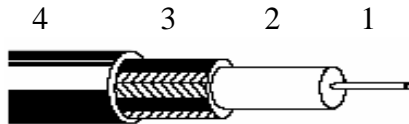


## Application

Headend

## Construction & Dimensions



1. **Conductor**
2. **Dielectric**
3. **Braid**
4. **Jacket**

1. **Inner Conductor** Innenleiter - Conduttore Interno – Conducteur – Conductor - Проводник  
Material solid, copper covered steel  
Diameter 0.58 mm
2. **Dielectric** Dielektrikum – Dielettrico – Diélectrique – Dieléctrico - Диэлектрик  
Material PE  
Diameter over insulation 3.70 mm
3. **Outer Conductor** Aussenleiter - Conduttore Esterno - Conducteur extérieur - Conductor externo - Внешний проводник  
Material braid  
Diameter screen 4.3 mm  
  
Shielding braid bare copper braid  
Coverage 95% ± 5%
4. **Jacket** Aussenmantel – Guaina – Gaine – Revestimiento - Оболочка  
Material PVC  
Diameter: 6.15 ± 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: 67 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: 66%

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

Max. DC loop resistance: 94.0 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: 79.0 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: 15.0 Ω/km

**Product Datasheet**  
**MRG5900**  
**CATV Headend Cable**

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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:	≥ 20 dB*
	470-1000 MHz:	≥ 18 dB*
	1000-2000 MHz:	≥ 16 dB*
	2000-3000 MHz:	≥ 15 dB*

Rueckflussdaempfung - Perdite Cumulative di Riflessione - Taux de réflexion du signal - Pérdida de retorno - Обратные потери на  
**Screening attenuation at 30-1000 MHz:** ≥ 65 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

MHz	dB/100m	MHz	dB/100m
5	2.9	862	39.2
50	8.0	1000	42.9
100	11.6	1350	50.0
230	17.2	1750	57.0
400	25.0	2150	63.0
800	37.8		



**Mechanical and physical characteristics**

Temperature range - storage/operation	-15°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 kg/km
Gewicht - Peso Nominale del Cavo – Poids - Peso nominal del cable - Номинальный вес кабеля	

**Ordering information**

**MARKING**

Jacket colour	Text
Black	BELDEN-NL MRG5900 0.58/3.70 CCS PVC 37 EN50117-2-4

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

**PACKAGING (PUT-UP)**

100m, B100, B200, 500m and 1000m

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