



Part Number: 3105A

RS-485, (1 pr) 22 AWG (7x30) TC, FHDPE/PVC, Foil+TC Braid Shld, CM, PLTC

Product Description

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

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	7x30	TC - Tinned Copper	0.03 in	1

Conductor Count: 2

Insulation

Material	Material Trade Name
FHDPE - Foamed High Density Polyethylene	Datalene®

Color Chart

Number	Color
1	White/Blue Stripe and Blue/White Stripe

Outer Shield Material

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

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.281 in

Construction and Dimensions

Stranding

Lay Length
3.75 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
14.7 Ohm/1000ft	2.8 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 %

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

2.7 Amps per conductor @ 25°C

Voltage**UL Voltage Rating**

300 V RMS (NEC Type PLTC)

300 V RMS (NEC Type CM)

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	44 lbs/1000ft
Max Recommended Pulling Tension:	60 lbs
Min Bend Radius/Minor Axis:	2.8 in

Standards

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 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	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
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Oil Resistance:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT1

Part Number

Plenum (Y/N): No

Variants

Item #	Color
3105A.001000	BLACK
3105A.00152	BLACK
3105A.001525	BLACK
3105A.00305	BLACK
3105A.003050	BLACK
3105A.00610	BLACK
3105A 0101000	BLACK
3105A 010500	BLACK
3105A 0105000	BLACK
3105A 01010000	BLACK

Product Notes

Notes:	Oil Resistance: Passes Oil Res II Per UL1277, Table 10.17. For CPE jacketed version order Part No. YR44345.
Footnote:	CRATE REEL PUT-UP.
Footnote:	FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

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