

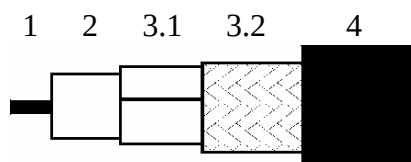
1694ANH FRNC Precision Video Cable

Rev. 2/ 2005-01-05 DRAFT 2/2

Application

Precision video cables are used in critical analog and digital video circuits and high quality applications such as live broadcast (HDTV/SDI) in network studios and pre- or post-production facilities.

Construction & Dimensions



1. Conductor
2. Dielectric
- 3.1 Foil
- 3.2 Braid
4. Jacket

1. **Inner Conductor** Innenleiter - Conduttore Interno – Conducteur – Conductor - Проводник
Material solid, bare copper
Diameter 1.0 mm (18 AWG)
RG Type 6/U
2. **Dielectric** Dielektrikum – Dielettrico – Diélectrique – Dieléctrico - Диэлектрик
Material gas injected HDPE
Diameter over insulation 4.57 mm
3. **Outer Conductor** Aussenleiter - Conduttore Esterno - Conducteur extérieur - Conductor externo - Внешний проводник
Material foil + braid
Diameter screen 5.4 mm

3.1 Shielding foil Duofoil®
Coverage: 100%
3.2 Shielding braid tinned copper braid
Coverage: 95%
4. **Jacket** Aussenmantel – Guaina – Gaine – Revestimiento - Оболочка
Material FRNC (LSNH)
Diameter: 6.9 ± 0.2 mm
Color and text: see table Marking

Requirements and test methods

Electrical characteristics

Mean characteristic impedance: $75 \pm 1.5 \Omega$

Wellenwiderstand - Impedenza Caratteristica Principale - Impédance nominale - Características eléctricas - Электрические характеристики

Nominal capacitance conductor to shield: 53 pF/m

Kapazitaet - Capacità Nominale Conduttore/Schermo - Capacité nominale entre conducteur et blindage - Capacitancia nominal de conductor a blindaje - Номинальная емкость "проводник-экран"

Nominal velocity of propagation: 82%

Ausbreitungsgeschwindigkeit - Velocità Nominale di Propagazione - Vitesse de propagation nominale - Velocidad nominal de propagación - Номинальная скорость распространения сигнала

Nominal Delay: 4.068 ns/m

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Nom. inner conductor DC resistance @ 20 °C: 21 Ω/km

Gleichstromwiderstand Innenleiter - Resistenza Nominale DC del Conduttore Interno - Résistance du conducteur intérieur - Resistencia CC nominal del conductor interno - Номин. сопротивление пост. тока внутреннего проводника при

Nom. outer conductor DC resistance @ 20 °C: 9 Ω/km

Gleichstromwiderstand Aussenleiter - Resistenza Nominale DC del Conduttore Esterno - Résistance du conducteur extérieur - Resistencia CC nominal del conductor externo - Номин. сопротивление пост. тока внутреннего проводника при

Return loss at 5- 850 MHz: ≥ 23 dB
851-3000 MHz: ≥ 21 dB

Rueckflussdaempfung - Perdite Cumulative di Riflessione - Taux de réflexion du signal - Pérdida de retorno - Обратные потери на

Nominal Attenuation: Wellendaempfung - Attenuazione Nominale - Affaiblissement - Atenuación nominal - Номинальное затухание

MHz	dB/100m	MHz	dB/100m
1	0.8	360	11.2
3.58	1.4	540	13.9
5	2.3	720	16.2
71.5	5.2	1500	24.0
135	6.9	2250	29.9
270	9.7	3000	35.0

Flame Resitance: CEI 20-22 III (acc. EN50266-2-4, IEC 60332-3-24 cat.C)
CEI 20-37/2/5/7 (acc. EN50267-2-1, 50268-2, NES 713)



Mechanical and physical characteristics

Temperature range - storage/operation -30°C to +70°C
Temperature range - installation -5 °C to + 70°C

Minimum bending radius 10x Ø cable

Biegeradius - Raggio Minimo di Curvatura - Rayon de courbure minimum - Radio de curvatura mínimo - Минимальный радиус изгиба

Nominal cable weight 59.6 kg/km

Gewicht - Peso Nominale del Cavo - Poids - Peso nominal del cable - Номинальный вес кабеля

Ordering information

MARKING

Jacket colour	Text
black	BELDEN 1694ANH FRNC CEI 20-22III CEI 20-37/2/5/7

Meter marking: yes, MM-YY: month and year of manufacturing

PACKAGING (PUT-UP, +/-2%)

305m reels

Each reel is labelled with the following data: Belden Logo, Belden code number, item description, length on the reel and date of manufacturing.