# **Detailed Specifications & Technical Data**





## 83332 Multi-Conductor - MIL-W-16878/4 (Type E) Control and Instrumentation Cable





For more Information please call

1-800-Belden1

## **Description:**

26 AWG stranded (7x34) 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:

	AWG	Stranding	Conductor Material
3	26	7x34	SPC - Silver Plated Copper

#### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)	
Teflon®	TFE - Tetrafluoroethylene	.009	

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.)
1.375	8.7

# **Overall Cabling Color Code Chart:**

Number	Color
1	White
2	Black
3	Red

Overall Nominal Diameter: 0.122 in.

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-65°C To +200°C
Bulk Cable Weight:	15 lbs/1000 ft.
Max. Recommended Pulling Tension:	35.300 lbs.
Min. Bend Radius (Install)/Minor Axis:	1.250 in.

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

#### **Applicable Standards & Environmental Programs**

Miltary Specification: MIL-W-16878/4 (Type E insulated conductors)

Flame Test

UL Flame Test: UL1685 UL Loading, VW-1

Plenum/Non-Plenum

Plenum (Y/N): No

Non-Plenum Number: 83332E



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Electrical	Characteristics	(Overall)

Nom. Inductance:

Inductance (µH/ft) .12

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
18.8

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
31.4

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 39

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 5.7

Max. Operating Voltage - UL:

Voltage 600 V RMS

Max. Recommended Current:

Current
3 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
ICOIII II	- utup	omp worgin	00101	110100	itom Bood

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