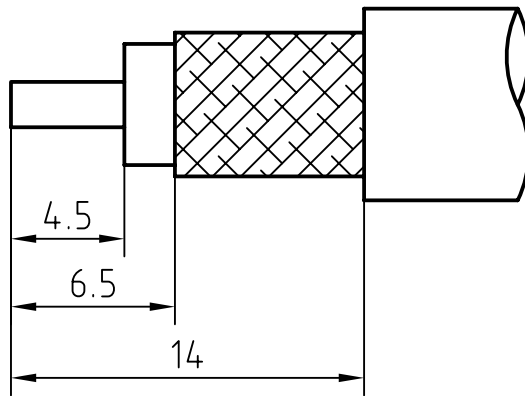


DRAWING



CABLE(LMR300)



|   |   |                |                     |                            |
|---|---|----------------|---------------------|----------------------------|
| 5 | 1 | O ring         | Silicon rubber      |                            |
| 4 | 1 | Coupling nut   | Brass/Nickel plated | Nickel 7.0 over copper 2.0 |
| 3 | 1 | Body           | Brass/Nickel plated | Nickel 7.0 over copper 2.0 |
| 2 | 1 | Insulator      | PTFE                |                            |
| 1 | 1 | Center contact | Brass/Gold plated   | Gold 0.2 over Nickel 2.0   |

|                            |                          |                                 |                      |                  |                |
|----------------------------|--------------------------|---------------------------------|----------------------|------------------|----------------|
| Designed by<br>Mingang Han | Checked by<br>Jinlong Gu | Approved by - date<br>Hongyu Du | File name<br>N-J300Y | Date<br>07.08.15 | Scale<br>3 : 1 |
|----------------------------|--------------------------|---------------------------------|----------------------|------------------|----------------|

Amitron Electronics, Ltd.

N-J300Y

<http://www.amel.ru>

|                |              |
|----------------|--------------|
| Edition<br>1.0 | Sheet<br>1/1 |
|----------------|--------------|

## CHARACTERISTICS

DESCRIPTION: N Type male str connector

### Electrical data:

|  |  |
|--|--|
| <i>Impedance:</i>                                      | 50 ohm                                     |
| <i>Frequency range:</i>                                | DC to 11 GHz                               |
| <i>VSWR:</i>   | $\leq 1.05 + 0.06 \times f$ [GHz], DC-6GHz |
| <i>Insertion loss:</i>                                 | $\leq 0.25$ dB, DC-6GHz                    |
| <i>Insulation resistance:</i>                          | $\geq 5000$ M $\Omega$                     |
| <i>Test voltage:</i>                                   | 2500 V rms                                 |
| <i>Working voltage:</i>                                | 1400 V rms                                 |
| <i>Contact resistance:</i>                             |  |
| 1). <i>Centre contact:</i>                             | 1.0 m $\Omega$                             |
| 2). <i>Outer conductor:</i>                            | 0.25 m $\Omega$                            |
| <i>Power handling</i> (at 20 °C, sea level, VSWR 1.0): | 1000 W @ 1 GHz<br>700 W @ 2 GHz            |
| <i>RF-leakage:</i>                                     | $\geq 128$ dB up to 1 GHz                  |

- Limitations are possible due to the used cable type -

### Environmental data:

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

### Mechanical data:

|                                |                  |
|--------------------------------|------------------|
| <i>Mating cycles:</i>          | $\geq 500$       |
| <i>Coupling nut retention:</i> | $\geq 450$ N     |
| <i>Coupling test torque:</i>   | $\leq 1.7$ Nm    |
| <i>Recommended torque:</i>     | 0.7 Nm to 1.1 Nm |

### Assembly instruction:

A0002

### Suitable cables:

LMR300