



**Product:** [58136](#) 

Communication and Control, 6C #18, Str, PVC, Plenum Rated, 300 V, CL2P 75C, CMP 75C, CSA FT6, CSA C(UL) TYPE CMP

## Product Description

Communication and Control, 6 Conductor 18 AWG (7/.0152) BC - Bare Copper, PVC, Plenum Rated Insulation, Overall Aluminum/Polyester Shield, Slate PVC, Plenum Rated Outer Jacket, CL2P 75C, CMP 75C, 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
Conductor(s)	6	18 AWG	7x27	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	Notes
Conductor(s)	PVC - Polyvinyl Chloride	0.009 in (0.23 mm)	0.064 in (1.6 mm)	Black, White, Red, Green, Brown, Blue	Plenum Rated

#### Outer Shield

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

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	0.227 in (5.77 mm)

Overall Cable Diameter (Nominal):	0.227 in (5.77 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)	59 pF/ft (190 pF/m)	106 pF/ft (348 pF/m)	0.15 µH/ft (0.49 µH/m)

Nom Outer Shield DCR:	117 Ohm/1000ft (384 Ohm/km)
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#### Voltage

UL Voltage Rating
300 V (CMP), 150 V (CL2P)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
75°C	-5°C To +75°C

#### Bend Radius

**Stationary Min.**

2.3 in (58 mm)

Max. Pull Tension: 5.9 lbs (2.7 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), 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 58136 6C 18 AWG SHIELDED 75C CMP(UL) C(UL) OR 75C (UL) CL2P CE ROHS
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**History**

Update and Revision:	Revision Number: 0.64 Revision Date: 06-30-2026
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**Part Numbers****Variants**

Item #	Color	Putup Type	Length
58136 SL002	Black	Reel	500 ft
58136 SL001	Black	Reel	1,000 ft

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