



Product: [6409](#) 

Communication and Control, 12PR #24, Str, Polyethylene(PE), 300 V, AWM/STYLE 2919 80C, CM 75C, VW-1, CSA C(UL) TYPE CM

Product Description

Communication and Control, 12 Pair 24 AWG (7/32) TC - Tinned Copper, Polyethylene(PE) Insulation, Overall Aluminum/Polyester Shield, Slate PVC Outer Jacket, AWM/STYLE 2919 80C, CM 75C, VW-1, CSA C(UL) TYPE CM C(UL) TYPE CM UL VW-1

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)	12	24 AWG	7x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene	0.016 in (0.41 mm)	0.056 in (1.4 mm)	Blue/White - White/Blue, Orange/White - White/Orange, Green/White - White/Green, Brown/White - White/Brown, Slate/White - White/Slate, Blue/Red - Red/Blue, Orange/Red - Red/Orange, Green/Red - Red/Green, Brown/Red - Red/Brown, Slate/Red - Red/Slate, Blue/Black - Black/Blue, Orange/Black - Black/Orange

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
Braid	Tinned Copper (TC)	65%	

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.035 in (0.89 mm)	0.478 in (12.1 mm)

Overall Cable Diameter (Nominal): 0.478 in (12.1 mm)

Electrical Characteristics

Electricals

Element	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance
Pair(s)	15.5 pF/ft (50.9 pF/m)	275 pF/ft (902 pF/m)	100 Ohm

Nom Outer Shield DCR: 21 Ohm/1000ft (69 Ohm/km)

Voltage

UL Voltage Rating
300 V (CM), 30 V (AWM 2919)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.

4.8 in (120 mm)

Max. Pull Tension: 64 lbs (29 kg)

Standards and Compliance

Environmental Suitability:	Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL VW-1
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	AWM 2919
CEC / C(UL) Compliance:	CM
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 6409 12PR 24 AWG SHIELDED 75C (UL) C(UL) TYPE CM OR AWM 2919 LOW VOLTAGE COMPUTER CABLE CE ROHS

History

Update and Revision: Revision Number: 0.7 Revision Date: 06-30-2026

Part Numbers

Variants

Item

6409 SL005

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