



**Product:** [SF61220CY](#) 

INDUSTRIAL, 4C #16, Str, PVC/NYLON, 600 V, TFFN 90C, TC 90C, EXPOSED RUN, OIL RES I/II, SUN RES, WTTTC 90C, TFFN 90C, CSA C(RU) AWM I/II A/B, CSA FT4, CSA C(UL) CIC CONTROL, CSA C(UL) TC

## Product Description

INDUSTRIAL, 4 Conductor 16 AWG (26/30) TC - Tinned Copper, PVC/NYLON Insulation, Overall Aluminum/Polyester Shield, Orange TPE Outer Jacket, TFFN 90C, TC 90C, EXPOSED RUN, OIL RES I/II, SUN RES, WTTTC 90C, TFFN 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)	4	16 AWG	26x30	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.016 in (0.41 mm)	0.102 in (2.59 mm)	Green/Yellow, Black#1, Black#2, Black#3

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Braid	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC
Braid	Tinned Copper (TC)	85%	

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
TPE - Thermoplastic Elastomer	0.065 in (1.7 mm)	0.647 in (16.4 mm)

Overall Cable Diameter (Nominal):	0.647 in (16.4 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)	44 pF/ft (140 pF/m)	77 pF/ft (250 pF/m)	48 Ohm	0.19 µH/ft (0.62 µH/m)

Nom Outer Shield DCR:	122 Ohm/1000ft (400 Ohm/km)
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#### Voltage

UL Voltage Rating	Voltage Rating
600 V (TC), 1000 V (WTTTC)	600 V (CSA AWM, 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.
6.5 in (170 mm)	6.5 in (170 mm)

Max. Pull Tension: 179 lbs (81.2 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, 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 SF61220CY 4C 16 AWG TFFN E324185 (UL) WTTC 90C 1000 VOLT OR (UL) TC-ER 90C 600V OIL RES I/II SUN RES OR C(UL) CIC CONTROL/TC 90C PVC/NYLON INS SHIELDED FT4 4C16 2PR18 OR C(RU) AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE)
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## History

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

### Variants

Item #	Color
SF61220CY OR005	Green/Yellow

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