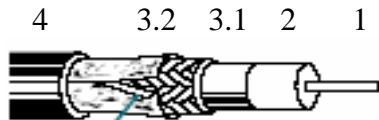


Application

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



Shorting Fold

- 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: 4.57 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: DuobondPlus®
Coverage: 100%
 - 3.2 Shielding braid: tinned copper braid
Coverage: 50% (+/- 5%)
4. **Jacket** Aussenmantel - Guaina - Gaine - Revestimiento - Оболочка
Material: FRNC/LSNH, UV-resistant, IEC 332-3
Diameter: 6.90 ± 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: 54 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: 82%

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

Max. DC loop resistance: $37 \Omega/\text{km}$

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

Max. inner conductor DC resistance @ 20 °C: $23 \Omega/\text{km}$

Product Datasheet
H126D03
CATV Drop Cable
H126 DuobondPlus® (BTQ)

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: 14 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: ≥ 100 dB

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

Transfer impedance at 5- 30 MHz: ≤ 4.5 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	1.8	862	19.5
50	4.7	1000	21.1
100	6.5	1350	24.9
230	9.8	1750	28.8
400	13.0	2150	32.3
800	18.7	2400	34.4
		3000	39.2



Mechanical and physical characteristics

Temperature range - storage/operation -25°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 49 kg/km

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

Ordering information

MARKING

Jacket colour	Text
White	BELDEN-NL H126D03 1.0/4.57 DuobondPlus BTQ LSNH/FRNC 18 Class A

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:

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

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