

Alpha Wire **INDUSTRIAL** SERIES

TECHNOLOGICALLY ADVANCED CABLE SYSTEMS FOR AUTOMOTIVE AND INDUSTRIAL FACTORY AUTOMATION

Alpha Wire continues to offer “Powerful Solutions For Critical Applications” with the introduction of our new **Alpha Wire INDUSTRIAL** SERIES product line.

The **Alpha Wire INDUSTRIAL** SERIES offers technologically advanced cable systems for automotive and industrial factory automation. There is an **Alpha Wire INDUSTRIAL** SERIES cable product available to solve most existing critical and severe-duty application requirements.

When it has to be right, when dependability and quality are paramount, when safety and security are the primary issue, the **UL Exposed Run (-ER) Compliant Alpha Wire INDUSTRIAL** SERIES provides the total solution and sets the industry standard for performance, quality and reliability.

Specify **Alpha Wire INDUSTRIAL** SERIES: **SERIES F, SERIES M, SERIES L, SERIES P, SERIES S** and **SERIES V** for compliance with the 2005 National Electrical Code for cables installed in industrial establishments.

All **Alpha Wire INDUSTRIAL** SERIES products are designed and manufactured in the United States by Alpha's exacting team of engineers. If you don't find the cable you require in this catalog, we'll work with you to design what you need.



Manufactured In The U.S.A.

APPLICATIONS

- High Flexibility/High Bend Applications
- Factory Equipment Interconnects
- Robotics
- Machine Tools
- Automotive Assembly Equipment
- Conveyor Systems
- Control Panels
- Flex and Static Track
- Transfer Shuttles
- Automated Pick-and-Place Systems
- PLC Controlled Equipment
- C-Track or Stationary Applications
- Automated Handling Systems
- Regulation and Measurement of Motor Speeds and Positions For Use in Servo Motor Systems

Alpha Wire INDUSTRIAL SERIES

SERVO POWER CABLE/COMPOSITE SERVO POWER CABLE

OIL RESISTANT, FLEXIBLE MULTICONDUCTOR, SHIELDED

UL STANDARD 758, RoHS COMPLIANT,
AWM STYLES 1015 & 20626

CSA C22.2 NO. 210.2 -

AWM I/II A/B, 90°C, 600 VOLT, FT-1

CE LVD: 73/68/EEC, AMEND. 93/68/EEC

SERIES S SERVO POWER CABLE, COMPOSITE SERVO POWER CABLE

DESIGNED FOR USE IN HIGH-FLEX, AUTOMATED
SERVO SYSTEMS FOR SERVO SIGNAL FEEDBACK
AND SERVO POWER

CHOOSE SERIES S SERVO AND COMPOSITE CABLES FOR:

- Power Supply for Connecting Servo System Motors to Drives, Controllers, and Power Supplies (Servo)
- Power Supply and Data Cables for Connecting Servo System Motors, and Electro-mechanical Devices to Drives, Controllers and Power Supplies (Composite)
- For Temperature Feedback and Braking Control, Two Individually Shielded Pairs* are Added to the 3 Power and One Grounding Conductor (Composite)

SERIES S SERVO POWER, CONTROL CABLE AND FEEDBACK CABLE APPLICATIONS:

- Machine Tools
- Automated Pick-And-Place Systems
- Robots
- C-Track or Stationary Applications
- Automotive Assembly Systems
- Automated Handling Systems

FIT® TUBING RECOMMENDATION

FIT®-600 – Highly Flexible, Irradiated Elastomer (See Page 131 for Product Specifications)

FIT®-650 – Chemical and Temperature Resistant Irradiated Viton®

(See Page 132 for Product Specifications)



CHARACTERISTICS

OPERATING TEMPERATURE:

- 5°C to 90°C

VOLTAGE RATING:

- 600 Volt

COLOR DESCRIPTION:

- Conductors: Black With White, Alternate & Inverted, Alpha-Numeric Characters, No. 1, No. 2, No. 3 and Green/Yellow Grounding Conductor Pairs: Black With White, Alternate & Inverted, Alpha-Numeric Characters, No. 5, No. 6, No. 7, No. 8, No. 5 & 6 Are Paired, No. 7 & 8 Are Paired
- Jacket Color: Orange

PRODUCT DESCRIPTION:

- Conductor: Tinned Copper
- Insulation: PVC
- Cable Shield: Overall Foil/Braid (85%)
- Pair Shields: See Tabular Data Below
- Jacket: Specially Formulated Thermoplastic Elastomer

SPECIFICATIONS

- UL Standard 758, AWM Styles 1015 & 20626
- CSA C22.2 No. 210.2 AWM I/II A/B 90°C, 600 Volt, FT-1
- CE Low Voltage Directive 73/68/EEC – Amendment 93/68/EEC
- RoHS Compliant



Certified

Canadian Standards Association



Recognized
Component

Underwriters Laboratories Inc.



RoHS
Compliant

AVAILABILITY

- In Stock: 100 ft (30,5m), 500 ft (152m) and 1000 ft (305m) put-ups

SERIES S – SERVO POWER CABLE, OVERALL FOIL/BRAID (85%) SHIELD

Alpha Part No.	No. of Cond.	Conductor		Jacket Thickness		Nominal Diameter	
		AWG	Strand	Inches	mm	Inches	mm
S61124CY	4	24	7/32	0.048	1,2	0.350	8,9
S61122CY	4	22	7/30	0.048	1,2	0.365	9,3
S61120CY	4	20	10/30	0.048	1,2	0.379	9,6
S61118CY	4	18	19/30	0.053	1,3	0.426	10,8
S61116CY	4	16	26/30	0.053	1,3	0.446	11,3
S61114CY	4	14	41/30	0.053	1,3	0.484	12,3
S61112CY	4	12	65/30	0.060	1,5	0.552	14,0
S61110CY	4	10	105/30	0.065	1,7	0.616	15,6
S61108CY	4	8	133/29	0.075	1,9	0.857	21,8

SERIES S – COMPOSITE SERVO POWER CABLE, OVERALL FOIL/BRAID (85%) SHIELD

Alpha Part No.	Power Conductor		Brake Pairs		Jacket Thickness		Nominal Diameter	
	No. of Cond.	AWG	Strand	No. of Pairs	AWG	Strand	Inches	mm
S61220CY*	3+ Ground	16	26/30	2	18	41/34	0.053	1,3
S61221CY*	3+ Ground	14	41/30	2	18	41/34	0.053	1,3
S61222CY*	3+ Ground	12	65/30	2	16	65/34	0.060	1,5
S61223CY*	3+ Ground	10	105/30	2	16	65/34	0.065	1,7
S61224CY**	3+ Ground	8	133/29	2	16	65/34	0.075	1,9

Viton® is a registered trademark of DuPont Dow Elastomers

*Brake Pairs are Individually Foil/Braid (85%) Shielded, with Drain Wires.

**S61224CY Brake Pairs are Overall Foil/Braid (85%) Shielded, with Drain Wire.

