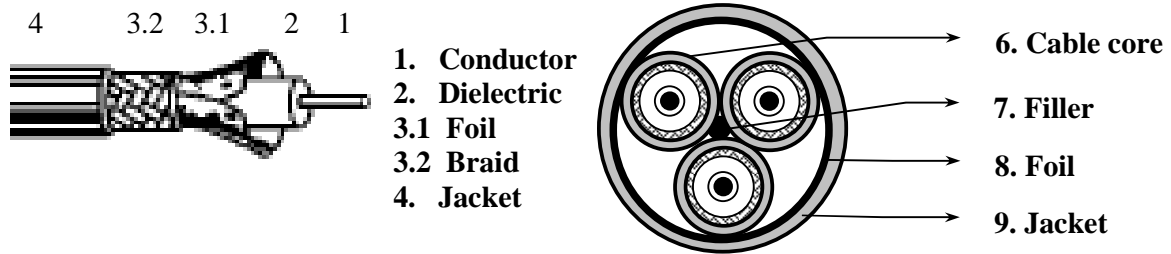


Application

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. 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 |
| Diameter: | 4.45 ± 0.2 mm |
| 5. Cable Core | |
| Color | 3 coax bundled around a filler.
red-green-blue |
| 6. Filler | |
| 7. Foil | |
| 8. Overall Jacket | Aussenmantel – Guaina – Gaine – Revestimiento - Оболочка |
| Material | FRNC/LSNH |
| Nominal diameter | 12.1 mm |

Requirements and test methods

Electrical characteristics

Mean characteristic impedance: $75 \pm 3 \Omega$

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: $72.0 \Omega/\text{km}$

Schleifenwiderstand - Resistenza continua di Loop - Resistenza (DC) di Loop - Resistencia de bucle CC - Сопротивление петли пост. Тока

Max. inner conductor DC resistance @ 20°C : $55.0 \Omega/\text{km}$

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 : $17.0 \Omega/\text{km}$

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: $\geq 26 \text{ dB}^*$

1600-4500 MHz: $\geq 24 \text{ dB}^*$

* max. 3 peak values 3 dB lower than specified

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

Screening attenuation:

30-1000 MHz: $\geq 85 \text{ dB}$

1000-2000 MHz: $\geq 85 \text{ dB}$

2000-3000 MHz: $\geq 85 \text{ dB}$

3000-4500 MHz: $\geq 80 \text{ dB}$

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

Product Datasheet
1855EN3
0.6/2.8 FRNC
3 x1855ENH Digital Video Coax

Rev. 2/ 2010-09-28 3/3

Mechanical and physical characteristics

Temperature range - storage/operation -30°C to +75°C
Temperature range - installation -5°C to +50°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 159 kg/km
Gewicht - Peso Nominale del Cavo – Poids - Peso nominal del cable - Номинальный вес кабеля

Ordering information

MARKING

Jacket colour	Text
Green	BELDEN-NL VIDEOFLEX(R) 1855EN3 HD/SD SNAKE CABLE 3-COAX 0.6/2.8 FRNC/LSNH IEC60332-1 MMY

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

PACKAGING (PUT-UP)

250m 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.