



Product: [6012L](#) 

Communication and Control, 6PR #22, Str, Low Smoke Zero Halogen (LSZH), 300 V, CMG 75C, CSA FT4, CSA C(UL) TYPE CMG

Product Description

Communication and Control, 6 Pair 22 AWG (7/30) TC - Tinned Copper, Low Smoke Zero Halogen (LSZH) Insulation, Slate Low Smoke Zero Halogen (LSZH) Outer Jacket, CMG 75C, 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)	6	22 AWG	7x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	LSZH - Low Smoke Zero Halogen (Flame Retardant)	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
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.025 in (0.64 mm)	0.338 in (8.59 mm)

Overall Cable Diameter (Nominal):	0.338 in (8.59 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)	43 pF/ft (140 pF/m)	77 pF/ft (250 pF/m)	46 Ohm	0.18 µH/ft (0.59 µH/m)

Voltage

UL Voltage Rating
300 V (CMG)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.

3.4 in (86 mm)

Max. Pull Tension: 24.6 lbs (11.2 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 6012L 6PR 22 AWG EXXXXXX SHIELEDDED 75C (UL) C(UL) TYPE CMG --- LSZH CE ROHS

History

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

Part Numbers

Variants

Item #	Color	Putup Type	Length
6012L SL005	Black and Red	Reel	100 ft
6012L SL002	Black and Red	Reel	500 ft
6012L SL001	Black and Red	Reel	1,000 ft

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