



Product: [80141](#) 

ECOFLEX PUR, 2C #16, Str, MPPE, 600 V, AWM/STYLE 11231 105C, AWM/STYLE 21959 90C, 60C OIL, SUN RES, CSA C(RU) AWM I/II A/B, CSA FT2

Product Description

ECOFLEX PUR, 2 Conductor 16 AWG (65/34) TC - Tinned Copper, MPPE Insulation, Overall Tinned Copper Shield, Slate Polyurethane, Zero Halogen (ZH) Outer Jacket, AWM/STYLE 11231 105C, AWM/STYLE 21959 90C, 60C OIL, SUN RES, CSA C(RU) AWM I/II A/B, CSA FT2 C(RU) AWM I/II A/B, FT2 UL FT2; CSA FT2; EN 60754-1 Acid Gas Generation; EN 60754-2 Acid Gas Generation; EN 60332-1 Flame Behavior; EN 60332-2 Flame Behavior

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	16 AWG	65x34	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	mPPE - Modified Polyphenylene Ether	0.012 in (0.30 mm)	0.080 in (2.0 mm)	Green/Yellow, Black#1

Outer Shield

Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	85%

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PUR - Polyurethane (Halogen Free)	0.032 in (0.81 mm)	0.256 in (6.50 mm)

Overall Cable Diameter (Nominal):	0.256 in (6.50 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)	43 pF/ft (140 pF/m)	77 pF/ft (250 pF/m)	40 Ohm	0.16 μH/ft (0.52 μH/m)

Nom Outer Shield DCR:	37 Ohm/1000ft (120 Ohm/km)
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Voltage

UL Voltage Rating	Voltage Rating
600 V (AWM 11231, AWM 21959)	600 V (CSA AWM)

Mechanical Characteristics

Temperature

UL Temperature	Operating	Installation
105°C	-50°C To +90°C	-40°C To +80°C

Bend Radius

Stationary Min.

2.6 in (66 mm)

Max. Pull Tension: 8.7 lbs (3.9 kg)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL1685 FT2 Loading, FT2, IEC 60332-1-2, IEC 60332-2-2
AWM Compliance:	AWM 21959, AWM I/II A/B
ISO/IEC Compliance:	IEC 60754-1, IEC 60754-2, IEC 60228 Class 6
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 80141 2C 16 AWG RU AWM STYLE 21959 90C 600V SUN RES 60C OIL OR CRU AWM I/II A/B 90C 600V FT2 --- IEC EN 60332-1/2 CE ROHS (SEQ FOOTAGE)
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History

Update and Revision:	Revision Number: 0.15 Revision Date: 06-30-2026
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Part Numbers**Variants**

Item #	Color	Putup Type	Length
80141 SL005	Green/Yellow	Reel	100 ft

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