



**Product:** [901809CY](#) 

XTRAGUARD FLEX, 9C #18, Str, PVC/NYLON, 600 V, MTW 90C, TC 90C, SUN RES, OIL RES I/II, PLTC 90C, CSA C(RU) AWM I/II A/B, CSA FT4, CSA C(UL) CIC CONTROL, CSA C(UL) TC

## Product Description

XTRAGUARD FLEX, 9 Conductor 18 AWG (19/30) BC - Bare Copper, PVC/NYLON Insulation, Overall Tinned Copper Shield, Slate TPE Outer Jacket, MTW 90C, TC 90C, SUN RES, OIL RES I/II, PLTC 90C, 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)	9	18 AWG	19x30	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.016 in (0.41 mm)	0.092 in (2.3 mm)	Green/Yellow, Black#1, Black#2, Black#3, Black#4, Black#5, Black#6, Black#7, Black#8

#### Outer Shield

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

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
TPE - Thermoplastic Elastomer	0.050 in (1.3 mm)	0.472 in (12.0 mm)

Overall Cable Diameter (Nominal):	0.472 in (12.0 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)	40 pF/ft (130 pF/m)	72 pF/ft (240 pF/m)	0.19 μH/ft (0.62 μH/m)

Nom Outer Shield DCR:	27 Ohm/1000ft (89 Ohm/km)
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#### 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.
1.9 in (48 mm)	2.8 in (71 mm)

Max. Pull Tension: 43 lbs (20 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, Article 725, PLTC, 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 901809CY 9C 18 AWG (UL) TYPE TC 90C WET/DRY 600V OIL RES I/II SUN RES OR PLTC 90C OR C(UL) CIC CONTROL/TC 90C PVC/NYLON INS FT4 18 AWG OR CRU AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE)

## History

Update and Revision: Revision Number: 0.17 Revision Date: 06-30-2026

## Part Numbers

### Variants

Item #	Color	Putup Type	Length
901809CY SL005	Green/Yellow	Reel	100 ft
901809CY SL001	Green/Yellow	Reel	1,000 ft

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