

<b>Product Name</b>	<b>Required quantity</b>
<b>Feeder Cable 7/8</b>	<b>5,000.00 meter</b>

### Technical SPECIFICATIONS

#### 1- Design

1	<b>Inner conductor</b>	<b>Material</b>	smooth copper tube
		<b>Diameter (mm)</b>	9.2 ± 0.1
2	<b>Dielectric</b>	<b>Material</b>	Foam Polyethylene
		<b>Diameter (mm)</b>	23.3 ±0.1
3	<b>Outer conductor</b>	<b>Material</b>	corrugated copper tube
		<b>Diameter (mm)</b>	25 ±0.1
4	<b>Jacket</b>	<b>Material</b>	black polyethylene
		<b>Thickness (mm)</b>	1.4 ±0.1
		<b>Diameter (mm)</b>	28 ± 0.1
5	<b>Ink marking</b>	<b>Metric length</b>	

#### 2- Electrical specifications

1	<b>Characteristic impedance (Ω)</b>	50 ±1
2	<b>Nominal capacity (pF/m)</b>	75
3	<b>Relative propagation velocity (%)</b>	≥89
4	<b>Inductance (μH/m)</b>	0.187
5	<b>DC-resistance at 20°C</b>	inner conductor (Ω/km) ≤ 1.15
		outer conductor (Ω/km) ≤ 1.30
6	<b>RF peak voltage (kV)</b>	3.0
7	<b>RF peak power (kW)</b>	86.0
8	<b>Cut-off-frequency (GHz)</b>	5.0
9	<b>Insulation resistance (M Ω.km)</b>	>>5000

<b>10</b>	<b>Return Loss</b>	<b>maxi - 26.5 dB from 806 to 960 MHz</b>
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### 3- Mechanical specifications

<b>1</b>	<b>Minimum bending radius</b>	<b>single bending (cm)</b>	<b>10.0</b>
		<b>15 repeated bends (cm)</b>	<b>25.0</b>
		<b>Maximum pulling strength (daN)</b>	<b>150.0</b>
<b>2</b>	<b>Recommended temperature range</b>	<b>Storage</b>	<b>-70 to +85°C</b>
		<b>Installation</b>	<b>-40 to +60°C</b>
		<b>Operation</b>	<b>-55 to +85°C</b>
<b>3</b>	<b>Maximum length per hoisting grip (m)</b>	<b>75</b>	
<b>4</b>	<b>Weight (kg/km)</b>	<b>≤ 500</b>	

### 4- Attenuation

<b>Frequency (MHz)</b>	<b>Attenuation at 20°C(*) (dB/100m)</b>
<b>10</b>	<b>0.366</b>
<b>100</b>	<b>1.16</b>
<b>200</b>	<b>1.69</b>
<b>450</b>	<b>2.65</b>
<b>800</b>	<b>3.50</b>
<b>900</b>	<b>3.60</b>
<b>1000</b>	<b>3.95</b>
<b>1500</b>	<b>4.95</b>
<b>1800</b>	<b>5.50</b>
<b>2000</b>	<b>5.62</b>
<b>2300</b>	<b>6.0</b>
<b>3000</b>	<b>7.0</b>

5- VSWR

<b>Frequency (MHz)</b>	<b>vswr</b>
<b>806~960</b>	<b><math>\leq 1.13</math></b>
<b>1700~2200</b>	<b><math>\leq 1.13</math></b>

6- Application

A 7/8" Feeder cable is used for base station, which includes wireless mobile communication, cellular, microwave and broadcast applications.

7- Quality Certifications ISO 9001& ISO 14001

The Supplier it must introduce ISO 9001 & ISO 14001 QualityCertifications from manufacturer of feeders