



**Part Number:** 3106A

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

## Product Description

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

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Conductors	No. of Pairs
22	7x30	TC - Tinned Copper	0.03 in	1	1
<b>Total Number of Conductors:</b>				3	

#### Insulation:

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

#### Color Chart 1:

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

**Stranding:**

Lay Length
3 in

**Outershield 1:**

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 %			

**Outerjacket 1:**

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.3 in

<b>Print Legend:</b>	BELDEN 3106A E34972 3C22 SHIELDED (UL) CM OR PLTC SUN RES OR C(UL) CM --- FT4
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**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

<b>Other Electrical Characteristic 1:</b>	Input Impedance/Unfitted Impedance .5 - 10 MHZ, 120 +-12 Ohms
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**Impedance:**

Nominal Characteristic Impedance Description
120

**High Frequency (Nominal/Typical):**

Nom. Insertion Loss
0.5 db/100ft

**Delay:**

Nominal Velocity of Propagation (VP) [%]
78 %

**High Freq:**

Frequency [MHz]
1 MHz

## Current:

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

## Inductance:

Nominal Inductance
0.203 $\mu$ H/ft

## Voltage:

UL Voltage Rating
300 V RMS (NEC Type PLTC)
300 V RMS (NEC Type CM)

## Use

Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	65 lbs

## Safety

CSA Flammability:	FT1
UL Flammability:	UL1685 UL Loading

## Temperature Range

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

## Mechanical Characteristics

Min Bend Radius/Minor Axis:	3 in
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## Part Number

Plenum (Y/N):	No
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## Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) Specification
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)

<b>NEC/(UL) Specification:</b>	NEC/(UL) Specification
<b>EU Directive Compliance:</b>	EU Directive 2003/11/EC (BFR)
<b>EU CE Mark:</b>	EU CE Mark

## History

<b>Notes:</b>	Oil Resistance: Passes Oil Res II Per UL1277, Table 10.17. For CPE jacketed version order YR46721.
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## Product Variants

Part Number	Color	Put-Up Type	Length
3106A 0101000	BLACK	Reel	1000 ft
3106A 0105000	BLACK	Reel	5000 ft
3106A 010500	BLACK	Reel	500 ft
3106A.001525	BLACK	Reel	1525 ft
3106A.00152	BLACK	Reel	152 ft
3106A.00305	BLACK	Reel	305 ft

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