

1-5/8 RF FEEDER LEAKY CABLE



Norden 1-5/8" Foam Dielectric Overlapping Copper Foil Leaky Cable is a type of RF coaxial cable which allow the radio signal to leak into or out of the cable along its entire length so the cable functioning as extended antennas. It is suitable for wireless communication in narrow or long, curvy surroundings, such as mining, in buildings, tunnels, subways, high-speed trains, etc.



CABLE CONSTRUCTION

Inner Conductor

Helical Copper Tube

Insulation Color

Neutral

Outer Jacket

Low Smoke Halogen-free Fire-retardant

Insulation

Foam Polyethylene

Outer Conductor

Overlapping Copper Foil

Standard Compliance

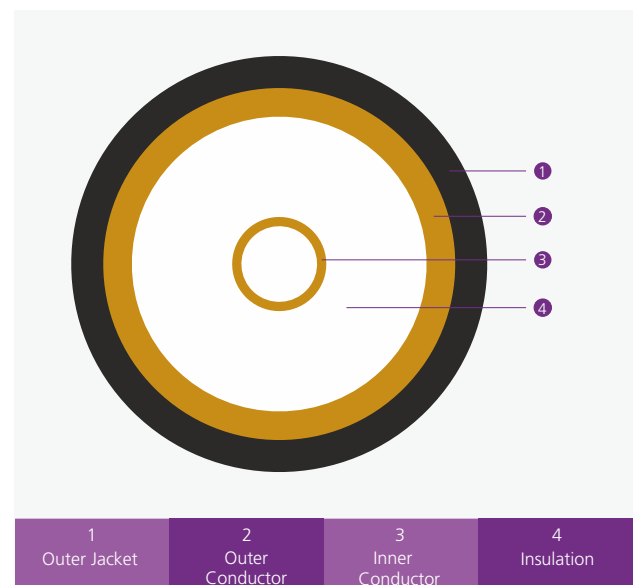
Fire Retardancy Test Method IEC 60332-1-2
Attenuation Test Method IEC 61196-4
Regulatory Compliance/Certification: ISO 9001, ISO 14001, ISO 45001

PHYSICAL CHARACTERISTICS

Characteristic	Value
Inner Conductor Diameter	18.00 mm
Insulation Diameter	42.80 mm
Outer Conductor Diameter	43.50 mm
Outer Jacket Diameter	47.50 mm
Tensile strength	3000 N
Bending Moment	16.0N.m
Relative Humidity	95%
Min. Bending Radius Allowed	Repeated 700mm, single 500mm
Installation Temperature	-40°C to + 80°C
Storage Temperature	-55°C to + 85°C
Operation Temperature	-55°C to + 85°C

ELECTRICAL CHARACTERISTICS

Characteristic	Unit	Value
Characteristic Impedance	Ω	50 \pm 2.0
Capacitance	pF/m	75.0
Velocity of Propagation	%	89
Insulation Resistance	M Ω .km	>10000
Inner Conductor DC Resistance	Ω /km	1.50
Outer Conductor DC Resistance	Ω /km	2.00
Insulation Voltage	KV	15.0
Jacket Spark Test	KV	10.0
Operating Frequency Band	Mhz	5-1000



1-5/8 RF FEEDER LEAKY CABLE



ELECTRICAL CHARACTERISTICS

Characteristic	Unit	Value
Stop Band	Mhz	500 - 540
		750 - 790
Voltage Standing Wave Ratio	75~150	≤1.30
	350~470	
	790~960	

PERFORMANCE CHARACTERISTICS

Frequency (MHz)	Attenuation (dB/100m)	Coupling Loss(2m)	
		50% (dB)	95% (dB)
75	0.60	63	72
100	0.70	64	74
150	0.90	66	76
300	1.30	68	72
350	1.40	65	69
400	1.50	66	70
450	1.60	67	70
700	2.20	62	65
800	2.40	59	62
900	2.70	58	60
960	2.90	59	61

ORDERING INFORMATION

Part Number	Description
450-03UR00H	1-5/8 RF Feeder leaky cable 50 Ohm FR-LSZH

