



Product: [5100/40C](#) 

XTRAGUARD 1, 40C #24, Str, PVC, Semi Rigid, 300 V, AWM/STYLE 2464 80C, CM 105C, VW-1, AWM/STYLE 10002 105C, AWM/STYLE 2517 105C, SUN RES, CSA CMG, CSA FT4

Product Description

XTRAGUARD 1, 40 Conductor 24 AWG (7/32) TC - Tinned Copper, PVC, Semi Rigid Insulation, Overall Aluminum/Polyester Shield, Slate PVC Outer Jacket, AWM/STYLE 2464 80C, CM 105C, VW-1, AWM/STYLE 10002 105C, AWM/STYLE 2517 105C, SUN RES, CSA CMG, CSA FT4 CMG, FT4 UL FT4, VW-1; CSA FT4; EN 60332-1 Flame Behavior; EN 60332-2 Flame Behavior

Technical Specifications

Product Overview

Suitable Applications:	Industrial control systems, raceways, cable trays, and ducts; instrumentation and control circuits; analog and digital signals (4–20 mA, 0–10 V); PLC and DCS systems; sensors, encoders, solenoids, valves, actuators, and positioners.
------------------------	--

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	40	24 AWG	7x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	SR-PVC - Polyvinyl Chloride (Semi-Rigid)	0.010 in (0.25 mm)	0.044 in (1.1 mm)	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Slate, White, White/Black, White/Brown, White/Red, White/Orange, White/Yellow, White/Green, White/Blue, White/Violet, White/Slate, White/Black/Brown, White/Black/Red, White/Black/Orange, White/Black/Yellow, White/Black/Green, White/Black/Blue, White/Black/Violet, White/Black/Slate, White/Brown/Red, White/Brown/Orange, White/Brown/Yellow, White/Brown/Green, White/Brown/Blue, White/Brown/Violet, White/Brown/Slate, White/Red/Orange, White/Red/Yellow, White/Red/Green, White/Red/Blue, White/Red/Violet, White/Red/Slate

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.032 in (0.81 mm)	0.394 in (10.0 mm)	Yes

Overall Cable Diameter (Nominal): 0.394 in (10.0 mm)

Electrical Characteristics

Electricals

Element	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Inductance
Conductor(s)	31 pF/ft (100 pF/m)	56 pF/ft (180 pF/m)	0.19 μH/ft (0.62 μH/m)

Nom Outer Shield DCR: 134 Ohm/1000ft (440 Ohm/km)

Voltage

UL Voltage Rating
300 V (CMG, CM, AWM 2464, AWM 2517)

Mechanical Characteristics

Temperature

UL Temperature	Operating
105°C	-35°C To +105°C

Bend Radius

Stationary Min.	Installation Min.
2.0 in (51 mm)	2.0 in (51 mm)

Max. Pull Tension: 177 lbs (80.3 kg)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 FT4 Loading, FT4, IEC 60332-1-2, IEC 60332-2-2
NEC / UL Compliance:	Article 800, CMG, CM
AWM Compliance:	AWM 2464AWM 2517
CEC / C(UL) Compliance:	CMG
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 5100/40C 40C 24 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C SUN RES OR AWM 2464 80C 300V OR AWM 2517 105C 300V VW-1 --- LLXXXXXX CSA 105C TYPE CMG FT4 CE ROHS OIL RESISTANT (SEQ FOOTAGE)
--------	--

History

Update and Revision:	Revision Number: 0.130 Revision Date: 06-30-2026
----------------------	--

Part Numbers

Variants

Item #	Color
5100/40C SL002	Black
5100/40C SL005	Black
5100/40C SL001	Black

© 2026 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.