530100203 | P3® 750 JCASP SM MT

75 Ohm P3® Trunk and Distribution Cable, black PE jacket with aerial floodant

Product Classification

Brand	P3®
Product Type	Coaxial hardline cable

Construction Materials

Corrosion Protection	Aerial floodant
Jacket Material	PE
Center Conductor Material	Copper-clad aluminum
Construction Type	Swaged
Dielectric Material	Foam PE
Outer Conductor Material	Aluminum

Dimensions

Diameter Over Center Conductor, nominal	4.242 mm | 0.167 in
Diameter Over Dielectric, nominal	17.323 mm | 0.682 in
Diameter Over Outer Conductor, nominal	19.050 mm | 0.750 in
Diameter Over Jacket, nominal	21.082 mm | 0.830 in
Jacket Thickness, nominal	0.8890 mm | 0.0350 in
Outer Conductor Thickness, nominal	0.8636 mm | 0.0340 in
Cable Length	762 m | 2500 ft
Shipping Weight	268.00 lb/kft

Electrical Specifications

dc Resistance, Inner Conductor, nominal	0.57 ohms/kft
dc Resistance, Outer Conductor, nominal	0.19 ohms/kft
dc Resistance, Loop, nominal	0.76 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	5–3000 MHz
Structural Return Loss	26 dB @ 1002–1218 MHz | 30 dB @ 5–1002 MHz

Environmental Specifications

Environmental Space	Aerial

General Specifications

Cable Type	750 series
Jacket Color	Black
Packaging Type	Reel
Warranty	One year

Mechanical Specifications

Minimum Bend Radius, bonded	152.40 mm | 6.00 in
Pulling Tension, maximum	306 kg | 675 lb

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5 MHz	0.36	0.11
55 MHz	1.21	0.37
83 MHz	1.51	0.46
85 MHz	1.51	0.46
204 MHz	2.36	0.72
211 MHz	2.43	0.74
250 MHz	2.66	0.81
300 MHz	2.92	0.89
350 MHz	3.18	0.97
400 MHz	3.45	1.05
450 MHz	3.67	1.12
500 MHz	3.87	1.18
550 MHz	4.07	1.24
600 MHz	4.30	1.31
750 MHz	4.86	1.48
865 MHz	5.28	1.61
1000 MHz	5.71	1.74
1002 MHz	5.71	1.74
1218 MHz	6.40	1.95
1794 MHz	7.93	2.42
1800 MHz	7.95	2.43
2000 MHz	8.45	2.58
2200 MHz	8.93	2.72
2400 MHz	9.40	2.87
2600 MHz	9.86	3.00
2800 MHz	10.30	3.14
3000 MHz	10.73	3.27

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

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system