

SRFS TELEINFRA

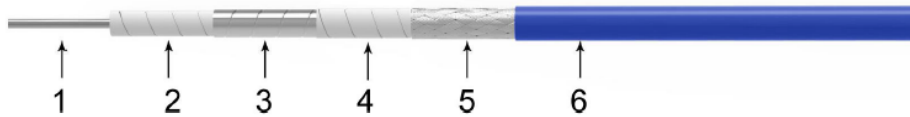
Ultra-Low Loss Phase and Amplitude Stable Flexible Cable

SRFS360P

Features & Benefits

- Excellent phase stability with flexure 50 GHz $\leq 5^\circ$
- Bulk Cable in Stock
- Available in armor options
- Typical VSWR < 1.25 to 50 GHz
- Alternative to Gore CXN3507
- Durable for test use with multi layer protection

Cable Construction



No.	Construction	Size(mm)	Materials
1	Center conductor	0.72	Solid Silver Plated Copper
2	Dielectric	2.15	LD PTFE
3	Outer conductor	2.30	Silver Plated Copper Tape Wrap
4	Interlayer	2.60	LD PTFE
5	Outer shield	3.05	Silver Plated Copper Braid
6	Jacket	3.60	FEP

Electrical & Mechanical Specification

Frequency range	DC-50 GHz
Impedance	50 Ω
Min.Bending Radius Static	18mm
Min. Bending Radius Repeated	36mm
Velocity of Propagation	76%
Weight	34g/m
Shielding Effectiveness	> 90 dB
Temperature(Operation)	$-50 \sim 150$ °C
Withstanding Voltage	1000 V
Temperature(Storage)	$-60 \sim 160$ °C
*Mechanical Phase Stability	$< \pm 5^\circ$
Amplitude Stability vs Shaking	$< \pm 0.1$ dB
Temp Phase Stability	< 1300 ppm (-40°C to $+85^\circ\text{C}$)

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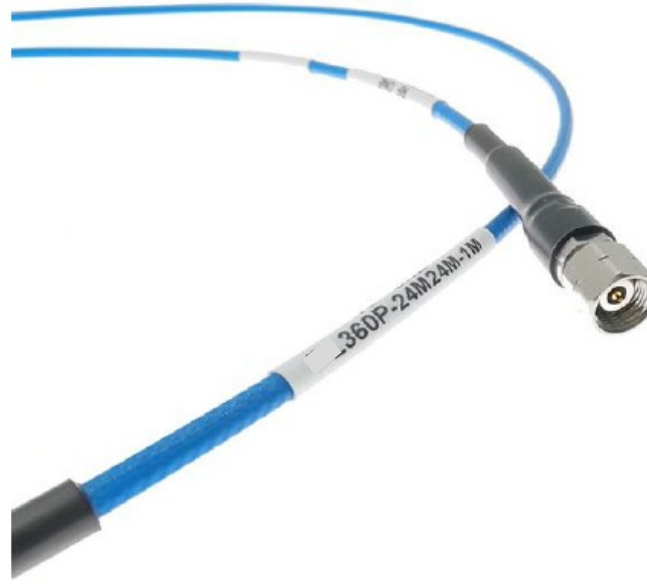
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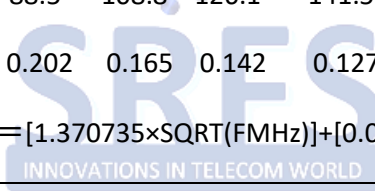
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Attenuation(Typical@25°C&VSWR=1.0) & Power(VSWR=1.0; 40°C; Sea level)

Frequency MHz	300	1000	2000	4000	6000	8000	10000	12000	18000	26500	40000	50000
dB/100 Meter	23.9	43.8	62.2	88.5	108.8	126.1	141.5	155.4	191.8	234.8	291.7	328.5
Avg.Power kW	0.750	0.409	0.288	0.202	0.165	0.142	0.127	0.115	0.093	0.076	0.061	0.055

$$\text{Attenuation at any frequency} = [1.370735 \times \text{SQRT}(\text{FMHz})] + [0.000440 \times \text{FMHz}]$$



Available connectors

Connectors	Gender	Orientation	Mounting	Max Freq.(GHz)	VSWR Max
SMA	Male/Female	Straight	Standard	26.5	1.25
N	Male	Straight	Standard	18	1.3
3.5mm	M/F	Straight	Standard	33	1.3
2.92mm	M/F	Straight	Standard	40	1.3
2.92mm	M	Right Angle	Standard	38	1.4
2.92mm	Female	Straight	Bulkhead	40	1.4
2.4mm	M/F	Straight	Standard	50	1.35

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