



# Product: <u>1694WB</u> ☑

Serial Digital Coax, RG6, #18 Solid BC, Foil + 95% TC braid, Waterblocked

## **Product Description**

Low Loss Serial Digital Coax, RG6 18 AWG solid bare copper conductor, foam HDPE core, Duofoil®+95% tinned copper braid, waterblocking grease, PE jacket

## **Technical Specifications**

# Product Overview

Suitable Applications:	SMPTE 424M 3 Gb/s HD-SDI 1080p
Physical Characteristics (Overa	·II)

#### Conductor

AWG	Stranding	M	aterial	Nomi	nal Diameter	No. of Coax
18	Solid	BC - B	are Copper	0.04 ii	n	1
Condu	ctor Count:			1		
Insulati	ion					
	Material		Nominal D	liamete	er	
PE - P	olyethylene	(Foam)	0.18 in			
Table	Notes:			G	Sas Injected	

#### Outer Shield Material

Туре	Layer	Material	Material Trade Name	Coverage [%]
Таре	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Tinned Copper (TC)		95%
Table	Notes:	es: Outer Shield Flooding Grease		

### Outer Jacket Material

Material	Nominal Diameter
PE - Polyethylene	0.274 in

## **Electrical Characteristics**

Conductor	DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
6.4 Ohm/1000ft	2.8 Ohm/1000ft

### Capacitance

Nom. Capacitance Conductor to Sh	ield
16.2 pF/ft	

## Inductance

Nominal Inductance 0.106 µH/ft

## Impedance

Nominal Characteristic Impedance

## 75 Ohm

## Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5 MHz - 1600 MHz	23 dB
1600 MHz - 4500 MHz	21 dB

## High Frequency (Nominal/Typical)

	<b>3.</b> <i>i</i>
Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.24 dB/100ft
3.58 MHz	0.44 dB/100ft
5 MHz	0.52 dB/100ft
6 MHz	0.57 dB/100ft
7 MHz	0.61 dB/100ft
10 MHz	0.71 dB/100ft
12 MHz	0.78 dB/100ft
25 MHz	1.08 dB/100ft
67.5 MHz	1.65 dB/100ft
71.5 MHz	1.69 dB/100ft
88.5 MHz	1.86 dB/100ft
100 MHz	1.95 dB/100ft
135 MHz	2.24 dB/100ft
143 MHz	2.3 dB/100ft
180 MHz	2.57 dB/100ft
270 MHz	3.17 dB/100ft
360 MHz	3.69 dB/100ft
540 MHz	4.5 dB/100ft
720 MHz	5.3 dB/100ft
750 MHz	5.4 dB/100ft
1000 MHz	6.3 dB/100ft
1500 MHz	7.8 dB/100ft
2000 MHz	9.2 dB/100ft
2250 MHz	9.8 dB/100ft
3000 MHz	11.5 dB/100ft
4500 MHz	14.5 dB/100ft

## Delay

Nominal Delay	Nominal Velocity of Pro	opagation (VP) [%]
1.24 ns/ft	82%	
Electrical Characteristics Notes:		Return Loss: Fixe

## **Temperature Range**

Operating Temp Range:	-55°C To +80°C

## **Mechanical Characteristics**

UV Resistance:	Yes
Bulk Cable Weight:	36 lbs/1000ft
Max. Pull Tension:	69 lbs
Min Bend Radius/Minor Axis:	2.75 in

## Standards RG Type:

6/U Type

## Applicable Environmental and Other Programs

Environmental Space:	Outdoor - Water Exposure	
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 Compliance:	EU Directive 2003/11/EC (BFR)	
EU CE Mark:	No	

EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Aerial:	Yes - When supported by messenger wire	
Suitability - Burial:	Yes	
Suitability - Hazardous Locations:	No	
Suitability - Indoor:	No	
Suitability - Outdoor:	Yes	
Suitability - Sunlight Resistance:	No	

## Plenum/Non-Plenum

Plenum (Y/N):

#### Part Number

#### Variants

ltem #	Color	Putup Typ	e Length	UPC	
1694WB 0101000	Black	Reel	1,000 ft	612825358602	
1694WB 0102500	Black	Reel	2,500 ft	612825357483	
1694WB 0105000	Black	Reel	5,000 ft	612825357490	
1694WB 01010000	Black	Reel	10,000 ft	612825443018	
1694WB 0061000	Blue, Light	Reel	1,000 ft	612825358596	
1694WB 0062500	Blue, Light	Reel	2,500 ft	612825357469	
1694WB 0065000	Blue, Light	Reel	5,000 ft	612825357476	
Footnote:			C - CRATE REEL PUT-UP.		

No

#### **Product Notes**

Notes:

Flooding grease between jacket and braid. Print legend includes sequential footage marks.

### **History**

Update and Revision:

Revision Number: 0.317 Revision Date: 09-30-2020

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