



**Product:** [6399](#) 

Communication and Control, 25PR #28, Str, Polyethylene(PE), 300 V, AWM/STYLE 2960 60C, CL2 75C, VW-1, CSA C(UL) TYPE CM, CSA FT1

## Product Description

Communication and Control, 25 Pair 28 AWG (7/36) TC - Tinned Copper, Polyethylene(PE) Insulation, Overall Aluminum/Polyester Shield, Slate PVC Outer Jacket, AWM/STYLE 2960 60C, CL2 75C, VW-1, CSA C(UL) TYPE CM, CSA FT1 C(UL) TYPE CM, FT1 UL FT1, VW-1; CSA FT1

## 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)	25	28 AWG	7x36	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene	0.010 in (0.25 mm)	0.035 in (0.89 mm)	Black-Red, Black-White, Black-Green, Black-Blue, Black-Yellow, Black-Brown, Black-Orange, Red-White, Red-Green, Red-Blue, Red-Yellow, Red-Brown, Red-Orange, Green-White, Green-Blue, Green-Yellow, Green-Brown, Green-Orange, White-Blue, White-Yellow, White-Brown, White-Orange, Blue-Yellow, Blue-Brown, Blue-Orange

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	28 AWG (7x36) TC
Braid	Tinned Copper (TC)	90%	

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.035 in (0.89 mm)	0.440 in (11.2 mm)

Overall Cable Diameter (Nominal): 0.440 in (11.2 mm)

### Electrical Characteristics

#### Electricals

Element	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance
Pair(s)	15.5 pF/ft (50.9 pF/m)	275 pF/ft (902 pF/m)	100 Ohm

Nom Outer Shield DCR: 22 Ohm/1000ft (72 Ohm/km)

#### Voltage

UL Voltage Rating
300 V (CM), 150 V (CL2)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
75°C	-20°C To +75°C

## Bend Radius

### Stationary Min.

4.4 in (110 mm)

Max. Pull Tension: 8.7 lbs (3.9 kg)

## Standards and Compliance

Environmental Suitability:	Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 FT1 Loading, FT1
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	AWM 2960
CEC / C(UL) Compliance:	CM
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 6399 25PR 28 AWG SHIELDED 75C (UL) TYPE CL2 OR AWM 2960 C(UL) TYPE CM 60C FT1 CE ROHS

## History

Update and Revision: Revision Number: 0.114 Revision Date: 06-30-2026

## Part Numbers

### Variants

Item #	Color	Putup Type	Length
6399 SL005	Black and Red	Reel	100 ft
6399 SL001	Black and Red	Reel	1,000 ft

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