




**Product:** [901005](#) 

XTRAGUARD FLEX, 5C #10, Str, PVC/NYLON, 600 V, MTW 90C, THWN-2 90C, TC 90C, SUN RES, OIL RES I/II, CSA C(RU) AWM I/II A/B, CSA FT4, CSA C(UL) CIC CONTROL, CSA C(UL) TC

## Product Description

XTRAGUARD FLEX, 5 Conductor 10 AWG (105/30) BC - Bare Copper, PVC/NYLON Insulation, Slate TPE Outer Jacket, MTW 90C, THWN-2 90C, TC 90C, SUN RES, OIL RES I/II, CSA C(RU) AWM I/II A/B, CSA FT4, CSA C(UL) CIC CONTROL, CSA C(UL) TC C(RU) AWM I/II A/B, FT4, C(UL) CIC CONTROL, C(UL) TC 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)	5	10 AWG	105x30	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.022 in (0.56 mm)	0.172 in (4.37 mm)	Green/Yellow, Black#1, Black#2, Black#3, Black#4

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
TPE - Thermoplastic Elastomer	0.065 in (1.7 mm)	0.612 in (15.5 mm)

Overall Cable Diameter (Nominal): 0.612 in (15.5 mm)

### Electrical Characteristics

#### Electricals

Element	Nom. Capacitance Cond-to-Cond	Nom. Inductance
Conductor(s)	33 pF/ft (110 pF/m)	0.16 $\mu$ H/ft (0.52 $\mu$ H/m)

#### Voltage

UL Voltage Rating	Voltage Rating
600 V (TC, MTW)	600 V (CIC/TC)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating	Installation
90°C	-30°C To +90°C	-5°C To +90°C

#### Bend Radius

Stationary Min.	Installation Min.
3.7 in (94 mm)	4.9 in (120 mm)

Max. Pull Tension: 5.9 lbs (2.7 kg)

### Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 FT4 Loading, FT4
NEC / UL Compliance:	Article 336, MTW, TC
AWM Compliance:	AWM I/II A/B
CEC / C(UL) Compliance:	CIC, TC
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 901005 5C 10 AWG THWN-2 (UL) TYPE TC 90C WET/DRY 600V OIL RES I/II SUN RES OR C(UL) CIC CONTROL/TC 90C PVC/NYLON INS FT4 10 AWG OR CRU AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE)
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## History

Update and Revision:	Revision Number: 0.17 Revision Date: 06-30-2026
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length
901005 SL005	Green/Yellow	Reel	100 ft
901005 SL001	Green/Yellow	Reel	1,000 ft

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