




Product: [45178](#) 

XTRAGUARD 4, 8C #16, Str, TPE, 300 V, AWM/STYLE 20237 125C, PLTC 105C, AWM/STYLE 21918 125C, SUN RES, CSA C(RU) AWM I/II A/B FT1, CSA SUN RES (Black only)

Product Description

XTRAGUARD 4, 8 Conductor 16 AWG (19x29) TC - Tinned Copper, TPE Insulation, Overall Aluminum/Polyester Shield, Slate TPE Outer Jacket, AWM/STYLE 20237 125C, PLTC 105C, AWM/STYLE 21918 125C, SUN RES, CSA C(RU) AWM I/II A/B FT1, CSA SUN RES (Black only) C(RU) AWM I/II A/B FT1, SUN RES (Black only)

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)	8	16 AWG	19x29	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	TPE - Thermoplastic Elastomer	0.016 in (0.41 mm)	0.091 in (2.3 mm)	Black, Red, White, Green, Orange, Blue, Brown, Yellow

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Braid	Bi-Laminate (Alum+Poly)	100%	16 AWG (19x29) TC
Braid	Tinned Copper (TC)	70%	

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
TPE - Thermoplastic Elastomer	0.055 in (1.4 mm)	0.446 in (11.3 mm)	Yes

Overall Cable Diameter (Nominal):	0.446 in (11.3 mm)
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Electrical Characteristics

Electricals

Element	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Inductance
Conductor(s)	29 pF/ft (95 pF/m)	52 pF/ft (170 pF/m)	0.17 μ H/ft (0.56 μ H/m)

Nom Outer Shield DCR:	163 Ohm/1000ft (535 Ohm/km)
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Voltage

UL Voltage Rating	Voltage Rating
300 V (PLTC, AWM 20237, AWM 21918)	300 V (CSA AWM)

Mechanical Characteristics

Temperature

UL Temperature	Operating
125°C	-50°C To +125°C

Bend Radius

Stationary Min.

4.5 in (110 mm)

Max. Pull Tension: 51 lbs (23 kg)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance - Black only
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	FT1
NEC / UL Compliance:	Article 725, PLTC
AWM Compliance:	AWM 20237AWM 21918, AWM I/II A/B
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 45178 8C 16 AWG XTRAGUARD(R) 4 (UL) TYPE PLTC 105C SUN RES OR AWM 20237/21918 125C 300 V OR CRU AWM I/III A/B 125C 300 V FT1 P-07-KA140023-MSHA CE ROHS (SEQ FOOTAGE)
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History

Update and Revision:	Revision Number: 0.24 Revision Date: 06-30-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length
45178 BK199	Black	Cut to Length	1 ft

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