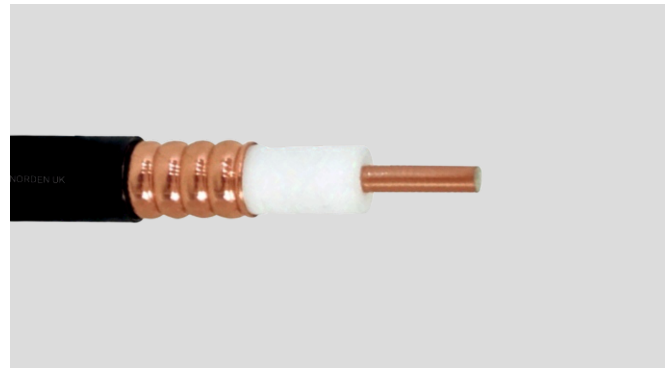


# 1/2" FOAM DIELECTRIC FLEXIBLE RF CORRUGATED FEEDER CABLE



Norden 1/2" Foam Dielectric Flexible RF Corrugated Feeder Cable is used for base station 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 needed in tight spaces.



## CABLE CONSTRUCTION

### Inner Conductor

Copper-Clad Aluminium Wire

### Insulation Color

Neutral

### Outer Jacket

PE/LSZH

### Insulation

Foam PE (Polyethylene)

### Outer Conductor

Corrugated Copper Tube

### Jacket Color

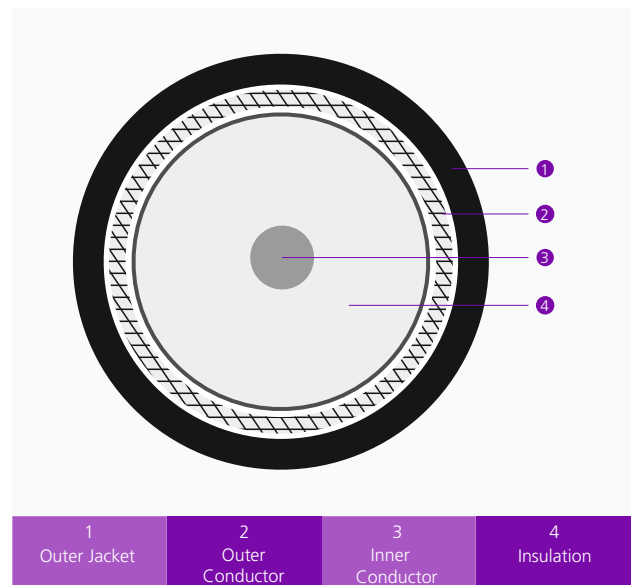
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## PHYSICAL CHARACTERISTICS

Characteristic	Value
Inner Conductor Diameter	4.80 ± 0.05 mm
Insulation Diameter	12.30 ± 0.4 mm
Outer Conductor Diameter	13.80 ± 0.5 mm
Outer Jacket Diameter	15.70 ± 0.5 mm
Tensile Strength	1100N
Min. Bending Radius	Repeated 125mm, Single 50mm
Min. Number of Bends	15
Installation Temperature	PE: -40°C to +60 °C LSZH: -20°C to +60°C
Storage Temperature	PE: -55°C to +85°C LSZH: -30°C to +80°C
Operating Temperature	PE: -55°C to +85 °C LSZH: -30°C to +80 °C

## ELECTRICAL CHARACTERISTICS

Characteristic	Value	
Capacitance	76.0 pF/m	
Insulation Resistance	5000 MΩ•km	
Impedance	50 ± 1 Ω	
Velocity	86 %	
Peak Power Rating	40 KW	
RF Peak Voltage	1.16 kV	
Cut-off Frequency	8.8 GHz	
Shielding Effectiveness >10MHz	>120 dB	
VSWR	0.8 ~ 1.0 GHz	≤1.10
	1.7 ~ 2.2 GHz	≤1.13
	2.2 ~ 2.7 GHz	≤1.15



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## PERFORMANCE CHARACTERISTICS

Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100 ft)	Average Power Rating (kW)
100	2.15	0.65	3.94
150	2.64	0.80	3.17
200	3.07	0.93	2.75
280	3.65	1.11	2.27
450	4.69	1.43	1.8
800	6.39	1.95	1.33
900	6.80	2.07	1.25
1000	7.21	2.20	1.18
1500	8.99	2.74	0.95
1800	9.95	3.03	0.86
2000	10.55	3.22	0.81
2200	11.13	3.40	0.77
2400	11.68	3.56	0.75
2500	11.96	3.64	0.73
3000	13.26	4.04	0.65

## ORDERING INFORMATION

Part Number	Description
450-03FD00E	1/2" Foam Dielectric Flexible RF Corrugated Feeder Cable PE
450-03FD00H	1/2" Foam Dielectric Flexible RF Corrugated Feeder Cable LSZH