



PHILATRON INTERNATIONAL

AEROSPACE PRODUCTS



**MANUFACTURER
WIRE & CABLE
SINCE 1974
SUPERIOR PRODUCTS
FAST LEAD TIMES
PROUDLY MADE IN THE USA
ISO CERTIFIED 9001:2000
800-967-9147
15315 Cornet Avenue
Santa Fe Springs, CA 90601**

Products	Features	Benefits
Bulk 400 Hz Cable: Single Conductors 1/0 & 2/0 Jacketed 7 Conductors 2/0 Jacketed 7 Conductors 2/0 with #2 Grd Jacketed 3 Conductors 2/0 Jacketed 4 Conductor 2/0 with #6 Grd Custom Designed Calbes	UL Listed MIL-DTL-3432 600 Volts Philafin Jacket Planetary Construction	Complies with NEC 310 and Military Standards Superior Performance to MIL-5756 Temperature Range from +125°C to -65°C Resistant to Aircraft Fuel, Ozone, Sunlight, Water, Oil, & Abrasion - Superior Durability Flame Resistance Superior to VW-1 and Mil5756 Meets Rigid US Mining Flame Tests
Cable Assemblies: 400 Hertz AC 28.5 DC	Neoprene Molded Connectors	Protection from Moisture & Corrosion; Resistant to Abrasion, Aircraft Fuel, Sunlight, Water, Oil, & Heat; Cost Effective with High Quality
Connectors: Field Replaceable Connectors	Neoprene	Resistant to Abrasion, Aircraft Fuel, Sunlight, Water, Oil, & Heat
Airport Lighting Cables: 600 Volts 5000 Volts	Cross Linked Polyethylene FAA-L-824C	Complies with Federal Aviation Administration Regulations; Available in Multi-Conductors or Single Conductors. Made by Philatron in the USA.

WWW.PHILATRON.COM

800-967-9147

Aerospace Industry Products

Description	Page
400 Hz Cable Assemblies - 4 Conductors No Leads	1
400 Hz Cable Assemblies - 4 Conductors - 2 Leads	2
400 Hz Cable Assemblies - 3 Phase / Split Phase	3
400 Hz Cables Assemblies - 3 Phase / Split Neutral	4
DC 28.5 Volts Cables Assemblies - 2 Conductors	5
400 Hz Field Replaceable Plugs	6
Airport Lighting Cable	7

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Ground Power Cable Assemblies

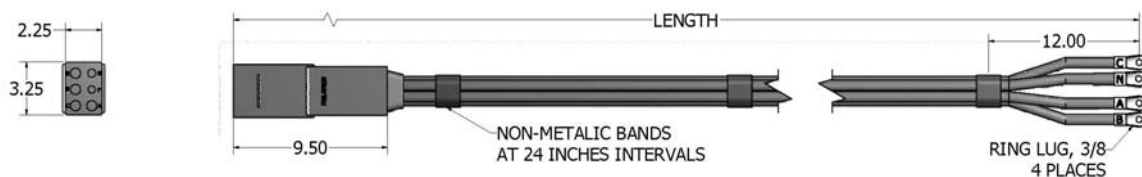
400 Hz AC Output

4 Conductors With Bands – No Control Leads

Integrally Neoprene Molded Plugs

Cable UL Listed and Certified to MIL-DTD-3432 Type HEE:

- 600 Volts AC
- Temperature Rating +105°C (221°F) to -65°C (-85°F)
- Resistant to Ozone, Aircraft Fuel, Sunlight, Oil & Water



PHILATRON PART NO.	LENGTH FEET	LENGTH METERS	TYPE DESIGNATION	MILITARY PART NO.	APPROX. WT./LBS.	CABLE CONFIGURATION
AC4-1020 AC4-1030 AC4-1040 AC4-1060	20 30 40 60	6.10 9.14 12.19 18.29	4-1/0 AWG SINGLE CONDUCTORS NO CONTROL LEADS E AND F SHUNTED IN PLUG TIN PLATED COPPER CONTACTS* NON-METALIC BANDS	MS90328-13M MS90328-14M MS90328-15M MS90328-16M	35 53 71 106	
AC4-2020 AC4-2030 AC4-2040 AC4-2060	20 30 40 60	6.10 9.14 12.19 18.29	4-2/0 AWG SINGLE CONDUCTORS NO CONTROL LEADS E AND F SHUNTED IN PLUG TIN PLATED COPPER CONTACTS* NON-METALIC BANDS	MS90328-19M MS90328-20M MS90328-21M MS90328-22M	51 73 95 138	

*Silver Plated Contacts Available Upon Request

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Ground Power Cable Assemblies

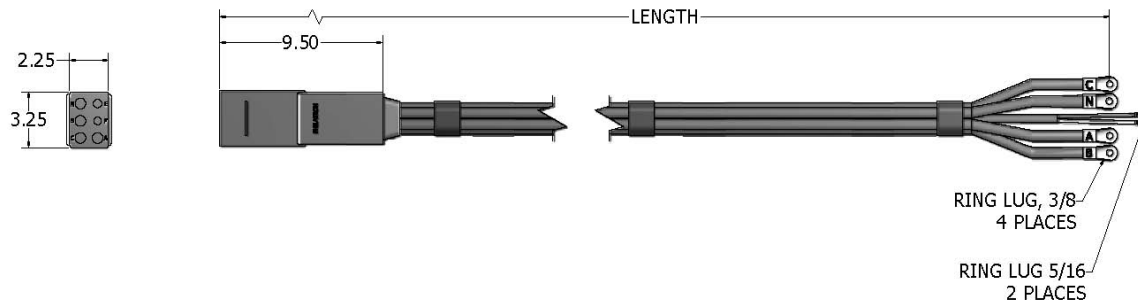
400 Hz AC Output

4 Conductors With Band – Two Control Leads

Integrally Neoprene Molded Plugs

Cable UL Listed and Certified to MIL-DTD-3432 Type HEE:

- 600 Volts AC
- Temperature Rating +105°C (221°F) to -65°C (-85°F)
- Resistant to Ozone, Aircraft Fuel, Sunlight, Oil & Water



PHILATRON PART NO.	LENGTH FEET	LENGTH METERS	TYPE DESIGNATION	MILITARY PART NO.	APROX WT/LBS	CABLE CONFIGURATION
AC4-1020C	20	6.10	4-1/0 AWG SINGLE CONDUCTORS	MS90328-25M	45	
AC4-1030C	30	9.14	1-2/12 AWG CONTROL LEADS	MS90328-26M	56	
AC4-1040C	40	12.19	TIN PLATED CONTACTS*	MS90328-27M	75	
AC4-1060C	60	18.29	NON-METALIC BANDS	MS90328-28M	112	
AC4-2020C	20	6.10	4-2/0 AWG SINGLE CONDUCTORS	MS90328-31M	53	
AC4-2030C	30	9.14	1-2/12 AWG CONTROL LEADS	MS90328-32M	76	
AC4-2040C	40	12.19	TIN PLATED CONTACTS*	MS90328-33M	98	
AC4-2060C	60	18.29	NON-METALIC BANDS	MS90328-34M	143	
AC4S-1020C	20	6.10	4-1/0 AWG SINGLE CONDUCTORS		45	
AC4S-1030C	30	9.14	1-2/12 AWG CONTROL LEADS		56	
AC4S-1040C	40	12.19	E AND F SHUNTED IN PLUG		75	
AC4S-1060C	60	18.29	TIN PLATED CONTACTS* NON-METALIC BANDS		112	
AC4S-2020C	20	6.10	4-2/0 AWG SINGLE CONDUCTORS		53	
AC4S-2030C	30	9.14	1-2/12 AWG CONTROL LEADS		76	
AC4S-2040C	40	12.19	E AND F SHUNTED IN PLUG		98	
AC4S-2060C	60	18.29	TINPLATED CONTACTS* NON-METALIC BANDS		143	

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Ground Power Cable Assemblies

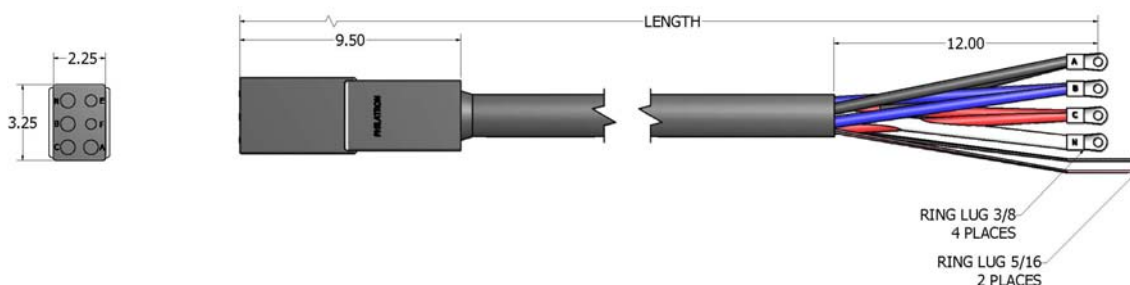
400 Hz AC Output

Three Phase / Split Phase

Integrally Neoprene Molded Plugs

Cable UL Listed / Certified to MIL-DTD-3432 Type HEE:

- 600 Volts AC
- Temperature Rating +105°C (221°F) to -65°C (-85°F)
- Resistant to Ozone, Aircraft Fuel, Sunlight, Oil & Water



PHILATRON PART NO.	LENGTH FEET	LENGTH METERS	TYPE DESIGNATION	APROX WT/LBS	CABLE CONFIGURATION
AC6-1020J AC6-1030J AC6-1040J AC6-1060J	20 30 40 60	6.10 9.14 12.19 18.29	6-4 AWG SINGLE CONDUCTORS 1-1 AWG SINGLE CONDUCTOR 6-18 AWG SINGLE CONDUCTORS TIN PLATED COPPER CONTACTS*	43 60 77 112	
AC6-2020J AC6-2030J AC6-2040J AC6-2060J	20 30 40 60	6.10 9.14 12.19 18.29	6-2 AWG SINGLE CONDUCTORS 1-1/0 AWG SINGLE CONDUCTOR 6-18 AWG SINGLE CONDUCTORS TIN PLATED COPPER CONTACTS*	56 80 104 153	
AC6S-1020J AC6S-1030J AC6S-1040J AC6S-1060J	20 30 40 60	6.10 9.14 12.19 18.29	6-4 AWG SINGLE CONDUCTORS 1-1 AWG SINGLE CONDUCTOR E AND F SHUNTED IN PLUG TIN PLATED COPPER CONTACTS*	42 58 75 108	
AC6S-2020J AC6S-2030J AC6S-2040J AC6S-2060J	20 30 40 60	6.10 9.14 12.19 18.29	6-2 AWG SINGLE CONDUCTORS 1-1/0 AWG SINGLE CONDUCTOR E AND F SHUNTED IN PLUG TIN PLATED COPPER CONTACTS*	55 79 102 149	

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Ground Power Cable Assemblies

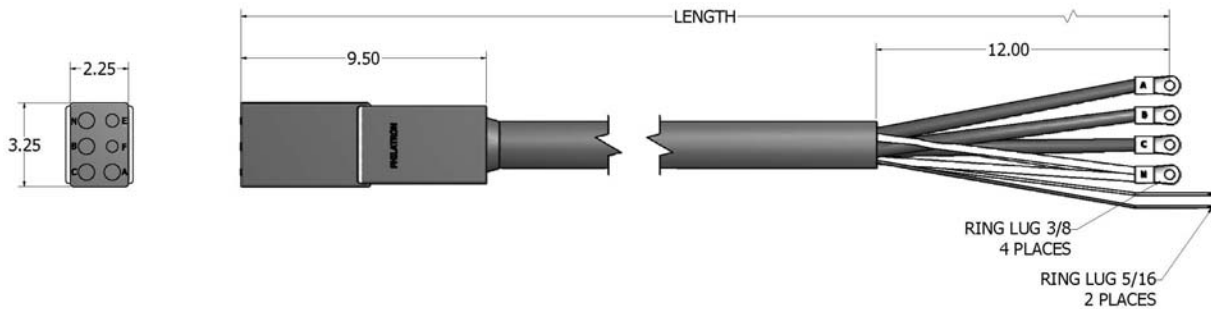
400 Hz AC Output

Three Phase / Split Neutral

Integrally Neoprene Molded Plugs

Cable UL Listed and Certified to MIL-DTD-3432 Type HEE:

- 600 Volts AC
- Temperature Rating +105°C (221°F) to -65°C (-85°F)
- Resistant to Ozone, Aircraft Fuel, Sunlight, Oil & Water



PHILATRON PART NO.	LENGTH FEET	LENGTH METERS	TYPE DESIGNATION	APROX. WT.	CABLE CONFIGURATION
AC3-1020J AC3-1030J AC3-1040J AC3-1060J	20 30 40 60	6.10 9.14 12.19 18.29	3-1/0 AWG SINGLE CONDUCTORS 3-6 AWG SINGLE CONDUCTORS 2-12 AWG SINGLE CONDUCTORS TIN PLATED COPPER CONTACTS*	50 71 91 133	
AC3-2020J AC3-2030J AC3-2040J AC3-2060J	20 30 40 60	6.10 9.14 12.19 18.29	3-2/0 AWG SINGLE CONDUCTOR 3-4 AWG SINGLE CONDUCTORS 2-12 AWG SINGLE CONDUCTORS TIN PLATED COPPER CONTACTS*	60 85 111 163	
AC3S-1020J AC3S-1030J AC3S-1040J AC3S-1060J	20 30 40 60	6.10 9.14 12.19 18.29	3-1/0 AWG SINGLE CONDUCTOR 3-6 AWG SINGLE CONDUCTORS E AND F SHUNTED IN PLUG TIN PLATED COPPER CONTACTS*	48 68 88 128	
AC3S-2020J AC3S-2030J AC3S-2040J AC3S-2060J	20 30 40 60	6.10 9.14 12.19 18.29	3-2/0 AWG SINGLE CONDUCTOR 3-4 AWG SINGLE CONDUCTORS E AND F SHUNTED IN PLUG TIN PLATED COPPER CONTACTS*	58 83 107 157	

*Silver Plated Contacts Available Upon Request

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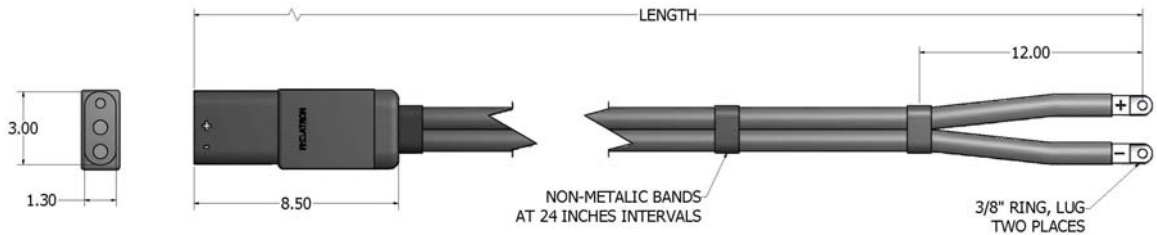
Ground Power Cable Assemblies

DC Output

**Two Conductors With Band – No Control Leads
Integrally Neoprene Molded Plugs**

Cable UL Listed and Certified to MIL-DTD-3432 Type HEE:

- 28.5 Volts DC
- Temperature Rating +105°C (221°F) to -65°C (-85°F)
- Resistant to Ozone, Aircraft Fuel, Sunlight, Oil & Water



PHILATRON PART NO.	LENGTH FEET	LENGTH METERS	TYPE DESIGNATION	MILITARY PART NO.	APROX. WT/LBS	CABLE CONFIGURATION
DC2-4020 DC2-4030 DC2-4040 DC2-4060	20 30 40 60	6.10 9.14 12.19 18.29	2-4/0 AWG SINGLE CONDUCTORS TIN PLATED COPPER CONTACTS* NON-METALIC BANDS	MS90347-19M MS90347-20M MS90347-21M MS90347-22M	37 54 71 104	
DC2-2020 DC2-2030 DC2-2040 DC2-2060	20 30 40 60	6.10 9.14 12.19 18.29	2-2/0 AWG SINGLE CONDUCTORS TIN PLATED COPPER CONTACTS* NON-METALIC BANDS	MS90347-13M MS90347-14M MS90347-15M MS90347-16M	26 36 47 69	
DC2-1020 DC2-1030 DC2-1040 DC2-1060	20 30 40 60	6.10 9.14 12.19 18.29	2-1/0 AWG SINGLE CONDUCTORS TIN PLATED COPPER CONTACTS* NON-METALIC BANDS	MS90347-7M MS90347-8M MS90347-9M MS90347-10M	22 31 39 57	

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Field Replaceable Plugs

400 Hz AC Output
Integrally Neoprene Molded Plugs
Includes Hardware and Shrink Tubing



PHILATRON PART NO.	TYPE DESIGNATION	MILITARY PART NO.	APROX. WT.
AC4-A10	4-1/0 AWG SINGLE CONDUCTORS NO CONTROL LEADS	MS25486-16	8 lbs.
AC4-A20	4-2/0 AWG SINGLE CONDUCTORS NO CONTROL LEADS	MS25486-17	8 lbs.
AC4-A10C	4-1/0 AWG SINGLE CONDUCTORS AND CONTROL LEADS	MS25486-30	8lbs
AC4-A20C	4-2/0 AWG SINGLE CONDUCTORS AND CONTROL LEADS	MS25486-31	8 lbs.
AC6-A10C	1/0 AWG SPLIT PHASE SINGLE JACKET AND CONTROL LEADS	_____	8lbs.
AC6-A20C	2/0 AWG SPLIT PHASE SINGLE JACKET AND CONTROL LEADS	_____	8lbs.
AC3-A10C	1/0 AWG SPLIT NEUTRAL SINGLE JACKET AND CONTROL LEADS	_____	8 lbs.
AC3-A20C	2/0 AWG SPLIT NEUTRAL SINGLE JACKET AND CONTROL LEADS	_____	8lbs.

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Airport Lighting Cable (ALC)



FAA-L-824 Type C
Cross Linked Polyethylene Insulation
+90°C (+194°F) -65°C (-85°F) - Wet or Dry
Complies With FAA Advisory Circular 150/5345-47B

600 / 1000 Volts - ICEA S-95-658 NEMA WC70

Part Number	Size AWG	Stranding	Insulation Wall Inches	Diameter Inches	Weight/Lbs Per 1000'
ALC-1KV-12	12	7	.060	.215	35
ALC-1KV-10	10	7	.060	.240	50
ALC-1KV-08	8	7	.060	.270	70
ALC-1KV-06	6	7	.060	.305	105
ALC-1KV-04	4	7	.060	.355	155

5000 Volts - ICEA S-96-659 NEMA WC71 (Copper Conductors Covered With Semi-Conducting Material)

Part Number	Size AWG	Stranding	Insulation Wall Inches	Diameter Inches	Weight/Lbs Per 1000'
ALC-5KV-08	8	7	.110	.380	89
ALC-5KV-06	6	7	.110	.429	125
ALC-5KV-04	4	7	.110	.460	180

Multi-Conductors and Custom Design Available Upon Request