



75 Ohm P3® Trunk and Distribution Cable, black 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>	Steel
<b>Outer Conductor Material</b>	Aluminum

## Dimensions

<b>Diameter Over Center Conductor, nominal</b>	2.769 mm   0.109 in
<b>Diameter Over Dielectric, nominal</b>	11.481 mm   0.452 in
<b>Diameter Over Outer Conductor, nominal</b>	12.700 mm   0.500 in
<b>Diameter Over Jacket, nominal</b>	14.224 mm   0.560 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>	0.6096 mm   0.0240 in
<b>Cable Length</b>	732 m   2400 ft
<b>Shipping Weight</b>	176.00 lb/kft

## Electrical Specifications

<b>dc Resistance, Inner Conductor, nominal</b>	1.35 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	0.37 ohms/kft
<b>dc Resistance, Loop, nominal</b>	1.72 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

## Structural Return Loss

26 dB @ 1002–1218 MHz | 30 dB @ 5–1002 MHz

## Environmental Specifications

**Environmental Space** Aerial

## General Specifications

**Cable Type** 500 series  
**Jacket Color** Black  
**Packaging Type** Reel  
**Warranty** One year

## Mechanical Specifications

**Messenger Wire Breaking Strength, minimum** 816 kg | 1800 lb  
**Minimum Bend Radius, bonded** 88.90 mm | 3.50 in  
**Pulling Tension, maximum** 136 kg | 300 lb

## Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5 MHz	0.52	0.16
55 MHz	1.77	0.54
83 MHz	2.17	0.66
85 MHz	2.23	0.68
204 MHz	3.51	1.07
211 MHz	3.58	1.09
250 MHz	3.94	1.20
300 MHz	4.30	1.31
350 MHz	4.69	1.43
400 MHz	5.02	1.53
450 MHz	5.35	1.63
500 MHz	5.67	1.73
550 MHz	5.97	1.82
600 MHz	6.27	2.94
750 MHz	7.09	2.16
865 MHz	7.68	2.34
1000 MHz	8.27	2.52
1002 MHz	8.33	2.54
1218 MHz	9.32	2.84
1400 MHz	10.13	3.09
1500 MHz	10.55	3.22
1600 MHz	10.97	3.34
1700 MHz	11.38	3.47
1794 MHz	11.76	3.58
1800 MHz	11.78	3.59
2000 MHz	12.56	3.83
2200 MHz	13.32	4.06

2400 MHz	14.05	4.28
2600 MHz	14.77	4.50
2800 MHz	15.47	4.71
3000 MHz	16.15	4.92

\* 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

