



Product: [1896/12C](#) 

Communication and Control, 12C #20, Str, PVC, 300 V, AWM/STYLE 2509 80C, CM 75C, VW-1, CSA CMG, CSA FT4

Product Description

Communication and Control, 12 Conductor 20 AWG (7/28) TC - Tinned Copper, PVC Insulation, Slate PVC Outer Jacket, AWM/STYLE 2509 80C, CM 75C, VW-1, CSA CMG, CSA FT4 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
Conductor(s)	12	20 AWG	7x28	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.016 in (0.41 mm)	0.070 in (1.8 mm)	Black, Red, White, Green, Orange, Blue, Brown, Yellow, Violet, Slate, Pink, Tan

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.020 in (0.51 mm)	0.331 in (8.41 mm)

Overall Cable Diameter (Nominal): 0.331 in (8.41 mm)

Electrical Characteristics

Electricals

Element	Nom. Capacitance Cond-to-Cond	Nom. Inductance
Conductor(s)	27 pF/ft (89 pF/m)	0.19 μ H/ft (0.62 μ H/m)

Voltage

UL Voltage Rating
300 V (CM, CMG, AWM 2509)

Mechanical Characteristics

Temperature

UL Temperature	Operating
80°C	-20°C To +80°C

Bend Radius

Stationary Min.
3.3 in (84 mm)

Max. Pull Tension: 52 lbs (24 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, CM
AWM Compliance:	AWM 2509
CEC / C(UL) Compliance:	CMG
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 1896/12C 12C 20 AWG (UL) 75C TYPE CM OR AWM 2509 OR C(UL) 60C TYPE CMG FT4 CE ROHS
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History

Update and Revision:	Revision Number: 0.119 Revision Date: 06-30-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length
1896/12C SL002	Black	Reel	500 ft

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