

## 7/8" Low Loss RF Coaxial Cable NO.7101109

### Construction Parameters:

|                         |                    |                                                                         |
|-------------------------|--------------------|-------------------------------------------------------------------------|
| Inner Conductor         |                    | 9.40±0.10mm Smooth Copper Tube                                          |
| Insulation              |                    | 22.80±0.30mm Foamed PE                                                  |
| Outer Conductor         |                    | 25.20±0.30mm Annular Corrugated Copper Tube                             |
| Jacket                  |                    | 27.50±0.30mm PE or LSZH                                                 |
| <b>ZION'S SKU</b>       |                    | <b>Short Description</b>                                                |
| SKU                     | 7101109-PEBK-500M  | 7/8" Low Loss RF Coax Cable PE Black Jacket (CPR Fca) 500M              |
|                         | 7101109-OEBK-500M  | 7/8" Low Loss RF Coax Cable LSZH Black Jacket (CPR Eca) 500M            |
|                         | 7101109-OB2BK-500M | 7/8" Low Loss RF Coax Cable LSZH Black Jacket (CPR B2ca-s1b,d0,a1) 500M |
|                         | 7101109-xxxx-xxxM  | xxxx-xxxM will be named by Test inquired and Packing Length.            |
| Marking on Cable Jacket |                    | ZION 7/8" Low Loss RF COAXIAL CABLE 7101109-xxxx-xxxM                   |

### Electrical Characteristics:

|                                   |              |
|-----------------------------------|--------------|
| Capacitance                       | 74 pF/m      |
| Impedance                         | 50 ±2 Ω      |
| Velocity of Propagation           | 90%          |
| Peak Power Rating                 | 90 KW        |
| Max. Operating Frequency          | 5.0 GHz      |
| Insulation Resistance             | >10000 MΩ.km |
| DC Breakdown Voltage              | 10000 V      |
| Jacket Spark Test Voltage         | 8000 Vrms    |
| Inner Conductor DC Resistance     | ≤ 2.50 Ω/km  |
| Outer Conductor DC Resistance     | ≥ 2.30 Ω/km  |
| Shielding Attenuation             | ≥ 120dB      |
| <b>VSWR</b>                       |              |
| 690MHz-960MHz                     | ≤ 1.15       |
| 1700MHz-2700MHz                   | ≤ 1.15       |
| 3300MHz-4200MHz                   | ≤ 1.20       |
| 4400MHz-5000MHz                   | ≤ 1.20       |
| <b>PIM</b>                        |              |
| Intermodulation (3rd order,2*20W) | ≤ - 160 dBc  |



## Mechanical Properties:

|                                |         |
|--------------------------------|---------|
| Bending Radius (Single Bend)   | 125 mm  |
| Bending Radius (Repeated Bend) | 250 mm  |
| Bending moment                 | 16 Nm   |
| Flat plate crush strength      | 10 N/mm |
| Tensile Strength               | 1450 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             | 1.66                  | 5.05               |
| 450             | 2.55                  | 3.29               |
| 800             | 3.48                  | 2.41               |
| 900             | 3.71                  | 2.26               |
| 1800            | 5.44                  | 1.54               |
| 2000            | 5.77                  | 1.45               |
| 2200            | 6.09                  | 1.38               |
| 2500            | 6.55                  | 1.28               |
| 2700            | 6.84                  | 1.23               |
| 3000            | 7.27                  | 1.15               |
| 3500            | 7.95                  | 1.05               |
| 4000            | 8.60                  | 0.97               |
| 5000            | 9.81                  | 0.85               |

※ 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) |
|----------------|-----------------|