

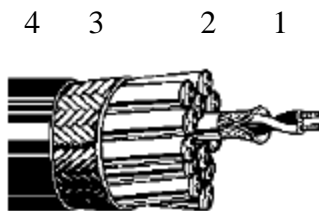
**Product Datasheet**  
**BE46306**  
**Analog Multi-Pair Snake Cable - PVC**  
**24-Pair – 26AWG (0.14mm<sup>2</sup>)**

Rev. 2/ 2005-05-20 2/2

**Application**

Belden 46-analog-series is a flexible audio snake cable with an overall braid shield. This makes the cable suitable for mobile applications. Jacketed pairs are individually numbered for easy identification.

**Construction & Dimensions**



1. **Conductor**
2. **Pair**
3. **Outer Shield**
4. **Jacket**

1. **Inner Conductor** Innenleiter - Conduttore Interno – Conducteur – Conductor - Проводник
 

|          |                                       |
|----------|---------------------------------------|
| Material | Stranded (18 x 0.10mm), tinned copper |
| Diameter | 0.14 mm <sup>2</sup>                  |

|   |                        |
|---|------------------------|
| <b>Insulation</b> Isolation – Isolant - Isolamento – aislamiento - Изоляция |                        |
| Material  | PE                     |
| Diameter over insulation  | 0.48 mm                |
| Color of insulation   | White and red, twisted |
  
2. **Pair** Paar – Paire - Pare – Coppia - par - пары
 

|                    |                   |
|--------------------|-------------------|
| Number of pairs    | 24                |
| Diameter conductor | 1.05 mm           |
| Diameter pair      | 3.10 mm ± 0.06 mm |

|                     |   |
|---------------------|---|
| 2.1 Separating foil | Polyester                               |
| 2.2 Inner shield    | Spiral Serve, tinned copper braid       |
| Coverage            | > 90%                                   |
| 2.3 Inner jacket    | PVC, Grey                               |
| Marking             | each pair is numbered (app. 50 times/m) |
  
3. **Outer shield** Gesamtschirm – Tresse générale - Schermatura esterna - blindaje exterior - внешний экран
 

|              |                     |
|--------------|---------------------|
| Outer shield | Tinned copper braid |
| Coverage     | > 90%               |
  
4. **Jacket** Aussenmantel – Guaina – Gaine – Revestimiento - Оболочка
 

|                 |                   |
|-----------------|-------------------|
| Material        | PVC               |
| Diameter:       | 22.4 ± 0.2 mm     |
| Color and text: | see table Marking |

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**Requirements and test methods**

**Electrical characteristics**

Mean characteristic impedance 1-6 MHz: 95 Ω ± 20 Ω

Wellenwiderstand - Impedenza Caratteristica Principale - Impédance nominale - Características eléctricas - Электрические характеристики

Nominal capacitance conductor to conductor: 60 pF/m

Kapazitaet (Ader/Ader) - Capacità Nominale Conduttore/Schermo - Capacité nominale entre conducteur et blindage - Capacitancia nominal de conductor a blindaje - Номинальная емкость "проводник-проводник"

Nominal capacitance conductor to shield: 110 pF/m

Kapazitaet (Ader/Schirm) - Capacità Nominale Conduttore/Schermo - Capacité nominale entre conducteur et blindage - Capacitancia nominal de conductor a blindaje - Номинальная емкость "проводник-экран"

Nominal velocity of propagation: 66%

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

Max. inner conductor DC resistance @ 20 °C: < 260 Ω/km

Gleichstromwiderstand Innenleiter - Resistenza Nominale DC del Conduttore Interno - Résistance du conducteur intérieur - Resistencia CC nominal del conductor interno - Номин. сопротивление пост. току внутреннего проводника

**Mechanical and physical characteristics**

Temperature range - storage/operation -15°C to +75°C

Temperature range - installation -5 °C to + 75°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 624 kg/km

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



**Ordering information**

**MARKING**

|               |  |
|---------------|--|
| Jacket colour | Text   |
| Black         | BELDEN BE46306 MULTI-PAIR AUDIO 24 PAIR SHIELDED |

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

**PACKAGING (PUT-UP, +/-10%)**

250m

Each reel is labelled with the following data:

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