



Product: [8241LS](#)

## VIDEO CABLE RG59/U LSZH-C SWA

### Product Description

VIDEO CABLE RG59/U LSZH-C SWA

### Technical Specifications

#### Product Overview

Suitable Applications:	For data transmission applications
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#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	No. of Coax
23	Solid	BCCS - Bare Copper Covered Steel	1

Conductor Count:	1
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##### Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene	3.71 mm	0.13 mm

##### Inner Shield Material

Type	Material	Coverage [%]
Braid	Bare Copper (BC)	95%

##### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	6.1 mm	0.89 mm

##### Outer Jacket Material 2

Material	Color	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	Black	10.5 mm	1.3 mm

#### Construction and Dimensions

##### Armor

Type of Armor	Material	Thickness of Armoring Wires	Coverage Percentage
Steel Wire Armoring	Single steel wire	0.9 mm	Min. 95%

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
160.8 Ohm/km	8.2 Ohm/km

##### Capacitance

Nom. Capacitance Conductor to Shield
66.9 pF/m

## Inductance

### Nominal Inductance

0.43  $\mu$ H/m

## Impedance

### Nominal Characteristic Impedance

75 Ohm

## High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.97 dB/100m
10 MHz	3.01 dB/100m
50 MHz	3.61 dB/100m
100 MHz	7.87 dB/100m
200 MHz	11.15 dB/100m
400 MHz	16.08 dB/100m
700 MHz	22.97 dB/100m
900 MHz	36.42 dB/100m
1000 MHz	39.37 dB/100m

## Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
510 ns/ft	84%

## Voltage

### Voltage Rating [V]

1700 V RMS

## Temperature Range

Installation Temp Range:	-15°C To +50°C
Storage Temp Range:	-45°C To +80°C
Operating Temp Range:	-45°C To +80°C

## Mechanical Characteristics

Oil Resistance:	IEC 60811-404
Min Bend Radius (W/o Pulling Strength):	157.5 mm

## Standards

CENELEC Compliance:	EN 50290-2-27
RG Type:	59/U Type

## Applicable Environmental and Other Programs

Environmental Space:	Indoor
EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01

## Suitability

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

IEC Flammability:	IEC 60332-3-24
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 $\mu$ S/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:	IEC 61034-2

## Part Number

### Variants

Item #	Color	Putup Type	Length	EAN
8241LS.00500	Black	Reel	500 m	8719605018199
8241LS.001000	Black	Reel	1,000 m	8719605018182

## History

Update and Revision:

Revision Number: 0.201 Revision Date: 09-30-2020

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