High pressure physical injection foamed polyethylene.

**TRIPLE LAYER DIELECTRIC**
FPE Ø 5 ± 0,05 mm

EXTRAFLEXIBLE UV resistant PVC jacket.
PVC Ø 7,3 ± 0,15 mm

**ELECTRICAL DATA**
- Impedance: 50 Ohm ± 3
- Minimum bending radius:
  - Multiple bends(15)/single bend: 68/34 mm
  - Temperature:
    - Installation: -40° to + 60° C
    - Operative: -55° to + 85° C
- Capacitance: 75 pF/m ± 2
- Velocity ratio: 83 %
- Screening efficiency: >105 dB
- Inner conductor resistance: 7,3 Ohm/Km
- Outer conductor resistance: 9,8 Ohm/Km
- Tension test (spark test): 4 kV
- Weight (100m): 6,9 Kg
- Connectors: C.N.AC7M-S, C.UHF.AC7.M-S, 4400 WATT

**ATTENUATION at 20°C**

<table>
<thead>
<tr>
<th>FREQUENCY</th>
<th>dB/100m</th>
<th>dB/100ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,8 MHz</td>
<td>0,6</td>
<td>0,19</td>
</tr>
<tr>
<td>3,5 MHz</td>
<td>0,9</td>
<td>0,27</td>
</tr>
<tr>
<td>7,0 MHz</td>
<td>1,2</td>
<td>0,36</td>
</tr>
<tr>
<td>10 MHz</td>
<td>1,6</td>
<td>0,48</td>
</tr>
<tr>
<td>14 MHz</td>
<td>2,1</td>
<td>0,64</td>
</tr>
<tr>
<td>21 MHz</td>
<td>2,6</td>
<td>0,79</td>
</tr>
<tr>
<td>28 MHz</td>
<td>3,0</td>
<td>0,91</td>
</tr>
<tr>
<td>50 MHz</td>
<td>4,0</td>
<td>1,21</td>
</tr>
<tr>
<td>100 MHz</td>
<td>5,8</td>
<td>1,76</td>
</tr>
<tr>
<td>144 MHz</td>
<td>6,9</td>
<td>2,10</td>
</tr>
<tr>
<td>200 MHz</td>
<td>8,2</td>
<td>2,49</td>
</tr>
<tr>
<td>400 MHz</td>
<td>11,8</td>
<td>3,59</td>
</tr>
<tr>
<td>430 MHz</td>
<td>12,3</td>
<td>3,74</td>
</tr>
<tr>
<td>800 MHz</td>
<td>17,1</td>
<td>5,21</td>
</tr>
<tr>
<td>1000 MHz</td>
<td>19,3</td>
<td>5,88</td>
</tr>
<tr>
<td>1200 MHz</td>
<td>21,3</td>
<td>6,49</td>
</tr>
<tr>
<td>2400 MHz</td>
<td>32,3</td>
<td>9,84</td>
</tr>
<tr>
<td>3000 MHz</td>
<td>36,2</td>
<td>11,03</td>
</tr>
</tbody>
</table>

**POWER HANDLING**
- FREQ. MAXP
  - 1,8 MHz 3890 W
  - 3,5 MHz 3700 W
  - 7,0 MHz 3380 W
  - 10 MHz 3080 W
  - 14 MHz 2740 W
  - 21 MHz 2450 W
  - 28 MHz 2230 W
  - 50 MHz 1820 W
  - 100 MHz 1200 W
  - 144 MHz 910 W
  - 200 MHz 680 W
  - 400 MHz 460 W
  - 430 MHz 440 W
  - 800 MHz 370 W
  - 1000 MHz 330 W
  - 1200 MHz 290 W
  - 2400 MHz 50 W

**STRUCTURAL RETURN LOSS**
- 0,3-600 MHz >28 dB
- 600-1200 MHz >22 dB
- 1200-2000 MHz >18 dB

**HINTS ABOUT POWER HANDLING**
The cable length is negatively related to the power handling: the longer is the cable length the higher the electrical resistance will be, which turns into heat to dissipate. Moreover unwanted stationary waves ratios, are making the situation even worse. In SSB operations a 5/6 seconds transmission time, followed by the same reception lag, is giving the chance to consider the power handling values in the chart as doubled.

High resistance copper screen (Cu) made by means of 24 spools braiding machines. This braid is HIGHLY EFFECTIVE AGAINST IMPULSIVE NOISES.

**SCREENING PERCENTAGE: 83%**

The copper foil has an applied PE-coating, placed in order to prevent foil cracking due to short radius bends.

**SCREENING PERCENTAGE: 100%**

**CU-POL**

Inner conductor made of 19X0,38 stranded geometric and concentric copper wires.
Purity 99.99% annealed.

(annealed = thermal softening process)

Cu 19x0,38 mm - Ø 1,9 mm