#### Ultra low loss flexible cable



Cable

VP

Max. Dia.

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SHF2.2UF		2.25mm	5.20 dB/m @ 40 GHz	10 mm	14 g/m
DC - 40 GHz	79%	0.089in.	158 dB/100ft	0.394in.	4.3 g/ft
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SHF2.4M	76%	2.45mm	4.59 dB/m @ 40 GHz	10 mm	20 g/m
DC - 40 GHz		0.095in.	139 dB/100ft	0.394in.	6.1 g/ft
SHF3	76%	3.50mm	3.7 dB/m @ 40 GHz	12.5 mm	29 g/m
DC - 40 GHz		0.138in.	113 dB/100ft	0.492in.	8.8 g/ft
SHF3M	76%	3.64mm	2.76 dB/m @ 40 GHz	12.5 mm	35 g/m
DC - 40 GHz		0.139in.	139 dB/100ft	0.492in.	10.6 g/ft
SHF4M	84%	4.15mm	2.05 dB/m @ 40 GHz	20 mm	40 g/m
DC - 40 GHz		0.160in.	62 dB/100ft	0.788in.	12.2 g/ft
SHF4.2M	76%	4.20mm	1.96 dB/m @ 26.5 GHz	25 mm	45 g/m
DC - 26.5 GHz		0.165in.	62 dB/100ft	0.984in.	13.6 g/ft
SHF4.6M	84%	4.65mm	1.69 dB/m @ 32 GHz	25 mm	41 g/m
DC - 32.3 GHz		0.183in.	51 dB/100ft	0.984in.	12.5 g/ft
SHF5	78%	5.25mm	1.55 dB/m @ 26.5 GHz	25 mm	72 g/m
DC - 26.5 GHz		0.203in.	47 dB/100ft	0.984in.	21.8 g/ft
SHF5M	84%	5.20mm	1.27 dB/m @ 26.5 GHz	25 mm	60 g/m
DC - 26.5 GHz		0.201in.	39 dB/100ft	0.984in.	18.2 g/ft
SHF5UF	77%	5.47mm	1.63 dB/m @ 26.5 GHz	25 mm	72 g/m
DC - 26.5 GHz		0.215in.	50 dB/100ft	0.984in.	21.8 g/ft
SHF8	78%	7.80mm	0.9 dB/m @ 18 GHz	40 mm	140 g/m
DC - 18 GHz		0.303in.	27 dB/100ft	1.575in.	42.4 g/ft
SHF8M	84%	7.78mm	0.68 dB/m @ 18 GHz	40 mm	130 g/m
DC - 18 GHz		0.302in.	21 dB/100ft	1.575in.	39.4 g/ft
SHF13	85%	13.8mm	0.3 dB/m @ 8 GHz	60 mm	280 g/m
100 kHz - 9.5 GHz		0.543in.	9 dB/100ft	2.362in.	84.8 g/ft

Attenuation

**Bending Radius** 

Weight

## Stranded inner conductor cable



Using standed center conductor allow better flexibility while keeping good IL performance level Longer flex life SHF3, SHF5, SHF8

## Ultra Flexible cable



Unique design of center conductor as well as braiding and jacketing provide a unique flexibility behavior to SHF UF

Low bending moment Up to 1 million flexures

## Armored cable



In many customer applicatioons mechanical stress may damage cable assemblies. Radiall has designed several levels of armored structures embedding SHF core lines.

Crush resistant Abrasion resistant **UV** resistant Watertightness

## **Outdoor cable**



Designed to be used in outdoor environments, Radiall's OutDoor cables are typically chosen for Ground Radars and Navy systems.

**UV** resistant Watertightness

# **Light Weight & Air Frame cable**



Radiall's LightWeight range is the best choice for on-board equipements, where weight and density are critical.

SHF AirFrame cables moto is: Robustness for long life in extreme condition. Radiall's AirFrame cables are used in non-pressurized or not-protected areas.

30% weight saving Hermetically sealed 15 Km (50,000 ft) - 150°C Fluid resistant

# Space qualified cable



To resist to the extreme conditions in space. Space qualified range includes several jacket material options. Our cable radiation resistance is up to 80Mrads with Fluorinated ethylene propylene (FEP) jackets, whilst ETFE version resist to more than 120Mrads.

Ultra-low-weight Non-outgassing materials High radiation resistance

# Connectors

The unique design of SHF cables dictates the use of custom-designed connectors. We pay particular attention to design of the compensation area and to termination techniques to assure low VSWR and thus to complement our superior cable performance.

Our Cable/Connector terminations are designed to maintain shield integrity into the connectors to get the lowest leakage attainable in a flexible assembly. All electrical connections

(center contact and inner tape shield) are soldered.

Most popular connector interfaces fitting to SHF cables are SMPM, SMP, SSMA, SMA, QRE, TNC and N Type.