

83349 Multi-Conductor - MIL-W-16878/4 (Type E) Control and Instrumentation Cable



**Obsolete
Call
1-800-BELDEN1**

For more Information
please call

1-800-Belden1

Description:

22 AWG stranded (19x34) silver-plated copper conductors, cabled and color-coded, extruded TFE Teflon® insulation, silver-plated copper braid (90% coverage), TFE Teflon® tape-wrapped jacket.

Physical Characteristics (Overall)**Conductor****AWG:**

# Conductors	AWG	Stranding	Conductor Material
4	22	19x34	SPC - Silver Plated Copper

Insulation**Insulation Material:**

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Teflon®	TFE - Tetrafluoroethylene	.010

Insulation Resistance: 100, 000 Megaohms/1000 ft. @ 500 V DC

Outer Shield**Outer Shield Material:**

Type	Outer Shield Material	Coverage (%)
Braid	SPC - Silver Plated Copper	90

Outer Jacket**Outer Jacket Material:**

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (in.)
Teflon®	TFE - Tetrafluoroethylene	.010

Overall Cabling**Overall Cabling Lay Length & Direction:**

Length (in.)	Twists (ft.)
2	6

Overall Cabling Color Code Chart:

Number	Color
1	White
2	Black
3	Red
4	Green

Overall Nominal Diameter: 0.160 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-65°C To +200°C
Bulk Cable Weight:	27.200 lbs/1000 ft.
Max. Recommended Pulling Tension:	67.800 lbs.
Min. Bend Radius (Install)/Minor Axis:	1.750 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

Military Specification: MIL-W-16878/4 (Type E, except stranding, insulated conductors)

Flame Test

UL Flame Test: UL1685 UL Loading, VW-1

Plenum/Non-Plenum

Plenum (Y/N): No

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Non-Plenum Number:	83349E
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Electrical Characteristics (Overall)**Nom. Inductance:**

Inductance (μH/ft)
.158

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
27.4

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
45.7

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
14.7

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.5

Max. Operating Voltage - UL:

Voltage
600 V RMS

Max. Recommended Current:

Current
5 Amps per conductor at 25°C

Notes (Overall)

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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