

# Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

## 83394 Multi-Conductor - Control and Instrumentation Cable, 2 Conductors Cabled



For more Information  
please call

1-800-Belden1



### General Description:

22 AWG stranded (7x30) TC conductors, conductors cabled, 22 AWG (7x30) stranded TC drain wire, FEP insulation, special Beldfoil® shield (100% coverage), silicone rubber jacket, noise reducing tape.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
2	22	7x30	TC - Tinned Copper

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	0.016

#### Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
1		Tape	Noise Reducing Conductive Nylon	

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.)
Silicone Rubber	.030

#### Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	White

Overall Nominal Diameter: 0.199 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +150°C

Bulk Cable Weight: 26 lbs/1000 ft.

Max. Recommended Pulling Tension: 27 lbs.

Min. Bend Radius/Minor Axis: 2 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

AWM Specification: UL Style 4516 (600 V 150°C)

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

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

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

EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005

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

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

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CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Other Specification:	NEMA HP3

#### Plenum/Non-Plenum

Plenum (Y/N):	No
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#### Electrical Characteristics (Overall)

##### Nom. Inductance:

Inductance ( $\mu$ H/ft)
.2

##### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
22

##### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
40

##### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
17.5

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

Voltage	Description
350 V RMS	Between Conductors
2000 V DC	Through Jacket

##### Max. Recommended Current:

Current
2.8 Amps per conductor @ 25°C

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83394 002U500	500 FT	14.500 LB	RED		2 #22 FEP SILICONE
83394 002500	500 FT	14.500 LB	RED	C	2 #22 FEP FS SIL

##### Notes:

C = CRATE REEL PUT-UP.

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