Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

83396 Multi-Conductor - Control and Instrumentation Cable

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
4	22	7x30	TC - Tinned Copper

Total Number of Conductors: 4

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.406

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		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 (mm)
Silicone Rubber	0.762

Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	White
3	Red
4	Green

Overall Nominal Diameter: 5.512 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-70°C To +150°C
Bulk Cable Weight:	47.622 Kg/Km
Max. Recommended Pulling Tension:	177.928 N
Min. Bend Radius/Minor Axis:	57.150 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

83396 Multi-Conductor - Control and Instrumentation Cable

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
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

Electrical Characteristics (Overall)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
72.182

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
131.24

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
57.4175

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

Notes (Overall)

Notes (Cont'd.):	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
83396 002100	100 FT	3.900 LB	RED		4 #22 FEP FS SIL
83396 002500	500 FT	17.500 LB	RED	C	4 #22 FEP FS SIL

Notes:
C = CRATE REEL PUT-UP.

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