

HomeConnect® 75 Ohm Coaxial Drop Cable, Series 50, black PVC jacket with messenger



Product Classification

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|-----------------------|--------------------|
| Brand | HomeConnect® |
| Product Type | Coaxial drop cable |
| Product Series | 50 Series |

Construction Materials

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|--------------------------------------|--|
| Jacket Material | PVC |
| Center Conductor Material | Copper-clad aluminum |
| Dielectric Material | Foam PE |
| Inner Shield (Braid) Coverage | 60 % |
| Inner Shield (Braid) Gauge | 33 AWG |
| Inner Shield (Braid) Material | Aluminum |
| Inner Shield (Tape) Material | Aluminum/Polymer/Aluminum (APA) bonded |
| Messenger Wire Material | Zinc-coated steel |
| Outer Shield (Tape) Material | Aluminum/Polymer/Aluminum (APA) |

Dimensions

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|---|-----------------------|
| Diameter Over Center Conductor, nominal | 2.769 mm 0.109 in |
| Diameter Over Dielectric, nominal | 11.557 mm 0.455 in |
| Diameter Over Inner Shield (Tape), nominal | 11.760 mm 0.463 in |
| Diameter Over Jacket, nominal | 14.986 mm 0.590 in |
| Diameter Over Messenger Wire, nominal | 2.769 mm 0.109 in |
| Jacket Thickness, nominal | 1.1938 mm 0.0470 in |
| Shipping Weight | 151.00 lb/kft |

Electrical Specifications

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| dc Resistance, Inner Conductor, nominal | 1.20 ohms/kft |
| dc Resistance, Outer Conductor, nominal | 3.40 ohms/kft |
| dc Resistance, Loop, nominal | 4.60 ohms/kft |

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| Operating Frequency Band | 5–3000 MHz |
| dc Resistance Note | Nominal values based on a standard condition of 20 °C (68 °F) |
| Capacitance | 53.1 pF/m 16.2 pF/ft |
| Characteristic Impedance | 75 ohm |
| Characteristic Impedance Tolerance | ±3 ohm |
| Nominal Velocity of Propagation (NVP) | 85 % |

Environmental Specifications

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|----------------------------|--------|
| Environmental Space | Aerial |
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General Specifications

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|---------------------------------|---------------|
| Cable Type | Series 50 |
| Packaging Type | Reel |
| Shield Construction Type | Trishield |
| Center Conductor Gauge | 9 AWG |
| Center Conductor Type | Solid |
| Jacket Color | Black |
| Jacket Marking | Feet Meters |
| Messenger Wire Type | Solid |
| Warranty | One year |

Mechanical Specifications

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| Messenger Wire Breaking Strength, minimum | 816 kg 1800 lb |
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Electrical Performance

| Frequency | Attenuation (dB/100 m) | Attenuation (dB/100 ft) |
|-----------|------------------------|-------------------------|
| 5 MHz | 0.69 | 0.21 |
| 55 MHz | 1.97 | 0.60 |
| 83 MHz | 2.40 | 0.73 |
| 85 MHz | 2.43 | 0.74 |
| 187 MHz | 3.58 | 1.09 |
| 204 MHz | 4.63 | 1.14 |
| 211 MHz | 3.81 | 1.16 |
| 250 MHz | 4.17 | 1.27 |
| 300 MHz | 4.56 | 1.39 |
| 350 MHz | 4.92 | 1.50 |
| 400 MHz | 5.28 | 1.61 |
| 450 MHz | 5.61 | 1.71 |
| 500 MHz | 5.91 | 1.80 |
| 550 MHz | 6.20 | 1.89 |
| 600 MHz | 6.50 | 1.98 |
| 750 MHz | 7.32 | 2.23 |
| 865 MHz | 7.87 | 2.40 |

| | | |
|----------|-------|------|
| 1000 MHz | 8.50 | 2.59 |
| 1218 MHz | 9.42 | 2.87 |
| 1300 MHz | 9.81 | 2.99 |
| 1400 MHz | 10.27 | 3.13 |
| 1500 MHz | 10.70 | 3.26 |
| 1600 MHz | 11.09 | 3.38 |
| 1700 MHz | 11.52 | 3.51 |
| 1794 MHz | 11.88 | 3.62 |
| 1800 MHz | 11.91 | 3.63 |
| 2000 MHz | 12.70 | 3.87 |
| 2200 MHz | 13.45 | 4.10 |
| 2500 MHz | 14.53 | 4.43 |
| 2800 MHz | 15.59 | 4.75 |
| 3000 MHz | 16.24 | 4.95 |

* 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

