

# 1- 1/4" FOAM DIELECTRIC RF CORRUGATED COAXIAL CABLE



Norden 1- 1/4" Foam Dielectric RF Corrugated Coaxial Cable is used for base stations which includes wireless mobile communication, cellular, microwave and broadcast applications. It incorporates high foaming polyethylene insulation technology to minimize signal loss and have excellent electric features such as low damping and reflection coefficient. This cable carries current in both inner and outer conductors. It's ideal for applications where the RF cable has to be routed through or around buildings and where precise bending and handling is needed in tight spaces.



## CABLE CONSTRUCTION

### Inner Conductor

Smooth Copper Tube

### Insulation Color

Neutral

### Outer Jacket

LSZH

### Insulation

Physical Foam Polyethylene

### Outer Conductor

Corrugated Copper Tube

### Jacket Color

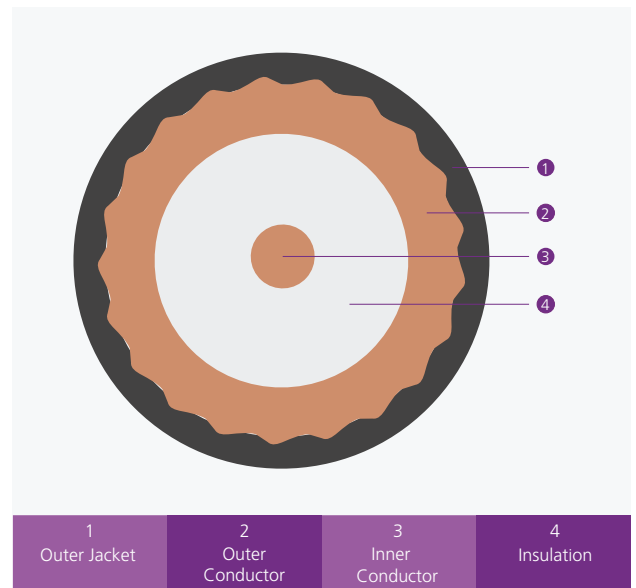
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## PHYSICAL CHARACTERISTICS

Characteristic	Value	
Inner Conductor Diameter	13.10 ± 0.15 mm	
Inner Conductor Thickness	0.45 mm	
Insulation Diameter	32.8 ± 0.30 mm	
Outer Conductor Diameter	35.8 ± 0.30 mm	
Outer Conductor Thickness	0.24 mm	
Outer Jacket Diameter	38.6 ± 0.40 mm	
Min. Bending Radius	Single Bend	200 mm
	Repeated Bend	380 mm
Number of Bends	15	
Installation Temperature	-25°C to +60°C	
Storage Temperature	-40°C to +70°C	
Operating Temperature	-40°C to +70°C	

## ELECTRICAL CHARACTERISTICS

Characteristic	Unit	Value	
Inner Conductor DC Resistance	Ω/km	≤ 1.10	
Outer Conductor DC Resistance	Ω/km	≤ 0.95	
Intermodulation, 3rd Order	dB	-155	
Insulation Resistance	MΩ/km	> 3000	
Capacitance	pF/m	76	
Impedance	Ω	50 ± 1	
Velocity	%	88	
Cut-Off Frequency	Ghz	3.7	
Insulation Voltage	KV	10.0	
Jacket Spark	KV	10.0	
Voltage Standing Wave Ratio ( VSWR )	800 - 1000	MHz	≤ 1.15
	1700 - 1900	MHz	≤ 1.15
	1900 - 2200	MHz	≤ 1.15
	2300 - 2700	MHz	≤ 1.18



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## PERFORMANCE CHARACTERISTICS

Frequency at 20°C (MHz)	Attenuation (dB/100m)	Attenuation (dB/100Ft)
150	1.23	0.37
450	2.23	0.68
800	3.08	0.94
900	3.29	1.00
1800	4.93	1.50
2000	5.25	1.60
2200	5.56	1.69
2400	5.86	1.79
2500	6.01	1.83
2700	6.30	1.92
3000	6.72	2.05

## ORDERING INFORMATION

Part Number	Description
450-03ZD00H	1- 1/4" Foam Dielectric RF Corrugated Coaxial Cable LSZH