

Product: [7783AFP](#) 

VIDEO TRIAX 8 STRANDED PUR



Product Description

VIDEO TRIAX 8 STRANDED PUR

Technical Specifications

Product Overview

Suitable Applications:	Triaxial camera cable used to interconnect video cameras to related equipment.; Triax cable contain 2 isolated shields and a solid or stranded center conductor.; Isolated shields allow the triax cable to provide multiple functions over 1 cable through multiplexing techniques
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Stranded	SC - Silvered Copper	0.99 mm	1

Conductor Count:	1
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Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
PE - Polyethylene (Foam)	4.52 mm	0.2 mm

Inner Shield Material

Type	Material	Nominal Diameter	Min. Coverage [%]
Braid	Silvered Copper (SC)	5.1 mm	80%

Inner Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PE - Polyethylene	6.6 mm	0.2 mm

Outer Shield Material

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

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PUR - Polyurethane	8.4 mm	0.2 mm

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Inner Shield DCR	Nominal Outer Shield DCR
32 Ohm/km	14 Ohm/km	9 Ohm/km

Capacitance

Nom. Capacitance Conductor to Shield
52 pF/m

Inductance

Nominal Inductance
0.4 μ H/m

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
5-850	21 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.6 dB/100m
10 MHz	2.2 dB/100m
20 MHz	3.2 dB/100m
40 MHz	4.6 dB/100m
50 MHz	5.1 dB/100m
60 MHz	5.6 dB/100m
100 MHz	7.5 dB/100m
300 MHz	13.8 dB/100m

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
410 ns/100m	83%

Screening

Frequency [MHz]	Min. Screening Attenuation
30-1000 MHz	75

Temperature Range

Installation Temp Range:	-5°C To +70°C
Storage Temp Range:	-40°C To +70°C
Operating Temp Range:	-40°C To +70°C

Mechanical Characteristics

Max. Pull Tension:	250 N
Min Bend Radius (W/o Pulling Strength):	80 mm

Standards

Series Type:	Triax 8/11/14
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Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
EU RoHS Compliance Date (yyyy-mm-dd):	2014-04-11

Part Number

Variants

Item #	Color	Putup Type	Length	EAN
7783AFP.01500	Red	Reel	500 m	8719605014139

History

Update and Revision:	Revision Number: 0.141 Revision Date: 09-30-2020
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