



Part Number: 3108A

RS-485, (3 pr) 22 AWG (7x30) TC, FHDPE,PVC, Foil+TC
Braid Shld, CM, PLTC

Product Description

Three 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	3
Total Number of Conductors:				6

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
3	White/Green Stripe & Green/White Stripe

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
PVC - Polyvinyl Chloride	0.414 in
Print Legend:	BELDEN 3108A E34972 3PR22 SHIELDED (UL) CM OR PLTC SUN RES OR C(UL) CM --- FT1

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
14.7 Ohm/1000ft	1.5 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

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

Inductance:

Element	Nominal Inductance
Pair	0.225 μ H/ft

Voltage:

UL Voltage Rating
300 V RMS

Use

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Max Recommended Pulling Tension:	90 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:	4.25 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)
NEC Articles:	NEC Articles
NEC/(UL) Specification:	NEC/(UL) Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)

History

Notes:

Oil Resistance: Passes Oil Res II Per UL1277, Table 10.17. For CPE jacketed version order YR45287.

Product Variants

Part Number	Color	Put-Up Type	Length
3108A 0101000	BLACK	Reel	1000 ft
3108A 0102000	BLACK	Reel	2000 ft
3108A 0105000	BLACK	Reel	5000 ft

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