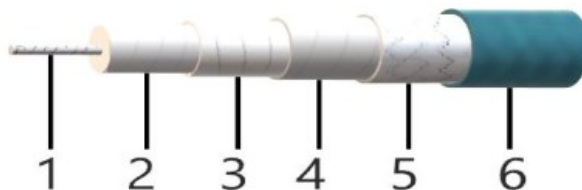


Features & Benefits

- Good mechanical/temperature phase stability
- Good temperature phase stability
- Ultra-low loss and amplitude stability
- Super Soft
- High shielding efficiency



Construction Description:

	Description	Size (mm)	Tolerance (mm)	Materials
1	Center conductor	2.30	±0.02	Stranded Silver Plated Copper
2	Dielectric	6.10	±0.05	LD PTFE
3	Outer conductor	6.40	±0.08	Silver Plated Copper Foil
4	Inner Tape	6.65	±0.08	PTFE
5	Outer shield	7.20	±0.08	Silver Plated Copper
6	Jacket	7.80	±0.10	FEP Green

Mechanical& Environmental Specifications

Bend Radius: installation	39.00 (mm)
Bend Radius: Dynamic	78.00 (mm)
Weight	0.06 (Kg/m)
Temp, Operating & Installation	-55~+165 (°C)

Electrical Specifications

Operation Frequency	18 (GHz)
Cutoff frequency	18 (GHz)
Impedance	50 (Ohms)
Velocity of Propagation	82%
Shielding Effectiveness	90 (dB)
Voltage Withstand (V,DC)	3000
Bending Phase (18GHz)	± 6°

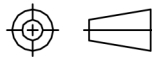
Attenuation (Typical@25°C&VSWR=1.0) &Power (VSWR=1.0;40°C;Sea Level)

Frequency MHz	300	500	1000	3000	4000	6000	8000	10000	12000	16000	18000
dB/100 m	9.64	12.48	17.73	31.09	36.06	44.49	51.69	58.10	63.96	74.78	79.30
Avg. Power (kW)	3.350	2.588	1.821	1.039	0.896	0.726	0.625	0.556	0.505	0.434	0.407

$$K1 = 0.5514590$$

$$K2 = 0.0002955$$

$$\text{Calculate Attenuation} = K1 * \sqrt{F} \text{MHz} + K2 * F \text{MHz}$$

Tolerances .X ±0.2 .XX ±0.1 .XXX ±0.05	Scale	Abbr.	Rev.	Part Number UHS-800 (SHF800)	
	NTS	ST	B		
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	Email: info@iprece.com			2022/12/15	