



DETAILS OF CONSTRUCTION AND MATERIALS

- Center Conductor - Solid Copper
- Dielectric - Foam Polyethylene
- Outer Conductor - Seamless Aluminum
- Jacket - Black Polyethylene with Identification Tracers (Yellow or Red)

Application: 50 V Power Cable is recommended for installation in systems where a centralized powering system is used.

PART NUMBERS

DESCRIPTION	MI
SPC625JVISC (50 Ohm) Aerial	29631
SPC625JBVISC (50 Ohm) Burial	29632

PHYSICAL SPECIFICATIONS

NOMINAL DIMENSIONS	inches	(mm)
Conductor	0.218	(5.54)
Dielectric	0.563	(14.3)
Outer Conductor	0.625	(15.9)
Jacketed (Aerial)	0.685	(17.4)
Jacketed (Burial)	0.695	(17.7)
Cable Weight, lbs per kft (kg/km)	268	(399)

ELECTRICAL SPECIFICATIONS

	Ohms/kft	(Ohms/km)
Nominal DC Resistance at 68°F (20°C)		
Center Conductor	0.22	(0.72)
Outer Conductor	0.23	(0.75)
Loop	0.45	(1.48)
Nominal Capacitance	23.10 pF/ft	(75.8 pF/m)
Impedance	50 ± 2 Ohms	
Velocity of Propagation	87% nominal	

TYPICAL ATTENUATION @ 68°F (20°C)

Frequency MHz	dB per 100 feet	dB per 100 meters
5	0.14	0.46
55	0.46	1.51
211	0.92	3.02
250	1.01	3.31
270	1.05	3.44
300	1.11	3.64
330	1.17	3.84
350	1.21	3.97
400	1.30	4.27
450	1.38	4.53
500	1.46	4.79
550	1.54	5.05
600	1.61	5.28
750	1.82	5.97
870	1.97	6.46
1000	2.13	6.99

Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.1% / °F (0.18% / °C)