

Product: [7784ECH](#) 

VIDEO TRIAX 11 FRNC/LSZH-C



Product Description

VIDEO TRIAX 11 FRNC/LSZH-C

Technical Specifications

Product Overview

Suitable Applications:	Low loss HDTV/SDI Digital coax used in analog and digital video circuits and high quality applications; The cable is UV-resistant and suitable for indoor and outdoor use; Use of 1080p/50 applications
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
15	Solid	BC - Bare Copper	1.4 mm	1

Conductor Count:	1
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Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	6.5 mm	0.2 mm

Inner Shield Material

Type	Material	Coverage [%]	Nominal Diameter
Braid	Bare Copper (BC)	80%	7.2 mm

Inner Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH - Low Smoke Zero Halogen (Flame Retardant)	8.5 mm	0.2 mm

Outer Shield Material

Type	Material	Nominal Diameter	Min. Coverage [%]
Braid	Bare Copper (BC)	9.1 mm	80%

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH - Low Smoke Zero Halogen (Flame Retardant)	11.3 mm	0.2 mm

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Inner Shield DCR	Nominal Outer Shield DCR
11.2 Ohm/km	6.5 Ohm/km	7 Ohm/km

Capacitance

Nom. Capacitance Conductor to Shield
55 pF/m

Inductance

Nominal Inductance
0.4 µH/m

Impedance

Nominal Characteristic Impedance
75 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.5 dB/100m
3.58 MHz	1 dB/100m
5 MHz	1.2 dB/100m
7 MHz	1.3 dB/100m
10 MHz	1.6 dB/100m
67.5 MHz	4.1 dB/100m
71.5 MHz	4.3 dB/100m
88.5 MHz	4.8 dB/100m
100 MHz	5.2 dB/100m
135 MHz	6 dB/100m
143 MHz	6.2 dB/100m
180 MHz	7.1 dB/100m
270 MHz	8.7 dB/100m
300 MHz	9 dB/100m
360 MHz	10.2 dB/100m
540 MHz	12.8 dB/100m
720 MHz	15 dB/100m
750 MHz	15.4 dB/100m
1000 MHz	18.2 dB/100m
1500 MHz	23 dB/100m
2000 MHz	27.4 dB/100m
2250 MHz	29.4 dB/100m
3000 MHz	35.1 dB/100m

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
410 ns/ft	81%

High Freq

Frequency [MHz]	Min. SRL (Structural Return Loss)
5 - 850 MHz	23 dB

Screening

Frequency [MHz]	Min. Screening Attenuation
30 - 850 MHz	75 dB

Voltage

Voltage Rating [V]
400 V RMS

Table Notes:	Maximum operating
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Temperature Range

Installation Temp Range:	-5°C To +70°C
Storage Temp Range:	-30°C To +70°C
Operating Temp Range:	-30°C To +70°C

Mechanical Characteristics

Max. Pull Tension:	300 N
Min Bend Radius (W/o Pulling Strength):	110 mm

Standards

CENELEC Compliance:	EN 50117-1 and EN 50290-2-20
Series Type:	Triax 8/11/14

Other Compliance:	SDTV/HDTV
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Applicable Environmental and Other Programs

Environmental Space:	Indoor
EU RoHS Compliance Date (yyyy-mm-dd):	2014-03-13

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-3-24
Other Flammability:	CEI 20-22-3
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
7784ECH.01500	Red	Reel	500 m	8719605014467
7784ECH.011000	Red	Reel	1,000 m	8719605014450

History

Update and Revision:	Revision Number: 0.194 Revision Date: 09-30-2020
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