

FD141

Hand Formable

Features:

- * Hand formable
- * Quick and easy assembly

Applications:

- * Instrumentation
- * Laboratory test
- * Interconnection

Electrical

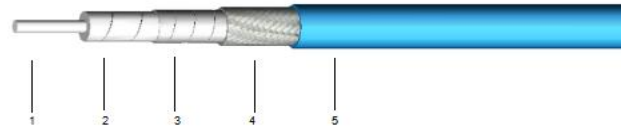
Frequency:	DC~26.5GHz
Capacitance:	98pF/m
Impedance:	50Ω
VSWR:	1.25max.
Velocity of Propagation:	70%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	3000V DC
Time Delay:	4.7ns/m

Mechanical

Bend Radius Static:	20mm
Weight:	50g/m

Environmental

Temperature:	-55~+150°C
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Construction


No.	Name	Size (mm)	Material
1	Inner Conductor	0.92	Silver-plated copper
2	Dielectric	2.99	PTFE
3	Outer Conductor	3.19	Spiral wrapped silver plated copper bridging
4	Outer Shield	3.55	Silver-plated copper wire braiding
5	Jacket	4.10	FEP(blue)

Attenuation & Power Handling

Frequency (GHz)	0.5	1	2	3	5	6	10	18	20	26.5
Attenuation*1 (dB/100m)	27	41	62	78	105	106	158	222	234	296
Average Power*2 (W)	790	526	351	277	205	185	137	97	88	70

[1] VSWR:1.0; Ambient: +25°C (77°F)

[2] VSWR:1.0; Ambient: +40°C (104°F); Sea level

Calculate Cable Attenuation: Attenuation (dB/100m) = $1.193399 * \sqrt{F \text{ (MHz)}} + 0.003261 * F \text{ (MHz)}$

Calculate Connector Attenuation: Attenuation (dB) = $0.03 * \sqrt{F \text{ (GHz)}}$

How To Order

FD141-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a FD141 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify FD141-18-SSF-0.5.

Connector naming rules:

3 - 3.5mm (6GHz, VSWR 1.2)

P - SMP (6GHz, VSWR 1.2)

A - SSMA (6GHz, VSWR 1.2)

S - SMA (6GHz, VSWR 1.2)

N - N (6GHz, VSWR 1.2)

X - MMCX (6GHz, VSWR 1.3)

M - MCX (6GHz, VSWR 1.3)

B - BNC (4GHz, VSWR 1.25)

D - SMB (4GHz, VSWR 1.25)

Female Connector - Add 'F' after connector name

Right Angle - Add 'R' after connector name (VSWR increase 0.1)

Mating Connector

FCK-MG-141-1

2.92mm male, Stainless steel



FCS-MG-141-3

SMA male, Stainless steel



FCS-MRB-141-4

SMA male, Right angle, Gold plated brass

FCS-MRG-141-3

SMA male, Right angle, Stainless steel

FCS-FB-141-1

SMA female, Gold plated brass



FCS-FL2B-141-1

SMA female, 2 - hole flange mount, Brass

FCS-FL4B-141-1

SMA female, 4- hole flange mount, Gold plated brass



FCS-FHB-141-1

SMA female, Bulk head, Brass

FCN-MB-141-3

N male, Nickel plated brass



FCN-MRB-141-1

N male, Right angle, Nickel plated brass



FCN-MRB-141-2

N male, Right angle, Gold plated brass



FCN-FB-141-1

N female, Nickel plated brass



FCB-MB-141-1

BNC male, Ternary alloy plated brass

