



**Part Number: 3108A**

RS485, 3 Pr #22 Str TC, PO Ins, OS+TC Brd, PVC Jkt, CM

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**Product Description**

RS-485, 3 Pair 22AWG (7x30) Tinned Copper, PO Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, PVC Outer Jacket, CM

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	7x30	TC - Tinned Copper	0.03 in	3

Conductor Count:	6
Total Number of Pairs:	3

**Insulation**

Material	Material Trade Name	Nominal Wall Thickness
FHDPE - Foamed High Density Polyethylene	Datalene®	0.0225 in

**Color Chart**

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

**Outer Shield Material**

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	0.03 mm	22	7x30 mm
Braid	2	TC - Tinned Copper		65 %				

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.374 in	0.053 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR	Nominal Outer Shield DCR
14.7 Ohm/1000ft	2.6 Ohm/1000ft

**Capacitance**

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

**Inductance**

Element	Nominal Inductance
Pair	0.225 µH/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 %

**Current****Max. Recommended Current [A]**

2.7 Amps per conductor @ 25°C

**Voltage****UL Voltage Rating**

300 V RMS

Electrical Characteristics Notes: Input Impedance/Unfitted Impedance: .5 - 10 MHZ, 120 + - 12 Ohms

**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
Bulk Cable Weight:	85 lbs/1000ft
Max Recommended Pulling Tension:	90 lbs
Min Bend Radius/Minor Axis:	4.25 in

**Standards**

NEC Articles:	800, 725
NEC/(UL) Specification:	CM, PLTC
CEC/C(UL) Specification:	CM
CPR Euroclass:	Eca

**Applicable Environmental and Other Programs**

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	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 RoHS Compliance Date (yyyy-mm-dd):	2005-10-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

**Suitability**

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

**Flammability, LSOH, Toxicity Testing**

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT1
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

**Plenum/Non-Plenum**

Plenum (Y/N): No

## Part Number

### Variants

Item #	Color	UPC	Length	Footnote
3108A 0101000	Black	612825141730	1,000 ft	C
3108A 0102000	Black	612825141747	2,000 ft	C
3108A 0105000	Black	612825141754	5,000 ft	

Footnote: C - CRATE REEL PUT-UP.

## Product Notes

Notes: Oil Resistance: Passes Oil Res II Per UL1277, Table 10.17. For CPE jacketed version order YR45287.

## History

Update and Revision: Revision Number: 0.306 Revision Date: 08-22-2019

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