Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



83321E Multi-Conductor - MIL-W-16878/4 (Type E), 2 Conductors Cabled

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For more Information please call

1-800-Belden1



General Description:

18 AWG stranded (19x30) silver-plated copper conductors, cabled and color-coded, extruded TFE Teflon® insulation, silver-plated copper braid shield (85% coverage), TFE teflon tape-wrapped jacket.

Physical Characteristics (Overall)						
Conductor AWG:						
# Conductors AWG Stranding Conductor Material 2 18 19x30 SPC - Silver Plated Copper						
Total Number of Conductors:	2					
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 85						
Outer Jacket						
Outer Jacket Material:						
	Outer Jacket Trade Name Outer Jacket Material Nom. Wall Thickness (in.)					
Teflon® TFE - Tetrafluoroethylene .011						
Overall Cable Overall Cabling Color Code Chart:						
Number Color						
1 White						
2 Black						
2 Didek						
Overall Nominal Diameter:	0.179 in.					
	0.179 in.					
Overall Nominal Diameter:	0.179 in. -65°C To +200°C					
Overall Nominal Diameter: Mechanical Characteristics (Overall)						
Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range:	-65°C To +200°C					
Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: Bulk Cable Weight:	-65°C To +200°C 27 lbs/1000 ft.					
Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: Bulk Cable Weight: Max. Recommended Pulling Tension:	-65°C To +200°C 27 lbs/1000 ft. 79.200 lbs. 2 in.					
Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (Capplicable Standards & Environmental Programs	-65°C To +200°C 27 lbs/1000 ft. 79.200 lbs. 2 in.					
Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (Capplicable Standards & Environmental Programs EU Directive 2011/65/EU (ROHS II):	-65°C To +200°C 27 lbs/1000 ft. 79.200 lbs. 2 in.					
Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (Capplicable Standards & Environmental Programs	-65°C To +200°C 27 lbs/1000 ft. 79.200 lbs. 2 in.					
Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (Capplicable Standards & Environmental Programs EU Directive 2011/65/EU (ROHS II):	-65°C To +200°C 27 lbs/1000 ft. 79.200 lbs. 2 in. Overall) Yes					
Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (Capplicable Standards & Environmental Programs EU Directive 2011/65/EU (ROHS II): EU CE Mark:	-65°C To +200°C 27 lbs/1000 ft. 79.200 lbs. 2 in. Verall) Yes Yes					
Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (CApplicable Standards & Environmental Programs EU Directive 2011/65/EU (ROHS II): EU CE Mark: EU Directive 2000/53/EC (ELV):	-65°C To +200°C 27 lbs/1000 ft. 79.200 lbs. 2 in. Perall) Yes Yes Yes					
Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (Capplicable Standards & Environmental Programs EU Directive 2011/65/EU (ROHS II): EU CE Mark: EU Directive 2000/53/EC (ELV): EU Directive 2002/95/EC (RoHS):	-65°C To +200°C 27 lbs/1000 ft. 79.200 lbs. 2 in. Overall) Yes Yes Yes Yes					
Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (Capplicable Standards & Environmental Programs EU Directive 2011/65/EU (ROHS II): EU CE Mark: EU Directive 2000/53/EC (ELV): EU Directive 2002/95/EC (RoHS): EU RoHS Compliance Date (mm/dd/yyyyy):	-65°C To +200°C 27 lbs/1000 ft. 79.200 lbs. 2 in. Verall) Yes Yes Yes Yes O1/01/2005					
Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (C Applicable Standards & Environmental Programs EU Directive 2011/65/EU (ROHS II): EU CE Mark: EU Directive 2000/53/EC (ELV): EU Directive 2002/95/EC (ROHS): EU ROHS Compliance Date (mm/dd/yyyy): EU Directive 2002/96/EC (WEEE):	-65°C To +200°C 27 lbs/1000 ft. 79.200 lbs. 2 in. Verall) Yes Yes Yes Yes O/101/2005 Yes					
Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (Capplicable Standards & Environmental Programs EU Directive 2011/65/EU (ROHS II): EU CE Mark: EU Directive 2000/53/EC (ELV): EU Directive 2002/95/EC (ROHS): EU RoHS Compliance Date (mm/dd/yyyy): EU Directive 2002/96/EC (WEEE): EU Directive 2003/11/EC (BFR):	-65°C To +200°C 27 lbs/1000 ft. 79.200 lbs. 2 in. Overall) Yes Yes Yes Yes Yes Yes Yes Ye					

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	Other Specification:	NEMA HP3
Ple	num/Non-Plenum	
	Plenum (Y/N):	No
Elec	ctrical Characteristics (Overall)	
Non	n. Characteristic Impedance:	
	mpedance (Ohm)	
Non	n. Inductance:	
	nductance (µH/ft) 103	
Non	n. Capacitance Conductor to Conductor:	
	Capacitance (pF/ft)	
Non	n. Capacitance Cond. to Other Conductor & Shield:	
	Capacitance (pF/ft)	
Non	n. Conductor DC Resistance:	
	OCR @ 20°C (Ohm/1000 ft)	
Non	ninal Outer Shield DC Resistance:	
	DCR @ 20°C (Ohm/1000 ft)	
Max	. Operating Voltage - Non-UL:	
	Voltage 500 V RMS	
Max	. Recommended Current:	
	Current 3.1 Amps per conductor @ 25°C	
Not	es (Overall)	
	Notes: Teflon® is a registered trademark of E. I. duPont de Nemours	and Coursed under license by Relden Inc

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83321E 009100	100 FT	3.700 LB	WHITE	E	2 #18 TFE BRD TFE TAPE
83321E 0091000	1,000 FT	29.000 LB	WHITE	E	2 #18 TFE BRD TFE TAPE
83321E 009500	500 FT	15.000 LB	WHITE	E	2 #18 TFE BRD TFE TAPE

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

Revision Number: 4 Revision Date: 08-14-2012

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product.
Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

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