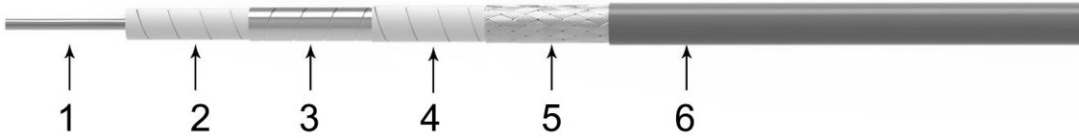


Features & Benefits

- Excellent phase stability with flexure 26.5GHz $\leq 5^\circ$
- Minimal attenuation change in dynamic condition
- Available in armor options
- Temperature phase stability $< 550\text{ppm}(-40^\circ\text{C to }+85^\circ\text{C})$
- Alternative to SUCOFLEX104, CXN3449, UFB205A
- Robust structure with triple shielding

Cable Construction



No.	Construction	Size(mm)	Materials
1	Center conductor	1.45	Silver Plated Copper
2	Dielectric	4.00	LD PTFE
3	Outer conductor	4.20	Silver Plated Copper Wrap
4	Interlayer	4.45	PTFE
5	Outer shield	4.90	Silver Plated Copper Braid
6	Jacket	5.40	Grey FEP

Wrapped 360° around a 54mm diameter mandrel.

Electrical and Mechanical Specifications	
Frequency range	DC-26.5 GHz
Impedance	50 Ω
Min.Bending Radius Static	26mm
Min. Bending Radius Repeated	52mm
Velocity of Propagation	82%
Weight	63g/m
Shielding Effectiveness	$>90\text{ dB}$
Temperature(Operation)	$-55 \sim 150\text{ }^\circ\text{C}$
Withstanding Voltage	1500 V
Temperature(Storage)	$-60 \sim 160\text{ }^\circ\text{C}$
*Mechanical Phase Stability	$< \pm 5^\circ$
Amplitude Stability vs Shaking	$< \pm 0.1\text{ dB}$
Temp Phase Stability	$< 550\text{ppm}(-40^\circ\text{C to }+85^\circ\text{C})$

SRFS TELEINFRA



Ultra-Low Loss Phase and Amplitude Stable Flexible Cable SRF520



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

Frequency MHz	300	1000	2000	4000	6000	8000	10000	12000	14000	18000	20000	26500
dB/100 Meter	12.5	23.0	32.7	46.6	57.4	66.6	74.8	82.3	89.3	101.9	107.8	125.2
Avg.Power kW	1.608	0.875	0.615	0.431	0.350	0.302	0.268	0.244	0.225	0.197	0.186	0.160

$$\text{Attenuation at any frequency} = [0.715686 \times \text{SQRT}(\text{FMHz})] + [0.000328 \times \text{FMHz}]$$

Available connectors

Connectors	Gender	Orientation	Mounting	Max Freq.(GHz)	VSWR Max
SMA	Male/Female	Straight	Standard	26.5	1.3
SMA	Male	Right Angle	Standard	18	1.35
N	Male	Straight	Standard	18	1.25
N	Male	Right Angle	Standard	18	1.35
N	Female	Straight	Standard	18	1.35
TNC	Male	Straight	Standard	18	1.35
3.5mm	Male	Straight	Standard	26.5	1.3



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