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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**Part Number: 1186A**



CATV Video, RG59, 20 AWG BCCS, Quad Shield (Foil + 65% Braid + Foil + 45% Braid), CM

## Product Description

Series 59, 20 AWG solid .032" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® + aluminum braid(s) shield (65% and 45% coverage), PVC jacket.

## Technical Specifications

### Product Overview

Environmental Space:	Indoor (Not Riser or Plenum)
Suitable Applications:	CATV, Broadband

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	BCCS - Bare Copper Covered Steel	0.032 in	1
Conductor Count:		1		
Conductor Size:		20 AWG		

#### Insulation

Material	Nominal Diameter
Gas-injected FPE - Foam Polyethylene	0.144 in

#### Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Bonded Duofoil®	100 %
Braid	2	AL - Aluminum		65 %
Tape	3	Aluminum/Polyester/Aluminum	Duofoil®	100 %
Braid	4	AL - Aluminum		45 %

#### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.265 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
44.5 Ohm/1000ft	7 Ohm/1000ft	7.0 Ohm/1000ft

#### Capacitance

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

#### Inductance

Nominal Inductance
0.097 µH/ft

#### Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	± 3 Ohm

#### Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
5 MHz	20 dB
1000 MHz	20 dB

#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	0.89 dB/100ft
55 MHz	1.95 dB/100ft
211 MHz	3.59 dB/100ft
270 MHz	4.05 dB/100ft
300 MHz	4.27 dB/100ft
350 MHz	4.64 dB/100ft
400 MHz	4.88 dB/100ft
450 MHz	5.30 dB/100ft
550 MHz	5.90 dB/100ft
750 MHz	6.96 dB/100ft
870 MHz	7.54 dB/100ft
1000 MHz	8.09 dB/100ft

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.2 ns/ft	83 %

#### High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
5 MHz	0.89 dB/100ft
55 MHz	1.95 dB/100ft
211 MHz	3.59 dB/100ft
270 MHz	4.05 dB/100ft
300 MHz	4.27 dB/100ft
350 MHz	4.64 dB/100ft
400 MHz	4.88 dB/100ft
450 MHz	5.3 dB/100ft
550 MHz	5.9 dB/100ft
750 MHz	6.96 dB/100ft
870 MHz	7.54 dB/100ft
1000 MHz	8.09 dB/100ft

#### Voltage

UL Voltage Rating
300 V RMS

#### Temperature Range

Operating Temp Range:	-40°C To +80°C
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#### Mechanical Characteristics

Bulk Cable Weight:	30 lbs/1000ft
Max Recommended Pulling Tension:	140 lbs
Min Bend Radius/Minor Axis:	2.75 in

#### Standards

NEC/(UL) Specification:	CATV, CM
CEC/C(UL) Specification:	CM
RG Type:	59/U Type
Series Type:	Series 59
RG / Series Type:	Series 59

#### 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

## Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	300 V RMS

## Part Number

### Variants

Item #	Color
1186A 0101000	Black

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