



TerraWave Solutions® TWS-900FR (Fire Retardant) Coaxial Cable

TerraWave's **TWS-900FR** series is non-halogenated, low smoke, fire retardant cable that is designed for easy installation with maximum flexibility where curves, bends and twists rule out the use of standard hard-line transmission cables. Designed for any indoor, non-plenum 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: 393871
TerraWave Part Number: TWS-900FR

Construction Specification		
	Material	Diameter
Inner Conductor	Copper Tube	0.262" ± 0.004"
Dielectric	Physical Foaming Polyethylene	0.680" ± 0.010"
Outer Conductor	Bonded Aluminum Foil + Tinned Plated Copper Braid	Nominal 0.732"
Jacket	Black Low Smoke Halogen-Free Fire Retardant PE (CMR)	0.870" ± 0.019"

Electrical Characteristics	
Capacitance	23.4 pF/ft
Impedance	50 Ω
Inductance	.058 μH/ft
Velocity	87%
Inner Conductor DC Resistance	< 0.54 (Ω/1000 ft)
Outer Conductor DC Resistance	< 0.55 (Ω/1000 ft)
Shielding Effectiveness	> 90 dB
Jacket Spark	8000 Volts RMS
Cut off Frequency	6.9 GHz
Peak Power	62 kW

Mechanical and Environmental Characteristics	
Operating Temperature	-40° F to +185° F
Bending Radius Once	3.07"
Repeated Bending Radius	8.86"
Flexible Application Radius	12.992"

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
150	0.7	0.72
220	0.84	0.87
450	1.24	1.28
900	1.83	1.89
1500	2.44	2.56
1800	2.69	2.82
2000	2.83	2.97
2500	3.23	3.39

Return Loss	
5-3000 MHz	≤ -18 dB

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.

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