



EU63

CHARACTERISTICS

Construction

- **Construction**
Description **Elliptical corrugated copper tube**
- **Jacket**
Material **UV resistant, black polyethylene**
Thickness, *mm (in)* **1.8 (0.07)**
- **Dimensions**
Outer dimensions, *mm (in)* **50.7 x 31.3 (2.00 x 1.23)**

Mechanical characteristics

- **Minimum bending radius, without rebending**
E plane, *mm (in)* **200 (7.9)**
H plane, *mm (in)* **500 (19.7)**
- **Minimum bending radius, with rebending**
E plane, *mm (in)* **300 (11.8)**
H plane, *mm (in)* **700 (27.6)**
- **Min. drum core diameter, *mm (in)*** **1200 (47)**
- **Maximum operating pressure, *bar (psi)*** **0.5 (7.3)**
- **Max. pulling length per hoisting grip, *m (ft)*** **60 (197)**
- **Recommended temperature range**
- Installation, °C (°F) **-20 to +60 (-4 to +140)**
- Operation, °C (°F) **-40 to +80 (-40 to +176)**
- **Weight, *kg/m (lb/ft)*** **0.84 (0.56)**

Electrical characteristics

- **Frequency range, GHz** **5.70 - 7.75**
- **TE₁₁ Mode cutoff frequency, GHz** **4.2**
- **Attenuation, group velocity of propagation, power**

Frequency <i>GHz</i>	Attenuation ^[1] <i>dB/100m (dB/100ft)</i>	Group velocity <i>%</i>	Av. Power ^[2] <i>kW</i>
5.7	4.76 (1.45)	67.6	4.44
5.8	4.67 (1.42)	69.0	4.53
5.9	4.58 (1.40)	70.2	4.61
6.0	4.51 (1.37)	71.4	4.69
6.1	4.44 (1.35)	72.5	4.76
6.2	4.38 (1.33)	73.6	4.83
6.3	4.32 (1.32)	74.5	4.90
6.4	4.27 (1.30)	75.5	4.96
6.5	4.22 (1.29)	76.3	5.01
6.6	4.17 (1.27)	77.1	5.07
6.7	4.13 (1.26)	77.9	5.12
6.8	4.09 (1.25)	78.6	5.17
6.9	4.06 (1.24)	79.3	5.21
7.0	4.03 (1.23)	80.0	5.25
7.1	3.99 (1.22)	80.6	5.30
7.2	3.96 (1.21)	81.2	5.33
7.3	3.94 (1.20)	81.8	5.37
7.4	3.91 (1.19)	82.3	5.41
7.5	3.89 (1.18)	82.8	5.44
7.6	3.86 (1.18)	83.3	5.47
7.7	3.84 (1.17)	83.8	5.50
7.75	3.83 (1.17)	84.0	5.52
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VSWR characteristics

- **VSWR ^[3]_{max}** **5.850 - 7.125 GHz** **< 1.15**

[1] Attenuation at 20°C (68°F)

[2] Average power ratings based on VSWR 1.0, 82°C (180 °F) inner temperature, 40°C (104 °F) ambient temperature.

[3] <1.06 VSWR typical from 5.850 – 7.125 GHz