



# Cinta Braided Cable



## PRODUCT SPECIFICATION

### CNT-400

Braided Cable, 0.405 inch diameter, 30 - 6000 MHz, Standard with Polyethylene Jacket

#### CHARACTERISTICS

##### Mechanical Specifications

Minimum Bending Radius in (mm)	1.00 (25.40)
Bending Moment lb-ft (N-M)	0.50 (0.68)
Cable Weight lb/ft (kg/m)	0.068 (0.10)
Tensile Strength lb (kg)	160 (72.6)
Flat Plate Crush Strength lb/in (kg/mm)	40 (0.7)

##### Electrical Specifications

Maximum Frequency (GHz)	16
Velocity (percent)	85
dc Breakdown (volts)	2500
Peak Power Rating (kW)	16.0
Inner Conductor dc Resistance ohms/1000 ft (ohms/1000 m)	1.39 (4.56)
Outer Conductor dc Resistance ohms/1000 ft (ohms/1000 m)	1.65 (5.41)
Jacket Spark (volts RMS)	8000
Capacitance pF/ft (pF/m)	23.9 (78.4)
Inductance uH/ft (uH/m)	0.060 (0.20)
Shielding Effectiveness (dB)	>90
Phase Stability (ppm/C)	<10

##### Construction Materials

Dielectric Type	Cinta Braided Cable
Dielectric Material	Polyethylene Foam
Inner Conductor Material	Solid BCCA1
Outer Conductor Material	Aluminum Tape
Overall Braid Material	Tinned Copper

##### Dimensions

Diameter Inner Conductor in (mm)	0.108 (2.74)
Diameter Outer Conductor in (mm)	0.291 (7.39)
Diameter Dielectric in (mm)	0.285 (7.24)
Diameter Overall Braid in (mm)	0.320 (8.13)
Diameter Over Jacket in (mm)	0.405 (10.29)

##### Environmental Specifications

Storage Temperature °C (°F)	-70 to +85 (-94 to +185)
Installation Temperature °C (°F)	-40 to +85 (-40 to +185)
Operating Temperature °C (°F)	-40 to +85 (-40 to +185)

#### Customer Support Center:

From North America: 1-800-255-1479  
International: +1-708-873-2307

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### CHARACTERISTICS

#### General Specifications

Cable Grade	Outdoor
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#### Connectors

Part Number	Connector Type	Special Characteristics	Inner Contact Attachment	Grade
400PNF-C-CR	N Female	Crimp Outer Contact Attachment	Captivated	Standard
400PNF-BHC	N Female	Bulkhead, Clamp Outer Contact Attachment	Captivated	Standard
400PTM-C	TNC Male	Clamp Outer Contact Attachment	Captivated	Standard
400PTR	TNC Male	Right Angle, Clamp Outer Contact Attachment	Solder	Standard
400PDM	7-16 DIN Male	Clamp Outer Contact Attachment	Solder	Standard
400PDF	7-16 DIN Female	Clamp Outer Contact Attachment	Solder	Standard
400APNM	N Male	Crimp Outer Contact Attachment	Solder	Plated
400APNM-C	N Male	Spring Finger, Clamp Outer Contact Attachment	Captivated	Plated

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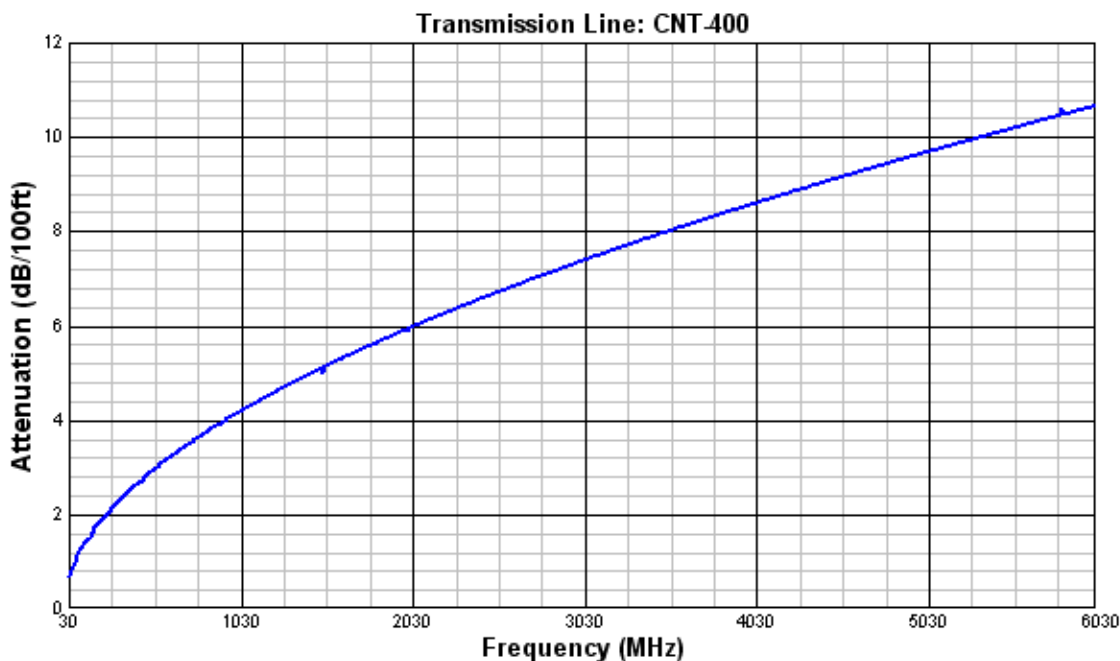
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### CHARACTERISTICS

#### Performance

Frequency (MHz)	Attenuation (dB/100 ft)	Attenuation (dB/100 m)	Average Power (kW)
30	0.7	2.2	3.3
50	0.9	2.9	2.6
150	1.5	5	1.5
220	1.9	6	1.2
450	2.7	8.8	0.83
900	3.9	12.7	0.58
1500	5	16.6	0.44
1800	5.6	18.4	0.4
2000	5.9	19.4	0.37
2500	6.7	22	0.33
5800	10.6	34.7	0.21
6000	10.76	35.32	0.3



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#### CHARACTERISTICS

**Standard Conditions:**

For Attenuation. VSWR 1.0, ambient temperature 20°C (68°F).

For Average Power. VSWR 1.0, ambient temperature 40°C (104°F), inner conductor temperature 100°C (212°F); no solar loading.