Detailed Specifications & Technical Data





83337 Multi-Conductor - MIL-W-16878/4 (Type E) Control and Instrumentation Cable





For more Information please call

1-800-Belden1

Description:

16 AWG stranded (19x29) 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
3	16	19x29	SPC - Silver Plated Copper

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Teflon®	TFE - Tetrafluoroethylene	.012

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

Overall Nominal Diameter: 0.203 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-65°C To +200°C
Bulk Cable Weight:	45.700 lbs/1000 ft.
Max. Recommended Pulling Tension:	130.900 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.250 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

Miltary 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

Non-Plenum Number: 83337E



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Electrical Characteristics (Overall)
Nom. Inductance:
Inductance (µH/ft)
.148
Nom. Capacitance Conductor to Conductor:
Capacitance (pF/ft)
30.7
Nom. Capacitance Cond. to Other Conductor & Shield:
Capacitance (pF/ft)
53
Nom. Conductor DC Resistance:
DCR @ 20°C (Ohm/1000 ft)
4.4
Nominal Outer Shield DC Resistance:
DCR @ 20°C (Ohm/1000 ft)
6.6
Max. Operating Voltage - UL:
Voltage

Notes (Overall)

600 V RMS

Current

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

Put Ups and Colors:

Max. Recommended Current:

11 Amps per conductor @ 25°C

Item # Putup Ship Weight Color Notes Item Desc	Item #	Putup	Ship Weight	Color	Notes	Item Desc	
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