

NBR200

Narrow Bend Multi-Shielded Flexible Cable

Features:

- * Low Insertion Loss
- * High Phase Stability
- * High Power
- * High Durability
- * Bend from connector end
- * Eliminating the use of right angle connectors
- * Robust with multi-interlayer

Applications:

- * Laboratory Test
- * Avionics
- * Phased-array Radar
- * Satellite Communication



Electrical

Frequency:	DC~67 GHz
Impedance:	50Ω
Velocity of Propagation:	70%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	800V
DC Phase Stability ¹ :	±7°
Amplitude Stability ¹ :	±0.08dB

[1] 26mm radius, 360° bending

Mechanical

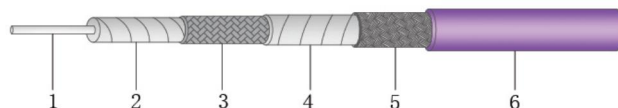
Unarmored Bend Radius	
Static / Repeated:	5mm / 12mm min.
Weight:	12g/m
Bending Life Cycle:	100,000
Mating Life Cycle ² :	5,000
Mechanical Phase Stability:	<±6° @ 40GHz
Amplitude Stability vs Shaking:	<±0.2dB

[2] For connectors 1,85mm, 2.4mm, 2.92mm, SSMP, SMA

Environmental

Temperature: -55 125 °C

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.36	Silver-plated copper
2	Dielectric	1.14	Low density PTFE
3	Inner Shield	1.30	Silver-plated copper tape
4	Interlayer	1.45	Aluminum foil
5	Outer Shield	1.66	Stainless steel wire
6	Jack.et	2.00	FEP

Tolerance: ±0.2mm [±0.008in]

Attenuation & Power Handling

Frequency (MHz)	1000	2000	4000	8000	12000	14000	16000	18000	26500	31000	36000	40000	45000	50000	55000	67000
Attenuation*1 (dB/100m)	101,0	144,4	207,5	299,8	373,2	405,9	436,7	466,0	578,2	631,7	687,9	730,7	782,0	831,3	878,9	987,2
Average Power*2 (W)	167,0	117,0	85,0	58,0	47,0	43,0	40,0	38,0	31,0	28,5	26,1	25,0	23,5	22,2	20,9	19,0

[3] VSWR:1.0; Ambient: +25 C (77 C); Raw cable

[4] VSWR:1.0; Ambient: +40 C (104 C); Sea level

Calculate Cable Attenuation: Attenuation (dB/100m) = $\sqrt{3.10711} * F \text{ (MHz)} + 0.00273 * F \text{ (MHz)}$

Available Connectors

How To Order

NBR200-X-Y-Z

X: Frequency In GHz

Y: Connector type

Z: Length in meters

Connectors	Type	Orientation	Max Freq.(GHz)	VSWR Max
SMA(M)	S	Straight	26.5	1.35
SSMP(M)	G	Straight	26.5	1.35
2.92mm(M)	K	Straight	40.0	1.40
2.40mm(M)	2	Straight	50.0	1.40
1.85 (M)	V	Straight	67.0	1.45

Examples:

To order a NBR200 test cable assembly, DC-40GHz,

2.92mm male to 2.92mm male, 0.5 meter,specify

NBR200-40-KK-0.5.