



5457103 | P3® 875 JCAR
75 Ohm P3® Trunk and Distribution Cable, black flame retardant PE jacket

Product Classification

Brand	P3®
Product Type	Coaxial hardline cable

Construction Materials

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

Dimensions

Diameter Over Center Conductor, nominal	4.928 mm 0.194 in
Diameter Over Dielectric, nominal	20.244 mm 0.797 in
Diameter Over Outer Conductor, nominal	22.225 mm 0.875 in
Diameter Over Jacket, nominal	24.003 mm 0.945 in
Jacket Thickness, nominal	1.2065 mm 0.0475 in
Outer Conductor Thickness, nominal	0.9906 mm 0.0390 in
Cable Length	762 m 2500 ft
Shipping Weight	383.00 lb/kft

Electrical Specifications

dc Resistance, Inner Conductor, nominal	0.42 ohms/kft
dc Resistance, Outer Conductor, nominal	0.13 ohms/kft
dc Resistance, Loop, nominal	0.55 ohms/kft
dc Resistance Note	Nominal values based on a standard condition of 20 °C (68 °F)
Capacitance	50.2 pF/m 15.3 pF/ft
Capacitance Tolerance	±1.0 pF/ft
Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±2 ohm
Jacket Spark Test Voltage	5000 Vac
Nominal Velocity of Propagation (NVP)	87 %
Operating Frequency Band	1002–1218 MHz 5–1002 MHz
Structural Return Loss	30 dB @ 5–1002 MHz

Environmental Specifications

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

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General Specifications

Cable Type	875 series
Brand	P3®
Jacket Color	Black
Packaging Type	Reel
Short Description	P3 875 JCAR SM PR8069
Warranty	One year

Mechanical Specifications

Minimum Bend Radius, bonded	177.80 mm 7.00 in
Pulling Tension, maximum	397 kg 875 lb

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5 MHz	0.30	0.09
55 MHz	1.08	0.33
83 MHz	1.35	0.41
85 MHz	1.31	0.40
204 MHz	2.07	0.63
211 MHz	2.17	0.66
250 MHz	2.36	0.72
300 MHz	2.56	0.78
350 MHz	2.76	0.84
400 MHz	2.99	0.91
450 MHz	3.18	0.97
500 MHz	3.38	1.03
550 MHz	3.54	1.08
600 MHz	3.74	1.14
750 MHz	4.23	1.29
865 MHz	4.63	1.41
1000 MHz	5.02	1.53
1002 MHz	5.03	1.53
1218 MHz	5.57	1.70
1300 MHz	5.78	1.76
1400 MHz	6.03	1.84
1500 MHz		
1600 MHz	1.91	6.27
1700 MHz	6.74	2.05
1794 MHz	6.95	2.12
1800 MHz	6.93	2.13

* Attenuation listed represents maximum values at standard condition of 20 °C (68 °F)

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system