

## DATA SHEET

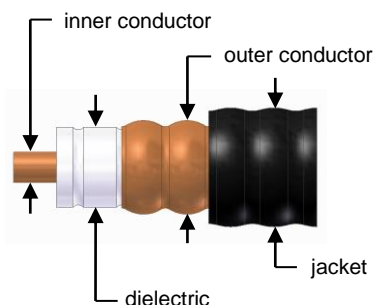
### COAXIAL CABLE

SpinnerFlex® LF7/8"-50-PE

BN A73089

SpinnerFlex® LF7/8"-50-CPR

BN A73029



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| DIMENSION / MATERIAL |   |
|----------------------|---|
| Inner conductor      | Ø 8.90 ±0.10 mm   Ø 0.35 ±0.004 in<br>Smooth copper tube      |
| Dielectric           | Ø 22.50 ±0.40 mm   Ø 0.89 ±0.016 in<br>Physically foamed PE   |
| Outer conductor      | Ø 24.90 ±0.30 mm   Ø 0.98 ±0.012 in<br>Ring corrugated Copper |
| Jacket               | Ø 27.30 ±0.20 mm   Ø 1.07 ±0.008 in<br>PE black               |

| MECHANICAL SPECIFICATION  |                 |                                      |
|---------------------------|-----------------|--------------------------------------|
| Minimum bending radius    | Single Repeated | 120 mm   4.72 in<br>250 mm   9.82 in |
| Max. tensile force        |                 | 1470 N   330.47 lbf                  |
| Crush resistance          |                 | 1.4 kg/mm   78.4 lb/in               |
| Recommended clamp spacing |                 | 1000 mm   39 in                      |
| Weight                    |                 | 0.5 kg/m   0.336 lb/ft               |

| ELECTRICAL SPECIFICATION         |  |
|----------------------------------|--|
| Impedance                        | 50 Ω ±1  |
| Propagation velocity             | 88 %   |
| Capacitance                      | 75 pF/m   22.87 pF/ft                                    |
| Inductance                       | 0.187 µH/m   0.057 µH/ft                                 |
| Inner conductor DC resistance    | 1.5 Ω/km   0.46 Ω/kft                                    |
| Outer conductor DC resistance    | 1.35 Ω/km   0.41 Ω/kft                                   |
| DC breakdown voltage             | 6.0 kV   |
| Peak power                       | 91 kW  |
| Max. operating frequency         | 5.0 GHz  |
| Insulation resistance            | >5 x10 <sup>3</sup> MΩ·km   >1.5 x10 <sup>3</sup> MΩ·kft |
| Screening attenuation            | >> 120 dB  |
| Cut-off frequency                | 5.5 GHz  |
| VSWR (selected frequency ranges) | ≤ 1.13   |

| ENVIRONMENTAL SPECIFICATION   |                  |  |                     |
|-------------------------------|------------------|--|---------------------|
| Recommended Temperature range | A73089           | -70 °C to +85 °C<br>-94°F to +185°F            | Storage             |
|                               |                  | -40 °C to +60 °C<br>-40°F to +140°F            | Installation        |
|                               |                  | -55 °C to +85 °C<br>-67°F to +185°F            | Operation           |
|                               | A73029           | -30 °C to +80 °C<br>-22°F to +176°F            | Storage             |
|                               |                  | -20 °C to +60 °C<br>-4°F to +140°F             | Installation        |
|                               |                  | -30 °C to +80 °C<br>-22°F to +176°F            | Operation           |
| CPR Class                     | A73089<br>A73029 | F <sub>ca</sub><br>B2 <sub>ca</sub> -s1a,d2,a1 | <a href="#">DoP</a> |
| RoHS 2002/95/EC               | Compliant        |  |                     |
| IEC 60754-1 IEC 60754-2       | Halogen-free     |  |                     |

| PERFORMANCE |  |       |                         |
|-------------|--|-------|-------------------------|
| Frequency   | Nom. attenuation<br>db/100m   dB/100ft |       | Mean power rating<br>kW |
| 10 MHz      | 0.366                                  | 0.112 | 24.80                   |
| 108 MHz     | 1.24                                   | 0.378 | 7.31                    |
| 174 MHz     | 1.60                                   | 0.488 | 5.68                    |
| 512 MHz     | 2.81                                   | 0.856 | 3.22                    |
| 824 MHz     | 3.69                                   | 1.12  | 2.44                    |
| 894 MHz     | 3.87                                   | 1.18  | 2.33                    |
| 925 MHz     | 3.97                                   | 1.21  | 2.26                    |
| 960 MHz     | 4.02                                   | 1.23  | 2.25                    |
| 1880 MHz    | 5.89                                   | 1.80  | 1.58                    |
| 2200 MHz    | 6.46                                   | 1.97  | 1.40                    |
| 2500 MHz    | 6.97                                   | 2.12  | 1.29                    |
| 2700 MHz    | 7.29                                   | 2.22  | 1.24                    |
| 3300 MHz    | 8.22                                   | 2.51  | 1.09                    |
| 3800 MHz    | 8.95                                   | 2.73  | 1.02                    |

Standard condition:  
 Attenuation: 20°C | 68°F ambient temperature  
 Mean power: 40°C | 104°F ambient temperature