



Product: [6012C](#) 

Communication and Control, 6PR #22, Str, Polypropylene(PP), 300 V, AWM/STYLE 2493 60C, CMG 75C, VW-1, CSA C(UL) TYPE CMG, CSA FT4

Product Description

Communication and Control, 6 Pair 22 AWG (7/30) TC - Tinned Copper, Polypropylene(PP) Insulation, Slate PVC Outer Jacket, AWM/STYLE 2493 60C, CMG 75C, VW-1, CSA C(UL) TYPE CMG, CSA FT4 C(UL) TYPE CMG, FT4 UL FT4, VW-1; CSA FT4

Technical Specifications

Product Overview

Suitable Applications:	Industrial control systems, raceways, cable trays, and ducts; instrumentation and control circuits; analog and digital signals (4–20 mA, 0–10 V); PLC and DCS systems; sensors, encoders, solenoids, valves, actuators, and positioners.
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	6	22 AWG	7x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PP - Polypropylene	0.010 in (0.25 mm)	0.050 in (1.3 mm)	Black-Red, Black-White, Black-Green, Black-Blue, Black-Brown, Black-Yellow

Inner Shield

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

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.048 in (1.2 mm)	0.378 in (9.60 mm)

Overall Cable Diameter (Nominal):	0.378 in (9.60 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)	28 pF/ft (92 pF/m)	500 pF/ft (1600 pF/m)	60 Ohm	0.18 µH/ft (0.59 µH/m)

Voltage

UL Voltage Rating
300 V (CMG, AWM 2493)

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	-20°C To +75°C

Bend Radius

Stationary Min.

3.8 in (97 mm)

Max. Pull Tension: 21.1 lbs (9.57 kg)

Standards and Compliance

Environmental Suitability:	Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 FT4 Loading, FT4
NEC / UL Compliance:	Article 800, CMG
AWM Compliance:	AWM 2493
CEC / C(UL) Compliance:	CMG
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 6012C 6PR 22 AWG EXXXXX SHIELDED 75C (UL) C(UL) CMG FT4 OR AWM 2493 CE ROHS

History

Update and Revision: Revision Number: 0.112 Revision Date: 06-30-2026

Part Numbers

Variants

Item #	Color	Putup Type	Length
6012C SL005	Slate	Reel	100 ft
6012C SL002	Slate	Reel	500 ft

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