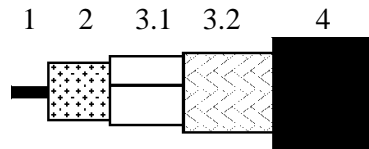
	TECHNICAL DATA SHEET	Code	1694ENH
		version	2
	Precision Video Cable	date	2011-01-06
	COAX RG6/U FRNC HDTV	page	1/2

APPLICATION

Low loss HDTV/SDI Digital coax used in analog and digital video circuits and high quality applications. 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
3.2	Braid	Annealed tinned copper
4	Sheath	LSNH/FRNC according the European Standard HD 624.

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:	5.4 mm
Foil overlap:	≥ 2 mm
Coverage braid:	95 % ± 5 %
4. Sheath:	
Diameter:	6.96 mm ± 0.2 mm
5. Cable:	
Storage/operating temperature:	-30°C to +70°C
Minimum installation temperature:	-5 °C
Resistance to flame propagation:	To meet International Standard IEC 60332-1
Maximum tensile strength of cable:	300 N
Minimum static bend radius:	70 mm

Electrical characteristics

Mean characteristic impedance:	75 ± 3 Ω
Nominal DC resistance inner conductor:	21 Ω/km
Nominal DC resistance outer conductor:	9.2 Ω/km
Capacitance:	53 pF/m ± 2 pF/m
Velocity ratio:	0.82 ± 0.02
Nominal delay:	4.07 ns/m
Insulation resistance:	> 10 ⁴ MΩ.km
Voltage test of dielectric:	2 kVdc
Return loss at 5-1600 MHz:	≥ 23 dB*
1600-3000 MHz:	≥ 21 dB*

Attenuation at	Nominal	Attenuation at	Nominal
1 MHz:	0.8 dB/100m	720 MHz:	16.1 dB/100m
3.6 MHz:	1.5 dB/100m	750 MHz:	16.4 dB/100m
10 MHz:	2.4 dB/100m	1000 MHz:	19.3 dB/100m
71.5 MHz:	5.2 dB/100m	1500 MHz:	24.0 dB/100m
135 MHz:	6.9 dB/100m	2250 MHz:	30.0 dB/100m
270 MHz:	9.7 dB/100m	3000 MHz:	35.0 dB/100m
360 MHz:	11.3 dB/100m	4500 MHz:	43.6 dB/100m
540 MHz:	13.9 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.