

Part Number: 7784ECH

VIDEO TRIAX 11 FRNC/LSZH-C



Product Description

VIDEO TRIAX 11 FRNC/LSZH-C

Technical Specifications

Product Overview

Environmental Space:	Indoor
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

Physical Characteristics (Overall)

Conductor

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

Conductor Count:	1
Conductor Size:	15 AWG

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	FPE - Foamed Polyethylene	6.5 mm	0.2 mm

Inner Shield Material

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

Inner Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH / FRNC	8.5 mm	0.2 mm

Outer Shield Material

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

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH / FRNC	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 μ H/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

Voltage Rating Table Note: Maximum operating

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

Standards

GENELEC Compliance:	EN 50117-1 and EN 50290-2-20
Series Type:	Triax 8/11/14
Other Specification:	SDTV/HDTV

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2014-03-13
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Flammability, LSOH, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-3-24
Other Flammability:	CEI 20-22-3
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

Part Number

Variants

Item #	Color	Length
7784ECH.011000	Red	1,000 m
7784ECH.01500	Red	500 m
7784ECH.019999	Red	475 m

History

Revision Number:	5
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