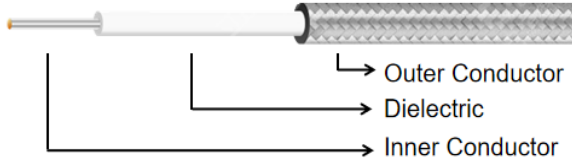


FS141SF

33GHz, 50 Ohm, Ø3.52mm OD, Tinned Copper Braid, Hand Formable RG402 Cable.

Cable Construction



Construction Details

Description	OD (mm)	Material
Inner Conductor	0.93	Silver-plated copper
Dielectric	2.98	PTFE
Outer Conductor	3.52	Tinned copper braid

Electrical Specifications:

Operating Frequency: DC to 26.5 GHz

Cutoff Frequency: 33 GHz

Nominal Impedance: 50 Ω

Signal delay: 4.7ns/m

Velocity of Propagation: 70%

Shielding Effectiveness: ≥100 dB

Dielectric Withstanding Voltage: 1500 V DC

Mechanical Specifications:

Minimum Static Bend Radius: 8.0 mm

Minimum Dynamic Bend Radius: 40 mm

Weight: 44 g/m

Environmental Specifications:

Temperature: -55 °C to +125 °C

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

Freq. (GHz)	0.5	1	2	3	6	10	18	26.5	33
Attenuation	28	41	60	75	112	152	219	281	369
CW Power	601	425	301	245	174	134	100	83	74
K1: 1.193399; K2: 0.003261									

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.

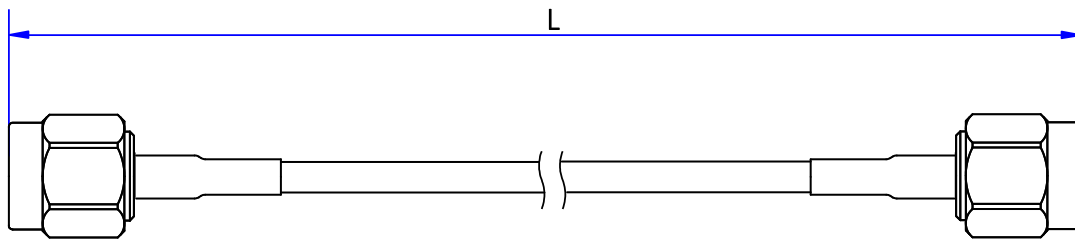
Connector Options

Connector Type	Male Code	Female Code	Max. Frequency	Max. VSWR
3.5mm	3M	3F	26.5 GHz	1.25:1
SMP	PM	PF	26.5 GHz	1.25:1
SMA	SM	SF	18 GHz	1.25:1
N	NM	NF	18 GHz	1.25:1
MCX	CM	CF	6 GHz	1.30:1
MMCX	XM	XF	6 GHz	1.30:1
BNC	BM	BF	4 GHz	1.25:1
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.: *FS141SF-26.5-SMSF-1* means a FS141SF cable assembly, DC to 26.5 GHz, 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.