



**Product:** [78249](#) 

ECOCABLE, 9PR #20, Str, Modified Polyphenylene Ether-PE, 300 V, AWM/STYLE 21460 80C, VW-1, CSA C(RU) AWM I A/B FT1

## Product Description

ECOCABLE, 9 Pair 20 AWG (19/32) 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
Pair(s)	9	20 AWG	19x32	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	mPPE - Modified Polyphenylene Ether	0.007 in (0.18 mm)	0.054 in (1.4 mm)	Black-Red, Black-White, Black-Green, Black-Blue, Black-Brown, Black-Yellow, Black-Orange, Red-Green, Red-White

#### Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
mPPE - Modified Polyphenylene Ether	0.015 in (0.38 mm)	0.400 in (10.2 mm)	Yes

Overall Cable Diameter (Nominal):	0.400 in (10.2 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
Pair(s)	43 pF/ft (140 pF/m)	77 pF/ft (250 pF/m)	38 Ohm	0.15 µH/ft (0.49 µH/m)

Nom Outer Shield DCR:	75 Ohm/1000ft (250 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.
4.0 in (100 mm)

Max. Pull Tension: 102 lbs (46.3 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 78249 9PR 20 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: 0.68 Revision Date: 06-30-2026

## Part Numbers

### Variants

Item #	Color
78249 SL005	Black and Red

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