

**Part Number: 439945**

**CCTV plus Audio, Pan and Tilt CCTV Control**



### Product Description

CCTV plus Audio, Pan and Tilt CCTV Control, Coax RG-6, 18 AWG solid bare copper, foamed polyethylene core, 95% bare copper braid, LSZH jacket

### Technical Specifications

#### Product Overview

Environmental Space:	Indoor
Suitable Applications:	CCTV plus Audio, Pan and Tilt CCTV Control; Suitable for indoor, outdoor and Aerial use

#### Physical Characteristics (Overall)

##### Conductor

Element	AWG	Stranding	Material	Nominal Diameter	No. of Coax
Coax	18	Solid	BC - Bare Copper	1.02 mm	1
Twisted pair	18	Stranded 7xAWG26	BC - Bare Copper	1.17 mm	

Conductor Count:	1
Conductor Size:	18 AWG

##### Insulation

Element	Type	Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness	Color
Coax	Dielectric	FPE - Foamed Polyethylene	4.57 mm			
Twisted pair	Insulation	Polyethylene	1.7 mm	0.05 mm	0.25 mm	Black & Red

##### Inner Shield Material

Element	Type	Material	Coverage [%]
Coax	Braid	Bare copper	95 %

##### Outer Jacket Material

Element	Material	Color	Nominal Diameter	Nominal Wall Thickness
Coax	LSZH / FRNC	Grey	6.8 mm	0.38 mm

#### Construction and Dimensions

OuterJacket1, Form:	Shotgun
OuterJacket1, Nominal Width:	12.7 mm

#### Electrical Characteristics

##### Conductor DCR

Element	Nominal Conductor DCR	Nominal Outer Shield DCR
Coax	21 Ohm/km	10.2 Ohm/km
Twisted pair	21 Ohm/km	

##### Capacitance

Element	Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
Coax		53.4 pF/m
Twisted pair	78.7 pF/m	

## Impedance

Element	Nominal Characteristic Impedance
Coax	75 Ohm

## High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss
Coax	1 MHz	0.56 dB/100m
	5 MHz	1.48 dB/100m
	10 MHz	2.1 dB/100m
	50 MHz	4.79 dB/100m
	100 MHz	6.89 dB/100m
	200 MHz	9.84 dB/100m
	400 MHz	14.1 dB/100m
	700 MHz	19 dB/100m
	900 MHz	22 dB/100m
	1000 MHz	23.3 dB/100m

## Delay

Element	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
Coax	400 ns/ft	83 %

## Voltage

Element	Voltage Rating [V]
Coax	300 V RMS
Twisted pair	300 V RMS

## Temperature Range

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

## Mechanical Characteristics

Max Recommended Pulling Tension:	52 N
Min Bend Radius (W/o Pulling Strength):	34 mm
Min Setting Radius:	68 mm

## Standards

RG Type:	6/U Type
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## Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01
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## Part Number

### Variants

Item #	Color
439945.00100	Gray
439945.00500	Gray

## History

Revision Number:	4
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