



Part Number: 8240

Distributed Antenna Systems (DAS) 52 Ohm, RG58, 20 AWG, CMX

# **Product Description**

Distributed Antenna Systems (DAS) Cable, RG-58A/U type, 20 AWG solid .033" bare copper conductor, polyethylene insulation, tinned copper braid shield (95% coverage), PVC iacket.

### **Technical Specifications**

### **Product Overview**

Environmental Space:	Outdoor - Aerial

### **Physical Characteristics (Overall)**

### Conductor

AWG	Stranding	Material	Nomin	al Diameter	No. of Coax
20	Solid	BC - Bare Copper	0.033 in		1
Conductor Count:		1			

### Insulation

Material	Nominal Diameter
PE - Polyethylene	0.116 in

### **Outer Shield Material**

Type	Material	Coverage [%]
Braid	TC - Tinned Copper	95 %

### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.193 in

# **Electrical Characteristics**

### **Conductor DCR**

Nominal Conductor DCR	Nominal Outer Shield DCR
10 Ohm/1000ft	4.1 Ohm/1000ft

### Capacitance

Nom. Capacitance Conductor to Shield 28.5 pF/ft

#### Inductance

Nominal Inductance

### Impedance

Nominal Characteristic Impedance 52 Ohm

# High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100ft
10 MHz	1.1 dB/100ft
50 MHz	2.5 dB/100ft
100 MHz	3.8 dB/100ft
200 MHz	5.6 dB/100ft
400 MHz	8.4 dB/100ft
700 MHz	11.7 dB/100ft
900 MHz	13.7 dB/100ft
1000 MHz	14.5 dB/100ft

# Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.54 ns/ft	66 %

# Power Rating

Frequency [MHz]	Max. Power Rating [W]
50 MHz	530 W
100 MHz	350 W
400 MHz	160 W
1,000 MHz	90 W

# Voltage

Non-UL Voltage Rating	UL Voltage Rating
1400V RMS	300V RMS (CMX), 30V RMS (UL AWM Style 1354)
	30V RMS (UL AWM Style 1354)

### **Temperature Range**

UL Temp Rating:	80°C (UL AWM Style 1354)
Operating Temp Range:	-40°C To +75°C

## **Mechanical Characteristics**

UV Resistance:	Yes
Bulk Cable Weight:	26 lbs/1000ft
Max Recommended Pulling Tension:	47 lbs
Min Bend Radius/Minor Axis:	2 in

# Standards

NEC/(UL) Specification:	CMX
CEC/C(UL) Specification:	CMX
UL AWM Style:	UL Style 1354
CPR Euroclass:	Eca
RG Type:	RG-58A/U Type

# **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 Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

# Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire

Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only

### Flammability, LS0H, Toxicity Testing

#### **Part Number**

Plenum (Y/N):	No
Plenum Number:	88240, 82240

#### Variants

Item #	Color
8240 010100	BLACK
8240 0101000	BLACK
8240 010500	BLACK
8240 0105000	BLACK
8240 010U1000	BLACK
8240 010U500	BLACK

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