



**Product:** [8778LS](#)

Audio, Control & Instrument, 6PR#22 Str TC, PO ins, IF, LSNH Jkt, 300V

### Product Description

Audio, Control & Instrument, 6 Pair AWG 22 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Individually Foiled + No Overall shielding, LSZH / FRNC jacket , 300V

### Technical Specifications

#### Product Overview

Suitable Applications:	Instrumentation and computer cable; For data transmission applications
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#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	No. of Pairs
22	7x30	TC - Tinned Copper	6

Conductor Count:	12
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##### Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
PP - Polypropylene	1.27 mm	0.05 mm

##### Color Chart

Number	Color
Pair 1	Black & Red
Pair 2	Black & White
Pair 3	Black & Green
Pair 4	Black & Blue
Pair 5	Black & Yellow
Pair 6	Black & Brown

Table Notes:	Shielded pairs
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##### Color Chart 2

Number	Color
Pair 1	Red
Pair 2	Green
Pair 3	Blue
Pair 4	Blue
Pair 5	Blue
Pair 6	Blue

##### Inner Shield

Type	Layer	Material	Material Trade Name	Thickness of Foil	Drainwire Material	Drainwire AWG
Tape	1	Bi-Laminate (Alum+Poly)	Beldfoil® (Z-Fold®)	9 / 12 µm	TC - Tinned Copper	AWG22/7
Tape	2	Polyester		12 µm		

##### Inner Jacket

Material	Color	Nominal Diameter	Nominal Wall Thickness
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LSZH - Low Smoke Zero Halogen (Flame Retardant)	Chrome (RAL 7037)	9.5 mm	0.89 mm
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#### Outer Shield

Material
Bi-Laminate (Alum+Poly)

#### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	13.9 mm	1.35 mm

## Construction and Dimensions

#### Cabling

Description	Filler
1 center filler and 6 pairs twisted to cable core covered with a polypropylene foil	Foamed flame retardant Polypropylene (2.50 mm)

#### Armor

Type of Armor	Material	Thickness of Armoring Wires	Coverage Percentage
Steel Wire Armoring	Galvanized steel wire	1.25 mm	Min. 95%

## Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Inner Shield DCR
49.2 Ohm/km	34.8 Ohm/km

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
98.4 pF/m	180.4 pF/m

#### Inductance

Nominal Pair Inductance
0.59 $\mu$ H/m

#### Impedance

Nominal Characteristic Impedance
50 Ohm

#### Current

Element	Max. Recommended Current [A]
Conductor(s)	2 A

#### Voltage

Voltage Rating [V]
300 V

## Temperature Range

Installation Temperature Range:	-15°C To +80°C
Storage Temperature Range:	-45°C To +80°C
Operating Temp Range (Flexible Install):	-15°C To +80°C
Operating Temp Range (Fixed Install):	-45°C To +80°C

## Mechanical Characteristics

Oil Resistance:	IEC 60811-404
Min. Bend Radius During Installation:	208.5 mm

## Standards

CENELEC Compliance:	EN 50290-2-20
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## Applicable Environmental and Other Programs

Environmental Space:	Indoor, Indoor/Outdoor, Outdoor, Indoor/Outdoor - Euroclass Eca
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## Suitability

Suitability - Sunlight Resistance:	Yes
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## Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-3-24
IEC 60754-1 - Halogen Amount:	Zero
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/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
8778LS.00500	Black	Reel	500 m	8719605019684
8778LS.001000	Black	Reel	1,000 m	8719605019677

## History

Update and Revision:	Revision Number: 0.238 Revision Date: 02-03-2025
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