



Product: [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: 0.307 Revision Date: 12-19-2019

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