Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION



7897A Multi-Conductor - DeviceBus® for ODVA DeviceNet™

For more Information please call

1-800-Belden1



General Description:

15 and 18 AWG stranded tinned copper conductors, PVC/Nylon insulation (power), FEP insulation (data), individually foil shielded (100% coverage) plus an overall tinned copper braid (65% coverage), sunlight/oil-resistant PVC jacket.

Physical	Chara	acteri	stics (Overall)					
Conducto AWG:								
# Pair	s AWG	Strandi	ng Conductor Material					
1	15	19x28	TC - Tinned Copper					
1	18	19x30	TC - Tinned Copper					
Total	Numbe	r of Co	onductors:	4				
Insulatio	n							
Insulati	on Mate	erial:						
PVC/N	-	olyvinyl	AWGChloride/Nylon15rlene Propylene18					
Inner Shi Inner Sl		aterial:	:					
Layer			nner Shield Material	Coverage (%)				
			Aluminum Foil-Polyester Tape					
18 AV	/G Pair	Tape A	Aluminum Foil-Polyester Tape	100				
	hield M	hield M	aterial Coverage (%)					
Outer S	hield D	rain W	ire AWG:					
AWG		ng Drai	n Wire Conductor Material Tinned Copper					
Outer Ja	cket							
Outer Ja	acket M	ateria	:					
	Jacket N Polyviny		Nom. Wall Thickness (m de 1.524	n)				
Overall C	able							
Overa	ll Nomi	nal Dia	ameter:	11.684	mm			
Pair Pair Col	lor Cod	e Char	rt:					
	er /G Pair /G Pair							
/ lechanio	cal Ch	aract	eristics (Overall)					
			. /					

Operating Temperature Range:

-20°C To +75°C

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Non-UL Temperature Rating:	-	75°C		
Bulk Cable Weight:	:	200.90)7 Kg/Km	
Max. Recommended Pulling Tension:	ł	845.15	58 N	
Min. Bend Radius/Minor Axis:	······································	111.76	60 mm	
pplicable Specifications and Agen	cy Compl	lianc	e (Overal)
Applicable Standards & Environmenta			•	
NEC/(UL) Specification:	-	TC-EF	R	
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/yyy	y):	04/01/	05	
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:		ODVA	Class 1 Thio	:k
Flame Test				
UL Flame Test:		UL168	5 UL Loadin	g
Suitability	-	. /		
Sunlight Resistance:		Yes		
Oil Resistance:		Yes		
Plenum/Non-Plenum Plenum (Y/N):		No		
electrical Characteristics (Overall)				
Unaveraged Impedance: Description Freq. (MHz) Start Freq. (MH	z) Stop Freg.	(MHz)	Impedance (Ohm)
18 AWG Pair Only 5	,	(120	,
Nom. Capacitance Conductor to Conductor	:			
Description Freq. (MHz) Start Freq. (MH	z) Stop Freq.	(MHz)	Capacitance 39.372	(pF/m)
18 AWG Pair Only 1	1		39.312	
Nominal Velocity of Propagation: Description VP (%)				
18 AWG Pair Only 75				
Maximum Delay:				_
Description Freq. (MHz) Start Freq. (MH 18 AWG Pair Only	z) Stop Freq.	(MHz)	Delay (ns/m) 4.46216	
Nom. Conductor DC Resistance:	1		7.70210]
Description DCR @ 20°C (Ohm/km)				
15 AWG 11.8116				
18 AWG 22.6389				
Nominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/km)				
5.9058				
Max. Attenuation:				
Operation Freq. (MHz) 0.42653 18 AWG Pair Only .125				

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0.82025	.500
1.3124	1.0

Max. Operating Voltage - UL:

Voltage

600 V RMS (NEC Type TC)

Max. Recommended Current:

Description Current

15 AWG 8.0 Amps per conductor @ 25°C

Notes (Overall)

Notes: High Velocity. Thick. Meter marks on jacket to aid users in installation. ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark. Jacket printed "1PR16" instead of "1PR15" due to UL requirements for CMG Listing.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7897A T5U1000	1,000 FT	144.000 LB	GRAY T5U	С	2 #15 PVC/NYL,2#18 FFEP SH PVC
7897A T5U2000	2,000 FT	274.000 LB	GRAY T5U	С	2 #15 PVC/NYL,2#18 FFEP SH PVC
7897A T5U500	500 FT	69.500 LB	GRAY T5U	С	2 #15 PVC/NYL,2#18 FFEP SH PVC

Notes:

C = CRATE REEL PUT-UP.

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