## **Detailed Specifications & Technical Data**



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

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 Ch	aracteris	stics (	Overall)				
Conductor AWG:							
			Conductor Mater				
2	18 1	9x30	SPC - Silver Plate	ed Copper			
Total Nur	nber of Co	nducto	rs:	2			
Insulation Insulation I	Material:						
Insulation	Trade Name	e Insula	tion Material	Wall Thickness (mm)			
Teflon®		TFE -	Tetrafluoroethylene	0.2794			
Insulation	n Resistano	ce:		100, 000 Megaohms/1000 ft. @ 500 V DC			
Outer Shield	-						
Outer Shiel							
	t <b>er Shield M</b> a C - Silver Plat		Coverage (%)				
Outer Jacke Outer Jack	-						
			er Jacket Material	Nom. Wall Thickness (mm)			
Teflon®		TFE	E - Tetrafluoroethyle				
		Code (	Chart:				
Overall N	ominal Dia	meter:		4.547 mm			
<b>Nechanical</b>	Charact	eristic	s (Overall)				
Operating	g Temperat	ture Ra	nge:	-65°C To +200°C			
Bulk Cab	le Weight:			40.181 Kg/Km			
Max. Rec	ommended	d Pullin	g Tension:	352.297 N			
Min. Ben	d Radius/M	linor A	cis:	50.800 mm			
	Specifica	ations	and Agency	Compliance (Overall)			
	-		/ironmental Pr				
	tive 2011/6			Yes			
EU CE Ma	ark:			Yes			
EU Direct	tive 2000/5	3/EC (E	LV):	Yes			
EU Direct	tive 2002/9	5/EC (R	oHS):	Yes			

# **Detailed Specifications & Technical Data**



### METRIC MEASUREMENT VERSION

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

EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005				
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				
Military Specification:	MIL-W-16878/4 (Type E except stranding) (insulated conductors)				
Other Specification:	NEMA HP3				
Plenum/Non-Plenum					
Plenum (Y/N):	No				
lectrical Characteristics (Overall)					
Iom. Characteristic Impedance:					
Impedance (Ohm)					
40					
lom. Inductance:					
Inductance (µH/m)					
0.337943					
Nom. Capacitance Conductor to Conductor:					
Capacitance (pF/m)					
101.711					
Nom. Capacitance Cond. to Other Conductor & Shi	ield:				
Capacitance (pF/m)					
173.237					
Iom. Conductor DC Resistance:					
DCR @ 20°C (Ohm/km) 18.1111					
Iominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/km)					
17.3893					
/ax. Operating Voltage - Non-UL:					
Voltage					
600 V RMS					
/ax. Recommended Current:					
Current					
8.1 Amps per conductor @ 25°C					
otes (Overall)					

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83321E 009100	30 MT	1.678 KG	WHITE	E	2 #18 TFE BRD TFE TAPE
83321E 0091000	305 MT	13.154 KG	WHITE	E	2 #18 TFE BRD TFE TAPE
83321E 009500	152 MT	6.804 KG	WHITE	E	2 #18 TFE BRD TFE TAPE

#### Notes:

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



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

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