



**Part Number: 3092A**

ControlNet™, (1 coax) 18 AWG Solid BCCS, FPE/PVC, Quad Shld, CMR

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## Product Description

One 18 AWG solid bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® IV Quad Shield (60%/40% coverage), PVC Jacket.

## 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	
Shielding:	Foil + Braid + Foil + Braid (Quad)

#### Inductance

Nominal Inductance
0.097 µH/ft

#### Impedance

Nominal Characteristic Impedance
50 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

#### 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
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UL voltage rating:	300 V RMS
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## 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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