



**Product:** [78413](#) 

ECOCABLE, 20C #24, Str, Modified Polyphenylene Ether-PE, 300 V, AWM/STYLE 21460 80C, VW-1, CSA C(RU) AWM I A/B FT1

## Product Description

ECOCABLE, 20 Conductor 24 AWG (19/36) 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)	20	24 AWG	19x36	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)	0.039 in (0.99 mm)	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Slate, White, White/Black, White/Brown, White/Red, White/Orange, White/Yellow, White/Green, White/Blue, White/Violet, White/Slate, White/Black/Brown

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
mPPE - Modified Polyphenylene Ether	0.015 in (0.38 mm)	0.242 in (6.15 mm)	Yes

Overall Cable Diameter (Nominal):	0.242 in (6.15 mm)
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### Electrical Characteristics

#### Electricals

Element	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Inductance
Conductor(s)	30 pF/ft (98 pF/m)	54 pF/ft (180 pF/m)	0.17 µH/ft (0.56 µH/m)

Nom Outer Shield DCR:	159 Ohm/1000ft (522 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.**

2.4 in (61 mm)

Max. Pull Tension: 364 lbs (165 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 78413 20C 24 AWG ECOCABLE(R) MINI RU AWM 21460 80C 300V VW-1 C(RU) AWM I A/B FT1 80C 300V CE ROHS (SEQ FOOTAGE)

**History**

Update and Revision: Revision Number: 0.19 Revision Date: 06-30-2026

**Part Numbers****Variants**

Item #	Color	Putup Type	Length
78413 SL005	Black	Reel	100 ft

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