

PRODUCT DESCRIPTION

HFSC Series cables are super flexible lightweight coaxial cables featuring a copper clad aluminum conductor, foamed polyethylene dielectric and corrugated copper metallic shield. This helically corrugated cable has the highest number of corrugations per inch and the lowest minimum bending radius, making it well-suited for jumper cable and installations where bending and tight spaces require a more flexible cable.

FEATURES **BENEFITS** · Light weight and flexible • Easy to transport and install • Outperforms the industry • Low passive intermodulation requirements for low passive intermodulation • Easy connectorization • Full line of high-quality low intermodulation DIN and N connectors and cable preparation tools minimize installation time and expense • Factory tested and inspected • 100% of all RF cables are inspected and tested to meet or exceed industry specifications including passive intermodulation • Rugged and durable • High-quality materials result in rugged cables that are able to withstand extreme environments without corrosion

Copper-clad aluminum wire
Foamed polyethylene
Helically corrugated copper tube
Black polyethylene
-40 to +185 (-40 to +80)

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PART NUMBERS AND PHYSICAL CHARACTERISTICS									
	Cable Size		Nominal Diameter in (mm)				Approx. Weight	Flat Plate Crush Resistance	Maximum Pulling Force
Part Num		Inner Conductor	Dielectric	Outer Conductor	Jacket	Bend Radius in (mm)	lbs/kft (kg/km)	lbs/in (kg/mm)	lbs (kg)
HFSC-1	2D ½ (12)	0.14 (3.6)	0.35 (8.9)	0.48 (12.2)	0.54 (13.6)	1.26 (32)	135 (201)	0.10 (1.7)	143 (65)

ELECTRICAL SPECIFICATIONS										
			C Resistance (Ohms/km)	Insulation	Dielectric Strength	Velocity of	Peak Power	Maximum Operating	Characteristic	Typical
Part Number	Cable Size in (mm)	Inner	Outer	Resistance $m\Omega$ km	for 1 minute DC Potential - Volts	Propagation %	Rating kW	Frequency GHz	Impedance Ohms	Return Loss dB
HFSC-12D	½ (12)	0.87 (2.85)	0.99 (3.25)	10,000	2,500	81	15.6	10.0	50	28

Frequency MHz	Attenuation at 20°C dB/100 ft (dB/100 m)	Average Power Rating at Ambient 40°C Inner Conductor 100°C kW
30	0.55 (1.80)	4.87
100	1.01 (3.33)	2.62
150	1.25 (4.10)	2.12
450	2.22 (7.29)	1.19
824	3.08 (10.10)	0.85
894	3.20 (10.50)	0.82
960	3.35 (11.00)	0.79
1,000	3.41 (11.20)	0.77
1,700	4.57 (15.00)	0.57
1,800	4.72 (15.50)	0.55
2,000	5.00 (16.40)	0.52
2,400	5.55 (18.20)	0.47
3,000	6.31 (20.70)	0.41
4,000	7.44 (24.40)	0.35
6,000	9.45 (31.00)	0.27
10,000	12.89 (42.30)	0.20

Standard Conditions: V.S.W.R. 1.0,

Ambient Temperature 20°C/Attenuation is typical value.

Frequency MHz	V.S.W.R.
800-960	1.15
1,700-2,200	1.15