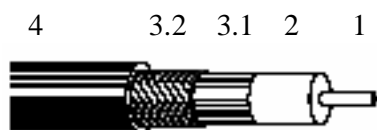


## Application

Low loss coaxial cable offer an optimum attenuation performance in cable broadband communication networks where longer runs are required. Designed according the European Standard EN 50117-1 and EN 50117-2-3, EN 50083-2/A1

**Screening class A++**

## 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 3.38 mm
2. **Dielectric** Dielektrikum - Dielettrico - Diélectrique - Dieléctrico - Диэлектрик  
Material Gas injected PE  
Diameter over insulation 14.90 mm
3. **Outer Conductor** Aussenleiter - Conduttore Esterno - Conducteur extérieur - Conductor externo - Внешний проводник  
Material foil + braid  
Diameter screen 15.8 mm
  - 3.1 Shielding foil cu foil  
Coverage: 100%
  - 3.2 Shielding braid bare copper braid  
Coverage 60% ± 5%
4. **Jacket** Aussenmantel - Guaina - Gaine - Revestimiento - Оболочка  
Material PE  
Diameter: 19.80 ± 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: 54 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: 4.5 Ω/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: 1.9 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

Max. outer conductor DC resistance @ 20 °C: 2.6 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- 470 MHz: ≥ 26 dB\*  
470-1000 MHz: ≥ 23 dB\*  
1000-2150 MHz: ≥ 18 dB\*

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

Screening attenuation at 30-1000 MHz: ≥ 100 dB

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

Transfer impedance at 5- 30 MHz: ≤ 0.8 mΩ/m

Kopplungswiderstand – Impedenza di Trasferimento - Le transfert d'impédance - Impedancia de transferencia – Передаточный импеданс

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

MHz	dB/100m	MHz	dB/100m
5	0.4	862	5.9
50	1.3	1000	6.5
100	1.8	1350	7.7
230	2.9	1750	9.0
400	3.9	2150	10.2
800	5.7	2400	10.9

### Mechanical and physical characteristics

Temperature range - storage/operation -40°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 322 kg/km

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

### Ordering information

#### MARKING

Jacket colour	Text
Black, Green	BELDEN-NL CX3C0 3.38/14.90 FB20 PE 5.7 EN50117-2-3 Class A++

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

#### PACKAGING (PUT-UP)

700m and 1050m

Each reel is labelled with the following data:

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

\* max. 3 peak values 4 dB lower than specified