

NBR260L

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~50 GHz
Impedance:	50Ω
Velocity of Propagation:	75%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	1000V
DC Phase Stability ^{*1} :	±7°
Amplitude Stability ^{*1} :	±0.08dB

[1] 26mm radius, 360° bending

Mechanical

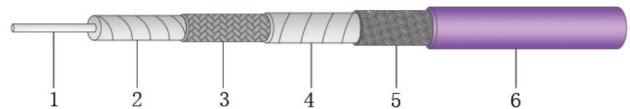
Unarmored Bend Radius	
Static / Repeated:	10,5mm / 26mm min.
Weight:	17g/m
Bending Life Cycle:	100,000
Mating Life Cycle ^{*2} :	5,000
Mechanical Phase Stability:	<±6° @ 40GHz
Amplitude Stability vs Shaking:	<±0.2dB

[2] For connectors 2.4mm, 2.92mm, SMA only.

Environmental

Temperature: -55 125 °C

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.56	Silver-plated copper
2	Dielectric	1.70	Low density PTFE
3	Inner Shield	1.85	Silver-plated copper tape
4	Interlayer	1.98	Aluminum foil
5	Outer Shield	2.24	Stainless steel wire
6	Jacket	2.64	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
Attenuation*1 (dB/100m)	60,1	85,8	122,8	176,8	219,4	238,3	256,1	272,9	337,2	367,8	399,7	424,0	453,1	480,9
Average Power*2 (W)	163,0	113,0	75,3	52,0	41,6	38,0	35,5	33,0	26,0	24,8	22,4	20,0	18,5	17,5

[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) = $\sqrt{1.86011} \cdot F \text{ (MHz)} + 0.0013 \cdot F \text{ (MHz)}$

Available Connectors

How To Order NBR260L-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
2.92mm(M)	K	Straight	40.0	1.40
2.40mm(M)	2	Straight	50.0	1.40

Examples:

To order a NBR260L test cable assembly, DC-40GHz,
2.92mm male to 2.92mm male, 0.5 meter,specify
NBR260-40-KK-0.5.