BELDEN
SENDING ALL THE RIGHT SIGNALS

Product: 133108A

RS485, 3 Pr #22 Str TC, PE Ins, OS+TC Brd, PVC Jkt, SIA Armor, PVC Jkt, CM, PLTC

Product Description

RS-485, 3 Pair 22AWG (7x30) Tinned Copper, PE Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, PVC Inner Jacket, Steel Interlock Armor, PVC Outer Jacket, CM, PLTC

Technical Specifications

Suitable Applications:	exposure to rodent, crush, or cut through force, burial, serial communication (RS-485 standard) comprising of PLCs, VFDs, HMIs, motors, RTU, SCADA, etc. within noisy environments over long distance, outdoor such as solar, lighting, etc.

Conductor

Element	Number of Element	AWG	Stranding	Material
Pair(s)	3	22	7x30	TC - Tinned Copper

Insulation

Element	Material	Thickness	Nom. Insulation Diameter	Color Code	Notes
Pair(s)	PE - Polyethylene (Foam)	0.023 in	0.075	White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe, White/Green Stripe & Green/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

Inner Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.374 in

Armor

Armor Type & Material
SIA - Steel Interlock Armor

Outer Jacket Material

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.050 in	0.723 in

Cable Diameter (Nominal):	0.723 in

Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Characteristic Impedence	Nom. Velocity of Prop.
Pair(s)	17.5 Ohm/1000ft	1.5 Ohm/1000ft			120 Ohm	78%
			11.0 pF/ft	20.90 pF/ft	120 Ohm	

High Frequency (Nominal/Typical)

Element	Frequency [MHz]
Pair(s)	125 kHz
	500 kHz

High Freq

Max. Insertion Loss (Attenuation)
0.29 dB/100ft

0.5 dB/100ft

Voltage

UL Voltage Rating
300 V (CM, PLTC)

Temperature

UL Rating	Operating
60°C	-25°C to +60°C

Table Notes:	-40C
Max. Pull Tension:	200 lbs
Bulk Cable Weight:	427 lbs/1000ft
Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL 1685 Vertical Tray
NEC / UL Compliance:	Article 725, Article 800, CM, PLTC
CEC / C(UL) Compliance:	CMG HLBCD
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)
Update and Revision:	Revision Number: 0.46 Revision Date: 09-30-2020