

# SRFS TELEINFRA



**½" Hansen Feeder Cable Part No. RF50  
1/2"**

- The high Performance of attenuation allows co-axial cable to be used in different RF systems , such as 3G, 4G Mobile Communication.
- Wide range of applications, such as indoor distribution, broadcast, various base stations wireless cellular, and others.
- Lower VSWR, perfect shielding effectiveness, and extraordinary inter-modulation performance lead to fewer energy loss and outer interference

| CONSTRUCTION                             |                               |                |
|--|-------------------------------|----------------|
| Item                                     | Material                      | Diameter (mm)  |
| Inner Conductor                          | Copper Clad Aluminum wire     | 4.8±0.05 mm    |
| Dielectric                               | Physical Foam Polyethylene    | 12.20 ±0.30 mm |
| Outer Conductor                          | Ring Corrugated Copper        | 13.80 ±0.20 mm |
| Jacket                                   | PE                            | 15.80 ±0.20 mm |
| ELECTRICAL SPECIFICATION                 |                               |                |
| Cut Off Frequency                        | DC – 8 GHz                    |                |
| Impedence (Ω)                            | 50Ω                           |                |
| Capacitance (pF/m)                       | 75.8 pF/m                     |                |
| Velocity of Propagation (%)              | 88%                           |                |
| Peak Power                               | 40.0 kW                       |                |
| Voltage withstand (Vrms)                 | 4.0kV                         |                |
| Insulation Resistance                    | > 5 x 10 <sup>3</sup> MΩ / Km |                |
| Screening Attenuation                    | >120 dB                       |                |
| Mechanical & Environmental Specification |                               |                |
| Minimum Bending Radius                   |                               |                |
| Single Bend                              | 70 mm                         |                |
| Repeated Bend                            | 125 mm                        |                |
| Moving Bend                              | 350 mm                        |                |
| Pulling Strength                         | 1130 N                        |                |
| Crush Resistance                         | 2 kg / mm                     |                |
| Tensile Strength                         | 102 kg / (225 lb)             |                |
| Storage Temperature                      | -70 to +85°C                  |                |
| Installation Temperature                 | -40 to +60°C                  |                |

| Frequency (MHz) | Attenuation & Average Power at 20°C |       |
|-----------------|-------------------------------------|-------|
|                 | dB/100 m                            | kw    |
| 10              | 0.672                               | 11.30 |
| 100             | 2.17                                | 3.49  |
| 200             | 3.10                                | 2.44  |
| 450             | 4.75                                | 1.59  |
| 800             | 6.46                                | 1.17  |
| 900             | 6.87                                | 1.10  |
| 1000            | 7.28                                | 1.04  |
| 1500            | 9.09                                | 0.833 |
| 1800            | 10.10                               | 0.753 |
| 2000            | 10.70                               | 0.710 |
| 2500            | 12.10                               | 0.627 |
| 3000            | 13.40                               | 0.565 |



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