

## 49643 Molded Cable Assemblies - GPIB (General Purpose Interface Bus) Assembly



For more Information  
please call

1-800-Belden1



### General Description:

GPIB unshielded, for use with electronic equipment that is IEEE-488 compatible, molded PVC connector, S-R PVC insulation, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	# Pairs	AWG	Stranding	Conductor Material
	6	26	7x34	TC - Tinned Copper
10		26	7x34	TC - Tinned Copper
1		24	7x32	TC - Tinned Copper

Total Number of Conductors: 23

Number of Pins: 24

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
S-R PVC - Semi-Rigid Polyvinyl Chloride	0.254

#### Connector Characteristics

Connector Characteristics - First End # of  
Connector Contacts/positions: 24

Connector Characteristics - First End Connector  
Gender: Male/Female

Connector Characteristics - First End Connector  
Shielding Type: None

Connector Characteristics - First End Connector  
Type: Stackable Ribbon

Connector Characteristics - First End Overmold  
Color: Gull Gray

Connector Characteristics - First End Overmold  
Compound Material: PVC

Connector Characteristics - First End Overmold  
Type: GPIB

Connector Characteristics - First End Retention  
Hardware: Thumbscrews

Connector Characteristics - Second End # of  
Connector Contacts/positions: 24

Connector Characteristics - Second End  
Connector Gender: Male/Female

Connector Characteristics - Second End  
Connector Shielding Type: None

Connector Characteristics - Second End  
Connector Type: Stackable Ribbon

Connector Characteristics - Second End  
Overmold Color: Gull Gray

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<b>Connector Characteristics - Second End Overmold Compound Material:</b>	PVC
<b>Connector Characteristics - Second End Overmold Type:</b>	GPIB
<b>Connector Characteristics - Second End Retention Hardware:</b>	Thumbscrews

### Outer Shield

**Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	90

**Outer Shield Drain Wire AWG:**

AWG	Stranding	Drain Wire Conductor Material
26	7x34	TC - Tinned Copper

### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.889

### Overall Cable

<b>Overall Nominal Diameter:</b>	8.890 mm
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### Assembly Dimensional

<b>Assembly Dimensional Length:</b>	6.6
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### Wiring

<b>Wiring:</b>	Straight wired.
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**Wiring Diagram Color Code Chart:**

Number	Color
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue (pair 1)
7	Purple (pair 2)
8	Gray (pair 3)
9	White (pair 4)
10	White/Black (pair 5)
11	White/Brown (pair 6)
12	Drain Wire
13	White/Orange
14	White/Yellow
15	White/Green
16	White/Blue
17	White/Purple
18	White/Gray (pair 1)
19	White/Black/Brown (pair 2)
20	White/Black/Red (pair 3)
21	White/Black/Orange (pair 4)
22	White/Black/Yellow (pair 5)
23	White/Black/Green (pair 6)
24	White/Black/Blue (24 AWG)

### Mechanical Characteristics (Overall)

<b>UL Temperature Rating:</b>	80°C (UL AWM Style 2464)
<b>Bulk Cable Weight:</b>	104.174 Kg/Km

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### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	CM (cable only)
<b>AWM Specification:</b>	UL Style 2464 (300 V 80°C) (cable only)
<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>	04/01/2005
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes

#### Plenum/Non-Plenum

<b>Plenum (Y/N):</b>	No
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### Electrical Characteristics (Overall)

#### Max. Operating Voltage - UL:

<b>Voltage</b>
300 V RMS (UL AWM Style 2464)

### Notes (Overall)

**Notes:** Molded connector is male/female design for easy stacking and comes with molded-in metric jackscrews.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
49643 C62S2	1 EA	5.534 KG	GRAY, GULL		GPIB UNSHD CONNECTOR RI38601

Revision Number: 2    Revision Date: 07-24-2009

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