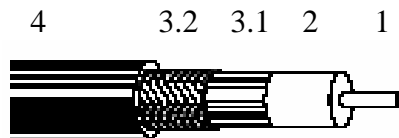


Application

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 C

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 | 0.8 mm |
| 2. Dielectric | Dielektrikum - Dielettrico - Diélectrique - Dieléctrico - Диэлектрик |
| Material | Gas injected PE |
| Diameter over insulation | 3.50 mm |
| 3. Outer Conductor | Aussenleiter - Conduttore Esterno - Conducteur extérieur - Conductor externo - Внешний проводник |
| Material | foil + braid |
| Diameter screen | 4.1 mm |
| 3.1 Shielding foil | Duofoil® |
| Coverage: | 100% |
| 3.2 Shielding braid | tinned copper braid |
| Coverage | 40% (+/- 5%) |
| 4. Jacket | Aussenmantel - Guaina - Gaine - Revestimiento - Оболочка |
| Material | PVC |
| Diameter: | 5.00 ± 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 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: 75 Ω/km

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

Max. inner conductor DC resistance @ 20 °C: 35 Ω/km

Product Datasheet
H121A00
CATV Drop Cable

Rev. 2/ 2005-11-30 2/2

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: 40 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:	≥ 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
* max. 3 peak values 4 dB lower than specified

Screening attenuation at 30-1000 MHz: ≥ 75 dB

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

Transfer impedance at 5- 30 MHz: ≤ 33.0 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	2.3	862	23.6
50	5.9	1000	25.6
100	8.1	1350	30.0
230	12.1	1750	34.5
400	15.9	2150	38.6
800	22.7	2400	41.0



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 29 kg/km

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

Ordering information

MARKING

Jacket colour	Text
Black, White	BELDEN-NL H121A00 0.80/3.50 PVC 22 EN50117-2-4 Class C

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

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

B100, 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.