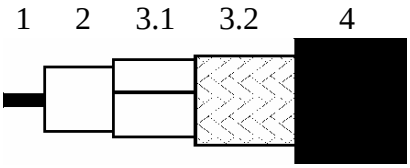
1505ANH FRNC
Precision Video Cable

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. **Foil**
3. **Braid**
4. **Jacket**

1. **Inner Conductor** Innenleiter - Conduttore Interno – Conducteur – Conductor - Проводник

Material	solid, bare copper
Diameter	0.8 mm (20 AWG)
RG Type	59/U

2. **Dielectric** Dielektrikum – Dielettrico – Diélectrique – Dieléctrico - Диэлектрик

Material	gas injected HDPE
Diameter over insulation	3.68 mm

3. **Outer Conductor** Aussenleiter - Conduttore Esterno - Conducteur extérieur - Conductor externo - Внешний проводник

Material	foil + braid
Diameter screen	4.5 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:	5.92 ± 0.2 mm
Color and text:	see table Marking

Requirements and test methods

Electrical characteristics

Mean characteristic impedance: 75 ± 1.5 Ω

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: 83%

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

Nominal Delay: 4.003 ns/m

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Nom. inner conductor DC resistance @ 20 ˚C: 32 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: 12 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	0.9	360	14.4
3.58	1.9	540	18.0
5	2.0	720	20.1
71.5	6.8	1500	30.5
135	8.8	2250	38.0
270	12.4	3000	43.9

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 46.1 kg/km
Gewicht - Peso Nominale del Cavo – Poids - Peso nominal del cable - Номинальный вес кабеля

Ordering information

MARKING

Jacket colour	Text
black	BELDEN 1505ANH 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.