



TerraWave Solutions® TWS-400 Coaxial Cable

TerraWave's **TWS-400** series cable is designed for easy installation with maximum flexibility where curves, bends and twists rule out the use of standard hard-line transmission cables. The cable is constructed of a UV resistant polyethylene jacket providing maximum durability and protection from harsh elements and is designed for any application requiring high-quality, flexible cabling such as WLL, GPS, WLAN, WISP, WiMax, SCADA and mobile applications. TerraWave's cable is compatible with a wide variety of connectors and is ideal for any off-the-shelf or customized cable assembly. Visit www.terrawave.com for additional information.



TESSCO SKU: 380348
TerraWave Part Number: TWS-400

Construction Specification		
	Material	Diameter
Inner Conductor	Copper Clad Aluminum	0.108" ± 0.001"
Dielectric	Physical Foam Polyethylene	0.285" ± 0.005"
Outer Conductor	Bonded Aluminum Foil + Tinned Copper Braid	Nominal 0.320"
Jacket	Black Polyethylene	0.40" ± 0.008"

Electrical Characteristics	
Capacitance	23.9 pF/ft
Impedance	50 Ω
Inductance	.060 μH/ft
Velocity	85%
Inner Conductor DC Resistance	< 1.39 (Ω/1000 ft)
Outer Conductor DC Resistance	< 1.65 (Ω/1000 ft)
Shielding Effectiveness	> 90 dB
Jacket Spark	5000 VAC
Cut off Frequency	16.2 GHz
Peak Power	16 kW

Mechanical and Environmental Characteristics	
Min. Bend Radius	2.008"
Storage Temperature	-70° F to +185° F
Installation Temperature	-40° F to +185° F
Operating Temperature	-40° F to +185° F

General Information	
Warranty	7 Years
Life Expectancy	20 Years for Outdoor Use



Attenuation and Avg. Power (68° F)			
Frequency MHz	Typical Attenuation dB/100 ft	Max Attenuation dB/100 ft	Average Power kW
30	0.7	0.86	2.91
50	0.9	1.05	2.21
150	1.5	1.7	1.28
220	1.9	2.1	1.05
450	2.7	3	0.72
900	3.9	4.5	0.5
1500	5.1	5.8	0.38
1800	5.7	6.1	0.34
2000	6	6.5	0.33
2500	6.8	7.7	0.29
5800	10.8	12.2	0.18

For detailed product information and to purchase product, please contact a TerraWave wireless networking solutions sales engineer at 210-375-8482, 800-851-4965, sales@terrawave.com or visit www.terrawave.com.

Version: 2.5