



Product: [86163CY](#) 

XTRAGUARD FLEX, 3C #16, Str, PVC, Semi Rigid, 300 V, AWM/STYLE 10002 105C, AWM/STYLE 2661 105C, CM 105C, SUN RES, PLTC 105C, CSA AWM I/II A/B, CSA C(UL) TYPE CMG, CSA FT4

Product Description

XTRAGUARD FLEX, 3 Conductor 16 AWG (65/34) TC - Tinned Copper, PVC, Semi Rigid Insulation, Overall Aluminum/Polyester Shield, Slate PVC Outer Jacket, AWM/STYLE 10002 105C, AWM/STYLE 2661 105C, CM 105C, SUN RES, PLTC 105C, CSA AWM I/II A/B, CSA C(UL) TYPE CMG, CSA FT4 AWM I/II A/B, C(UL) TYPE CMG, FT4 UL FT4; CSA FT4

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)	3	16 AWG	65x34	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	SR-PVC - Polyvinyl Chloride (Semi-Rigid)	0.010 in (0.25 mm)	0.076 in (1.9 mm)	Black, Red, White

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	26 AWG (7x34) TC
Spiral Serve / Screen	Tinned Copper (TC)	90%	

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.043 in (1.1 mm)	0.274 in (6.96 mm)

Overall Cable Diameter (Nominal):	0.274 in (6.96 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)	50 pF/ft (160 pF/m)	90 pF/ft (300 pF/m)	0.15 μH/ft (0.49 μH/m)

Nom Outer Shield DCR:	52 Ohm/1000ft (170 Ohm/km)
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Voltage

UL Voltage Rating	Voltage Rating
300 V (AWM 2661, CMG, CM)	300 V (CSA AWM)

Mechanical Characteristics

Temperature

UL Temperature	Operating	Installation
105°C	-10°C To +105°C	+5°C To +105°C

Bend Radius

Stationary Min.

2.7 in (69 mm)

Max. Pull Tension: 106 lbs (48.1 kg)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 FT4 Loading, FT4
NEC / UL Compliance:	Article 725, Article 800, CMG, CM, PLTC
AWM Compliance:	AWM 2661, AWM I/II A/B
CEC / C(UL) Compliance:	CMG
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 86163CY 3C 16 AWG XTRAGUARD(R) CONTINUOUS FLEX DATA CABLE (UL) TYPE PLTC 105C OR TYPE CM 105C SUN RES OR C(UL) CMG OR AWM 2661 105C 300V --- LLXXXXXX CSA AWM I/II A/B FT4 105C 300V CE ROHS OIL RESISTANT (SEQ FOOTAGE)

History

Update and Revision: Revision Number: 0.16 Revision Date: 06-30-2026

Part Numbers

Variants

Item #	Color	Putup Type	Length
86163CY SL005	Black	Reel	100 ft

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