



Part Number: 3092A

ControlBus™, Coax RG6, #18 Sol BCCS, PO Ins, QUAD AL Shld, PVC Jkt, CMR

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Product Description

ControlBus™, Coax RG6 18AWG (Solid) Bare Copper Covered Steel, PO Insulation, Overall Duofoil®+ Aluminum Braid(60%)+Overall Duofoil®+Aluminum Braid(40%) Shield, PVC Outer Jacket, CMR

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
|------------------|-----------|----------------------------------|------------------|-------------|
| 18 | Solid | BCCS - Bare Copper Covered Steel | 0.04 in | 1 |
| Conductor Count: | | 1 | | |
| Conductor Size: | | 18 AWG | | |

Insulation

| Material | Nominal Diameter |
|--------------------------------------|------------------|
| Gas-injected FPE - Foam Polyethylene | 0.18 in |

Outer Shield Material

| Type | Layer | Material | Material Trade Name | Coverage [%] |
|-------|-------|-----------------------------|---------------------|--------------|
| Tape | 1 | Aluminum/Polyester/Aluminum | Bonded Duofoil® | 100 % |
| Braid | 2 | AL - Aluminum | | 60 % |
| Tape | 3 | Aluminum/Polyester/Aluminum | Duofoil® | 100 % |
| Braid | 4 | AL - Aluminum | | 40 % |

Outer Jacket Material

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.298 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--------------------------|---------------------|
| 28 Ohm/1000ft | 3.6 Ohm/1000ft | 3.6 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 16.2 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
| 0.097 µH/ft |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 75 Ohm |

Return Loss (RL)

| Frequency [MHz] | Min. Structural Return Loss (SRL) |
|-----------------|-----------------------------------|
| 5 - 50 MHz | 23 dB |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.35 dB/100ft |
| 2 MHz | 0.38 dB/100ft |
| 5 MHz | 0.45 dB/100ft |
| 10 MHz | 0.59 dB/100ft |
| 20 MHz | 0.86 dB/100ft |
| 50 MHz | 1.37 dB/100ft |
| 100 Mhz MHz | 1.97 dB/100ft |
| 200 Mhz MHz | 2.82 dB/100ft |
| 300 MHz MHz | 3.48 dB/100ft |
| 400 Mhz MHz | 4.04 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.22 ns/ft | 83.0 % |

High Freq

| Min. SRL (Structural Return Loss) |
|-----------------------------------|
| 23 dB |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS |

Temperature Range

| | |
|-----------------------|----------------|
| UL Temp Rating: | 75°C |
| Operating Temp Range: | -30°C To +75°C |

Mechanical Characteristics

| | |
|----------------------------------|---------------|
| Bulk Cable Weight: | 34 lbs/1000ft |
| Max Recommended Pulling Tension: | 117 lbs |
| Min Bend Radius/Minor Axis: | 3 in |

Standards

| | |
|--------------------------|----------------|
| NEC/(UL) Specification: | CMR, CL2R, CMG |
| CEC/C(UL) Specification: | CMG |
| CPR Euroclass: | Eca |

Applicable Environmental and Other Programs

| | |
|---------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/96/EC (BFR): | Yes |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU: | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2004-01-01 |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|------------------------------------|--|
| Suitability - Aerial: | Yes - When supported by messenger wire |
| Suitability - Burial: | No |
| Suitability - Hazardous Locations: | No |
| Suitability - Indoor: | Yes |

| | |
|------------------------------------|-----|
| Suitability - Outdoor: | Yes |
| Suitability - Sunlight Resistance: | Yes |

Flammability, LSOH, Toxicity Testing

| | |
|--------------------|------------------------|
| UL Flammability: | UL 1666 Vertical Shaft |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

| | |
|----------------|-------|
| Plenum (Y/N): | No |
| Plenum Number: | 3093A |

Part Number

Variants

| Item # | Color | Footnote |
|----------------|----------|----------|
| 3092A 0101000 | Black | C |
| 3092A 01010000 | Black | |
| 3092A 0102000 | Black | C |
| 3092A 010500 | Black | |
| 3092A 0105000 | Black | |
| 3092A X7E1000 | Blue X7E | C |
| 3092A X7E500 | Blue X7E | |
| 3092A X7E5000 | Blue X7E | |

| | |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

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