

3093A Coax - ControlNet™ Quad Shielded Coax

 	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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Description:

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

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	6/U
AWG	18
Stranding	Solid
Conductor Diameter	.040 in.
Conductor Material	BCCS - Bare Copper Covered Steel

INSULATION:

Insulation Material	FFEP - Foam Fluorinated Ethylene Propylene
Insulation Diameter	.170 in.

OUTER SHIELD:

Outer Shield Material Trade Name	Duobond® IV Quad Shield
Outer Shield Type	Tape/Braid/Tape/Braid

Outer Shield Material :

Layer Number	Trade Name	Type	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 Shield % Coverage	100 %
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OUTER JACKET:

Outer Jacket Material	PVDF - Fluorocopolymer
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.274 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +150°C
Non-UL Temperature Rating	150°C
Bulk Cable Weight	43 lbs/1000 ft.
Max. Recommended Pulling Tension	104 lbs.
Min. Bend Radius (Install)	2.75 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMP
CEC/C(UL) Specification	CMP FT6
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005

FLAME TEST:

UL Flame Test	NFPA 262
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SUITABILITY:

Suitability - Outdoor	Yes
Suitability - Burial	Yes

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	.093 µH/ft
Nom. Capacitance Conductor to Shield	16.3 pF/ft
Nominal Velocity of Propagation	82 %
Nominal Delay	1.28 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	28.0 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg.C	3.6 Ohms/1000 ft

Minimum Structural Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Structural Return Loss (dB)
		5	50	23

Nom. Attenuation :

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			.36
	2			.38
	5			.50
	10			.65
	20			.95
	50			1.50
	100			2.12
	200			2.99
	300			3.66
	400			4.23

Max. Operating Voltage - Other 300 V RMS

NOTES:

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

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
3093A 0101000	#18 FFEP DBSH SLF	1000	40	BLACK	C
3093A 0102000	#18 FFEP DBSH SLF	2000	80	BLACK	C N
3093A 0102500	#18 FFEP DBSH SLF	2500	95	BLACK	C N
3093A X7E1000	#18 FFEP DBSH SLF	1000	40	BLUE X7E	C

C = CRATE REEL PUT-UP.

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

Revision Number: 1 Revision Date: 09-08-2006

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