

RF300 COAXIAL CABLE 50 Ohm LOW LOSS/WIRELESS/RF TRANSMISSION



NORDEN RF300 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

Copper Clad Aluminium

Insulation Color

Neutral

Braid Wire

TC Wire

Jacket Color

Black

Insulation

Foam PE (Polyethylene)

Shielding

Aluminium/Polyester
Foil Bonded

Outer Jacket

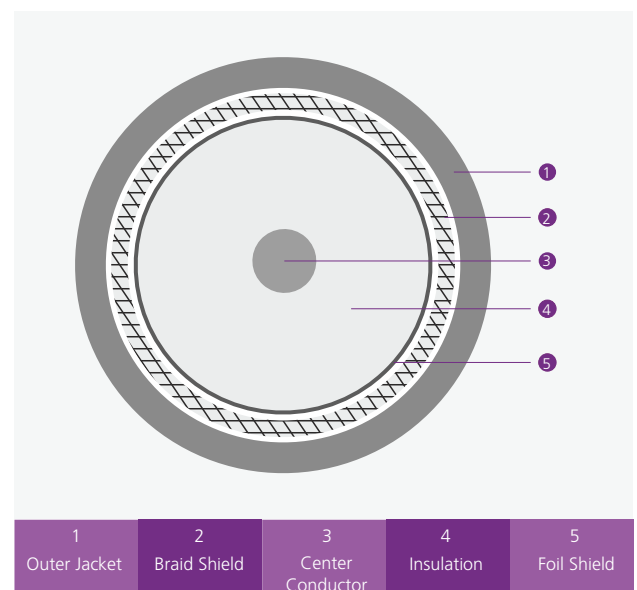
PE - standard
PVC & LSZH upon request

PHYSICAL CHARACTERISTICS

Characteristic	Value
Center Conductor Diameter	1.78 mm
Insulation Diameter	4.83 mm
Braid Wire Diameter	0.15 mm
No. of Braid Wire	144
Braid Wire Coverage	90%
Outer Jacket Diameter	7.62 mm
Min. Bending Radius (Installation)	24.15 mm
Max. Pulling Tension	816 N
Operating Temperature	-40°C to +85°C

ELECTRICAL CHARACTERISTICS

Characteristic	Unit	Value
Characteristic Impedance	Ω	50.0
Capacitance	pF/m	75.0
Center Conductor DCR	Ω /km	11.0
Braid Wire DCR	Ω /km	7.5
Velocity of Propagation	%	85
Dielectric Strength	VCA	2500
Jacket Sparker	VCA	4000
Return Loss (5-2200 MHz)	dB	21.0



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PERFORMANCE CHARACTERISTICS

Frequency at 20°C (MHz)	Attenuation (10% higher) (dB/100m)
30	-
50	4.56
150	7.87
220	11.23
450	14.62
900	20.01
1500	25.92
1800	28.88
2000	30.18
2500	34.12
5800	-

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
450-3RF300	RF300 Coaxial Cable 50 Ohm PE
450-2RF300	RF300 Coaxial Cable 50 Ohm LSZH
450-1RF300	RF300 Coaxial Cable 50 Ohm PVC