



**Product:** [8777LS](#)

Audio, Control & Instrument, #22-3pr, PP, Individ. Foil, LSZH Jkt, SWA

### Product Description

Audio, Control & Instrument Cable, 3-Pair, 22 AWG stranded (7x30) tinned copper conductors, polypropylene insulation, individually shielded pairs (100% coverage), 22 AWG stranded tinned copper drain wire, LSZH jacket, Steel Wire Armor

### Technical Specifications

#### Product Overview

Suitable Applications:	low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; computer communication; panel wiring
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#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	No. of Pairs
22	7x30	TC - Tinned Copper	3

Conductor Count:	6
Total Number of Pairs:	3

##### 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

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

Number	Color
Pair 1	Red
Pair 2	Green
Pair 3	Blue

##### Inner Shield Material

Type	Material	Material Trade Name	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil® (Z-Fold®)	TC - Tinned Copper	AWG22/7

##### Inner Jacket Material

Material	Color	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	Chrome (RAL 7037)	7 mm	0.89 mm

##### Outer Shield Material

Material
Bi-Laminate (Alum+Poly)

## Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	11.5 mm	1.35 mm

## Construction and Dimensions

### Cabling

Description
3 pairs twisted to cable core

### Armor

Type of Armor	Material	Thickness of Armoring Wires	Coverage Percentage
Steel Wire Armoring	Galvanized steel wire	0.9 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:	115 mm

## Standards

CENELEC Compliance:	EN 50290-2-27
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## Applicable Environmental and Other Programs

Environmental Space:	Indoor
EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01

## Suitability

Suitability - Sunlight Resistance:	Yes
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## Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-3-24
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IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance:	60%

## Part Number

### Variants

Item #	Color	Putup Type	Length	EAN
8777LS.00500	Black	Reel	500 m	8719605019578
8777LS.001000	Black	Reel	1,000 m	8719605019561

## History

Update and Revision:	Revision Number: 0.191 Revision Date: 12-18-2020
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