

Product Datasheet

P/N 40007
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Rev. 1/ 2003-03-19

R.F. Transmission Cable 2.6/8.0 PE



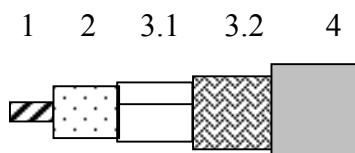
Application

Coaxial cable used with radio antenna's and in mobile communication networks.

Key Features

- Flexible thin 50 Ohm coaxial cable
- Designed according International Standard IEC 1196
- Designed according the European Standard EN50117-1 and EN 50290-1-1 operating at frequencies between 5 Mhz and 2150 MHz
- Test methods in accordance with European standard EN 50289

Construction & Dimensions



- 1. Conductor**
- 2. Dielectric**
- 3. Outer Conductor**
- 4. Jacket**

- 1. Conductor** Innenleiter - Conduttore Interno - Conducteur
Material solid soft annealed copper
Diameter 2.62 mm
- 2. Dielectric** Dielektrikum – Dielettrico - Diélectrique
Material gas injected PE
Diameter over insulation 7.15 mm
- 3. Outer Conductor** Aussenleiter - Conduttore Esterno - Conducteur extérieur
Material foil + braid
Diameter screen 8.0 mm
 - 3.1 Shielding foil** AL-PET-AL
Coverage: 100%
 - 3.2 Shielding braid** tinned copper braid
Coverage 80%
- 4. Jacket** Aussenmantel – Guaina - Gaine
Material PE, according the European Standard HD 624
Diameter: 10.3 mm
Color and text: see table Marking

Requirements and test methods

Electrical characteristics

Mean characteristic impedance:	50 ± 2 Ω
Wellenwiderstand - Impedenza Caratteristica Principale - Impédance nominale	
Nominal capacitance conductor to shield:	80 pF/m
Kapazität - Capacità Nominale Conduttore/Schermo - Capacité nominale entre conducteur et blindage	
Nominal velocity of propagation:	83%
Ausbreitungsgeschwindigkeit - Velocità Nominale di Propagazione - Vitesse de propagation nominale	

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DC loop resistance: $\leq 8 \Omega/\text{km}$

Schleifenwiderstand – Resistenza continua di Loop - french

Nom. inner conductor DC resistance @ 20 °C: $\leq 3.5 \Omega/\text{km}$

Gleichstromwiderstand Innenleiter - Resistenza Nominale DC del Conduttore Interno - Résistance du conducteur intérieur

Nom. outer conductor DC resistance @ 20 °C: $\leq 4.5 \Omega/\text{km}$

Gleichstromwiderstand Aussenleiter - Resistenza Nominale DC del Conduttore Esterno - Résistance du conducteur extérieur

Return loss at 5- 4000 MHz: $\geq 16 \text{ dB}^*$

Rueckflusssdaempfung - Perdite Cumulative di Riflessione - Taux de réflexion du signal

Screening efficiency 100-1000 MHz: $\geq 90 \text{ dB}$

Schirmungsmass - Efficienza di Schermatura - Efficacité de blindage

Nominal Attenuation: Wellendaempfung - Attenuazione Nominale - Affaiblissement

MHz	dB/100m	MHz	dB/100m
1000	13.4	2750	23.8
2000	19.7	3000	25.2
2500	22.6	4000	29.7

Mechanical and physical characteristics

Temperature range - storage/operation -40°C to +70°C

Temperature range - installation -5 °C to + 70°C

Minimum bending radius 50 mm

Biegeradius - Raggio Minimo di Curvatura - Rayon de courbure minimum

Nominal cable weight 15.5 kg/km

Gewicht - Peso Nominale del Cavo - Poids

Ordering information

MARKING

Jacket colour	Text
Black	BELDEN VENLO HOLLAND H1000B DVB-RCS 50 OHM CABLE

Meter marking: yes

YYYY: year of manufacturing

PACKAGING (PUT-UP)

500m non returnable reels

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