

## Features

- Air-Dielectric design
- Cable Sizes 1/2” through 1-5/8” Diameters, Aluminum 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

Physical Dimensions	
Center Diameter, in (mm)	0.188 (4.78)
Diameter Over Outer Conductor, in (mm)	0.550 (13.97)
Maximum Diameter Over Jacket, in (mm)	0.63 (16.00)
Center Conductor	Copper-Clad Aluminum
Outer Conductor	Corrugated Aluminum
Jacket Color	Black

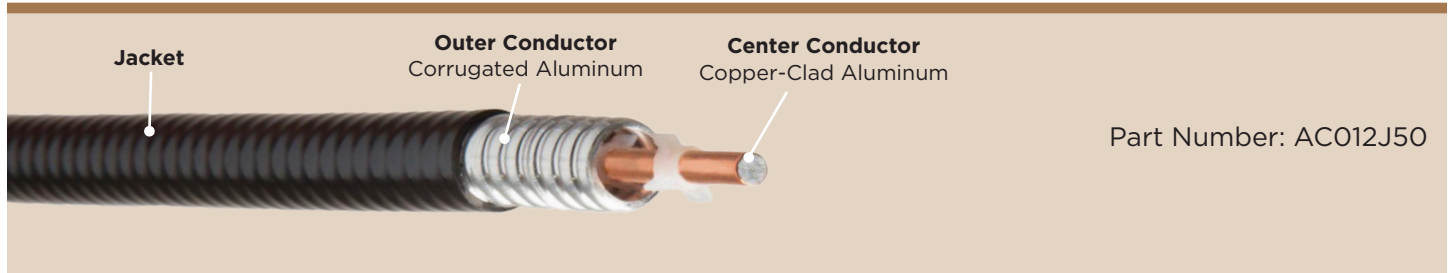
Mechanical Characteristics	
Minimum Bend Radius, in (mm) - Single	2 (50.8)
Minimum Bend Radius, in (mm) - Multiple	5 (127)
Cable Weight, lb/ft (kg/m)	0.11 (0.16)
Tensile Strength, lb (kg)	250 (114)
Flat Plate Crush, lb/in (kg/mm)	78 (1.39)
Number of Bends	15
Recommended Install Temp., °F (°C)	-10° to 170° (-23° to 77°)
Recommended Storage Temp., °F (°C)	-40° to 170° (-40° to 77°)
Recommended Operating Temp., °F (°C)	-40° to 170° (-40° to 77°)

## 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, which are critical for modern telecommunications systems. Its air dielectric design prevents water migration and enhances signal quality, ensuring reliable service in various environments.

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



Electrical Characteristics	
Maximum Frequency, GHz	10
Peak Power Rating, KW	35
Capacitance, pF/ft (m)	22 (72.12)
Inductance, $\mu$ H/ft (m)	0.057 (0.187)
VSWR min. (dB)	1.25 (19.0)
Impedance, Ohms	50 +/- 2
Velocity of Propagation	94%

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	Attenuation dB/100 m	Average Power kW
100	0.70	2.30	3.98
450	1.50	4.92	1.85
500	1.59	5.22	1.75
600	1.75	5.74	1.58
700	1.87	6.14	1.47
800	1.96	6.43	1.37
900	2.14	7.02	1.29
960	2.23	7.32	1.24
1000	2.30	7.55	1.21
1500	2.85	9.35	0.98
1700	3.05	10.01	0.98
1800	3.14	10.30	0.93
1950	3.24	10.63	0.85
2000	3.33	10.93	0.84
2100	3.42	11.22	0.82
2200	3.50	11.48	0.80
2300	3.59	11.78	0.78
2400	3.67	12.04	0.77
2500	3.75	12.30	0.75
2700	3.90	12.80	0.72
3000	4.14	13.58	0.68
3300	4.33	14.21	0.61
3400	4.45	14.60	0.60
4000	4.91	16.11	0.55
4900	5.61	18.41	0.50
5000	5.69	18.67	0.49
5200	5.92	19.42	0.48
5300	6.03	19.78	0.47
5600	6.37	20.90	0.46
5825	6.83	22.41	0.45