

Part Number: ACC014J50

Features

- Foam-Dielectric design
- Cable Size ¼” Diameter, Corrugated Copper Outer Conductor, Jacketed to Meet Customers’ Outdoor Wireless Applications, Black Jacket

Performance Standards

- TL9000 H-V - All Cables designed and manufactured under this quality management system
- RoHS 2011/65/EU Compliant

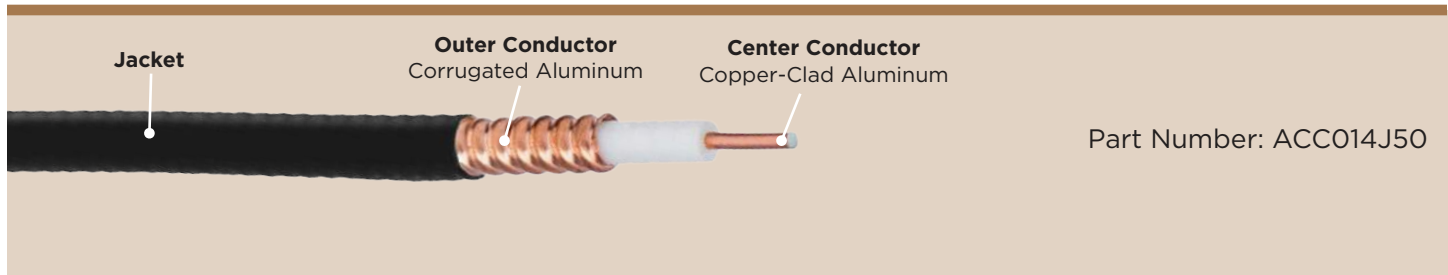
Scope

Trilogy® Transline Cable represents a significant advancement in transmission line cable technology.

The cable’s innovative design provides exceptional RF performance, low attenuation, and superior durability, critical for modern telecommunications systems. Its superior design enhances signal quality, ensuring reliable service in various environments.

Furthermore, adherence to the TL9000 H-V quality management system standards signifies that the cable has undergone rigorous testing and manufacturing processes, ensuring it meets the highest industry benchmarks for reliability and performance.

Physical Dimensions	
Center Diameter, in (mm)	0.0728 (1.849)
Diameter Over Outer Conductor, in (mm)	0.250 (6.35)
Maximum Diameter Over Jacket, in (mm)	0.295 (7.62)
Center Conductor	Copper-Clad Aluminum
Outer Conductor	Corrugated Copper
Jacket Color	Black
Mechanical Characteristics	
Minimum Bend Radius, in (mm) - Single	1 (25.4)
Cable Weight, lb/ft (kg/m)	0.05 (0.07)
Tensile Strength, lb (kg)	150 (68)
Flat Plate Crush, lb/in (kg/mm)	100 (1.80)
Recommended Install Temp., °F (°C)	(+5° to 194° (-15° to 90°))
Recommended Storage Temp., °F (°C)	(-40° to 140° (-40° to 60°))
Recommended Operating Temp., °F (°C)	(-40° to 140° (-40° to 60°))



Electrical Characteristics	
Maximum Frequency, GHz	18
Peak Power Rating, KW	6.4
Capacitance, pF/ft (m)	24.20 (79.40)
Inductance, μ H/ft (m)	0.200 (0.061)
VSWR min. (dB)	1.25 (19.0)
Impedance, Ohms	50 +/- 2
Velocity of Propagation	82%
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°F (212°F), No Solar Loading	

Attenuation and Average Power			
Frequency MHz	Attenuation dB/100 ft dB/100 m		Average Power kW
100	1.85	6.07	1.23
200	2.63	8.63	0.86
450	3.96	13.00	0.57
800	5.33	17.49	0.42
900	5.65	18.54	0.39
1000	5.98	19.63	0.37
1500	7.43	24.39	0.30
1800	8.19	26.88	0.27
2000	8.63	28.32	0.26
2200	9.12	29.93	0.25
2300	9.36	30.72	0.24
2500	9.74	31.97	0.23
3000	10.76	35.31	0.21
4000	12.62	41.42	0.17
5000	14.28	46.87	0.15
6000	15.77	51.76	0.14