Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



3093A Coax - ControlNet™ Quad Shielded Coax

For more Information please call

1-800-Belden1



General Description:

18 AWG solid bare copper-covered steel conductor, foam FEP insulation, Duobond® IV Quad Shield (100% coverage), fluorocopolymer Jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	Solid	BCCS - Bare Copper Covered Steel	1.016

Total Number of Conductors:

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FFEP - Foam Fluorinated Ethylene Propylene	4.318

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	AL - Aluminum	60
3	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
4		Braid	AL - Aluminum	40

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVDF - Fluorocopolymer

Overall Cable

Overall Nominal Diameter: 6.960 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +150°C
Non-UL Temperature Rating:	150°C
Bulk Cable Weight:	63.993 Kg/Km
Max. Recommended Pulling Tension:	462.613 N
Min. Bend Radius/Minor Axis:	69.850 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005

Page 1 of 3 01-30-2019

Detailed Specifications & Technical Data





3093A Coax - ControlNet™ Quad Shielded Coax

EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	6/U
Flame Test	
UL Flame Test:	NFPA 262
Suitability	
Suitability - Outdoor:	Yes
Suitability - Burial:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	Yes
Non-Plenum Number:	3092A

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



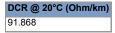
Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 11.8116

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	1.18116
2	1.24678
5	1.6405
10	2.13265
20	3.11695
50	4.9215
100	6.95572
200	9.81019
300	12.0085
400	13.8786

Minimum Structural Return Loss:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
		5	50	23

Page 2 of 3 01-30-2019

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Notes (Overall)

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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3093A X7E1000	1,000 FT	40.000 LB	BLUE X7E	С	#18 FFEP DBSH SLF
3093A 0101000	1,000 FT	40.000 LB	BLACK	С	#18 FFEP DBSH SLF
3093A 0102000	2,000 FT	80.000 LB	BLACK	CN	#18 FFEP DBSH SLF
3093A 0102500	2,500 FT	95.000 LB	BLACK	CN	#18 FFEP DBSH SLF
3093A 0105000	5,000 FT	195.000 LB	BLACK	CZ	#18 FFEP DBSH SLF

Notes:

C = CRATE REEL PUT-UP

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 2 Revision Date: 09-04-2013

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