



Product: [6451](#) 

IA, 1C #15, Str, PVC, 300 V, PLTC 75C, SUN RES 75C, CMG 75C, AWM/STYLE 20201 60C, CSA C(UL) TYPE CMG, CSA AWM I/II A, CSA FT4

Product Description

IA, 1 Conductor 15 AWG (19/0135) TC - Tinned Copper, PVC Insulation, Overall Tinned Copper Shield, Slate PVC Outer Jacket, PLTC 75C, SUN RES 75C, CMG 75C, AWM/STYLE 20201 60C, CSA C(UL) TYPE CMG, CSA AWM I/II A, CSA FT4 C(UL) TYPE CMG, AWM I/II A, 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
Comm	1	15 AWG	19x25	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Comm	PVC - Polyvinyl Chloride	0.021 in (0.53 mm)	0.109 in (2.77 mm)	Black-Red

Inner Shield

Element	Shield Type	Material	Coverage
Comm	Tape	Bi-Laminate (Alum+Poly)	100%

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Braid	Tinned Copper (TC)	65%	18 AWG (19x30) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.060 in (1.5 mm)	0.480 in (12.2 mm)

Overall Cable Diameter (Nominal):	0.480 in (12.2 mm)
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Electrical Characteristics

Electricals

Element	Nom. Capacitance Cond-to-Cond	Nom. Characteristic Impedence	Nom. Inductance	Max. Current
Comm	12 pF/ft (39 pF/m)	120 Ohm	0.17 μ H/ft (0.56 μ H/m)	8.0 A

Nom Outer Shield DCR:	18 Ohm/1000ft (59 Ohm/km)
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Voltage

UL Voltage Rating	Voltage Rating
300 V (CMG.), 600 V (AWM 20201)	300 V (CSA AWM)

Mechanical Characteristics

Temperature

UL Temperature	Operating	Installation

75°C	-20°C To +75°C	+0°C To +80°C
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Bend Radius

Stationary Min.

4.8 in (120 mm)

Max. Pull Tension: 91 lbs (41 kg)

Standards and Compliance

Environmental Suitability:	Indoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL1685 FT4 Loading, FT4
NEC / UL Compliance:	Article 725, Article 800, CMG, PLTC
AWM Compliance:	AWM 20201
CEC / C(UL) Compliance:	CMG
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 6451 1PR 15 AWG DEVICEBUS(R) THICK --- 1PR16 1PR18 SHIELDED (UL) EXXXXX CMG 75C OR PLTC SUN RES OR AWM 20201 600V C(UL) CMG OR AWM I/II A 80C 300V --- FT4 OIL RES CE ROHS (1 METER MARKING, ---METER---
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History

Update and Revision:	Revision Number: 0.96 Revision Date: 06-30-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length
6451 SL005	Black and Red	Reel	100 ft
6451 SL002	Black and Red	Reel	500 ft
6451 SL001	Black and Red	Reel	1,000 ft

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