

**Product:** <u>9850</u> ☑





## **Product Description**

RG-216, 18 awg stranded (7x26) .048" tinned copper conductor, solid polyethylene insulation, double bare copper braid shield (95% coverage), CMH, non-contaminating PVC jacket.

# **Technical Specifications**

## **Physical Characteristics (Overall)**

Conduc AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	7x26	TC - Tinned Copper	0.048 in	1
Condu	ctor Count:		1	

#### Insulation

Material	Nominal Diameter
PE - Polyethylene	0.285 in

#### Outer Shield Material

Type	Layer	Material	Coverage [%]
Braid	1	Bare Copper (BC)	95%
Braid	2	Bare Copper (BC)	95%

# Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride (Non-Contaminating)	0.425 in

## **Electrical Characteristics**

## Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
6.1 Ohm/1000ft	0.8 Ohm/1000ft	0.8 Ohm/1000ft

### Capacitance

Nom. Capacitance Conductor to Shield 20.5 pF/ft

### Inductance

Nominal Inductance 0.17 µH/ft

## Impedance

Nominal Characteristic Impedance
75 Ohm

## High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.2 dB/100ft

10 MHz	0.7 dB/100ft
50 MHz	1.3 dB/100ft
100 MHz	2.0 dB/100ft
200 MHz	2.9 dB/100ft
400 MHz	4.2 dB/100ft
700 MHz	5.8 dB/100ft
900 MHz	6.8 dB/100ft
1000 MHz	7.1 dB/100ft
2000 MHz	10.0 dB/100ft
3000 MHz	13.0 dB/100ft

### Delay

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

### **Power Rating**

Frequency [MHz]	Max. Power Rating [W]
100 MHz	650 W
400 MHz	270 W
1,000 MHz	150 W
2,000 MHz	90 W
3,000 MHz	70 W

## Voltage

# Non-UL Voltage Rating 3700 V RMS

## **Temperature Range**

Non-UL Temp Rating:	60°C
UL Temp Rating:	80°C
Operating Temp Range:	-40°C To +80°C

## **Mechanical Characteristics**

Bulk Cable Weight:	122 lbs/1000ft
Max. Pull Tension:	181 lbs
Min Bend Radius/Minor Axis:	4.25 in

# Standards

NEC/(UL) Compliance:	СМН
CEC/C(UL) Compliance:	СМН
CPR Euroclass:	Eca
RG Type:	216/U Type
Military Compliance:	MIL-DTL-17, M17/77-RG216, QPL
Qualified Products List (QPL):	Yes

# **Applicable Environmental and Other Programs**

Environmental Space:	Indoor Rated (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	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 RoHS Compliance Date (yyyy-mm-dd):	2005-10-01
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

CSA Flammability:	FT1
IEC Flammability:	IEC 60332-1-2

### Plenum/Non-Plenum

Plenum (Y/N):	No	

### **Part Number**

#### Variants

	Item #	Color	Putup Type	Length	h UPC
ľ	9850 0101000	Black	Reel	1,000 f	ft 612825259688
	Footnote:			C	C - CRATE REEL F

### History

Update and Revision:	Revision Number: 0.226 Revision Date: 09-30-2020

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