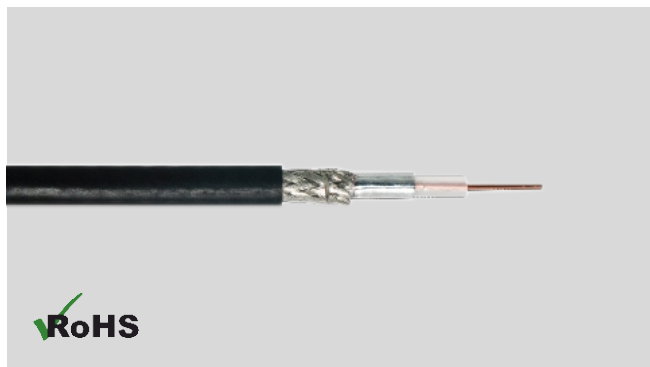


RF100 COAXIAL CABLE 50 Ohm LOW LOSS/WIRELESS/RF TRANSMISSION



NORDEN RF100 coaxial cable is suitable for external installation in RF Systems. 50 Ohm Impedance provides best transmission performance in wireless environment. Low loss makes this cable ideal for use in high frequency applications.



CABLE CONSTRUCTION

Conductor

Bare Copper Solid

Insulation Color

Neutral

Braid Wire

TC Wire

Jacket Color

Black

Insulation

Foam PE (Polyethylene)

Shielding

Aluminium/Polyester Foil Bonded

Outer Jacket

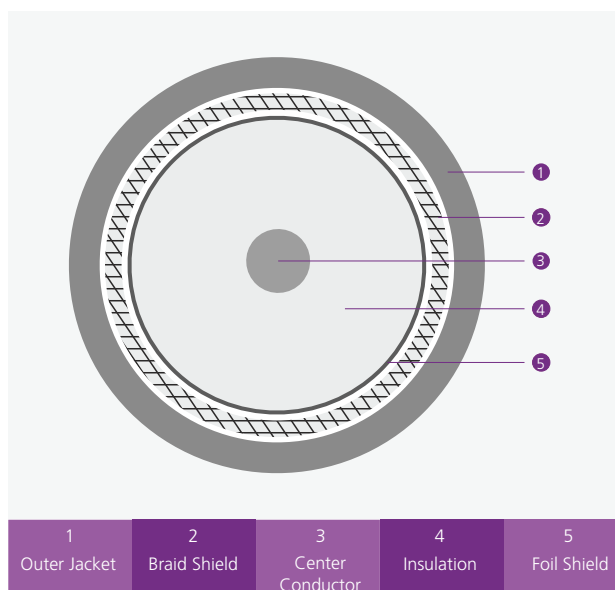
PE - standard
PVC & LSZH upon request

PHYSICAL CHARACTERISTICS

Characteristic	Value
Center Conductor Diameter	0.46 mm
Insulation Diameter	1.52 mm
Braid Wire Diameter	0.10 mm
No. of Braid Wire	80
Braid Wire Coverage	90%
Outer Jacket Diameter	2.79 mm
Min. Bending Radius (Installation)	6.40 mm
Max. Pulling Tension	68 N
Operating Temperature	-40°C to +85°C

ELECTRICAL CHARACTERISTICS

Characteristic	Unit	Value
Characteristic Impedance	Ω	50.0
Capacitance	pF/m	100.0
Center Conductor DCR	Ω /km	266.0
Braid Wire DCR	Ω /km	31.2
Velocity of Propagation	%	66
Dielectric Strength	VCA	1000
Jacket Sparker	VCA	2000
Return Loss (5-6000 MHz)	dB	20.0



RF100 COAXIAL CABLE 50 Ohm LOW LOSS/WIRELESS/RF TRANSMISSION



PERFORMANCE CHARACTERISTICS

Frequency at 20°C (MHz)	Attenuation (10% higher) (dB/100m)
30	12.90
50	16.70
150	29.40
220	35.80
450	51.90
900	74.90
1500	98.70
1800	109.0
2000	115.5
2500	130.60
5800	210.30

RoHS GUIDELINE

Properties	Value
Calcium Content (Cd)	< 0.01%
Lead Content (Pb)	< 0.1%
Mercury Content (Hg)	< 0.1%
Chromium (VI) Content	< 0.1%
Polybrominated Biphenyls (PBB)	Forbidden
Polybrominated Diphenyl Ether (PBDE)	Forbidden

ORDERING INFORMATION

Part Number	Description
450-3RF100	RF100 Coaxial Cable 50 Ohm PE
450-2RF100	RF100 Coaxial Cable 50 Ohm LSZH
450-1RF100	RF100 Coaxial Cable 50 Ohm PVC