Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

3109A Multi-Conductor - EIA Industrial RS-485 PLTC/CM



For more Information please call





Description:

22 AWG stranded (7x30) tinned copper conductors, Datalene® insulation, twisted pairs, overall Beldfoil® shield (100% coverage) plus a tinned copper braid (65% coverage), drain wire, UV resistant PVC jacket.

•	I Characteristics			- 0 - 7,
Conduct AWG:		. ,		
	irs AWG Stranding Con	ductor Mater	ial Dia. (mm)	
4	22 7x30 TC -	Tinned Copp	er 0.762	
Total	Number of Conducto	ors:	8	
nsulatio				
	ion Material:			
	lation Trade Name Insula lene® FHDP	I h Density Polyethylene		
uter Sl Outer S	hield Shield Material:			
	r # Outer Shield Trade N	ame Type (Outer Shield Material	Coverage (%)
1	Beldfoil®		Aluminum Foil-Polyester Tape	
2		Braid	C - Tinned Copper	65.000
Oute PVC Overall Overall Num	Jacket Material: r Jacket Material - Polyvinyl Chloride Cable I Cabling Color Code ber Color			
1	White/Blue Stripe & B			
2	White/Orange Stripe & White/Green Stripe &	•		
4	White/Brown Stripe &			
Over	all Nominal Diameter:	:	 11.379 mm	I
lechani	ical Characteristic	cs (Overa	all)	
Operating Temperature Range:			-20°C To +	60°C
Non-UL Temperature Rating:			60°C	
Bulk Cable Weight:			143.462 Kg	J/Km
Max.	Recommended Pullir	ng Tension:	444.820 N	
Min.	Bend Radius/Minor A	xis:	139.700 mi	n

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VARIAGE AND SPACIFICATIONS and Adapev Co		
Applicable Specifications and Agency Co		
Applicable Standards & Environmental Progr NEC/(UL) Specification:	CM, PLTC OIL RES II	
CEC/C(UL) Specification:	CM	
EU Directive 2000/53/EC (ELV):	Yes	
EU Directive 2002/95/EC (RoHS):	Yes	
EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005	
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	
Flame Test		
UL Flame Test:	UL1685 UL Loading	
CSA Flame Test:	FT1	
Suitability Sunlight Resistance:	Passes UL 1581, 720 Hours	
Plenum/Non-Plenum	1 03555 OL 1301, 120 110015	
Plenum/Non-Plenum Plenum (Y/N):	No	
Capacitance (pF/m) 36.091 Nom. Capacitance Cond. to Other Conductor & Shi	eld:	
36.091 Nom. Capacitance Cond. to Other Conductor & Shi Capacitance (pF/m) 68.5729	eld:	
Capacitance (pF/m) 36.091 Nom. Capacitance Cond. to Other Conductor & Shi Capacitance (pF/m) 68.5729 Nominal Velocity of Propagation: VP (%) 78 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 48.2307 Nominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/km) 4.5934	eld:	
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Capacitance (pF/m) 36.091 Nom. Capacitance Cond. to Other Conductor & Shi Capacitance (pF/m) 68.5729 Nominal Velocity of Propagation: VP (%) 78 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 48.2307 Nominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/km) 4.5934 Nom. Attenuation: Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (1 Max. Operating Voltage - UL: Voltage 300 V RMS Max. Recommended Current: Current	MHz) Attenuation (dB/100m) 1.6405	



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Notes (Overall)

Notes: Oil Resistance: Passes Oil Res II Per UL1277, Table 10.17. For CPE jacketed version order Part No. YR44768.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3109A 0101000	305 MT	40.824 KG	BLACK	С	4 PR #22 FHDPE SH PVC
3109A 0102000	610 MT	81.647 KG	BLACK	С	4 PR #22 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 02-19-2009

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