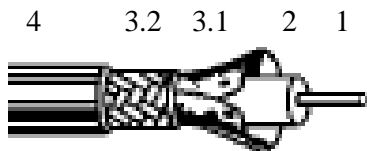


## Application

Precision video cables are used in critical analog and digital video circuits and high quality applications such as live broadcast 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 0.64 mm
2. **Dielectric** Dielektrikum - Dielettrico - Diélectrique - Dieléctrico - Диэлектрик  
Material Gas injected Foam HDPE  
Diameter over insulation 2.80 mm
3. **Outer Conductor** Aussenleiter - Conduttore Esterno - Conducteur extérieur - Conductor externo - Внешний проводник  
Material foil + braid  
Diameter screen 3.4 mm
  - 3.1 Shielding foil Duofoil®  
Coverage: 100%
  - 3.2 Shielding braid tinned copper braid  
Coverage 90% ± 5%
4. **Jacket** Aussenmantel - Guaina - Gaine - Revestimiento - Оболочка  
Material FRNC/LSNH, UV-resistant, IEC 332-1  
Diameter: 4.45 ± 0.2 mm  
Color and text: see table Marking

## Requirements and test methods

### Electrical characteristics

Mean characteristic impedance: 75 ± 3 Ω

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

Nominal capacitance conductor to shield: 53.0 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: 84%

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

**Max. DC loop resistance:** 69.0  $\Omega$ /km  
Schleifenwiderstand – Resistenza continua di Loop – Resistenza (DC) di Loop - Resistencia de bucle CC - Сопротивление петли пост. Тока

**Max. inner conductor DC resistance @ 20 °C:** 52.0  $\Omega$ /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

**Max. outer conductor DC resistance @ 20 °C:** 17.0  $\Omega$ /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** 5-1600 MHz:  $\geq 23$  dB  
1600-4500 MHz:  $\geq 21$  dB

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

**Screening attenuation at**  
30-3000 MHz:  $\geq 85$  dB  
3000-4500 MHz:  $\geq 80$  dB

Schirmungsmass – Attenuazione dello Schermo- L'affaiblissement lié au blindage - Eficacia de blindaje - Эффективность экранирования

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

1 MHz:	1.7 dB/100m	180 MHz:	13.2 dB/100m
3.6 MHz:	2.5 dB/100m	270 MHz:	16.1 dB/100m
5 MHz:	2.8 dB/100m	360 MHz:	18.6 dB/100m
6 MHz:	3.0 dB/100m	540 MHz:	22.8 dB/100m
7 MHz:	3.2 dB/100m	720 MHz:	26.4 dB/100m
10 MHz:	3.7 dB/100m	750 MHz:	26.9 dB/100m
12 MHz:	4.0 dB/100m	1000 MHz:	31.3 dB/100m
25 MHz:	5.4 dB/100m	1500 MHz:	38.7 dB/100m
67.5 MHz:	8.3 dB/100m	2000 MHz:	45.0 dB/100m
71.5 MHz:	8.6 dB/100m	2250 MHz:	48.0 dB/100m
88.5 MHz:	9.5 dB/100m	2500 MHz:	50.8 dB/100m
100 MHz:	10 dB/100m	3000 MHz:	56.1 dB/100m
135 MHz:	11.5 dB/100m	4000 MHz:	65.7 dB/100m
143 MHz:	11.9 dB/100m	4500 MHz:	70.2 dB/100m

### Mechanical and physical characteristics

Temperature range - storage/operation -15°C to +75°C

Temperature range - installation -5 °C to + 75°C

Minimum bending radius 10x  $\emptyset$  cable

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

Nominal cable weight 27.9 kg/km

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

### Ordering information

#### MARKING

Jacket colour	Text
Green	VIDEO BRILLIANCE (R) BY BELDEN 1855ENH - 0.6/2.8 DUOFOIL(R) + BRAID - FRNC SDV - LFH

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

#### PACKAGING (PUT-UP)

100m and 500m

Each reel is labelled with the following data:

Belden Logo, Belden code number, item description, length on the reel and date of manufacturing.