

Product: [1509ECH](#) 



AUDIO ANALOG 2 PAIR 24AWG, BELDFOIL, LSZH-C

## Product Description

ANALOG AUDIO 2 PAIR 24AWG/0.22mm<sup>2</sup>, BELDFOIL, LSZH-C

## Technical Specifications

### Product Overview

Suitable Applications:	2-pair 24AWG halogen-free multi-core cable; For analogue audio
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### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Construction n x D
24	7x32	TC - Tinned Copper	7x0.20 mm

Conductor Count:	4
Total Number of Pairs:	2

#### Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Insulation	PE - Polyethylene	1.02 mm	0.05 mm

#### Color Chart

Number	Color
Pair 1 t/m 2	Red & Black

#### Inner Shield

Type	Material	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D	Drainwire Position
Tape	Bi-Laminate (Alum+Poly)	100%	Stranded tinned copper	24	7x0.20 mm	Under shielding foil

Table Notes:	Aluminum inside
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#### Inner Jacket

Material	Nominal Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	2.86 mm

Table Notes:	Jacket single element, elements are numbered 1 - 2
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#### Outer Shield

Type	Material	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	100%	TC - Tinned Copper	7xAWG26	7x0.40 mm

#### Outer Jacket

Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	7.65 mm	0.40 mm	0.90 mm

## Construction and Dimensions

### Cabling

Description
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2 fillers + 2 pairs

Min Elongation at Breakof Jacket:	125 %
Min Tensile Strength of Jacket:	9 MPa

## Electrical Characteristics

### Conductor DCR

Max. Conductor DCR	Nominal Inner Shield DCR
88.5 Ohm/km	52 Ohm/km

### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
92 pF/m	180 pF/m

### Inductance

Nominal Inductance
0.75 $\mu$ H/m

## Temperature Range

Other Temp Range:	-30 to +70 °C
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## Mechanical Characteristics

Max. Pull Tension:	246 N
Min. Bend Radius During Installation:	76.5 mm
Min. Bend Radius During Operation:	115 mm

## Standards

CPR Euroclass:	Dca-s2,d1,a1
CENELEC Compliance:	EN 50290-2-20

## Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Dca
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## Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2, IEC 60332-3-24
IEC 60754-1 - Halogen Amount:	Zero
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	2.5 $\mu$ S/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 - Smoke Density Min. Transmittance:	60%

## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	EAN
1509ECH.01500	Black	Reel	500 m	8719605001641
1509ECH.51500	Black	Reel	500 m	8719605001658
1509ECH.011000	Black	Reel	1,000 m	8719605001634

## History

Update and Revision:	Revision Number: 0.182 Revision Date: 12-19-2022
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