

Product Datasheet
BE46938
AES/EBU Multi-Pair Snake Cable - FRNC
16-Pair – 26AWG (0.14mm²)

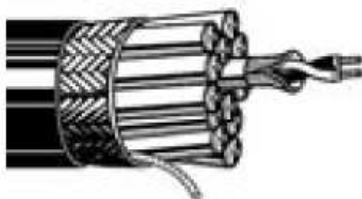
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Application

Professional broadcasting systems for the transmission of analogue and digital audio signals. Designed to meet the requirements of the AES/EBU specification. The cable is very flexible and has a small outer diameter for use in applications where space is limited.

Construction & Dimensions

4 3 2 1



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 mm² (0.5 mm)

Insulation Isolation – Isolant - Isolamento – aislamiento - Изоляция
Material PE
Diameter over insulation 0.48 mm
Color of insulation White and Blue, twisted

2. **Pair** Paar – Paire - Pare – Coppia - par - пары
Number of pairs 2
Diameter conductor 1.13 mm
Diameter pair 2.90 mm $\pm$ 0.06 mm

2.1 Separating foil Polyester
2.2 Inner shield Spiral Serve, tinned copper braid
Coverage > 90%
2.3 Inner jacket FRNC, Grey
Marking each pair is numbered (app. 50 times/m)

3. **Outer shield** Gesamtschirm – Tresse générale - Schermatura esterna - blindaje exterior - внешний экран
3.1 Separating foil Non woven
3.2 Outer shield Tinned copper braid
Coverage > 90%

Drainwire
Material Stranded (18 x 0.10mm), tinned copper
Diameter 0.14 mm² (0.5 mm)

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4. **Jacket** Aussenmantel – Guaina – Gaine – Revestimiento – Оболочка
Material FRNC (according IEC 332-3C)
Diameter: 16.3 ± 0.2 mm
Color and text: see table Marking

Requirements and test methods

Electrical characteristics

Mean characteristic impedance 1-6 MHz: 110 Ω ± 10%

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

Nominal capacitance conductor to conductor: 57 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 velocity of propagation: 60%

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

Max. inner conductor DC resistance @ 20 °C: 135 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

Nominal Attenuation: Wellendaempfung - Attenuazione Nominale – Affaiblissement - Atenuación nominal - Номинальное затухание

MHz	dB/100m	MHz	dB/100m
0.1	0.9	4.0	6.3
1.0	2.2	10.0	12.0



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 356 kg/km

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

Ordering information

MARKING

Jacket colour	Text
Grey	BELDEN 46938 16-PAIR FRNC

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

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

500m

Each reel is labelled with the following data:

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