

## 633938 Coax - Commercial CATV or MATV Applications



For more Information  
please call

1-800-Belden1

**General Description:**

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

**Usage (Overall)**

Suitable Applications: CATV, MATV

**Physical Characteristics (Overall)****Conductor**

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	Solid	BC - Bare Copper	1.016

**Insulation**

Insulation Material:

Insulation Material	Dia. (mm)
FFEP - Foam Fluorinated Ethylene Propylene	4.318

**Outer Shield**

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	AL - Aluminum	90

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

**Overall Cable**

Overall Nominal Diameter: 5.918 mm

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	41.670 Kg/Km
Max. Recommended Pulling Tension:	462.613 N
Min. Bend Radius/Minor Axis:	57.150 mm

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMP, CATVP
NEC Articles:	820
CEC/C(UL) Specification:	CMP
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes

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EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	6/U
Series Type:	Series 6

## Flame Test

UL Flame Test:	NFPA 262
C(UL) Flame Test:	FT6

## Plenum/Non-Plenum

Plenum (Y/N):	Yes
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## Surface Printing (Overall)

Surface Printing:	"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 (Overall)

## Nom. Characteristic Impedance:

Impedance (Ohm)
75

## Nom. Inductance:

Inductance (µH/m)
0.318257

## Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
53.4803

## Nominal Velocity of Propagation:

VP (%)
83

## Nominal Delay:

Delay (ns/m)
4.06844

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
20.9984

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
11.4835

## Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.78744
3	1.47645
5	1.80455
8	2.2967
10	2.78885
50	4.9215
100	6.8901

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200	10.1711
400	14.7645
700	19.686
900	22.6389
1000	23.9513

**Max. Operating Voltage - UL:**

Voltage
300 V RMS

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
633938 008U1000	1,000 FT	29.000 LB	GRAY		RG-6/U PLENUM COAX
633938 009U1000	1,000 FT	29.000 LB	WHITE		RG-6/U PLENUM COAX
633938 009Z1000	1,000 FT	31.000 LB	WHITE		RG-6/U PLENUM COAX
633938 010U1000	1,000 FT	29.000 LB	BLACK		RG-6/U PLENUM COAX
633938 010Z1000	1,000 FT	31.000 LB	BLACK		RG-6/U PLENUM COAX
633938 877U1000	1,000 FT	29.000 LB	NATURAL		RG-6/U PLENUM COAX
633938 877Z1000	1,000 FT	31.000 LB	NATURAL		RG-6/U PLENUM COAX
633938 8771000	1,000 FT	29.000 LB	NATURAL	C	RG-6/U PLENUM COAX
633938 877500	500 FT	15.000 LB	NATURAL	C	RG-6/U PLENUM COAX

**Notes:**

C = CRATE REEL PUT-UP.

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