

WBC-500

WBC-500, 50 Ohm Braided Coaxial Cable, black PE jacket

OBSOLETE

This product was discontinued on: August 17, 2009

Replaced By:

CNT-500

CNT-500, CNT® 50 Ohm Braided Coaxial Cable, black PE jacket

Product Classification

Product Type	Braided coaxial cable
Product Brand	CNT®
Product Series	WBC-500

General Specifications

Braid Coverage	90 %
Cable Type	WBC-500
Jacket Color	Black

Dimensions

Diameter Over Dielectric	9.4 mm 0.37 in
Diameter Over Jacket	12.7 mm 0.5 in
Inner Conductor OD	3.61 mm 0.142 in
Outer Conductor OD	9.55 mm 0.376 in
Nominal Size	1/2 in

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	23.6 pF/m 7.193 pF/ft
dc Resistance, Inner Conductor	2.69 ohms/km 0.82 ohms/kft
dc Resistance, Outer Conductor	4.16 ohms/km 1.268 ohms/kft
dc Test Voltage	2500 V
Jacket Spark Test Voltage (rms)	4000 V
Maximum Frequency	10.3 GHz

WBC-500

Operating Frequency Band	30 – 6000 MHz
Peak Power	22 kW
Velocity	86 %

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
50.0	2.29	0.7
150.0	3.93	1.2
220.0	4.92	1.5
450.0	7.21	2.2
900.0	10.17	3.1
1500.0	13.45	4.1
1800.0	15	4.57
2000.0	15.75	4.8
2500.0	18.04	5.5

Material Specifications

Braid Material	Tinned copper
Dielectric Material	Foam PE
Jacket Material	PE
Inner Conductor Material	Copper-clad aluminum wire
Shield Tape Material	Aluminum

Mechanical Specifications

Minimum Bend Radius, single Bend	64.008 mm 2.52 in
Tensile Strength	118 kg 260.145 lb

Environmental Specifications

Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
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Packaging and Weights

Cable weight	0.15 kg/m 0.101 lb/ft
Packaging Type	Reel