



Product: [M16142LW](#) 

INDUSTRIAL, 42C #16, Str, PVC/NYLON, 600 V, TC 90C, EXPOSED RUN, SUN RES, PLTC 90C, DIRECT BURIAL, OIL RES I, MTW 90C, WTTC 90C, CSA FT4, CSA C(RU) AWM I/II A/B

Product Description

INDUSTRIAL, 42 Conductor 16 AWG (26/30) BC - Bare Copper, PVC/NYLON Insulation, Slate PVC Outer Jacket, TC 90C, EXPOSED RUN, SUN RES, PLTC 90C, DIRECT BURIAL, OIL RES I, MTW 90C, WTTC 90C, CSA FT4, CSA C(RU) AWM I/II A/B FT4, C(RU) AWM I/II A/B 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
Conductor(s)	42	16 AWG	26x30	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.016 in (0.41 mm)	0.102 in (2.59 mm)	Green/Yellow, Dk. Blue#1, White/Blue, Dk. Blue#3, Dk. Blue#4, Dk. Blue#5, Dk. Blue#6, Dk. Blue#7, Dk. Blue#8, Dk. Blue#9, Dk. Blue#10, Dk. Blue#11, Dk. Blue#12, Dk. Blue#13, Dk. Blue#14, Dk. Blue#15, Dk. Blue#16, Dk. Blue#17, Dk. Blue#18, Dk. Blue#19, Dk. Blue#20, Dk. Blue#21, Dk. Blue#22, Dk. Blue#23, Dk. Blue#24, Dk. Blue#25, Dk. Blue#26, Dk. Blue#27, Dk. Blue#28, Dk. Blue#29, Dk. Blue#30, Dk. Blue#31, Dk. Blue#32, Dk. Blue#33, Dk. Blue#34, Dk. Blue#35, Dk. Blue#36, Dk. Blue#37, Dk. Blue#38, Dk. Blue#39, Dk. Blue#40, Dk. Blue#41

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.085 in (2.2 mm)	0.950 in (24.1 mm)

Overall Cable Diameter (Nominal):	0.950 in (24.1 mm)
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Electrical Characteristics

Electricals

Element	Nom. Capacitance Cond-to-Cond	Nom. Inductance
Conductor(s)	29 pF/ft (95 pF/m)	0.18 µH/ft (0.59 µH/m)

Voltage

UL Voltage Rating	Voltage Rating
600 V (MTW, TC), 1000 V (WTTC)	600 V (CSA AWM)

Mechanical Characteristics

Temperature

UL Temperature	Operating	Installation
90°C	-30°C To +90°C	-5°C To +90°C

Bend Radius

Stationary Min.
9.5 in (240 mm)

Max. Pull Tension:	153 lbs (69.4 kg)
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Standards and Compliance

Environmental Suitability:	Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 FT4 Loading, FT4
NEC / UL Compliance:	Article 336, Article 725, PLTC, MTW, TC
AWM Compliance:	AWM I/II A/B
CEC / C(UL) Compliance:	.
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 M16142LW 42C 16 AWG SERIES M (UL) WTTTC 90C WET/DRY 1000V OR (UL) TC-ER 90C WET/DRY 600V SUN RES DIR BUR OIL RES I OR MTW 16 AWG OR (UL) PLTC 90C OR CRU AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE)
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History

Update and Revision:	Revision Number: 0.27 Revision Date: 08-29-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length
M16142LW SL199	Slate	Cut to Length	1 ft

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