



# Part Number: 3109DB

RS-485UL DIR BUR, 4 Pr, 22AWG, Str, TC, PO Ins, OS+TC Brd, CPE Jkt, CM, PLTC, Outdoor, Sun Res, Oil Res

# **Product Description**

RS-485 UL direct burial foil and braid shielded 120 Ohm low voltage low capacitance computer cable, 4 pair 22AWG stranded tinned copper Datalene® insulated conductors with CPE jacket, CM, PLTC, outdoor sun-resistant and oil-resistant

### **Technical Specifications**

### **Physical Characteristics (Overall)**

#### Conductor

AWG	Stranding	Material	Nominal Diam	neter	No. of Pairs
22	7x30	TC - Tinned Copper	0.03 in		4
Conductor Count:		8			
Total Number of Pairs:			4		

#### Insulation

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
FHDPE - Foamed High Density Polyethylene	Datalene®	0.075 in	0.023 in

#### **Color Chart**

Number	Color
1	White/Blue Stripe & Blue/White Stripe
2	White/Orange Stripe & Orange/White Stripe
3	White/Green Stripe & Green/White Stripe
4	White/Brown Stripe & Brown/White Stripe

#### **Outer Shield Material**

Туре	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Таре	1	Aluminum/Polyester	Beldfoil®	100.0 %	TC - Tinned Copper	22
Braid	2	TC - Tinned Copper		65.0 %		

### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Separator Material
CPE - Chlorinated Polyethylene	0.484 in	0.053 in	Water resistant tape (over braid, under jacket)

### **Electrical Characteristics**

Conductor DCR			
Nominal Conductor DCR	Nominal Outer Shield DCR		
14.7 Ohm/1000ft	2.95 Ohm/1000ft		
Capacitance			

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
11 pF/ft	20.9 pF/ft

#### Impedance

Nominal Characteristic Impedance 120 Ohm High Frequency (Nominal/Typical)

# Nom. Insertion Loss

0.5 dB/100ft

# Delay

Nominal Velocity of Propagation (VP) [%] 78.0 %

#### Current

Max. Recommended Current [A] 2.7 Amps per conductor @ 25°C

### Voltage

UL Voltage Rating
0 V RMS (NEC Type PLTC
0 V RMS (NEC Type CM)
ectrical Characteristics Note

### **Temperature Range**

Non-UL Temp Rating:	60°C
UL Temp Rating:	60°C
Operating Temp Range:	-20°C To +60°C

### **Mechanical Characteristics**

Oil Resistance:	Yes
UV Resistance:	Sunlight Res
Bulk Cable Weight:	58 lbs/1000ft
Max Recommended Pulling Tension:	80 lbs
Min Bend Radius/Minor Axis:	4.8 in

### **Standards**

NEC/(UL) Specification:	CM, PLTC
CEC/C(UL) Specification:	СМ

# **Applicable Environmental and Other Programs**

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-10-01
CA Prop 65 (CJ for Wire & Cable):	Yes

# Suitability

Suitability - Burial:	Yes - UL
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

# Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT1
ISO/IEC Flammability:	IEC 60332-1-2
Product Notes	

History

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