



REPRESENTATIVE IMAGE

**Product:** [3109A](#)

RS485, 4 Pr #22 Str TC, PE Ins, OS+TC Brd, PVC Jkt, CM, PLTC, Oil Resistant

[Request Sample](#)

### Product Description

RS-485, 4 Pair 22AWG (7x30) Tinned Copper, PE Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, PVC Outer Jacket, CM, PLTC, and oil-resistant

### Technical Specifications

Suitable Applications: harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.

#### Conductor

Element	Number of Element	AWG	Stranding	Material
Pair(s)	4	22	7x30	TC - Tinned Copper

#### Insulation

Element	Material	Thickness	Color Code	Notes
Pair(s)	PE - Polyethylene (Foam)	0.023 in	White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe, White/Green Stripe & Green/White Stripe, White/Brown Stripe & Brown/White Stripe	HDPE

#### Outer Shield Material

Shield Type	Material	Coverage	Drainwire Type
Tape + Braid	Bi-Laminate (Alum+Poly) + Tinned Copper (TC)	100% + 65%	22 AWG (7x30) TC

#### Outer Jacket Material

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.053 in	0.448 in

Cable Diameter (Nominal): 0.448 in

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	14.7 Ohm/1000ft	11 pF/ft	20.9 pF/ft	120 Ohm	78%	2.7 Amps per Conductor at 25°C

Nom Outer Shield DCR: 2.53 Ohm/1000ft

#### High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss
Pair(s)	1 MHz	0.5 dB/100ft

#### Voltage

UL Voltage Rating
300 V (CM, PLTC)

#### Temperature

UL Rating	Operating
80°C	-20°C to +60°C

#### Bend Radius

Stationary Min.	Installation Min.
5.5 in	5.5 in

Max. Pull Tension: 100 lbs

Bulk Cable Weight:	96.4 lbs/1000ft
Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance
Flammability / Fire Resistance:	UL1685 UL Loading, FT1, IEC 60332-1-2
NEC / UL Compliance:	Article 725, Article 800, CM, PLTC
CEC / C(UL) Compliance:	CM
CPR Euroclass:	Eca
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Notes:	Oil Resistance: Passes Oil Res II Per UL1277, Table 10.17, For CPE jacketed version order Part No. YR44768.
Update and Revision:	Revision Number: 0.381 Revision Date: 09-30-2020

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