# **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



# 82241 Coax - 75 Ohm Coax

For more Information please call

1-800-Belden1



# **General Description:**

23 AWG Solid .023" bare copper-covered steel conductor, plenum, FEP insulation, bare copper braid shield (95% coverage), Flamarrest® jacket.

# **Physical Characteristics (Overall)**

# Conductor

#### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	23	Solid	BCCS - Bare Copper Covered Steel	0.5842

Total Number of Conductors:

### Insulation

### **Insulation Material:**

Insulation Material	Dia. (mm)
FEP - Fluorinated Ethylene Propyle	ene 3.4036

### **Outer Shield**

# **Outer Shield Material:**

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	95.000

### **Outer Jacket**

### **Outer Jacket Material:**

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

# **Overall Cable**

Overall Nominal Diameter: 4.826 mm

# **Mechanical Characteristics (Overall)**

( ) ( )				
Operating Temperature Range:	-20°C To +75°C			
UL Temperature Rating:	60°C			
Non-UL Temperature Rating:	75°C			
Bulk Cable Weight:	50.599 Kg/Km			
Max. Recommended Pulling Tension:	275.788 N			
Min. Bend Radius/Minor Axis:	50.800 mm			

# **Applicable Specifications and Agency Compliance (Overall)**

# **Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	No
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes

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EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005
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:	59/U
Flame Test	
UL Flame Test:	NFPA 262
Suitability	
Suitability - Indoor:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	Yes
Non-Plenum Number:	8241

# **Electrical Characteristics (Overall)**

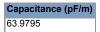
Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



**Nominal Delay:** 



Nom. Conductor DC Resistance:



**Nominal Outer Shield DC Resistance:** 

DCR @ 20°C (Ohm/km) 8.5306

# Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	1.6405
10	3.281
50	7.5463
100	10.8273
200	17.0612
400	27.5604
700	38.0596
900	45.2778
1000	48.5588

Max. Operating Voltage - UL:

Voltag	oltage				
300 V	RMS				

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#### Max. Operating Voltage - Non-UL:

1700 V RMS

# **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82241 877U1000	305 MT	16.329 KG	NATURAL		#23 FEP RG-59/U FLMRST
82241 877U500	152 MT	8.391 KG	NATURAL		#23 FEP RG59/U FLMRST
82241 8771000	305 MT	16.329 KG	NATURAL	С	#23 FEP RG-59/U FLMRST

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 09-24-2012

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