



## Description:

22 AWG solid .025" bare copper-covered steel conductor, semi-solid polyethylene insulation, bare copper braid shield (95% coverage), PVC jacket.

## Physical Characteristics (Overall)

### Conductor

**AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	22	Solid	BCCS - Bare Copper Covered Steel	.025

### Insulation

**Insulation Material:**

Insulation Material	Dia. (in.)
Semi-Solid PE - Semi-Solid Polyethylene	.146

### Outer Shield

**Outer Shield Material:**

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	95

### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

### Overall Cabling

**Overall Nominal Diameter:** 0.239 in.

## Mechanical Characteristics (Overall)

<b>Operating Temperature Range:</b>	-40°C To +80°C
<b>UL Temperature Rating:</b>	60°C (UL AWM Style 1478)
<b>Bulk Cable Weight:</b>	34 lbs/1000 ft.
<b>Max. Recommended Pulling Tension:</b>	84 lbs.
<b>Min. Bend Radius (Install)/Minor Axis:</b>	2.500 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	CM, CL2
<b>CEC/C(UL) Specification:</b>	CM
<b>AWM Specification:</b>	UL Style 1478 (30 V 60°C)
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	01/01/2004
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes

EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
PMSHA Specification:	SC-182/3
Customer Part Number Reference Specification:	IBM P/N 323921
RG Type:	62A/U

### Flame Test

UL Flame Test:	UL1685 UL Loading
----------------	-------------------

### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	89269, 87269, 82269

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)
93

### Nom. Inductance:

Inductance (µH/ft)
0.116

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
13.5

### Nominal Velocity of Propagation:

VP (%)
84

### Nominal Delay:

Delay (ns/ft)
1.21

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
41.2

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.9

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	0.3
10	0.9
50	1.9
100	2.7
200	3.8
400	5.3
700	7.3
900	8.2
1000	8.7

### Max. Operating Voltage - UL:

Voltage
300 V RMS (CM)
150 V RMS (CL2)
30 V RMS (UL AWM Style 1478)

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

**Voltage**

750 V RMS

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9269 A8RU1000	1,000 FT	36.000 LB	BEIGE, SNOW		RG-62A/U TYPE COAX
9269 003U1000	1,000 FT	36.000 LB	ORANGE		RG-62A/U TYPE COAX
9269 010U1000	1,000 FT	36.000 LB	BLACK		RG-62A/U TYPE COAX
9269 010U500	500 FT	18.500 LB	BLACK		RG-62A/U TYPE COAX 306 2.09
9269 0101000	1,000 FT	38.000 LB	BLACK		RG-62A/U TYPE COAX
9269 0101640	1,640 FT	60.680 LB	BLACK	C	RG-62A/U TYPE COAX
9269 0102000	2,000 FT	76.000 LB	BLACK	C	RG-62A/U TYPE COAX
9269 0103280	3,280 FT	121.360 LB	BLACK	C	RG-62A/U TYPE COAX
9269 010500	500 FT	17.000 LB	BLACK	C	RG-62A/U TYPE COAX
9269 0105000	5,000 FT	185.000 LB	BLACK	C	RG-62A/U TYPE COAX
9269 060U1000	1,000 FT	36.000 LB	CHROME		RG-62A/U TYPE COAX

**Notes:**

C = CRATE REEL PUT-UP.

# Computer and Instrumentation Cable

75 Ohm and 93 Ohm Coax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

**75 Ohm • RG-11/U Type • 14 AWG Solid Bare Copper-covered Steel Conductor • Duobond IV Quad Shield (100% Coverage)**

**Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket**

150°C	<b>3095A</b>	NEC: CMP: PLTC CEC: CMP FT6	1000	304.8	76.0	34.5	14 AWG (solid) .064" BCCS 11.0Ω/M' 36.1Ω/km	.280	7.11	Duobond IV* Quad Shield 3.9Ω/M' 12.8Ω/km	.387	9.83	75	82%	16.5	54.1	1	.20	.70	.39	1.30	.20	1.30	1.70	5.60	2.50	8.20	3.50	11.50
-------	--------------	---	------	-------	------	------	--	------	------	---	------	------	----	-----	------	------	---	-----	-----	-----	------	-----	------	------	------	------	------	------	-------

Suitable for Outdoor and Direct Burial applications.  
Tap marks every 2.6 meters to aid users in installation.

**93 Ohm • RG-62B/U Type • 24 AWG Stranded (7x32) .024" Bare Copper-covered Steel Conductor • BC Braid Shield (95% Coverage)**

**Semi-solid Polyethylene Insulation • Black Non-contaminating PVC Jacket**

UL AWM Style 1354 (30V 60°C) VW-1	<b>8255</b>	NEC: CMX CEC: CMX	500	152.4	16.5	7.5	24 AWG (7x32) .024" 59.0Ω/M' 193.6Ω/km	.146	3.71	BC Braid 95% Shield Coverage BCCS 2.9Ω/M' 9.5Ω/km	.242	6.15	93	84%	13.5	44.3	1	.3	1.0	.9	3.0	2.0	6.6	2.9	9.5	4.2	13.8	6.1	20.0	8.6	28.2	10.1	33.1	11.1	36.4
--	-------------	----------------------------	-----	-------	------	-----	--	------	------	--	------	------	----	-----	------	------	---	----	-----	----	-----	-----	-----	-----	-----	-----	------	-----	------	-----	------	------	------	------	------

MIL-C-17D

**93 Ohm • RG-62/U Type • JAN-C-17A • 22 AWG Solid .025" Bare Copper-covered Steel Conductor • BC Braid Shield (95% Coverage)**

**Semi-solid Polyethylene Insulation • Black PVC Jacket**

75°C	<b>8254</b>	—	U-500	U-152.4	18.0	8.2	22 AWG (solid) .025" 41.2Ω/M' 135.1Ω/km	.146	3.71	BC Braid 95% Shield Coverage BCCS 2.9Ω/M' 9.5Ω/km	.238	6.05	93	84%	13.5	44.3	1	.3	.8	.9	2.8	1.9	6.2	2.7	8.9	3.8	12.5	5.3	17.4	7.3	23.9	8.2	26.9	8.7	28.5
------	-------------	---	-------	---------	------	-----	---	------	------	--	------	------	----	-----	------	------	---	----	----	----	-----	-----	-----	-----	-----	-----	------	-----	------	-----	------	-----	------	-----	------

**93 Ohm • RG-62A/U Type • 22 AWG Solid .025" Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (95% Coverage)**

**Semi-solid Polyethylene Insulation • Black High-density Polyethylene Jacket**

Flooded Burial 80°C	<b>9228</b>	—	500	152.4	15.0	6.8	22 AWG (solid) .025" 41.2Ω/M' 135.1Ω/km	.146	3.71	BC Braid 95% Shield Coverage BCCS 2.9Ω/M' 9.5Ω/km	.242	6.15	93	84%	13.5	44.3	1	.3	.8	.9	2.8	1.9	6.2	2.7	8.9	3.8	12.5	5.3	17.4	7.3	23.9	8.2	26.9	8.7	28.5
------------------------	-------------	---	-----	-------	------	-----	---	------	------	--	------	------	----	-----	------	------	---	----	----	----	-----	-----	-----	-----	-----	-----	------	-----	------	-----	------	-----	------	-----	------

Suitable for Outdoor and Direct Burial applications.

**Semi-solid Polyethylene Insulation • Black PVC Jacket**

UL AWM Style 1478 (30V 60°C)	<b>9268</b>	NEC: CM CL2 CEC: CM	500	152.4	20.0	9.1	22 AWG (solid) .025" 41.2Ω/M' 135.1Ω/km	.146	3.71	BC Braid 95% Shield Coverage BCCS 2.9Ω/M' 9.5Ω/km	.260	6.60	93	84%	13.5	44.3	1	.3	.8	.9	2.8	1.9	6.2	2.7	8.9	3.8	12.5	5.3	17.4	7.3	23.9	8.2	26.9	8.7	28.5
------------------------------------	-------------	------------------------------	-----	-------	------	-----	---	------	------	--	------	------	----	-----	------	------	---	----	----	----	-----	-----	-----	-----	-----	-----	------	-----	------	-----	------	-----	------	-----	------

IBM P/N 5252750 • Includes Mylar® tape as a moisture barrier for improved outdoor reliability.

UL AWM Style 1478 (30V 60°C)	<b>9269</b>	NEC: CM CL2 CEC: CM	U-500	U-152.4	18.5	8.4	22 AWG (solid) .025" 41.2Ω/M' 135.1Ω/km	.146	3.71	BC Braid 95% Shield Coverage BCCS 2.9Ω/M' 9.5Ω/km	.239	6.07	93	84%	13.5	44.3	1	.3	.8	.9	2.8	1.9	6.2	2.7	8.9	3.8	12.5	5.3	17.4	7.3	23.9	8.2	26.9	8.7	28.5
------------------------------------	-------------	------------------------------	-------	---------	------	-----	---	------	------	--	------	------	----	-----	------	------	---	----	----	----	-----	-----	-----	-----	-----	-----	------	-----	------	-----	------	-----	------	-----	------

IBM P/N 323921 P-MSHA SC-1823\*\*

\*U-1000 put-up also available in Orange, Beige or Chrome.

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene

Mylar is a DuPont trademark.

\* Duobond IV = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage) + Duofoil (100% coverage) + aluminum braid (46% coverage).  
\*\* Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.