

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

Series 6, 18 AWG solid .040" bare copper conductor, gas-injected foam polyethylene insulation, Duobond® + aluminum braid shields (60% and 40% coverage), PVC jacket (black or white).

SUITABLE APPLICATIONS:

Suitable Applications: HDTV, DBS, Broadband CATV, Cable Modem

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
Series Type	Series 6
AWG	18
Stranding	Solid
Conductor Diameter	.040 in.
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	Gas-injected FPE - Foam Polyethylene
Insulation Diameter	.180 in.

OUTER SHIELD:

Outer Shield Material Trade Name	Duobond® IV
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 %

OUTER JACKET:



7916A Coax - Series 6

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.298 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +80°C
UL Temperature Rating	80°C
Bulk Cable Weight	32 lbs/1000 ft.
Max. Recommended Pulling Tension	104 lbs.
Min. Bend Radius (Install)	3 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CATV, CM
CEC/C(UL) Specification	CM
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004

FLAME TEST:

UL Flame Test	UL1685 UL Loading
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SWEEP TEST:

Sweep Testing	5 MHz - 3 GHz
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PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 +/- 3 Ohms
Nom. Inductance	.097 µH/ft
Nom. Capacitance Conductor to Shield	16.2 pF/ft
Nominal Velocity of Propagation	83 %
Nominal Delay	1.2 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	6.4 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20°C	4.8 Ohms/1000 ft

Minimum Structural Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Structural Return Loss (dB)
		5	1000	20
		1000	2250	15
		2250	3000	10

Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	5			0.5
	55			1.4
	211			2.6
	500			4.1
	750			5.1
	862			5.5
	1000			6.0
	1450			7.9
	1800			8.4
	2250			10.1

Max. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100 ft.)
	5			0.67
	55			1.60
	211			2.87
	500			4.48
	750			5.59
	862			5.98
	1000			6.54
	1450			8.30
	1800			9.30
	2250			10.60

Max. Operating Voltage - UL 350 V RMS

Shield Effectiveness :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Shield Effectiveness (dB)
		5	50	105
		50	1000	110

NOTES:

Notes Shielding effectiveness determined from screening attenuation measurement when tested in accordance with IEC 61196-1.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
7916A 0091000	#18 LDPE/GIFHDL DPE DBSH FRPVC	1000	35	WHITE	C
7916A 009500	#18 LDPE/GIFHDL DPE DBSH FRPVC	500	16.5	WHITE	C

7916A 009U1000	#18 LDPE/GIFHDLDP DBSH FRPVC	U1000	37	WHITE	
7916A 009U500	#18 LDPE/GIFHDLDP DBSH FRPVC	U500	18.5	WHITE	
7916A 0101000	#18 LDPE/GIFHDLDP DBSH FRPVC	1000	35	BLACK	C
7916A 010500	#18 LDPE/GIFHDLDP DBSH FRPVC	500	16.5	BLACK	C
7916A 010U1000	#18 LDPE/GIFHDLDP DBSH FRPVC	U1000	37	BLACK	
7916A 010U500	#18 LDPE/GIFHDLDP DBSH FRPVC	U500	18.5	BLACK	

C = CRATE REEL PUT-UP.

Revision Number: 4 Revision Date: 06-21-2005

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