



Product: [M9524010](#) 

INSTRUMENTATION, 1PR #14, Str, PVC, 300 V, ITC 105C, SUN RES, PLTC 105C, CL3 105C, CSA FT4

Product Description

INSTRUMENTATION, 1 Pair 14 AWG (7/0242) BC - Bare Copper, PVC Insulation, Overall Aluminum/Polyester Shield, Black PVC Outer Jacket, ITC 105C, SUN RES, PLTC 105C, CL3 105C, CSA FT4 FT4 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	14 AWG	7x23	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.016 in (0.41 mm)	0.105 in (2.67 mm)	Black-White

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	16 AWG (7x24) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.043 in (1.1 mm)	0.303 in (7.70 mm)	Yes

Overall Cable Diameter (Nominal):	0.303 in (7.70 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)	61 pF/ft (200 pF/m)	110 pF/ft (360 pF/m)	35 Ohm	0.16 µH/ft (0.52 µH/m)

Nom Outer Shield DCR:	4 Ohm/1000ft (13 Ohm/km)
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Voltage

UL Voltage Rating
300 V (PLTC, ITC, CMG, CL3)

Mechanical Characteristics

Temperature

UL Temperature	Operating
105°C	-20°C To +105°C

Bend Radius

Stationary Min.

3.0 in (76 mm)

Max. Pull Tension: 85 lbs (39 kg)

Standards and Compliance

Environmental Suitability: Indoor, Outdoor, Sunlight Resistance

Flammability / Reaction to Fire: UL1685 FT4 Loading, FT4

NEC / UL Compliance: Article 725, Article 727, PLTC, ITC

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 M9524010 1PR 14 AWG SHIELDED EXXXXX (UL) TYPE PLTC/ITC 105C SUN RES OR CL3 105C FT4 CE ROHS

History

Update and Revision: Revision Number: 0.11 Revision Date: 06-30-2026

Part Numbers**Variants**

Item #	Color	Putup Type	Length
M9524010 BK001	Black And White	Reel	1,000 ft

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