

FS141SRL

26.5GHz, 50 Ohm, 3.58mm OD, Tri-metal plated seamless copper tube, Low-loss semi-rigid cable

Cable Construction



Construction Details

Description	OD (mm)	Material
Inner Conductor	0.99	Silver-plated copper
Dielectric	3.00	PTFE
Outer Conductor	3.58	Tri-metal plated seamless copper tube

Electrical Specifications:

Operating Frequency: DC to 26.5 GHz

Cutoff Frequency: 36 GHz

Nominal Impedance: 50 Ω

Velocity of Propagation: 76%

Shielding Effectiveness: ≥165 dB

Dielectric Withstanding Voltage: 1000 V DC

Mechanical Specifications:

Minimum Static Bend Radius: 15 mm

Weight: 47 g/m

Environmental Specifications:

Temperature: -55 °C to +250 °C

Typical Attenuation(dB/100m)¹ and Power handling (W)²

Freq. (GHz)	1	2	6	8	10	12.4	18	26.5
Attenuation ¹	31.7	45.5	81.7	95.6	108.1	121.8	150.3	187.7
Avg. Power ²	1121	781	435	372	329	292	236	189
K1: 0.965845; K2: 0.001151								

1: Typical values at +25°C with VSWR=1.0.

2: Typical values at +40°C, sea level, with VSWR=1.0.

3: Typical Cable Attenuation Calculation Formula: $K1 * \sqrt{F(MHz)} + K2 * F(MHz)$.

4: Typical Connector insertion loss: $0.03 * \sqrt{F(GHz)}$; multiply by the number of connectors.

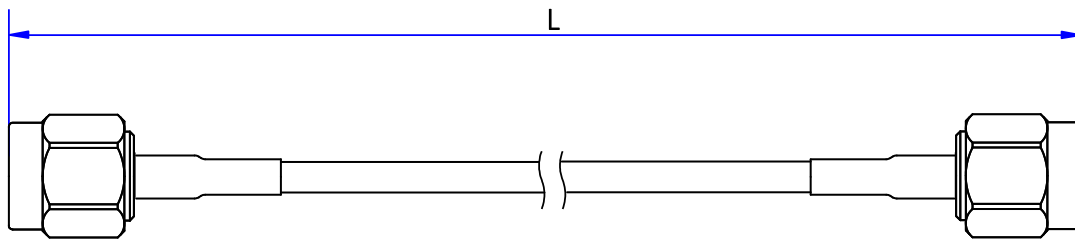
Connector Options

Connector Type	Male Code	Female Code	Max. Frequency	Max. VSWR
SMP	PM	PF	26.5 GHz	1.30:1
SMPM	MM	MF	26.5 GHz	1.30:1
SSMA	JM	JF	26.5 GHz	1.30:1
SMA	SM	SF	18 GHz	1.25:1
N	NM	NF	18 GHz	1.25:1
MMCX	XM	XF	6 GHz	1.30:1
MCX	CM	CF	6 GHz	1.30:1
BNC	BM	BF	4 GHz	1.35:1
SMB	EM	EF	4 GHz	1.25:1

Notes:

- Other connector types and configurations are available upon request.
- Add suffix "R" for a right-angle connector and "H" for a bulkhead connector, e.g., SMR and SFH.

Typical Cable Assembly Outline



Notes:

- Connector styles shown are for illustration only. Actual connector types and geometries depend on the selected configuration.
- L = cable assembly length. For straight and bulkhead connectors, L is measured end to end. For right-angle connectors, L is measured from the connector centerline.
- Standard label content includes the part number, serial number, and company logo, unless otherwise specified.

Ordering Information

PN: Cable-Max. Freq.-Connector Configuration-Length (m)

E.g.: *FS141SRL-26.5-SMSF-1* means a FS141SRL cable assembly, DC to 26.5GHz, SMA(m)-SMA(m), 1m.

For identical connectors on both ends, add “2” to the connector code, e.g., SM2; otherwise, list both codes in End A-to-End B order, e.g., SMSF.