

## 1/2" Super Flexible RF Coaxial Cable NO.7101105

### Construction Parameters:

|                         |                    |                                                                               |
|-------------------------|--------------------|-------------------------------------------------------------------------------|
| Inner Conductor         |                    | 3.58±0.03mm Copper Clad Aluminum Wire                                         |
| Insulation              |                    | 9.90±0.20mm Foamed PE                                                         |
| Outer Conductor         |                    | 12.00±0.20mm Helical Corrugated Copper Tube                                   |
| Jacket                  |                    | 13.30±0.20mm PE or LSZH                                                       |
| <b>ZION'S SKU</b>       |                    | <b>Short Description</b>                                                      |
| SKU                     | 7101105-PEBK-500M  | 1/2" Super Flexible RF Coax Cable PE Black Jacket (CPR Fca) 500M              |
|                         | 7101105-OEBK-500M  | 1/2" Super Flexible RF Coax Cable LSZH Black Jacket (CPR Eca) 500M            |
|                         | 7101105-OB2BK-500M | 1/2" Super Flexible RF Coax Cable LSZH Black Jacket (CPR B2ca-s1b,d0,a1) 500M |
|                         | 7101105-xxxx-xxxM  | xxxx-xxxM will be named by Test inquired and Packing Length.                  |
| Marking on Cable Jacket |                    | ZION 1/2" Super Flexible RF COAXIAL CABLE 7101105-xxxx-xxxM                   |

### Electrical Characteristics:

|                                   |              |
|-----------------------------------|--------------|
| Capacitance                       | 83 pF/m      |
| Impedance                         | 50 ±1 Ω      |
| Velocity of Propagation           | 81%          |
| Peak Power Rating                 | 15.6 KW      |
| Max. Operating Frequency          | 10.2 GHz     |
| Insulation Resistance             | >10000 MΩ.km |
| DC Breakdown Voltage              | 2500 V       |
| Jacket Spark Test Voltage         | 5000 Vrms    |
| Inner Conductor DC Resistance     | ≤ 2.97 Ω/km  |
| Outer Conductor DC Resistance     | ≥ 6.30 Ω/km  |
| Shielding Attenuation             | ≥ 120dB      |
| <b>VSWR</b>                       |              |
| 30MHz-2700MHz                     | ≤ 1.15       |
| 3300MHz-4200MHz                   | ≤ 1.15       |
| 4400MHz-5000MHz                   | ≤ 1.20       |
| <b>PIM</b>                        |              |
| Intermodulation (3rd order,2*20W) | ≤ - 160 dBc  |



# RF Feeder Coaxial Cable



## Mechanical Properties:

|                                |         |
|--------------------------------|---------|
| Bending Radius (Single Bend)   | 25 mm   |
| Bending Radius (Repeated Bend) | 55 mm   |
| Bending moment                 | 2.5 Nm  |
| Flat plate crush strength      | 15 N/mm |
| Tensile Strength               | 750 N   |

## Environmental Specifications:

|                          | PE Jacket       | LSZH Jacket     |
|--------------------------|-----------------|-----------------|
| Installation Temperature | -40°C to +60 °C | -20°C to +60 °C |
| Operating Temperature    | -55°C to +85 °C | -30°C to +80 °C |
| Storage Temperature      | -70°C to +85 °C | -30°C to +80 °C |

## Attenuation(20°C):

| Frequency (MHZ) | Attenuation (dB/100m) | Average Power (KW) |
|-----------------|-----------------------|--------------------|
| 200             | 4.60                  | 1.53               |
| 450             | 7.04                  | 1.00               |
| 800             | 9.57                  | 0.74               |
| 900             | 10.20                 | 0.69               |
| 1800            | 14.90                 | 0.47               |
| 2000            | 15.80                 | 0.45               |
| 2200            | 16.70                 | 0.42               |
| 2500            | 17.90                 | 0.39               |
| 2700            | 18.80                 | 0.38               |
| 3000            | 19.90                 | 0.36               |
| 3400            | 21.40                 | 0.33               |
| 4000            | 23.50                 | 0.30               |
| 5000            | 26.80                 | 0.26               |
| 6000            | 29.80                 | 0.24               |

※ Maximum attenuation value shall be 105% (some will be 110%) of above nominal attenuation value.

## Regular Compliance/Standards/Certifications:

|                |                                                                |
|----------------|----------------------------------------------------------------|
| Fire Resistant | IEC 60754-1,-2; IEC 60332-1,-2; IEC 61034-1,-2; IEC 60332-3-24 |
| RoHS           | Compliant RoHS 2011/65/EU                                      |
| REACH          | Compliant                                                      |
| CPR            | CPR EURO Level: Fca, Eca, B2ca-s1b,d0,a1                       |

## Packing

|                |                 |
|----------------|-----------------|
| Packing Length | 500M (Standard) |
|----------------|-----------------|