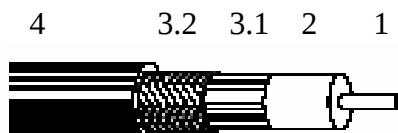


## Application

Coaxial cable used in cable broadband communication networks designed according the European Standard EN 50117-1 and EN 50117-2-1, -2, -4, -5, 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 1.55 mm
2. **Dielectric** Dielektrikum - Dielettrico - Diélectrique - Dieléctrico - Диэлектрик  
Material Gas injected PE  
Diameter over insulation 7.25 mm
3. **Outer Conductor** Aussenleiter - Conduttore Esterno - Conducteur extérieur - Conductor externo - Внешний проводник  
Material foil + braid  
Diameter screen 7.9 mm  
  
3.1 Shielding foil Cu-foil  
Coverage: 100%  
3.2 Shielding braid bare copper braid  
Coverage: 50% (+/- 5%)
4. **Jacket** Aussenmantel - Guaina - Gaine - Revestimiento - Оболочка  
Material PE  
Diameter: 10.10 ± 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: 55 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: 81%

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

Max. DC loop resistance: 20 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: 9.4 Ω/km

**Product Datasheet**  
**PRG11C0**  
**CATV Distribution Cable**

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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: 10.6 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* |
| 1000-2000 MHz: | ≥ 18 dB* |
| 2000-3000 MHz: | ≥ 16 dB* |

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

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

Screening attenuation at 30-1000 MHz: ≥ 85 dB

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

Transfer impedance at 5- 30 MHz: ≤ 5 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    | 0.9     | 1350 | 16.1    |
| 50   | 2.8     | 1750 | 18.7    |
| 230  | 6.0     | 2150 | 21.1    |
| 470  | 8.8     | 2400 | 22.5    |
| 862  | 12.2    | 3000 | 25.7    |
| 1000 | 13.6    |      |         |



**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 68 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 PRG11C0 1.55/7.25 PE 12 EN50117-2-5 Class A |

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

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

250m, 500m and 1.000m

Each reel is labelled with the following data:

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