

RF 300 BRAID SHIELDED COAXIAL CABLE 50 OHM

NORDEN RF300 Braid Shielded 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

Shielding

AL/PET Tape

Outer Jacket

LSZH/PE

Insulation

Foam Polyethylene

Braid Wire

TC Wire

Jacket Color

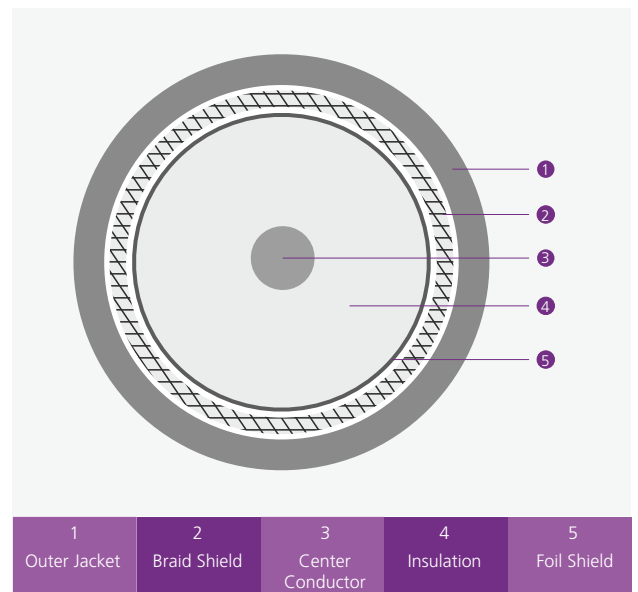
Black

PHYSICAL CHARACTERISTICS

| Characteristic | Value |
|------------------------------------|----------------|
| Center Conductor Diameter | 1.80±0.02 mm |
| Insulation Diameter | 4.80±0.10 mm |
| Shielding Diameter | 5.60±0.20 mm |
| Braid Wire Coverage | 80% |
| Outer Jacket Diameter | 7.60±0.20 mm |
| Min. Bending Radius (Installation) | 22 mm |
| Max. Pulling Tension | 400N |
| Operating Temperature | -40°C to +85°C |

ELECTRICAL CHARACTERISTICS

| Characteristic | Unit | Value |
|--------------------------------|-------|--------|
| Characteristic Impedance | Ω | 50 ± 2 |
| Capacitance | pF/m | 80.0 |
| Center Conductor DCR | Ω/km | 7.0 |
| Braid Wire DCR | Ω/km | 13.5 |
| Velocity of Propagation | % | 82 |
| Dielectric Strength | VCA | 2 |
| Sparkover Voltage | KV | 3.0 |
| Return Loss (5-2200 MHz) | dB | 19.0 |
| Insulation Resistance | MΩ•km | 5000 |
| Cut-off Frequency | Ghz | 22.8 |
| Withstanding Voltage(AC) | KV | 2.0 |
| Peak Power Rating | KW | 9.23 |
| Shielding Effectiveness >10MHz | dB | ≥85 |



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PERFORMANCE CHARACTERISTICS

| Frequency (MHz) | Attenuation (dB/100 m) |
|-----------------|------------------------|
| 100 | 6.50 |
| 150 | 7.90 |
| 280 | 10.80 |
| 350 | 12.10 |
| 400 | 13.00 |
| 800 | 18.90 |
| 900 | 20.20 |
| 1500 | 26.80 |
| 1800 | 29.70 |
| 2000 | 31.50 |
| 2200 | 33.30 |
| 2500 | 35.80 |
| 3000 | 39.90 |

ORDERING INFORMATION

| Part Number | Description |
|--------------|--|
| 450-ORF30012 | RF 300 Braid Shielded Coaxial Cable 50 Ohm, LSZH |
| 450-ORF30013 | RF 300 Braid Shielded Coaxial Cable 50 Ohm, PE |