



**Product:** [78144](#) 

ECOCABLE, 4C #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, 4 Conductor 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. |
|------------------------|--|

### Construction Details

#### Conductor

| Element      | No. of Elements | Size   | Stranding | Material           |
|--------------|-----------------|--------|-----------|--------------------|
| Conductor(s) | 4               | 20 AWG | 19x32     | 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) | 0.054 in (1.4 mm)        | Black, Red, White, Green |

#### 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) | 0.169 in (4.29 mm) | Yes     |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.169 in (4.29 mm) |
|-----------------------------------|--------------------|

### Electrical Characteristics

#### Electricals

| Element      | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Inductance        |
|--------------|-------------------------------|---|------------------------|
| Conductor(s) | 37 pF/ft (120 pF/m)           | 67 pF/ft (220 pF/m)                             | 0.15 µH/ft (0.49 µH/m) |

|                       |                            |
|-----------------------|----------------------------|
| Nom Outer Shield DCR: | 82 Ohm/1000ft (270 Ohm/km) |
|-----------------------|----------------------------|

#### 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.**

1.7 in (43 mm)

Max. Pull Tension: 9.1 lbs (4.1 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 78144 4C 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: 0.13 Revision Date: 06-30-2026 |
|----------------------|---|

**Part Numbers****Variants**

| Item #      | Color |
|-------------|-------|
| 78144 SL001 | Black |
| 78144 SL005 | Black |

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