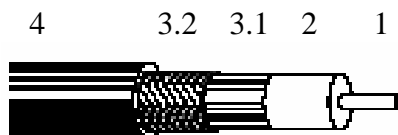


Application

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	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	5.4 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	PE
Diameter:	6.80 ± 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:	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
---	---------

Product Datasheet
H125A01
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: 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: ≥ 23 dB*

470-1000 MHz: ≥ 20 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: ≥ 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 -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 37 kg/km

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

Ordering information

MARKING

Jacket colour	Text
Black	BELDEN-NL H125A01 1.0/4.80 PE 18 EN50117-2-5 Class C

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

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

B100m, 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.