

75 Ohm P3® Trunk and Distribution Cable, black flame retardant PE jacket



Product Classification

Product Type	Coaxial hardline cable
Product Brand	P3®
Warranty	One year

General Specifications

Cable Type	500 Series
Construction Type	Swaged
Jacket Color	Black
Short Description	P3 500 JCAR PR2349

Dimensions

Cable Length	2400 ft 731.52 m
Diameter Over Center Conductor, nominal	0.109 in 2.769 mm
Diameter Over Dielectric, nominal	0.452 in 11.481 mm
Diameter Over Jacket, nominal	0.56 in 14.224 mm
Diameter Over Outer Conductor, nominal	0.5 in 12.7 mm
Jacket Thickness, nominal	0.03 in 0.762 mm
Outer Conductor Thickness, nominal	0.024 in 0.61 mm

Electrical Specifications

Capacitance	15.3 pF/ft 50.197 pF/m
Capacitance Tolerance	±1.0 pF/ft
Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±2 ohm

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dc Resistance Note	Nominal values based on a standard condition of 20 °C (68 °F)
dc Resistance, Inner Conductor, nominal	1.35 ohms/kft 4.429 ohms/km
dc Resistance, Loop, nominal	1.72 ohms/kft 5.643 ohms/km
dc Resistance, Outer Conductor, nominal	0.37 ohms/kft 1.214 ohms/km
Jacket Spark Test Voltage	5000 Vac
Nominal Velocity of Propagation (NVP)	87 %
Operating Frequency Band	5–3000 MHz
Structural Return Loss	24 dB @ 1003–1218 MHz 24 dB @ 1219–1794 MHz 30 dB @ 5–1002 MHz
Structural Return Loss, Grade N	≥24 dB @ 1003–1218 MHz ≥24 dB @ 1219–1794 MHz ≥30 dB @ 5–1002 MHz

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5.0	0.52	0.16
55.0	1.77	0.54
85.0	2.23	0.68
204.0	3.51	1.07
211.0	3.58	1.09
250.0	3.94	1.2
300.0	4.3	1.31
350.0	4.69	1.43
400.0	5.02	1.53
450.0	5.35	1.63
500.0	5.67	1.73
550.0	5.97	1.82
600.0	6.3	1.92
750.0	7.09	2.16
865.0	7.68	2.34
1002.0	8.32	2.54
1218.0	9.28	2.83
1500.0	10.68	3.26
1794.0	11.88	3.62
1800.0	11.91	3.63
2000.0	12.68	3.87

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2200.0	13.44	4.1
2500.0	14.52	4.43
2700.0	15.22	4.64
3000.0	16.25	4.95

Material Specifications

Center Conductor Material	Copper-clad aluminum
Dielectric Material	Foam PE
Jacket Material	Fire retardant PE
Outer Conductor Material	Aluminum

Mechanical Specifications

Minimum Bend Radius, bonded	3.5 in 88.9 mm
Pulling Tension, maximum	300 lb 136.078 kg

Environmental Specifications

Environmental Space	Riser
Temperature Rating, UL	60 °C 140 °F
Flame Test Listing	CATVR NEC Article 820

Packaging and Weights

Packaging Type	Reel
Weight, gross	138 lb/kft 205.367 kg/km