

83351 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:

18 AWG stranded (19x30) 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	18	19x30	SPC - Silver Plated Copper

Insulation**Insulation Material:**

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Teflon®	TFE - Tetrafluoroethylene	.011

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: 0.206 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-65°C To +200°C
Bulk Cable Weight:	48.600 lbs/1000 ft.
Max. Recommended Pulling Tension:	138.500 lbs.
Min. Bend Radius (Install)/Minor Axis:	1.620 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: 83351E

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (μH/ft)
.126

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
31

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
52.8

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.7

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.1

Max. Operating Voltage - UL:

Voltage
600 V RMS

Max. Recommended Current:

Current
8.1 Amps per conductor @ 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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