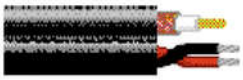
Part Number: 449945

CCTV plus Audio, Pan and Tilt CCTV Control



Product Description

CCTV plus Audio, Pan and Tilt CCTV Control, Coax 59/U, Flame retardance IEC60332-1 20 AWG solid bare copper, foamed polyethylene core, 95% bare copper braid, LSZH jacket

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Dca
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	20	Solid	BC - Bare Copper	0.81 mm	1
Twisted pair	18	Stranded 7xAWG26	BC - Bare Copper	1.17 mm	

Conductor Count:	1
Conductor Size:	20 AWG

Insulation

Element	Type	Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness	Color
Coax	Dielectric	FPE - Foamed Polyethylene	3.68 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	5.9 mm	0.38 mm

Construction and Dimensions

OuterJacket1, Form:	Shotgun
OuterJacket1, Nominal Width:	11.7 mm

Electrical Characteristics

Conductor DCR

Element	Nominal Conductor DCR	Nominal Outer Shield DCR
Coax	32.8 Ohm/km	11.5 Ohm/km
Twisted pair	21.3 Ohm/km	

Capacitance

Element	Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
Coax		54.3 pF/m
Twisted pair	98.4 pF/m	

Impedance

Element	Nominal Characteristic Impedance
Coax	75 Ohm

High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss
Coax	1 MHz	0.98 dB/100m
	5 MHz	2.13 dB/100m
	10 MHz	2.95 dB/100m
	50 MHz	6.23 dB/100m
	100 MHz	8.53 dB/100m
	200 MHz	11.8 dB/100m
	400 MHz	16.4 dB/100m
	700 MHz	23 dB/100m
	900 MHz	26.2 dB/100m
	1000 MHz	27.9 dB/100m

Delay

Element	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
Coax	410 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:	450 N
Min Bend Radius (W/o Pulling Strength):	29.5 mm
Min Setting Radius:	59 mm

Standards

CPR Euroclass:	Dca-s2,d2,a1
RG Type:	59/U Type

Applicable Environmental and Other Programs

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

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

Part Number

Variants

Item #	Color
449945.00100	Gray
449945.00500	Gray

History

Revision Number:	4

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