



**Part Number:** 3107A

RS-485, (2 pr) 22 AWG (7x30) TC, FHDPE,PVC, Foil+TC  
Braid Shld, CM, PLTC

## Product Description

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

## Product Specifications

### AG.Filter Attributes

Total Number of Conductors:	4
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### CCB-Sub-Part Number

Print Legend:	BELDEN 3107A E34972 2PR22 SHIELDED (UL) CM OR PLTC SUN RES OR C(UL) CM — FT1
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## Technical Specifications

### AG\_0401

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT1

### APAC Standard

MII Order #39 (China RoHS):	Yes
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### Applicable Patents

Patent:	<a href="http://www.belden.com/p">http://www.belden.com/p</a>
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## Bend Radius

Min Bend Radius/Minor Axis:	3.5 in
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## CCB-Sub-Part Number

Plenum (Y/N):	No
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## Contact Information

PHONE_NUM:	1-800-Belden1
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## EU Directive

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

## General Electrical Parameters

Other Electrical Characteristic 1:	Input Impedance/Unfitted Impedance .5 - 10 MHz, 120 +-12 Ohms
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## North American Standard

CA Prop 65 (CJ for Wire & Cable):	Yes
CEC/C(UL) Specification:	CM
NEC/(UL) Specification:	CM, PLTC

## Unused Attributes

Notes:	Oil Resistance: Passes Oil Res II Per UL1277, Table 10.17. For CPE jacketed version order YR46792.
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## Use

Suitability - Oil Resistance:	Yes - Oil Res II
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	80 lbs

## Impedance:

Nominal Characteristic Impedance
120 Ohm

## Conductor DCR:

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

**Color Chart 1:**

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

**Delay:**

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

**Voltage:**

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

**Current:**

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

**High Freq:**

Frequency [MHz]
1 MHz

**Capacitance:**

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

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

Nom. Insertion Loss
0.5 dB/100ft

**Stranding:**

Lay Length
3.75 in

**Insulation:**

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

### Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.35 in

### Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	7x30	TC - Tinned Copper	0.03 in	2

### Other Electrical Information:

Other Electrical Characteristic 1	Input Impedance/Unfitted Impedance .5 - 10 MHz, 120 ±12 Ohms
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### 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 %

## Product Variants

Part Number	Color	Put-Up Type	Length
3107A			
3107A	BLACK	Reel	305 m
3107A 0101000	BLACK	Reel	1000 ft
3107A	BLACK	Reel	778 m
3107A			
3107A	BLACK	Reel	1219 m
3107A 0104000	BLACK	Reel	4000 ft
3107A			
3107A	BLACK	Reel	1524 m
3107A 0105000	BLACK	Reel	5000 ft
3107A	BLACK	Reel	305 m
3107A.001220	BLACK	Reel	1220 m
3107A.001525	BLACK	Reel	1525 m
3107A.00305	BLACK	Reel	305 m
3107A.01305	GREEN	Reel	305 m
3107A			

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