

# Detailed Specifications & Technical Data



## ENGLISH MEASUREMENT VERSION

### 49760A Molded Cable Assemblies - D-Subminiature Assembly



For more Information  
please call

1-800-Belden1



#### General Description:

50-position shielded D-Sub, for high-density applications where assembly is exposed to high noise environment, polyethylene insulation, foil plus braid shield, PVC jacket.

#### Physical Characteristics (Overall)

##### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
50	26	7x34	TC - Tinned Copper	.019

Total Number of Conductors: 50

Number of Pins: 50

##### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PE - Polyethylene	0.01

##### Connector Characteristics

Connector Characteristics - First End # of Connector Contacts/positions: 50

Connector Characteristics - First End Connector Gender: Male

Connector Characteristics - First End Connector Shielding Type: Metal Backshells

Connector Characteristics - First End Connector Type: D-Sub

Connector Characteristics - First End Overmold Color: Chrome

Connector Characteristics - First End Overmold Compound Material: PVC

Connector Characteristics - First End Overmold Type: 50 Position D-Sub

Connector Characteristics - First End Retention Hardware: Thumbscrew

Connector Characteristics - Second End # of Connector Contacts/positions: 50

Connector Characteristics - Second End Connector Gender: Male

Connector Characteristics - Second End Connector Shielding Type: Metal Backshells

Connector Characteristics - Second End Connector Type: D-Sub

Connector Characteristics - Second End Overmold Color: Chrome

Connector Characteristics - Second End Overmold Compound Material: PVC

Connector Characteristics - Second End Overmold Type: 50 Position D-Sub

Connector Characteristics - Second End Retention Hardware: Thumbscrew

##### Outer Shield

Outer Shield Material:

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

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
22	7x30	TC - Tinned Copper

##### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.049

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#### Overall Cable

Overall Nominal Diameter: 0.535 in.

#### Assembly Dimensional

Assembly Dimensional Length: 5

#### Wiring

Wiring: Wiring: Point to Point. Pin #1 on end 1 to pin #1 on end 2. Pin #2 to pin #2, etc. Cable shield connected to connector shell.

#### Mechanical Characteristics (Overall)

UL Temperature Rating: 80°C (UL AWM Style 2919)

#### Applicable Specifications and Agency Compliance (Overall)

##### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM (cable only)

AWM Specification: UL Style 2919 (30 V 80°C) (cable only)

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 05/01/2006

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

#### Plenum/Non-Plenum

Plenum (Y/N): No

#### Electrical Characteristics (Overall)

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

Voltage

30 V RMS (UL AWM Style 2919)

#### Notes (Overall)

Notes: Molded handles are 100% shielded to guard against EMI/RFI and assist in FCC compliance. All connectors tin-plated and male connectors have detents to allow for a positive shield to ground connection.

Notes (Cont'd.): Wiring is point-to-point with the shield to connector shell. Jack screw retention on both connectors.

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
49760A 060S2	1 EA	0.520 LB	CHROME		50 POS SHD D-SUB RI37943

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