



## Lågförlustkoax Superflexibel

**Acome M2839Z 50 Ω 1/2"**

Black Polyethylene Jacket



- 1 - Inner Conductor** : Copper-clad aluminum  
Diameter :  $3.6 \pm 0.05$
- 2 - Dielectric** : Cellular Polyethylene  
Diameter :  $8.70 \pm 0.20$  mm  
Eccentricity of inner conductor : < 2%
- 3 - Outer Conductor** : Helically corrugated copper tube  
Diameter over outer conductor :  $12.10 \pm 0.15$  mm  
Diameter inside bottom :  $8.60 \pm 0.15$  mm  
Section length :  $3.0 \pm 0.05$  mm
- 4 - Jacket** : Black Polyethylene  
Diameter :  $13.4 \pm 0.2$  mm

### Mechanical Characteristics

Packaging : BBE 500 meters  
Weight approx. : 227 kg/km  
Installation temperature range :  $-25\text{ °C}/+ 60\text{ °C}$   
Operating temperature range :  $-40\text{ °C}/+ 85\text{ °C}$   
Halogen content : IEC 754-1

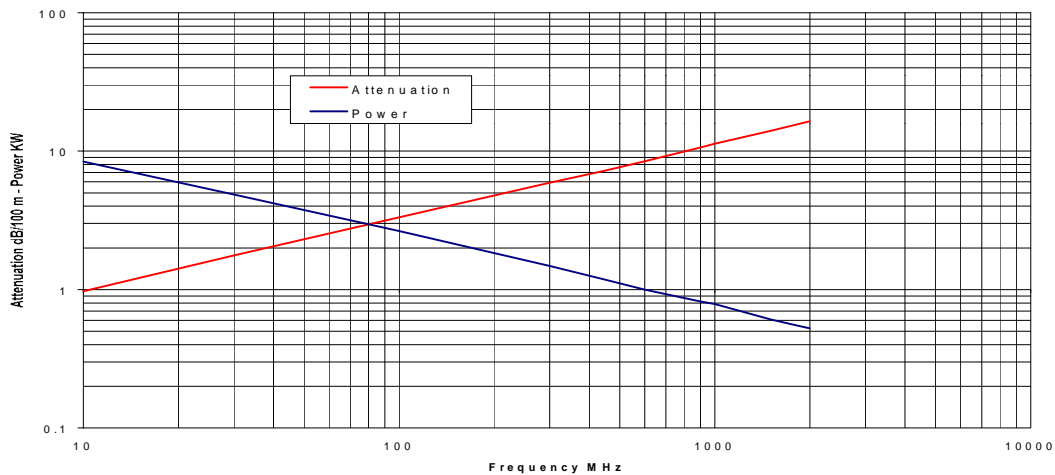
Installation Bending Radius : Min. 35 mm  
Operating Bending Radius : Min. 50 mm  
Tensile Strength : 700 N  
Tensile Strength of the cable assembly : 300 N  
Bending moment at  $90^\circ$  : 4.8 Nm

### Electrical Characteristics

Impedance :  $50 \pm 1.5$   
Capacitance :  $79.5 \pm 1.5$  pF/m  
Return Loss : **mini 26 dB** from 880 to 960 MHz  
**mini 23 dB** from 1710 to 1880 MHz  
Velocity 84 % - Dielectric constant : 1.42, typical values

Operating frequency : 10 GHz  
Peak power rating : 16 KW  
Operating voltage : 1.27 KV RMS  
Test voltage : 2.6 KV RMS  
Insulation Resistance :  $> 10000$  M $\cdot$ km  
DC Resistance: inner conductor :  $\leq 2.90$  /km  
: outer conductor :  $\leq 2.80$  /km

*Test methods are meeting the requirements of : IEC 68 - 96 - 966*



Frequency MHz	10	30	100	300	450	600	900	1000	1500	1800	2000
Attenuation dB/100 m typical values	0.97	1.77	3.33	5.92	7.25	8.45	10.65	11.31	14.05	15.48	16.43
Power (Watt) - 40°C ambient temperature Inner conductor : 100 °C	8400	4850	2650	1480	1180	1000	820	785	610	555	525



Mediavägen 4C  
135 48 TYRESÖ

Tel: 08-712 00 60  
Fax: 08-742 84 21

E-Mail: info@radiomaster.se  
Web: www.radiomaster.se