



Product: [M8524010](#) 

INSTRUMENTATION, 1PR #14, Str, PVC/NYLON, 600 V, SUN RES, DIRECT BURIAL, TC 90C

Product Description

INSTRUMENTATION, 1 Pair 14 AWG (7/.0242) BC - Bare Copper, PVC/NYLON Insulation, Overall Aluminum/Polyester Shield, Black PVC Outer Jacket, SUN RES, DIRECT BURIAL, TC 90C

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/Nylon - Polyvinyl Chloride + Nylon	0.016 in (0.41 mm)	0.115 in (2.92 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	0.048 in (1.2 mm)	0.333 in (8.46 mm)	Yes

Overall Cable Diameter (Nominal):	0.333 in (8.46 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)	57 pF/ft (190 pF/m)	103 pF/ft (338 pF/m)	39 Ohm	0.17 µH/ft (0.56 µH/m)

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

UL Voltage Rating
600 V (TC)

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C	-25°C To +90°C

Bend Radius

Stationary Min.

3.3 in (84 mm)

Max. Pull Tension: 85 lbs (39 kg)

Standards and Compliance

Environmental Suitability: Outdoor, Sunlight Resistance, Burial

NEC / UL Compliance: Article 336, TC

European Directive Compliance: EU Directive 2015/863/EU (RoHS 2 amendment), 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 M8524010 1PR 14 AWG EXXXXXX (UL) TYPE TC 600V 90C DRY 75C WET SUN. RES. DIR. BUR. CE ROHS

History

Update and Revision: Revision Number: 0.12 Revision Date: 06-30-2026

Part Numbers**Variants**

Item #	Color	Putup Type	Length
M8524010 BK001	Black And White	Reel	1,000 ft

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