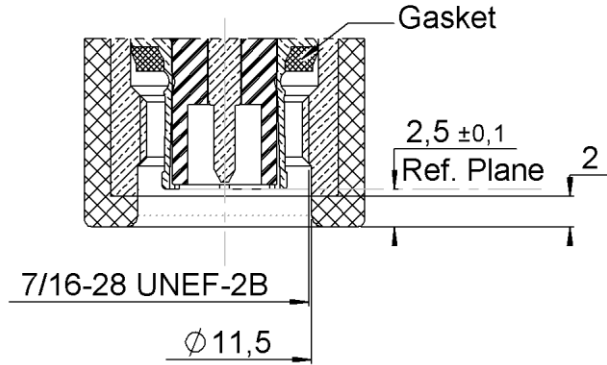
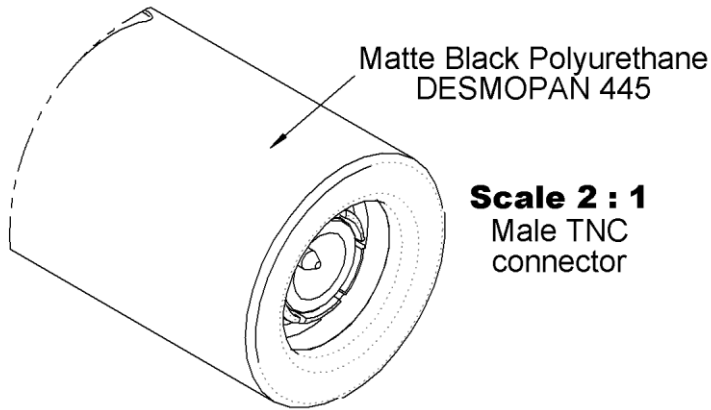
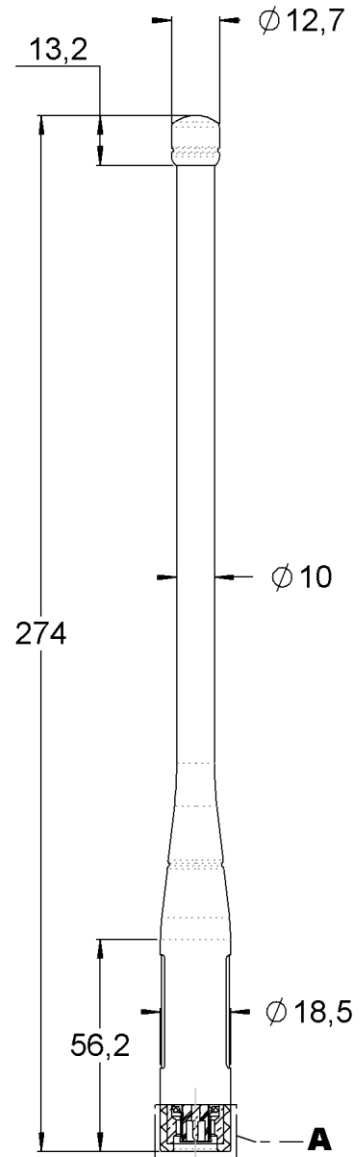


|          |                 |                |                        |
|----------|-----------------|----------------|------------------------|
| PAGE 1/3 | ISSUE 08-10-15A | SERIES ANTENNA | PART NUMBER R380000178 |
|----------|-----------------|----------------|------------------------|

**DÉTAIL A**  
**Scale 2 : 1**



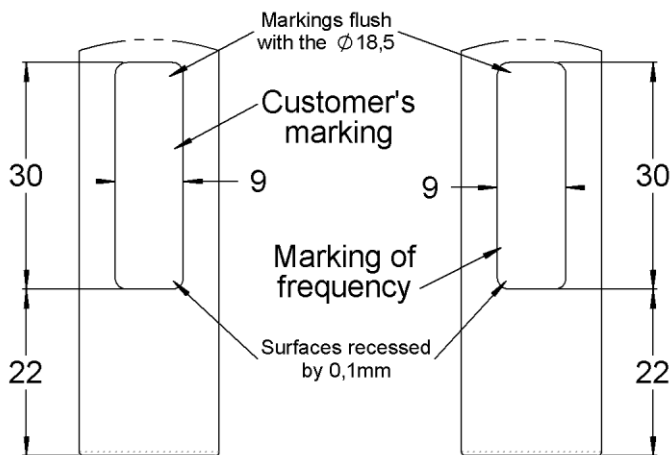
**Scale 1 : 2**



**Scale 1 : 1**  
Matching unit TNC interface

**Front marking**

**Back marking**



All dimensions are in mm

|          |                        |                          |                               |
|----------|------------------------|--------------------------|-------------------------------|
| PAGE 2/3 | ISSUE <b>08-10-15A</b> | SERIES<br><b>ANTENNA</b> | PART NUMBER <b>R380000178</b> |
|----------|------------------------|--------------------------|-------------------------------|

**ELECTRICAL CHARACTERISTICS**

(Measurement on handheld radio 5 x 7 x 20 cm)

|                                                         |                         |          |
|---------------------------------------------------------|-------------------------|----------|
| Frequency :                                             | <b>225-512</b>          | MHz      |
| Nominal Impedance :                                     | <b>50</b>               | $\Omega$ |
| VSWR (stand alone) :                                    | <b>3:1</b>              | Max      |
| VSWR (Walkie Talkie):                                   | <b>3:1</b>              | Max      |
| Gain (typical)                                          |                         |          |
| Peak Gain @ 225-512 MHz :<br>(cf to typical gain curve) | <b>2.2</b>              | dBi      |
| Radiation Pattern                                       |                         |          |
| Horizontal Plane ( $\Theta=90^\circ$ ):                 | <b>Omni-directional</b> |          |
| Vertical Plane ( $\Phi=0^\circ/90^\circ$ ) :            | <b>Dipolar</b>          |          |
| Polarization :                                          | <b>LINEAR VERTICAL</b>  |          |
| Power withstanding :                                    | <b>10</b>               | W *      |
| Connector type :                                        | <b>TNC plug (Male)</b>  |          |

**MECHANICAL CHARACTERISTICS**

|                             |                                         |        |
|-----------------------------|-----------------------------------------|--------|
| Antenna Color :             | <b>MATTE BLACK</b>                      |        |
| Antenna Material :          | <b>Polyurethane<br/>DESMOPAN 445</b>    |        |
| Antenna Texture :           | <b>Mold-Tech MT 11030</b>               |        |
| Overmolding flexibility :   | <b><math>\pm 180^\circ</math> - 500</b> | Cycles |
| Overmolding pull strength : | <b>50</b>                               | N      |
| Maximum mating torque :     | <b>22.2</b>                             | N.cm   |
| Weight :                    | <b>90</b>                               | g max. |
| Overall length :            | <b>274</b>                              | mm     |
| RoHS Compliant:             | <b>Yes</b>                              |        |

**ENVIRONMENTAL CHARACTERISTICS**

|                                 |                                                                       |                  |
|---------------------------------|-----------------------------------------------------------------------|------------------|
| Operating Temperature :         | <b>-30/+60</b>                                                        | $^\circ\text{C}$ |
|                                 | <b>IAW MIL-STD-810G<br/>meth 501.5 &amp; 502.5, proc II</b>           |                  |
| Storage Temperature :           | <b>-35/+70</b>                                                        | $^\circ\text{C}$ |
|                                 | <b>IAW MIL-STD-810G<br/>meth 501.5 &amp; 502.5, proc I</b>            |                  |
| Humidity :                      | <b>Induced Hot Humid<br/>IAW MIL-STD-810G<br/>meth 507.5, proc II</b> |                  |
| Immersion :<br>(mated to radio) | <b>20m, for 2h<br/>IAW MIL-STD-810G<br/>meth 512.5, proc I</b>        |                  |

**OTHERS CHARACTERISTICS**

\* Depending on customer's usage or application

|          |                 |                |                        |
|----------|-----------------|----------------|------------------------|
| PAGE 3/3 | ISSUE 08-10-15A | SERIES ANTENNA | PART NUMBER R380000178 |
|----------|-----------------|----------------|------------------------|

**CURVES**

