



Product: [5471L](#) 

Communication and Control, 1PR #24, Str, Polypropylene(PP), 300 V, CMG 75C, ST1 (Limited Smoke), CSA FT4, CSA C(UL) TYPE CMG

Product Description

Communication and Control, 1 Pair 24 AWG (7/32) TC - Tinned Copper, Polypropylene(PP) Insulation, Overall Aluminum/Polyester Shield, Slate Low Smoke Zero Halogen (LSZH) Outer Jacket, CMG 75C, ST1 (Limited Smoke), CSA FT4, CSA C(UL) TYPE CMG FT4, C(UL) TYPE CMG UL FT4; CSA FT4

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)	1	24 AWG	7x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PP - Polypropylene	0.010 in (0.25 mm)	0.044 in (1.1 mm)	Black-Red

Outer Shield

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

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.030 in (0.76 mm)	0.152 in (3.86 mm)

Overall Cable Diameter (Nominal):	0.152 in (3.86 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)	22.3 pF/ft (73.2 pF/m)	40 pF/ft (130 pF/m)	67 Ohm	0.19 µH/ft (0.62 µH/m)

Nom Outer Shield DCR:	237 Ohm/1000ft (778 Ohm/km)
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Voltage

UL Voltage Rating
300 V (CMG, CMG)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.

1.5 in (38 mm)

Max. Pull Tension: 67 lbs (30 kg)

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL1685 FT4 Loading, FT4
NEC / UL Compliance:	Article 800, CMG
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 5471L 1PR 24 AWG EXXXXXX SHIELEDDED 75C (UL) C(UL) TYPE CMG-ST1 --- LSZH CE ROHS
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History

Update and Revision:	Revision Number: 0.102 Revision Date: 06-30-2026
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Part Numbers**Variants**

Item #	Color
5471L SL002	Black and Red
5471L SL005	Black and Red
5471L SL001	Black and Red

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