



Product: [3093A](#)

ControlBus™, Coax RG6, #18 Sol BCCS, FEP Ins, QUAD AL Shld, PVDF Jkt, CMP High Temp 150C

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Product Description

ControlBus™, Coax RG6 18AWG (Solid) Bare Copper Covered Steel, FEP Insulation, Overall Duofoil®+ Aluminum Braid(60%)+Overall Duofoil®+Aluminum Braid(40%) Shield, PVDF Outer Jacket, CMP High Temp 150C

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 |
|------------------------|---|

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 |
|------------------|---|

Insulation

| Material | Nominal Diameter |
|---|------------------|
| FEP - Fluorinated Ethylene Propylene (Foam) | 0.17 in |

Outer Shield Material

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

Outer Jacket Material

| Material | Nominal Diameter |
|--------------------------------|------------------|
| PVDF - Polyvinylidene Fluoride | 0.274 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 |
|--------------------------------------|
| 16.3 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
| 0.093 µH/ft |

Impedance

Nominal Characteristic Impedance

100 Ohm

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.36 dB/100ft |
| 2 MHz | 0.38 dB/100ft |
| 5 MHz | 0.5 dB/100ft |
| 10 MHz | 0.65 dB/100ft |
| 20 MHz | 0.95 dB/100ft |
| 50 MHz | 1.5 dB/100ft |
| 100 MHz | 2.12 dB/100ft |
| 200 MHz | 2.99 dB/100ft |
| 300 MHz | 3.66 dB/100ft |
| 400 MHz | 4.23 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.28 ns/ft | 82% |

High Freq

| Frequency [MHz] | Min. SRL (Structural Return Loss) |
|-----------------|-----------------------------------|
| 1 MHz | 23 dB |
| 2 MHz | |
| 5 MHz | |
| 10 MHz | |
| 20 MHz | |
| 50 MHz | |
| 100 MHz | |
| 200 MHz | |
| 300 MHz | |
| 400 MHz | |

Temperature Range

| | |
|-----------------------|-----------------|
| UL Temp Rating: | 150°C |
| Operating Temp Range: | -20°C To +150°C |

Mechanical Characteristics

| | |
|-----------------------------|---------------|
| Bulk Cable Weight: | 43 lbs/1000ft |
| Max. Pull Tension: | 104 lbs |
| Min Bend Radius/Minor Axis: | 2.75 in |

Standards

| | |
|-----------------------|-------------|
| NEC Articles: | Article 800 |
| NEC/(UL) Compliance: | CMP |
| CEC/C(UL) Compliance: | CMP |
| RG Type: | 6/U Type |

Applicable Environmental and Other Programs

| | |
|---------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV): | 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 RoHS Compliance Date (yyyy-mm-dd): | 2005-04-01 |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|-----------------------|-----|
| Suitability - Burial: | Yes |
|-----------------------|-----|

| | |
|------------------------|-----|
| Suitability - Outdoor: | Yes |
|------------------------|-----|

Flammability, LSOH, Toxicity Testing

| | |
|--------------------|-----------|
| UL Flammability: | NFPA 262 |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

| | |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

Part Number

| | |
|--------------------|-------|
| Non-Plenum Number: | 3092A |
|--------------------|-------|

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|-------|------------|----------|--------------|
| 3093A 0101000 | Black | Reel | 1,000 ft | 612825141464 |
| 3093A 0102500 | Black | Reel | 2,500 ft | 612825141488 |
| 3093A 0105000 | Black | Reel | 5,000 ft | 612825141495 |

| | |
|-----------|--|
| Footnote: | C - CRATE REEL PUT-UP. |
| Footnote: | N - FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN. |
| Footnote: | Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN. |

Product Notes

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|--------|---|
| Notes: | Blue available as standard in 1000-ft put-up only. Suitable for Outdoor and Direct Burial applications. |
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History

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| Update and Revision: | Revision Number: 0.319 Revision Date: 04-28-2020 |
|----------------------|--|

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Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.