

Cable Description	Type No.
Standard Outdoor Cable, Polyethylene Jacket	CNT-400
Watertight Cable, Polyethylene Jacket	CNT-400-DB
Fire Retardant Cable (CATVR), Non-Halogenated Jacket	CNT-400-FR

Specifications

Mechanical	
Minimum Bending Radius, in (mm)	1.0 (25.4)
Bending Moment, lb-ft (N•m)	0.5 (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 (0.71)

Construction Materials	
Inner Conductor	Solid BCCAI
Dielectric	Foam Polyethylene
Outer Conductor	Aluminum Tape
Overall Braid	Tinned Copper

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

Environmental	
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)

Electrical	
Maximum Frequency, GHz	16.2
Velocity, percent	85
dc Breakdown, volts	2500
Peak Power Rating, kW	16
dc Resistance, ohms/1000 ft (1000 m)	
Inner Conductor	1.39 (4.56)
Outer Conductor	1.65 (5.41)
Jacket Spark, volts RMS	8000
Capacitance, pF/ft (m)	23.9 (78.40)
Inductance, µH/ft (m)	0.060 (0.20)
Shielding Effectiveness, dB	>90
Phase Stability, ppm/°C	<10

Attenuation and Average Power Ratings

Frequency MHz	Attenuation dB/100 ft	Attenuation dB/100 m	Average Power, kW
30	0.7	2.2	3.30
50	0.9	2.9	2.60
150	1.5	5.0	1.50
220	1.9	6.0	1.20
450	2.7	8.8	0.83
900	3.9	12.7	0.58
1500	5.0	16.6	0.44
1800	5.6	18.4	0.40
2000	5.9	19.4	0.37
2500	6.7	22.0	0.33

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), sea level, dry air, atmospheric pressure, no solar loading.

Accessories

Description	Type Number
Cable Stripping Tool	BCPT-400
Crimping Tool	CTBC
Grounding Kit, 24 in. lead, 2 hole lug	GK-400
Nylon Cable Ties, Pack of 50	CT-CNT
Standard Weatherproofing Kit	WK-CNT

CNT-400 Connectors

Interface	Description	Part Number	Coupling Nut	Inner Contact Attachment	Outer Contact Attachment	Finish* Body/Pin
N Male	Straight	400PNM-H	Hex	Solder	Clamp	T/G
N Male	Straight	400PNM-H-CR	Hex	Solder	Crimp	T/G
N Male	Straight	400PNM-HC	Hex	Spring Finger	Clamp	T/G
N Male	Straight	400PNM-HC-CR	Hex	Spring Finger	Crimp	T/G
N Male	Right Angle	400PNR-H	Hex	Solder	Clamp	T/G
N Female	Straight	400PNF	NA	Solder	Clamp	T/G
N Female	Straight	400PNF-C-CR	NA	Spring Finger	Crimp	T/G
N Female	Bulkhead	400PNF-BHC	NA	Spring Finger	Clamp	T/G
TNC Male	Straight	400PTM	Hex	Solder	Clamp	T/G
TNC Male	Straight	400PTM-C	Hex	Spring Finger	Clamp	T/G
TNC Male	Right Angle	400PTR	Hex	Solder	Clamp	T/G
7-16 DIN Male	Straight	400PDM	Hex	Solder	Clamp	T/S
7-16 DIN Female	Straight	400PDF	NA	Solder	Clamp	T/S

*Finish Metals: T = Tri-Metal Alloy, G = Gold, S = Silver