



Product: [3092A](#)

ControlBus™, Coax RG-6, #18 Sol BCCS, FPE Ins, QUAD AL Shld, PVC Jkt, CMR

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Product Description

Coax RG-6 18 AWG (Solid) Bare Copper Covered Steel, Foam PE Insulation, Overall Duobond® II+Aluminum Braid(60%)+Duofoil®+Aluminum Braid(40%) Shield, PVC Outer Jacket, CMR

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Suitable Applications: | harsh environment, factory automation, ControlNet™, Modbus II, Industrial Coax, Belden ControlNet cables provide maximum signal integrity and run length exceeding the high-speed, time-critical requirements necessary for ControlNet factory floor applications |
|------------------------|---|

Construction Details

| | |
|----------|---|
| RG Type: | 6 |
|----------|---|

Conductor

| AWG | Stranding | Nom. Diameter | Material |
|-----|-----------|---------------|----------------------------------|
| 18 | Solid | 0.040 in | BCCS - Bare Copper Covered Steel |

Insulation

| Material | Nom. Diameter |
|--------------------------|---------------|
| PE - Polyethylene (Foam) | 0.180 |

Outer Shield Material

| Layer | Outer Shield Type | Material | Material Trade Name | Coverage |
|-------|-------------------|-------------------------------|---------------------|----------|
| 1 | Tape | Tri-Laminate (Alum+Poly+Alum) | Duobond® II | 100% |
| 2 | Braid | Aluminum | | 60% |
| 3 | Tape | Tri-Laminate (Alum+Poly+Alum) | Duofoil® | 100% |
| 4 | Braid | Aluminum | | 40% |

Outer Jacket Material

| Material | Nom. Diameter |
|--------------------------|---------------|
| PVC - Polyvinyl Chloride | 0.298 in |

Electrical Characteristics

Return Loss (RL)

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

Attenuation

| Frequency | Nom. Attenuation [dB/100ft] | Max. Attenuation [dB/100ft] |
|-----------|-----------------------------|-----------------------------|
| 1 MHz | 0.35 dB/100ft | 0.40 dB/100ft |
| 2 MHz | 0.38 dB/100ft | 0.42 dB/100ft |
| 5 MHz | 0.45 dB/100ft | 0.50 dB/100ft |
| 10 MHz | 0.59 dB/100ft | 0.65 dB/100ft |
| 20 MHz | 0.86 dB/100ft | 0.95 dB/100ft |
| 50 MHz | 1.37 dB/100ft | 1.52 dB/100ft |
| 100 MHz | 1.97 dB/100ft | |

| | | |
|---------|---------------|--|
| 200 MHz | 2.82 dB/100ft | |
| 300 MHz | 3.48 dB/100ft | |
| 400 MHz | 4.04 dB/100ft | |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Impedance | Nom. Velocity |
|--------------------|-----------------------|---------------------------------|----------------|---------------|
| 28 Ohm/1000ft | 2.6 Ohm/1000ft | 16.2 pF/ft | 75 Ohm | 83% |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CMR, CMG) |

Mechanical Characteristics

Temperature

| UL Rating | Operating |
|-----------|----------------|
| 75°C | -30°C to +75°C |

Bend Radius

| Installation Min. |
|-------------------|
| 3 in |

| | |
|--------------------|---------------|
| Bulk Cable Weight: | 35 lbs/1000ft |
| Max. Pull Tension: | 118 lbs |

Standards and Compliance

| | |
|---------------------------------|---|
| Environmental Suitability: | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance |
| Sustainability: | CA Prop 65 |
| Flammability / Fire Resistance: | UL1685 FT4 Loading, Limited Smoke |
| NEC / UL Compliance: | CMR, CL2R, CMG |
| CEC / C(UL) Compliance: | CMG |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Plenum Number: | 3093A |

History

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| Update and Revision: | Revision Number: 0.325 Revision Date: 07-28-2020 |
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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9