

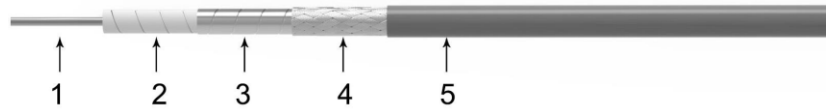
SRFS TELEINFRA

Ultra-Low Loss Phase and Amplitude Stable Flexible Cable

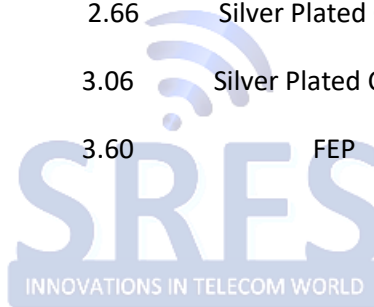
SRFS360

Features & Benefits

- Excellent phase stability with flexure 40 GHz $\leq 6^\circ$
- Lower loss than equivalent same-size cables
- Available in armor options
- Temperature phase stability $< 680\text{ppm}(-40^\circ\text{C to }+85^\circ\text{C})$
- Alternative to Gore CXN3507
- Wide Choice of Connector



No.	Construction	Size(mm)	Materials
1	Center conductor	0.91	Solid Silver-Plated Copper
2	Dielectric	2.50	LD PTFE
3	Outer conductor	2.66	Silver Plated Copper Tape Wrap
4	Outer shield	3.06	Silver Plated Copper Braid
6	Jacket	3.60	FEP



Electrical & Mechanical Specification	
Frequency range	DC-40 GHz
Impedance	50 Ω
Min. Bending Radius Static	18mm
Min. Bending Radius Repeated	36mm
Velocity of Propagation	82%
Weight	33g/m
Shielding Effectiveness	$>90\text{ dB}$
Temperature(Operation)	$-50\sim 150\text{ }^\circ\text{C}$
Withstanding Voltage	1000 V
Temperature(Storage)	$-60\sim 160\text{ }^\circ\text{C}$
*Mechanical Phase Stability	$<\pm 6^\circ$
Amplitude Stability vs Shaking	$<\pm 0.15\text{ dB}$
Temp Phase Stability	$<680\text{ppm}(-40^\circ\text{C to }+85^\circ\text{C})$

* Wrapped 360° around a 36mm diameter mandrel.

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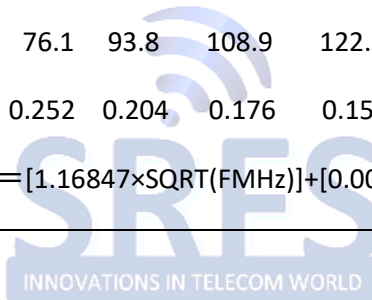
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Attenuation(Typical@25°C&VSWR=1.0) & Power(VSWR=1.0; 40°C; Sea level)

Frequency MHz	300	1200	2500	4000	6000	8000	10000	12000	14000	18000	32000	40000
dB/100 Meter	20.4	41.1	59.8	76.1	93.8	108.9	122.3	134.6	146.0	166.7	226.6	255.7
Avg.Power kW	40	0.466	0.321	0.252	0.204	0.176	0.157	0.142	0.131	0.115	0.094	0.075

Attenuation at any frequency= $[1.16847 \times \text{SQRT}(\text{FMHz})] + [0.000550 \times \text{FMHz}]$



Available connectors

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

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SRFS Teleinfra | All specifications are subject to change. Unless otherwise stated, all specifications are nominal. SRFS reserves the right to make such changes as required. It may be necessary to make modifications to the part and/or the documentation of the part to implement improvements. See www.srfsteleinfra.in for the most current information. Revised: 19 Jan 2023

