

75 Ohm P3® Trunk and Distribution Cable, Gray PE jacket with integrated Figure 8 self supporting galvanized solid steel messenger



## Product Classification

<b>Brand</b>	P3®
<b>Product Type</b>	Coaxial hardline cable

## Construction Materials

<b>Jacket Material</b>	PE
<b>Center Conductor Material</b>	Copper-clad aluminum
<b>Construction Type</b>	Swaged
<b>Dielectric Material</b>	Foam PE
<b>Messenger Wire Material</b>	Zinc-coated steel
<b>Outer Conductor Material</b>	Aluminum

## Dimensions

<b>Diameter Over Center Conductor, nominal</b>	3.480 mm   0.137 in
<b>Diameter Over Dielectric, nominal</b>	14.351 mm   0.565 in
<b>Diameter Over Outer Conductor, nominal</b>	15.875 mm   0.625 in
<b>Diameter Over Jacket, nominal</b>	17.399 mm   0.685 in
<b>Diameter Over Messenger Wire, nominal</b>	2.769 mm   0.109 in
<b>Jacket Thickness, nominal</b>	0.7620 mm   0.0300 in
<b>Outer Conductor Thickness, nominal</b>	0.7620 mm   0.0300 in
<b>Cable Length</b>	732 m   2400 ft
<b>Shipping Weight</b>	183.00 lb/kft

## Electrical Specifications

<b>dc Resistance, Inner Conductor, nominal</b>	0.84 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	0.26 ohms/kft
<b>dc Resistance, Loop, nominal</b>	1.10 ohms/kft
<b>dc Resistance Note</b>	Nominal values based on a standard condition of 20 °C (68 °F)
<b>Capacitance</b>	50.2 pF/m   15.3 pF/ft

<b>Capacitance Tolerance</b>	±1.0 pF/ft
<b>Characteristic Impedance</b>	75 ohm
<b>Characteristic Impedance Tolerance</b>	±2 ohm
<b>Jacket Spark Test Voltage</b>	5000 Vac
<b>Nominal Velocity of Propagation (NVP)</b>	87 %
<b>Operating Frequency Band</b>	5–3000 MHz
<b>Structural Return Loss</b>	26 dB @ 1002–1218 MHz   30 dB @ 5–1002 MHz

## Environmental Specifications

<b>Environmental Space</b>	Aerial
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## General Specifications

<b>Cable Type</b>	625 series
<b>Jacket Color</b>	Gray
<b>Messenger Wire Type</b>	Solid
<b>Packaging Type</b>	Reel
<b>Warranty</b>	One year

## Mechanical Specifications

<b>Messenger Wire Breaking Strength, minimum</b>	816 kg   1800 lb
<b>Minimum Bend Radius, bonded</b>	114.30 mm   4.50 in
<b>Pulling Tension, maximum</b>	215 kg   475 lb

## Electrical Performance

<b>Frequency</b>	<b>Attenuation (dB/100 m)</b>	<b>Attenuation (dB/100 ft)</b>
5 MHz	0.43	0.13
55 MHz	1.48	0.45
83 MHz	1.84	0.56
85 MHz	1.84	0.56
204 MHz	2.92	0.89
211 MHz	3.02	0.92
250 MHz	3.28	1.00
300 MHz	3.54	1.08
350 MHz	3.87	1.18
400 MHz	4.17	1.27
450 MHz	4.43	1.35
500 MHz	4.69	1.43
550 MHz	4.92	1.50
600 MHz	5.18	1.58
750 MHz	5.84	1.78
865 MHz	6.33	1.93
1000 MHz	6.79	2.07
1002 MHz	6.86	2.09

1218 MHz	7.63	2.33
1400 MHz	8.29	2.53
1500 MHz	8.62	2.63
1600 MHz	8.95	2.73
1700 MHz	9.27	2.83
1794 MHz	9.56	2.92
1800 MHz	9.58	2.93
2000 MHz	10.19	3.11
2200 MHz	10.78	3.28
2400 MHz	11.35	3.46
2600 MHz	11.90	3.63
2800 MHz	12.44	3.79
3000 MHz	12.96	3.95

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

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU

ISO 9001:2015

### Classification

Compliant

Designed, manufactured and/or distributed under this quality management system

