



**Part Number:** 123107A

RS-485, (2 pr) 22 AWG (7x30) TC, FHDPE/PVC, Foil+TC  
Braid Shld, Alum Armor

## Product Description

Two 22 AWG pairs stranded (7x30) tinned copper conductor, Datalene® insulation, PVC inner jacket, overall Beldfoil® shield (100% coverage) plus tinned copper braid shield (65% coverage), aluminum interlocked armor, PVC outer jacket.

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	7x30	TC - Tinned Copper	0.03 in	2
<b>Total Number of Conductors:</b>				4

#### Insulation:

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

#### Color Chart 1:

Number	Color
1	White/Blue Stripe & Blue/White Stripe
2	White/Orange Stripe & Orange/White Stripe

#### Stranding:

Lay Length
Yes mm

#### Outershield 1:

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

#### Outerjacket 1:

Material	Nominal Diameter	Separator Material
PVC - Polyvinyl Chloride	0.65 in	PVC - Polyvinyl Chloride

#### Armor:

Type of Armor	Material	Diameter over Armoring
Interlocked Armor	Aluminum	0.55 mm

## Electrical Characteristics

#### Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
14.7 Ohm/1000ft	1.8 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 %

#### High Freq:

Frequency [MHz]
1 MHz
1 MHz

## Current:

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

## Voltage:

UL Voltage Rating
300 V RMS

## Use

Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	205 lbs

## Safety

CSA Flammability:	FT4
UL Flammability:	UL1685 UL Loading

## Temperature Range

Installation Temp Range:	-20°C To +60°C
Non-UL Temp Rating:	60°C
Operating Temp Range:	-40°C To +60°C
UL Temp Rating:	60°C

## Mechanical Characteristics

Min Bend Radius/Minor Axis:	8.5 in
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## Part Number

## Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

## Product Variants

Part Number	Color	Put-Up Type	Length
123107A 0105000	BLACK	Reel	5000 ft

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