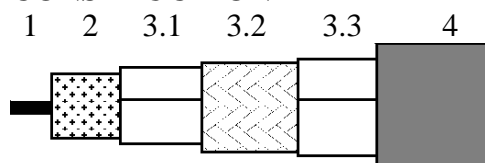
	<b>TECHNICAL DATA SHEET</b>		Code	<b>1694DNH</b>
			version	<b>2</b>
	<b>Precesion Video Cable</b>		date	<b>2011-12-28</b>
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## APPLICATION

Low loss HDTV/SDI Digital coax used in analog and digital video circuits and high quality applications. The outer conductor is designed for high screening attenuation and low transfer impedance. The cable is UV-resistant and suitable for indoor and outdoor use.

## CONSTRUCTION




1	Inner conductor	Solid soft annealed copper
2	Dielectric	Gas injected PE
3.1	Foil	AL-PET-AL bonded to dielectric
3.2	Braid	Annealed tinned copper
3.3	Foil	AL-PET (L-folded) bonded to sheath
4	Sheath	LSNH/FRNC

## REQUIREMENTS AND TEST METHODS

Test methods in accordance with European standard EN 50117-1.

### Mechanical characteristics

1. Inner conductor:	
Diameter:	1.02 mm ± 0.03 mm
2. Dielectric:	
Diameter:	4.57 mm ± 0.15 mm
3. Outer conductor:	
Nominal diameter screen:	5.6 mm
Foil overlap (both):	≥ 2 mm
Coverage braid:	80 % ± 5 %
4. Sheath:	
Diameter:	6.96 mm ± 0.2 mm
Tensile strength:	≥ 9.0 N/mm <sup>2</sup>
Elongation at break:	≥ 125 %
Corrosivity	To meet EN 50290-2-27
5. Cable:	
Storage/operating temperature:	-30°C to +70°C
Minimum installation temperature:	-5 °C
Resistance to flame propagation:	To meet IEC 60332-3-24
Maximum tensile strength of cable:	300 N
Minimum static bend radius:	70 mm

 SENDING ALL THE RIGHT SIGNALS	<b>TECHNICAL DATA SHEET</b>		Code	<b>1694DNH</b>
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### Electrical characteristics

Mean characteristic impedance:	$75 \pm 3 \Omega$
Nominal DC resistance inner conductor:	$21 \Omega/\text{km}$
Nominal DC resistance outer conductor:	$11 \Omega/\text{km}$
Capacitance:	$53 \text{ pF/m} \pm 2 \text{ pF/m}$
Velocity ratio:	$0.82 \pm 0.02$
Nominal delay:	$4.07 \text{ ns/m}$
Insulation resistance:	$> 10^4 \text{ M}\Omega.\text{km}$
Voltage test of dielectric:	$2 \text{ kVdc}$
Return loss at 5-1600 MHz:	$\geq 23 \text{ dB}$
1600-4500 MHz:	$\geq 21 \text{ dB}$
Screening attenuation at	
30-1000 MHz:	$\geq 95 \text{ dB}$
1000-2000 MHz:	$\geq 85 \text{ dB}$
2000-3000 MHz:	$\geq 75 \text{ dB}$
3000-4500 MHz:	$\geq 65 \text{ dB}$
Transfer impedance	$\leq 2.5 \text{ m}\Omega/\text{m}$

Attenuation at	Nominal	Attenuation at	Nominal
1 MHz:	0.8 dB/100m	720 MHz:	17.5 dB/100m
3.6 MHz:	1.5 dB/100m	750 MHz:	17.9 dB/100m
10 MHz:	2.4 dB/100m	1000 MHz:	21.0 dB/100m
71.5 MHz:	5.6 dB/100m	1500 MHz:	26.0 dB/100m
135 MHz:	7.4 dB/100m	2250 MHz:	32.0 dB/100m
270 MHz:	10.4 dB/100m	3000 MHz:	38.0 dB/100m
360 MHz:	12.1 dB/100m	4500 MHz:	48.0 dB/100m
540 MHz:	15.0 dB/100m		



Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.