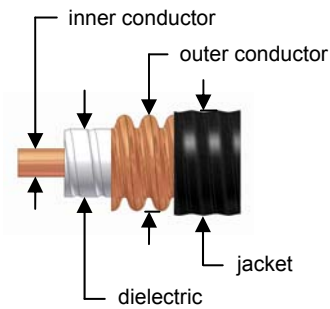


SPINNERFlex™ Cable



CSF012-50PE (BN A72931)

SPINNERFlex™ SF1/2"-50-PE – Hansen



| DIMENSION / MATERIAL | |
|----------------------|--|
| Inner conductor | Ø 3.60±0.04 mm Ø 0.141±0.002 in Copper clad aluminum wire |
| Dielectric | Ø 8.80±0.20 mm Ø 0.35±0.008 in Physically foamed PE |
| Outer conductor | Ø 12.20±0.20 mm Ø 0.48±0.008 in Helically corrugated Copper |
| Jacket | Ø 13.60±0.20 mm Ø 0.54±0.008 in PE black |

| ENVIRONMENTAL SPECIFICATION | |
|-------------------------------|---|
| Recommended temperature range | -70 °C to +85 °C -94°F to +185°F Storage -40 °C to +60 °C -40°F to +140°F Installation -55 °C to +85 °C -67°F to +185°F Operation |
| RoHS 2002/95/EC | Compliant |

| MECHANICAL SPECIFICATION | | |
|---------------------------|-----------------|------------------------------------|
| Minimum bending radius | Single Repeated | 25 mm 0.98 in 30 mm 0.18 in |
| Max. tensile force | | 800 N 179.85 lbf |
| Crush resistance | | 1.9 kg/mm 204 lb/in |
| Recommended clamp spacing | | 300 mm 12 in |

| PERFORMANCE | | | |
|-------------|--|-------|-------------------------|
| Frequency | Nom. attenuation db/100m dB/100ft | | Mean power rating kW |
| 10 MHz | 1.04 | 0.32 | 10.1 |
| 108 MHz | 3.55 | 1.08 | 2.97 |
| 174 MHz | 4.56 | 1.39 | 2.31 |
| 512 MHz | 8.15 | 2.48 | 1.29 |
| 824 MHz | 10.61 | 3.23 | 0.99 |
| 894 MHz | 11.10 | 3.38 | 0.94 |
| 925 MHz | 11.32 | 3.45 | 0.92 |
| 960 MHz | 11.56 | 3.52 | 0.91 |
| 1880 MHz | 17.01 | 5.18 | 0.64 |
| 2200 MHz | 18.64 | 5.68 | 0.56 |
| 2500 MHz | 20.11 | 6.13 | 0.52 |
| 2700 MHz | 21.06 | 6.42 | 0.49 |
| 3300 MHz | 23.76 | 7.24 | 0.44 |
| 3800 MHz | 25.90 | 7.89 | 0.42 |
| 5350 MHz | 32.03 | 9.76 | 0.33 |
| 5825 MHz | 33.79 | 10.30 | 0.31 |

| ELECTRICAL SPECIFICATION | |
|------------------------------------|---|
| Impedance | 50 Ω ±1 |
| Propagation velocity | 81 % |
| Capacitance | 82 pF/m 25 pF/ft |
| Inductance | 0.205 µH/m 0.008 µH/ft |
| Inner conductor DC resistance | 2.69 Ω/km 0.82 Ω/kft |
| Outer conductor DC resistance | 3.54 Ω/km 1.08 Ω/kft |
| DC breakdown voltage | 2.5 kV |
| Peak power | 15.6 kW |
| Max. operating frequency | 10.2 GHz |
| Insulation resistance | > 5 x10 ³ MΩ·km >1.5 x10 ³ MΩ·kft |
| Screening attenuation | >> 120 dB |
| Cut-off frequency | 10.2 GHz |
| VSWR (selected frequency range) | ≤ 1.13 |

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