

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.



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