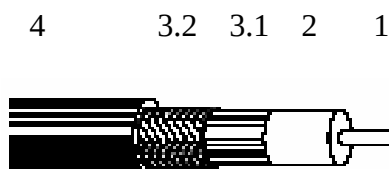


Application

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

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 | 1.0 mm |
| 2. Dielectric | Dielektrikum - Dielettrico - Diélectrique - Dieléctrico - Диэлектрик |
| Material | Gas injected PE |
| Diameter over insulation | 4.80 mm |
| 3. Outer Conductor | Aussenleiter - Conduttore Esterno - Conducteur extérieur - Conductor externo - Внешний проводник |
| Material | foil + braid |
| Diameter screen | 5.34 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: | 6.80 ± 0.2 mm |
| Color and text: | see table Marking |

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: 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: 50 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: 23 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

Product Datasheet
H125A00
CATV Drop Cable

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Max. outer conductor DC resistance @ 20 °C: 27 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*

Rueckflusssdaempfung - 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: ≤ 40.0 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	1.8	862	19.3
50	4.7	1000	20.9
100	6.5	1350	24.6
230	9.8	1750	28.4
400	12.9	2150	31.9
800	18.6	2400	34.0

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 44 kg/km

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

Ordering information

MARKING

Jacket colour	Text
Black, Brown Grey, White	BELDEN Cable-NL H125A00 1.0/4.80 PVC 17 EN50117-2-4 Class B

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

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

B100m, U250m and 500m

Each reel is labelled with the following data:

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