



RFC[®]-400-DB

50 Ohm Low Loss Direct Burial Coaxial Cable

RFC-400-DB is a high-performance coaxial cable engineered to provide outstanding signal quality with minimal signal loss, making it perfect for applications that demand reliable and efficient transmission.

This UV-resistant polyethylene-jacketed cable is designed for 20 years of outdoor service. It offers superior bending and handling characteristics compared to air-dielectric and corrugated hard-liner cables.

PHYSICAL SPECIFICATIONS

Center Conductor	Solid CCA
Conductor Dia.	2.74 ± 0.02 mm
Min. Break Strength	640 N
Insulation	Foamed Polyethylene
Insulation Dia.	7.24 ± 0.10 mm
Color	Neutral
Centricity (%)	>=90 %
Adhesion	10N to 100N @25mm
1st Outer Conductor Overlapping Dia.	Bonded Aluminium Foil >=115% 7.39 ± 0.10 mm
2nd Outer Conductor	Tinned Copper Braid
Conductor Dia.	0.15 ± 0.01 mm
No. of Wires	192
Coverage Flooding	95 ± 3% Gel-Filled
Outer Jacket	PE
Outer Dia	10.29 ± 0.01 mm
Tensile Strength	>=13.5 N/mm ²
Elongation at Break	>= 300%
Adhesion	20N to 80N @ 50mm

ELECTRICAL SPECIFICATIONS

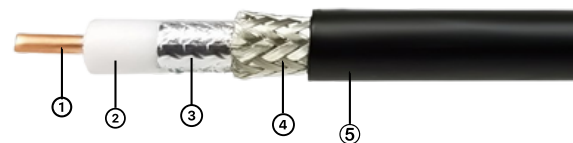
Characteristic Impedence	50 ± 3 ohm
Capacitance	78 ± 3pF/m
Velocity Ratio	> 85%
DC Resistance:	
i. Center Conductor	< 4.60 ohm/km
ii. Outer Conductor	<5.40 ohm/km
Peak Power Rating	16.00 kW
Cut Off Frequency	16.20 GHz
Insulation Resistance	>5,000 MΩ.km
Dielectric Strength	1600 VAC
Voltage Withstand	2500 VDC
Screening Factor at 1 - 1000 MHz	> 90 dB

KEY APPLICATIONS

- Telecom/Broadcasting
- Two Way Radios
- Wireless LANs & Wi-Fi
- Antenna Extensions

PROPERTIES

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|--|-------------|
| • Min Bending Radius | 25.4mm |
| • Max. Pulling Tension | 740N |
| • Crush Resistance of Cable (load of 700N) | < 1% |
| • Admissible Ambient Temperature | -40°C~+80°C |



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|-----------------------|---------------------|
| ① Inner Conductor | Solid CCA |
| ② Insulation | Foamed PE |
| ③ 1st Out Conductor | Bonded Aluminium |
| ④ 2nd Outer Conductor | Tinned Copper Braid |
| ⑤ Outer Jacket | PE |

Frequency (MHz)	Attenuation at 20°C (dB/100ft)	Avg. Power (kW)
30	0.67	3.33
50	0.88	2.57
100	1.31	-
150	1.52	1.47
220	1.86	1.20
450	2.71	0.83
900	3.90	0.58
1500	5.12	0.44
1800	5.67	0.40
2000	5.97	0.37
2500	6.77	0.33
3000	7.62	-
5800	10.8	0.21

