



**Product:** [78102](#) 

ECOCABLE, 2C #28, Str, Modified Polyphenylene Ether-PE, 300 V, AWM/STYLE 21460 80C, VW-1, CSA C(RU) AWM I A/B FT1

## Product Description

ECOCABLE, 2 Conductor 28 AWG (19/40) TC - Tinned Copper, Modified Polyphenylene Ether-PE Insulation, Overall Aluminum/Polyester Shield, Slate Modified Polyphenylene Ether-PE Outer Jacket, AWM/STYLE 21460 80C, VW-1, CSA C(RU) AWM I A/B FT1 C(RU) AWM I A/B FT1 UL VW-1

## Technical Specifications

### Product Overview

Suitable Applications:	Data, communication, audio, and low-level signal transmission; industrial networking, serial communication, control panels, automation equipment, and instrumentation systems.
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### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	2	28 AWG	19x40	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	mPPE - Modified Polyphenylene Ether	0.007 in (0.18 mm)	0.030 in (0.76 mm)	Black, Brown

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	28 AWG (7x36) TC

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
mPPE - Modified Polyphenylene Ether	0.015 in (0.38 mm)	0.098 in (2.5 mm)	Yes

Overall Cable Diameter (Nominal):	0.098 in (2.5 mm)
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### Electrical Characteristics

#### Electricals

Element	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Inductance
Conductor(s)	26 pF/ft (85 pF/m)	47 pF/ft (150 pF/m)	63 Ohm	0.19 µH/ft (0.62 µH/m)

Nom Outer Shield DCR:	41 Ohm/1000ft (130 Ohm/km)
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#### Voltage

UL Voltage Rating
300 V (AWM 21460), 300 V (CSA AWM)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
80°C	-40°C To +80°C

#### Bend Radius

**Stationary Min.**

1.0 in (25 mm)

Max. Pull Tension: 19 lbs (8.6 kg)

**Standards and Compliance**

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL VW-1, FT1
AWM Compliance:	AWM 21460, AWM I A/B
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

**Product Notes**

Notes:	Alpha Wire -* P/N 78102 2C 28 AWG ECOCABLE(R) MINI RU AWM 21460 80C 300V VW-1 C(RU) AWM I A/B FT1 80C 300V CE ROHS (SEQ FOOTAGE)
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**History**

Update and Revision:	Revision Number: 0.13 Revision Date: 06-30-2026
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**Part Numbers****Variants**

Item #	Color	Putup Type	Length
78102 SL199	Black	Cut to Length	1 ft
78102 SL005	Black	Reel	100 ft
78102 SL001	Black	Reel	1,000 ft

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