

Part Number: 633938



Surveillance CATV MATV, RG-6 #18 BC, Duofoil® + 90% AL Braid, CMP-CATVP

Product Description

Surveillance, CATV & MATV Cable, RG6, Plenum-CMP & CATVP, 18 AWG solid bare copper, foam FEP core, Duofoil® + 90% aluminum braid, Flamarrest® jacket

Technical Specifications

Product Overview

Suitable Applications:	CATV, MATV
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs	No. of Coax
18	Solid	BC - Bare Copper	0.04 in	1	1

Conductor Count:	1
Conductor Size:	18 AWG

Insulation

Material	Nominal Diameter
FFEP - Foam Fluorinated Ethylene Propylene	0.17 in

Color Chart

Number
1

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Duofoil®	100 %
Braid	2	AL - Aluminum		90 %

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter
LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.233 in

Construction and Dimensions

Print Legend:	NEW GENERATION® BY BELDEN-E 633938 1C18 75°C E108998 (UL) CMP OR CATVP OR C(UL) CMP (2 FOOT, 7 DIGIT SEQUENTIAL FOOTAGE) FEET
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Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
6.4 Ohm/1000ft	3.5 Ohm/1000ft	3.5 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield	16.3 pF/ft
Shielding:	Foil + Braid(s)

Inductance

Nominal Inductance

0.097 µH/ft

Impedance

Nominal Characteristic Impedance

75 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.24 dB/100ft
3 MHz	0.45 dB/100ft
5 MHz	0.55 dB/100ft
8 MHz	0.7 dB/100ft
10 MHz	0.85 dB/100ft
50 MHz	1.5 dB/100ft
100 MHz	2.1 dB/100ft
200 MHz	3.1 dB/100ft
400 MHz	4.5 dB/100ft
700 MHz	6 dB/100ft
900 MHz	6.9 dB/100ft
1000 MHz	7.3 dB/100ft

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
83 ns/100m	1.24 ns/ft	83 %

Voltage

UL Voltage Rating

300 V RMS

Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	-20°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	28 lbs/1000ft
Max Recommended Pulling Tension:	104 lbs
Min Bend Radius/Minor Axis:	2.25 in

Standards

NEC Articles:	820
NEC/(UL) Specification:	CATVP, CMP
CEC/C(UL) Specification:	CMP
RG Type:	6/U Type
Series Type:	Series 6
RG / Series Type:	Series 6

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	FT6
UL Flammability:	NFPA 262 Plenum Flame Test (UL910)
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Variants

Item #	Color	Footnote
633938 010U1000	Black	
633938 008U1000	Gray	
633938 8771000	Natural	C
633938 877500	Natural	C
633938 877U1000	Natural	
633938 009U1000	White	

Footnote:	C - CRATE REEL PUT-UP.
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