



**Product:** [58643](#) 

Communication and Control, 3PR #16, Str, FEP, 150 V, CMP 125C, CSA FT6, CSA C(UL) TYPE CMP

## Product Description

Communication and Control, 3 Pair 16 AWG (7/.0192) TC - Tinned Copper, FEP Insulation, Slate PVDF Outer Jacket, CMP 125C, CSA FT6, CSA C(UL) TYPE CMP FT6, C(UL) TYPE CMP UL FT6; CSA FT6

## 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
Pair(s)	3	16 AWG	7x25	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	FEP - Fluorinated Ethylene Propylene	0.007 in (0.18 mm)	0.072 in (1.8 mm)	Black-Red, Black-White, Black-Green

#### Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	18 AWG (7x26.5) TC

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVDF - Polyvinylidene Fluoride	0.012 in (0.30 mm)	0.309 in (7.85 mm)

Overall Cable Diameter (Nominal):	0.309 in (7.85 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
Pair(s)	53 pF/ft (170 pF/m)	950 pF/ft (3100 pF/m)	34 Ohm	0.14 µH/ft (0.46 µH/m)

#### Voltage

<b>UL Voltage Rating</b>
300 V (CMP)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
125°C	-25°C To +125°C

#### Bend Radius

<b>Stationary Min.</b>
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3.1 in (79 mm)

Max. Pull Tension: 11 lbs (5.0 kg)

## Standards and Compliance

Environmental Suitability:	Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 FT6 Loading, FT6
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
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 58643 3PR 16 AWG SHIELDED 125C (UL) TYPE CMP OR C(UL) TYPE CMP FT6 CE ROHS

## History

Update and Revision: Revision Number: 0.24 Revision Date: 06-30-2026

## Part Numbers

### Variants

Item #	Color	Putup Type	Length
58643 SL001	Black and Red	Reel	1,000 ft

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