



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

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	7x30	TC - Tinned Copper	0.03 in	2
Total Number of Conductors:				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
3.75 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	0.35 in

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

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

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)

Use

Suitability - Oil Resistance:

Yes - Oil Res II

Suitability - Sunlight Resistance:

Yes

Max Recommended Pulling Tension:

80 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:

3.5 in

Part Number

Plenum (Y/N):

No

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)

NEC/(UL) Specification:

NEC/(UL) Specification

EU Directive Compliance:

EU Directive 2003/11/EC (BFR)

EU CE Mark:

EU CE Mark

History

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

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

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