

**Product Datasheet**  
**BE46349**  
**Microphone Cable**  
**1-Pair – 24AWG (0.22mm<sup>2</sup>)**

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**Application**

Balanced microphone (MIC) cable is used for connecting low level microphones. Key properties of microphone cable are ruggedness, flexibility, flex life and interference immunity.

**Construction & Dimensions**

4 3 2 1



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

1. **Inner Conductor** Innenleiter - Conduttore Interno – Conducteur – Conductor - Проводник  
 Material Stranded (32 x 0.10mm), bare copper  
 Diameter 0.25 mm<sup>2</sup> (0.6 mm)
  
- Insulation** Isolation – Isolant - Isolamento – aislamiento - Изоляция  
 Material PE  
 Diameter over insulation 1.45 mm  
 Color of insulation Red and Blue
  
2. **Outer shield** Gesamtschirm – Tresse générale - Schermatura esterna - blindaje exterior - внешний экран  
 Outer shield Spiral Serve, bare copper braid  
 Coverage > 90%
  
4. **Jacket** Aussenmantel – Guaina – Gaine – Revestimiento - Оболочка  
 Material PVC  
 Diameter: 6.1 ± 0.2 mm  
 Color and text: see table Marking

**Requirements and test methods**

**Electrical characteristics**

Mean characteristic impedance: 47 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: 60%

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

**Max. inner conductor DC resistance @ 20 °C: 78 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 +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 42 kg/km

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



**Ordering information**

**MARKING**

|   |                               |
|---|-------------------------------|
| Jacket colour                                   | Text                          |
| Red, Yellow, Green, Blue, Grey, White and Black | BELDEN 46349 MICROPHONE CABLE |

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

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

100m, 500m and 1000m

Each reel is labelled with the following data:

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