



**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**

Environmental Space:	Indoor
Suitable Applications:	Instrumentation and computer cable; For data transmission applications

**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	No. of Conductors	No. of Pairs
22	7x30	TC - Tinned Copper	12	6

Conductor Count:	12
Total Number of Pairs:	6

**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

Color Chart1, Table Note:	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 Material**

Type	Layer	Material	Material Trade Name	Thickness of Foil	Drainwire Material	Drainwire AWG
Tape	1	Aluminum / Polyester	Beldfoil® (Z-Fold®)	9 / 12 µm	Tinned copper	AWG22/7
Foil	2	Polyester		12 µm		

**Inner Jacket Material**

Material	Color	Nominal Diameter	Nominal Wall Thickness
FRNC / LSZH	Chrome (RAL 7037)	9.5 mm	0.89 mm

#### Outer Shield Material

Material
Aluminum/Polyester

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC (UV stabilised)	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	2 A

#### Voltage

Voltage Rating [V]
300 V

## Temperature Range

Installation Temp Range:	-15°C To +80°C
Storage Temp 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 50290-2-27
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## Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
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## Flammability, LSOH, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-3-24
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

## Part Number

### Variants

Item #	Color	Length
8778LS.001000	Black	1,000 m
8778LS.00500	Black	500 m

## History

Update and Revision:	Revision Number: 0.173 Revision Date: 01-31-2020
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