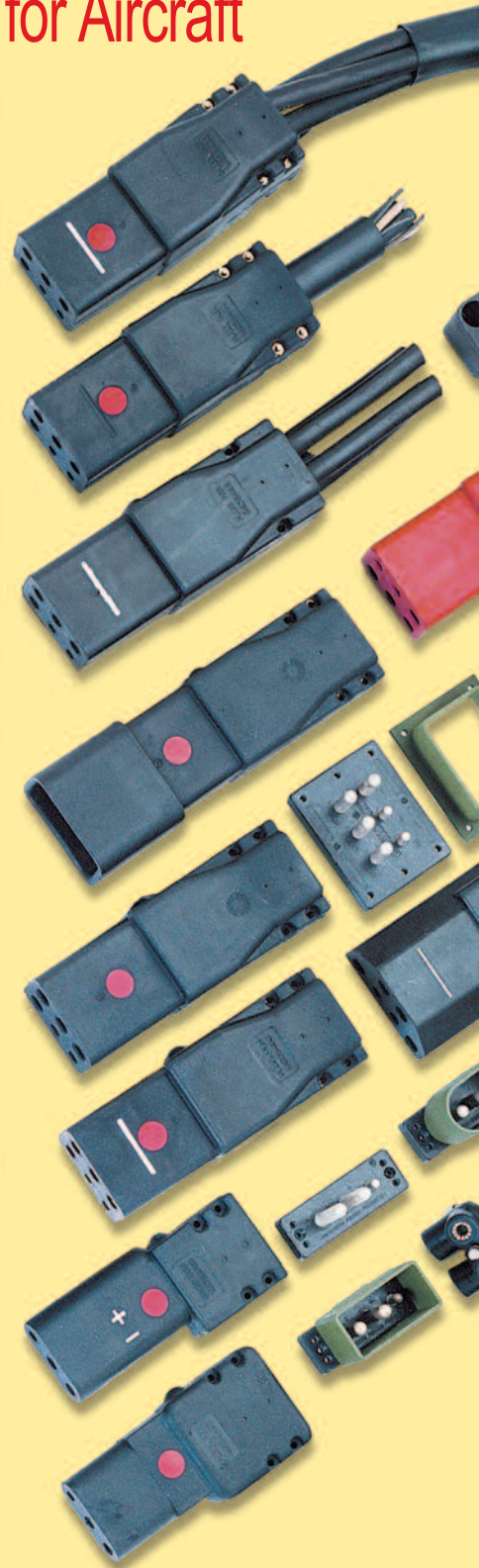


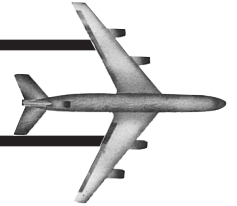
# Anderson Airmotive

Your Power Connection

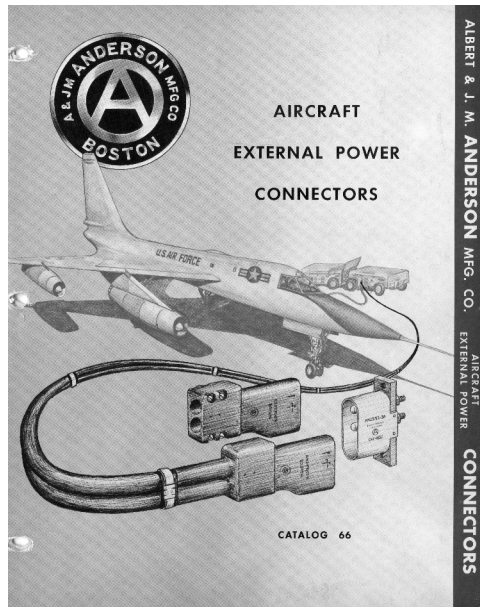
Ground Power &  
Battery Connectors  
for Aircraft



# THE ANDERSON FAMILY LEGACY



*The name Anderson is known as an innovative leader in the Ground Power industry with over 60 years of experience in product design and manufacturing.*



*One of the first industry catalogues for Aircraft External Ground Power Connectors about early 1950's.*

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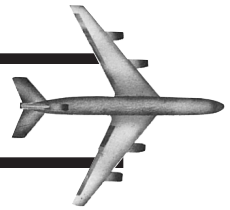
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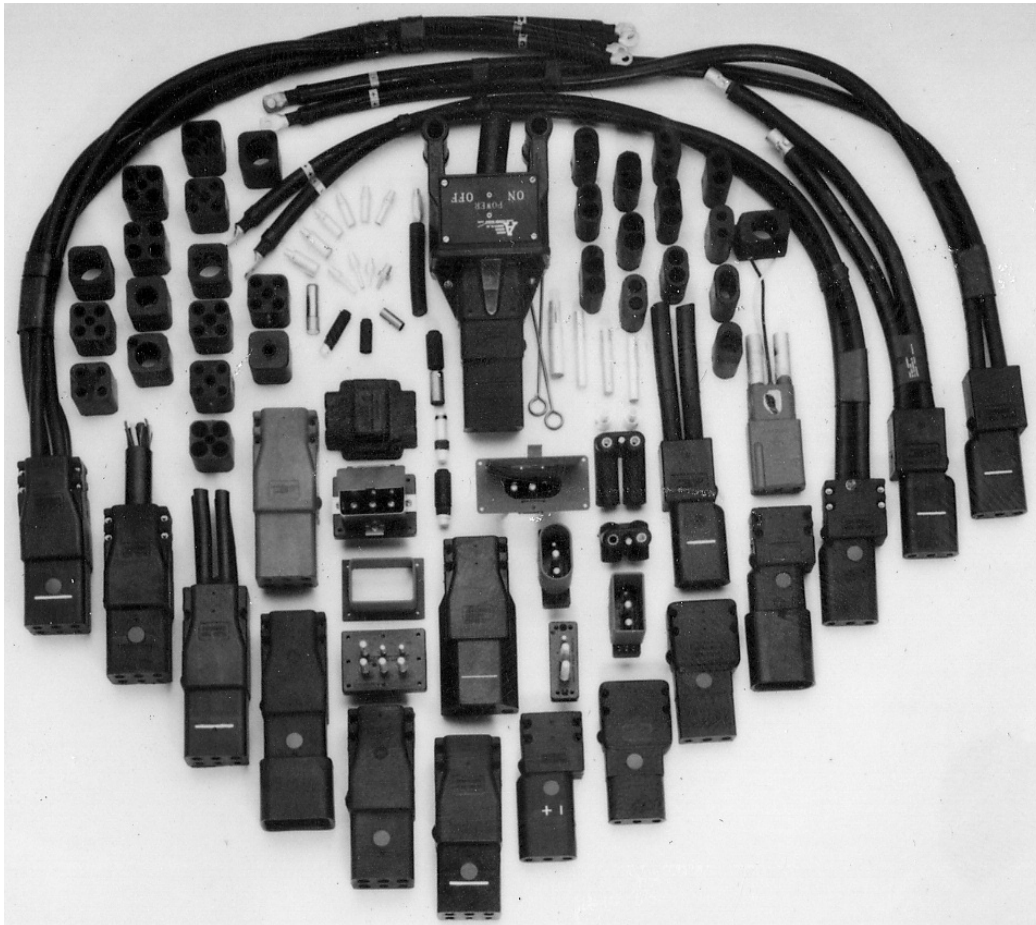
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# THE ANDERSON FAMILY NOW

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SAVE TIME AND MONEY WITH ANDERSON AIRMOTIVE – YOUR GREEN CHOICE.



Anderson Airmotive continues the tradition of design and manufacturing excellence by producing and offering the largest selection of qualified plugs, cable assemblies and receptacles covering all commercial and military requirements for 28VDC, 270VDC, 80VDC, 200VAC, and 400VAC.

Our family of Attachable® plugs are designed to be simple to assemble in the field, durable and cost effective with many options for safety and protection.

Our family of rugged receptacles offers you a choice of male or female design.

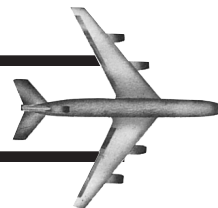
Our family of power cables is unequalled in the industry. Anderson Airmotive is the only company to offer you a choice of: (1) making/repairing your own ground power cables with our family of high quality and durable Attachable® plugs, or (2) buying a wide variety of new cable assemblies with either Attachable® or Overmolded heads, from the factory.

The “Green” contribution: With the earth’s resources being consumed at ever increasing rates, it makes more sense than ever to repair your own ground power cable assemblies, in the field, with our service proven Attachable® plugs. This simple operation will not only keep your ground service running, but will eliminate costs associated with packaging, shipping and waste removal. When you choose Anderson, you choose responsibility to the planet, as well.

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## **The Attachable® FAMILY OF PRODUCTS**

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### **THE ANDERSON AIRMOTIVE ADVANTAGE**

ANDERSON AIRMOTIVE is the only manufacturer with a complete line of QPL'd (MIL-C-7974D) Attachable® Plugs, as well as over molded AC and DC power connectors and cable assemblies. The connectors and assemblies have passed the stringent US and Canadian QPL tests. In addition Anderson is approved to German Standard VG 85211 and meets ISO461-1 and ISO461-2.

---

#### **THE ATTACHABLE® PLUG FAMILY INCLUDES:**

##### **THE GRABBER CONTACT® PLUG / Portable Receptacle**

The "standard" for over 10 years. The service proven Grabber Contact Attachable® plug has **watertight**, (IP068) molded-in contacts that are finger proof (UL1977) (EN1175) (VL1950) with extra safety insulation. The plug has been designed to assure consistent contact even on worn pins and under heavy loads commonly encountered on the ramp.

Listed on QPL for AS7974D

Order R67GxxE AC Plug  
R65GxxE DC Plug  
R112GxxE AC Portable Receptacle  
R68GxxE DC Portable Receptacle  
R64 GxxE DC Plug  
R71G xxE DC Plug  
R72G xxE DC Plug  
R78GxxE DC Portable Receptacle

---

##### **THE ATTACHABLE POWER NOSE® PLUG**

The Attachable Power Nose® (APN) is designed to be the **quickest assembly** and **lowest overall service** cost in the industry. The modular construction allows easy replacement of worn components (contacts, nose, back end) for extended service life and quick repair. The body and nose are molded from Anderson's highly abrasion resistant proprietary Hypalon® rubber.

Order R90GxxE(w) AC Plug  
R93GxxE(w) DC Plug

---

##### **THE ATTACHABLE POWER NOSE® WITH SWITCHES, LEDs**

The newest Attachable Power Nose® (APN) for Composite or single conductors has integral O-ring seals that eliminate the need for potting. The super tough clam shells have high impact strength and great wear resistance. Waterproof switches and LEDs are available.

Order R91GxxE(y)(z)(w) AC Plug  
R92GxxE(y)(z)(w) DC Plug

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##### **THE 4 OR 6 WIRE DC PLUGS**

These plugs are designed to accommodate two wires per leg with optional sensing leads and switches. The plugs allow extra long cable assemblies at high current without excess voltage drop. Optional crimp lugs make assembly easier.

Order R765GxxE(w)(v) Plug  
R771GxxE(w)(v) Plug  
R768GxxE (w)(v) Portable Receptacle  
R778GxxE (w)(v) Portable Receptacle

---

##### **THE REPLACEABLE CONTACT PLUG**

The original Attachable® with **replaceable** contacts has been in service for twenty five plus years. It is designed so that worn power contacts can be replaced.

Order R67GxxB AC Plug  
R65GxxB DC Plug

---

##### **270 DC PLUG**

Plugs are designed for 270V DC applications in Attachable® and overmolded versions.

Order R270GxxE

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##### **80V FAST CHARGE: B1B 230/400V AC**

Plugs are designed for 80V DC fast charge application. B1B Military Plug for 230/400V application.

Order R80GxxE  
R69GxxE  
R129GxxE

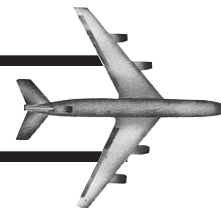
All plugs are available with sensing leads or switches that allow power-up only when 80-90% engaged. All of our connectors are made from high quality, proprietary synthetic elastomer rubber, that is specially formulated for excellent chemical and abrasion resistance. Each connector has heavy silver plated tellurium copper contacts with quad beams and engineered steel springs that assure consistent contact for thousands of cycles.

xx denotes cable size/configuration    ®Attachable is a registered trademark of Anderson Airmotive Products Co., Inc.

W-denotes sensing options    Z-LED options    Y-switch options    V-lug options



## **PLUG and Cable Assembly QPL Tests**



### **QUALIFICATION TESTS TO MIL-C-7974D for Ground Power Plugs and Cable Assemblies; 400 Hz AC, 28V DC**

#### **A. B. Dimensions and Examination of product**

Measure all dimensions as per print for MS25486 AC; MS 25488 DC

#### **C. Structural Integrity**

Remove 1/8 inch of plug nose sides and perform all tests. This test checks performance of plug after considerable wear as in actual use.

#### **D. Initial Mating forces**

Measure mating forces with 2 sets of receptacles (MS90362); one set +.001 from nominal; one set -.001 from nominal. Insertion must be less than 100 lbs and extraction force of 60-100 lbs for AC; insertion 50 lbs and extraction of 30-50 lbs for DC. Force measured at 8 inches per minute.

#### **E. Mating forces after fluid immersion**

One sample is immersed in hydraulic oil and one sample is immersed in jet fuel for 20 hours. Mating forces must meet values as in C. No dimensional changes shall be evident.

#### **F. Force measurement for individual contacts**

Individual power contacts shall measure 24 lbs maximum insertion (A,B,C,N), extraction 16-24 lbs.; auxiliary contacts shall measure 21lbs max. (E,F).

#### **G. Impact after low temperature exposure**

Plugs shall be cooled to -55C for 24 hours. An impact force of 20 ftlbs shall be applied to each side 3 times. No damage is allowed.

#### **H. Mating at low temperature**

Plugs shall be cooled to -55C for 24 hours and then engaging as in D. The values shall not exceed 150% of nominal values.

#### **I. Life flexing**

A plug is mated with a standard receptacle 1/4 inch from full mating. The assembly is then flexed with 20lbs force in a reciprocating mechanism for 10,000 cycles at 10 cycles per minute. The plug shall pass all tests.

#### **J. Dielectric strength after humidity exposure**

Plugs shall be maintained in a humidity chamber cycled 10 times as per MIL-STD-202. All samples must pass a test potential of 2000VDC with current leakage of less than 1.0 milliamper.

#### **K. Voltage drop following salt spray**

Plugs shall be subjected to a 5% salt spray test for 48 hours as per MIL-STD-202. The maximum voltage drop at 300 Amps shall be 45 millivolts after 5 minutes.

#### **L. Mating forces after current overload**

Plugs shall be tested with a current overload of 700 Amps for 2/0 (7/0mm) and 1000 Amps for 4/0 (120mm) for 3 minutes. There shall be no shorting, loss of continuity, burning, rupture or other damage preventing completion of test.

#### **M. Cable attachment to plug**

A cable assembly shall be tested with a pull force on each conductor of 100 lbs. No damage shall result from this test.

#### **N. Cable attachment to lug terminals**

Items shall be tested in a tensile tester where each 70 mm conductor shall have a tensile strength of at least 750 lbs pull out force.

#### **O. Plug static strength**

Plugs are mounted on a flat surface and a force 1000 lbs is applied. No damage shall result and plugs shall pass all tests.

#### **P. Plug bending strength**

Plugs are mated with a receptacle and mounted horizontally with a weight of 64 pounds suspended at the midpoint of the plug for 5 minutes on each side of the plug. For DC plugs the weight is reduced to 32 lbs. The plug shall pass insertion, extraction after this test and show no damage.

#### **Q. Band tensile strength**

A cable assembly shall be heated to 71°C for 6 hours then a force of 300 lbs shall be applied to pull apart the cable bands. There shall be no tearing of bands and shifting of more than 1 inch.

#### **R. Misengagement**

The plug is rotated 180° and a mating force of 150 lbs is applied. No electrical contact shall occur with the auxiliary contacts.

#### **S. Abrasion resistance**

The plug body material shall have an abrasion resistance of at least 75% of the standard reference compound per ASTM D1630-83.

#### **T. Cable attachment to crimp barrel**

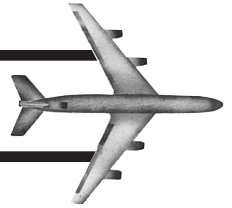
As per test M, N

#### **U. Ozone resistance**

A plug is heat aged at 70°C for 70 hours and then at ambient for four days. The plug shall then be ozone tested as per ASTM D1149 at 38°C for 168 hours at 50 parts ozone per hundred million parts air. No cracks shall be visible under seven power magnification after test.

# BASIC PLUG ASSEMBLY PROCEDURE

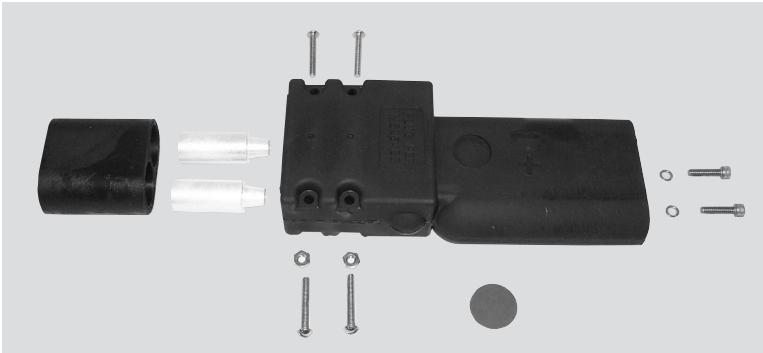
## GUIDE TO MILITARY PLUG STANDARDS



### Repair Ground Power Cable Assemblies . . . Or Make New Ones.

A full line of ATTACHABLE® Plugs, Receptacles and accessories now available from ANDERSON makes it possible for you to have an adequate supply of cable assemblies on hand at all times.

- Reduces inventory cost and space problems.
- Keeps all ground power units operational without prolonged tie-ups waiting for new cable assemblies
- More positive, longer lasting connections.
- No messy rubber potting or vulcanizing.
- Qualified and approved for use under all appropriate military specifications for both replacement plug and new cable assemblies.
- Environmentally friendly



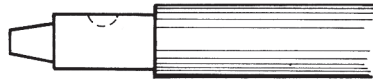
R65 WITH COMPONENTS

### Assembly Procedure Illustrated



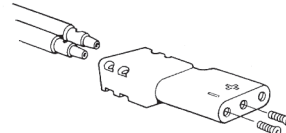
STEP 1

Prepare cables in accordance with Instruction Card included with each unit packaging.



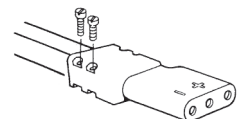
STEP 2

Crimp or solder lugs to cables\*\*



STEP 3

Assemble cables to plug.



STEP 4

Secure plug to cable jackets.

### Guide to Military Standards for Attachable or Overmolded Cable Assemblies

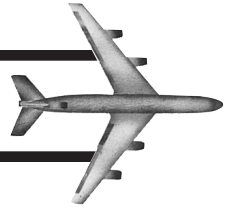
ANDERSON CATALOG NUMBER	MS NUMBER ATTACHABLE PLUG	FOR CABLE ASSEMBLY MS NUMBER	FORMER CABLE ASSEMBLY NUMBER
R65G1E	MS25488-25	AS(MS)90347-7, -8, -9, -10, -11, -12	MS25488-6, -7, -8, -9, -10, -11
R65G2E	MS25488-26	AS(MS)90347-13, -14, -15, -16, -17, -18	MS25488-12, -13, -14, -15, -16, -17
R65G3E	MS25488-27	AS(MS)90347-19, -20, -21, -22, -23, -24	MS25488-18, -19, -20, -21, -22, -23
*R65G7E	—	AS(MS)24121-1	MS24121-1
R67G4E	MS25486-16	AS(MS)90328-13, -14, -15, -16, -17, -18	MS25486-4, -5, -6, -7, -8, -9
R67G5E	MS25486-30	AS(MS)90328-25, -26, -27, -28, -29, -30	MS25486-18, -19, -20, -21, -22, -23
*R67G12E	—	AS(MS)24208-1	MS24208-1
R67G21E	MS25486-17	AS(MS)90328-19, -20, -21, -22, -23, -24	MS25486-10, -11, -12, -13, -14, -15
R67G36E	MS25486-31	AS(MS)90328-31, -32, -33, -34, -35, -36	MS25486-24, -25, -26, -27, -28, -29
R68GxxE	—	(Mating Unit for CAT. R65)	(Mating Unit for CAT. R65)
R71G6E	MS25487-10	AS(MS)25019-20, -30, -40, -60, -80, -100	MS25487-3, -4, -5, -6, -7, -8
R112GxxE	—	(Mating Unit for CAT. R67)	(Mating Unit for CAT. R67)

\*2 Heads Required for Cable Assembly.

\*\*Recommended crimp tool is the Anderson Electric VC-7 crimp tool.  
Consult factory for further information.



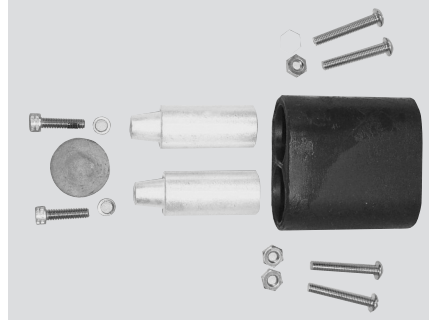
# DC PLUGS ATTACHABLE® 3-POLE



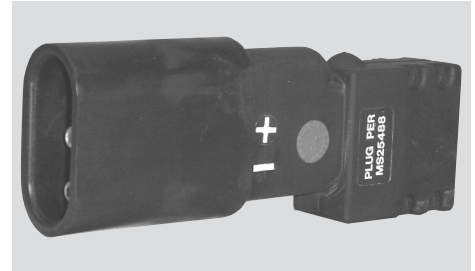
## Attachable® Portable Plugs and Receptacles, 3 Pole. R65 and R68 Series 28VDC



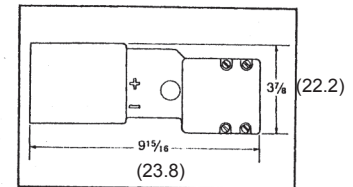
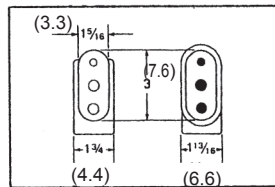
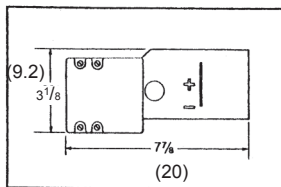
R65 PORTABLE PLUG



R65 GROMMET "G" KIT



R68 PORTABLE Receptacle



Electrical Ratings: 30°C rise Power Components, 450A Continuous 1500A for 1 minute, Control Components, 35A continuous

The ATTACHABLE® Portable Plugs and Receptacles are molded of a proprietary synthetic elastomer, a compound specially selected for its resistance to moisture and chemicals as well as its ability to stand up under severe wear and tear. Power contacts are of machined copper, silver-plated to reduce contact resistance. Contact lugs may be either crimped or

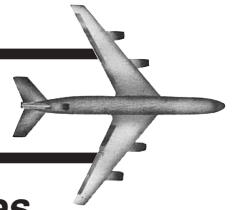
soldered to cables. The R65 and R68 series are manufactured to MS25488 specifications and are listed on Qualified Product List (QPL) for MIL-C-7974D. Portable receptacles are particularly useful where a portable connection is required or for extending existing cables.

### 3-Pole DC 28V Attachable® Plugs-2 wire

COMPLETE PLUG NO.	MILITARY PART NO.	BODY ONLY PART NO	CABLE ACCOMMODATION	GROMMET KIT NO.	PORT RECEPTACLE PART NO.	Schematic
R65G1E	MS25488-25	110368G2E	2-1/0(50mm) MIL-C-5756C Single Conductor	112080G1	R68G1E	
R65G2E	MS25488-26	110368G2E	2-2/0(70mm) MIL-C-5756C Single Conductor	112080G2	R68G2E	
R65G3E	MS25488-27	110368G2E	2-4/0(120mm) MIL-C-5756C Single Conductor	112080G3	R68G3E	
R65G6E		110368G2E	2-4/0(120mm) Oval Twin Conductor	112080G6	R68G6E	
R65G8E		110368G2E	2-1/0(35mm) Welding Single Conductor	112080G8	R68G8E	
R65G10E		110368G2E	2-4/0(120mm) Welding Single Conductor	112080G10	R68G10E	
R65G20E		110368G2E	2-2/0(70mm) Welding Single Conductor	112080G20	R68G20E	
R65G25E		110368G2E	2-3/0 (90mm) welding Single Conductor	112080G25	R68G25E	
R65G43E		110368G2E	#8/2 (8mm) welding Single Jacket	112080G43	R68G43E	

Other models available for different cable sizes and configurations

# DC PLUGS ATTACHABLE® 3-POLE

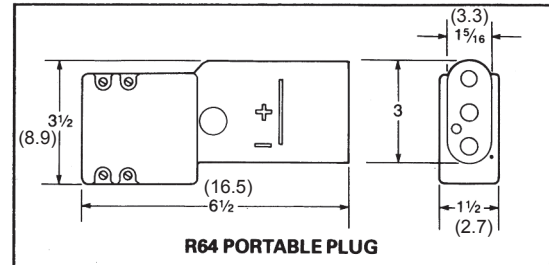


## Attachable® Portable Plugs and Receptacles, R64 and R71 Series

The R64 Series are manufactured with MS25488 components but have a more compact design for smaller wires.



**R64 PORTABLE PLUG**



**R64 PORTABLE PLUG**

### ORDERING INFORMATION

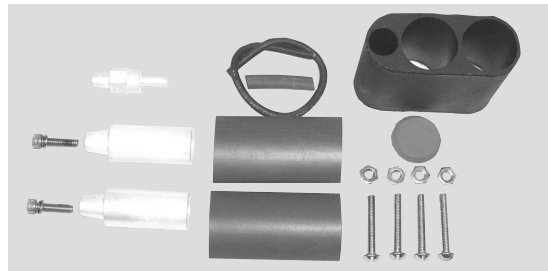
Catalog No. Portable Plug	Cable Accommodation (All MIL-C-5756 Type Cables)	Schematic
R64G1B	Two #2/0 (70mm) and One #12 (3mm) Conductors Under Single Oval Sheath	
R64G2B	Two #4/0 (120mm) and One #12 (3mm) Conductors Under Single Oval Sheath	
R64G3B	Two #1/0 (50mm) and One #12 (3mm) Conductors Under Single Oval Sheath	
R64G3E	Two #1/0 (50mm) Welding Cable Single Conductor	
R64G10E	Two #1/0 (50mm) Welding Single Conductors	
R64G12E	Two #16 (1.5mm) Welding Cable Single Conductors	

## 3-Pole DC 28V Attachable® Plugs-3 wire; Rect/Oval Nose; Split Control Sensing

The 71 Series are manufactured to MS25487 specifications.



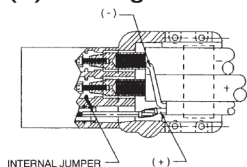
**R71 PORTABLE PLUG  
(R) Rectangular Nose**



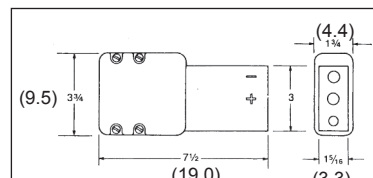
**DC GROMMET KIT FOR R71**



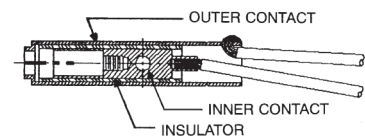
**R71 PORTABLE PLUG  
(O) Oval Nose**



**SENSING LEAD SCHEMATIC R72**



**R71 PORTABLE PLUG "R"**



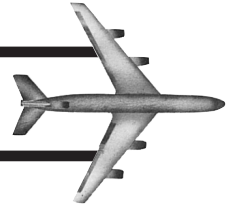
**SENSING LEAD 2 WIRE**

Complete Plug No.	Nose R-Rect O-Oval	Military Part No.	Body Only Part No.	Cable Accomodation	Portable Recept.#	Grommet Kit No.	Control	Split Schematic
R71G3E	R		110371G1E	2-4/0 (120mm) TWIN OVAL; #8/1(8mm) AUX.	R78	112085G3	NO	
R71G4E	R		113071G1E	2-4/0 (120mm) TWIN OVAL; #10/1(5mm) AUX.	R78	112085G4	NO	
R71G5E	O		113071G2E	2-4/0 (120mm) Mil-C-5756C Single Conductor; #8/1 (8mm)	R78	112085G5	NO	
R71G6E	R	MS25487-10	113071G1E	2-4/0 (120mm) Mil-C-5756C Single Conductor; #8/1 (8mm) Aux.	R78	112085G6	NO	
R71G9E	O		113071G2E	2-2/0 (70mm) Welding Single Conductor, #12/2 (2x3mm) Aux.	R78	112085G9	NO	
R71G11E	O		113071G2E	2-2/0 (70mm) Welding Single Conductor, #12/2 (2x3mm) Aux.	R78	112085G11	NO	
R71G15E	R		113071G1E	2-2/0 (70mm) Mil-C-5756C Single Conductor;; #8/1 (8mm) Aux.	R78	112085G15	NO	
R72G5E	O		113072G2E	2-4/0 (120mm) Mil-C-5756C Single Conductor; #8/1 (8mm)Aux. with split control, sensing lead lead (1 wire)	N/A	112085G5	YES	
R71G5E2S	O		113072G2E	2-4/0 (120mm) Mil-C-5756C Single Conductor; #8/1 (8mm)Aux. with split control, sensing lead lead (2 wire)	N/A	112085G5	YES	

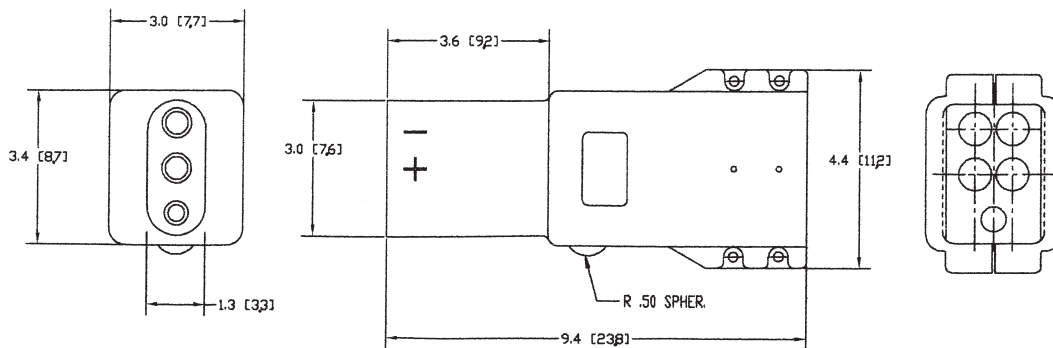
Other Models available for different cable sizes and configurations



## DC PLUGS ATTACHABLE® 3-POLE



**Attachable® Portable Plugs and Receptacles, 3 Pole, 4, 5, 6 wire. R765 and R771 Series 28 VDC**



Electrical Ratings: 30°C rise Power Components, 450A Continuous 1500A for 1 minute, Control Components, 35A continuous

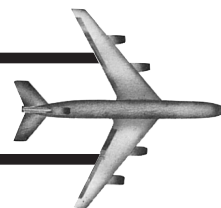
### 3-Pole DC 28V Attachable® Plugs-4,5,6 wire; Split Control Sensing

Complete Plug No.	Configuration	Body Only Part no.	Cable Accomodation	Grommet Kit No.	Split Control	Portable Receptacle	Schematic
R765G1E (V)	4-wire	110381G2E	4-1/0 (50mm) Mil-C-5756C Single Conductors	112086G1	NO	R768G1E	
R765G2E (V)	4-wire	110381G2E	4-2/0 (70mm) Mil-C-5756C Single Conductors	112086G2	NO	R768G2E	
R765G3E (V)	4-wire	110381G2E	4-4/0 (120mm) Mil-C-5756C Single Conductors	112086G3	NO	R768G3E	
R771G1E (V)	5-wire	110382G2E	4-1/0 (50mm) Mil-C-5756C Single Conductors; #8(8mm)/1 Aux.	112087G1	NO	R778G1E	
R771G2E (V)	5-wire	110382G2E	4-2/0 70mm) Mil-C-5756C Single Conductors; #8(8mm)/1 Aux.	112087G2	NO	R778G2E	
R771G3E (V)	5-wire	110382G2E	4-4/0 (120mm) Mil-C-5756C Single Conductors; #8(8mm)/1 Aux.	112087G3	NO	R778G3E	
R771G30E (V)	5-wire	110382G2E	4-70mm Single Conductors; #12/2(2x3mm) Aux.	112087G30	NO	R778G30E	
R771G1E(W)(V)	6-wire	110383G2E	4-1/0 (50mm) Mil-C-5756C Single Conductors; #16/2 (2x1.3mm) Sensing Aux.	112087G1	YES		
R771G2E(W)(V)	6-wire	110383G2E	4-2/0 (70mm) Single Conductors; #16/2 (2x1.3mm) Sensing	112087G2	YES		

#### Other Models available for different cable sizes and configurations

W= sensing options      V= lug options  
 S1= one wire              1= solder lugs  
 S2= two wire              2= crimp lugs  
 SW= sensing switch  
 SWA= sensing switch and auxiliary

# AC PLUG ATTACHABLE® 6-POLE

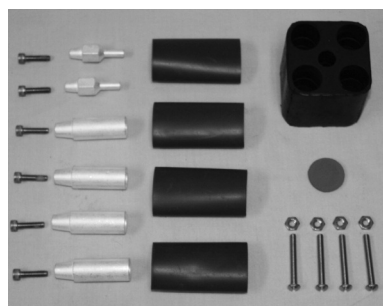
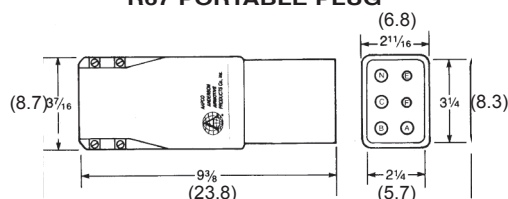


**AC 115/200 VOLTS 400 Hz**

**Attachable® Portable Plugs and Receptacles, 6 Pole, R67 and R112 Series**



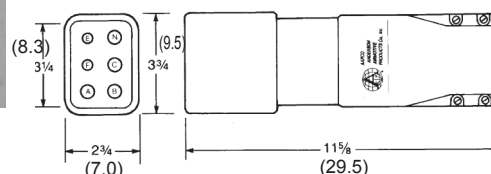
**R67 PORTABLE PLUG**



**R67 GROMMET "G" KIT**



**R112 PORTABLE RECEPTACLE**



The ATTACHABLE® Portable Plugs and Receptacles are molded of Anderson Synthetic Elastomer\*, a proprietary compound specially selected for its resistance to moisture and chemicals as well as its ability to stand up under severe wear and tear. Power contacts are silver-plated over machined copper to reduce contact resistance. Contact lugs may be either crimped or soldered to cables. The ATTACHABLE® Plugs and Receptacles are manufactured to MS25486 specifications and are listed on Qualified Product List (QPL) for MIL-C-7974. (AS 7974)

The R67 series plugs mate with either the R112 series of Portable Receptacles or with the fixed receptacles. Portable Receptacles are particularly useful where a portable connection is required or for extending existing cable assemblies.

Six-pole ATTACHABLE Portable Plugs and Receptacles may be furnished in many combinations of power and control contacts, cable sizes and internal wiring arrangements.

Electrical Ratings: 30°C rise Power Components, 450A Continuous 1500A for 1 minute, Control Components, 35A continuous

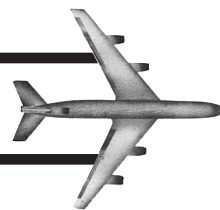
## 6-Pole AC 115/200V 400Hz Attachable® Plugs

Complete Plug No.	Military Part No.	Body Only Part no.	Cable Accomodation	Grommet Kit No.	Portable Receptacle Part No.
R67G4E	MS25486-16	110369G4E	4-1/0 (50mm) Mil-C-5756C Single Conductor	112081G4	R112G4E
R67G5E	MS25486-30	110369G4E	4-1/0 (50mm) Mil-C-5756C Single Conductor; 12/2 (2x3mm)Aux.	112081G5	R112G5E
R67G7E		110369G4E	4-2/0 (70mm) Welding Single Conductor	112081G7	R112G7E
R67G12E		110369G4E	4-#4 (20mm) Welding Single Conductor; 12/2 (2x3mm)Aux.	112081G12	R112G12E
R67G16E		110369G4E	4-#6 (13mm) Welding Single Conductor; 12/2 (2x3mm)Aux.	112081G16	R112G16E
R67G18E		110382G4E	4-#2 (34mm) Welding Multiconductor	112081G18	R112G18E
R67G20E		110369G4E	4-2/0 (70mm) Welding Single Conductor; 12/2 (2x3mm)Aux.	112081G20	R112G20E
R67G21E	MS25486-17	110369G4E	4-2/0 (70mm) Mil-C-5756C Single Conductor	112081G21	R112G21E
R67G26E		110369G4E	3-#3 (27mm) 1#5 (17mm) CVSF Multiconductor	112081G26	R112G26E
R67G36E	MS25486-31	110369G4E	4-2/0 (70mm) Mil-C-5756C Single Conductor; 12/2 (2x3mm)Aux.	112081G36	R112G36E
R67G56E		110369G4E	4-1/0 (50mm) Welding Single Conductor; 12/2 (2x3mm)Aux.	112081G56	R112G56E
R67G82E		110369G4E	4-1/0 (50mm) Single Conductor; (2x2.5mm) Aux.	112081G82	R112G82E
R67G91E		110369G4E	3-1/0 (50mm) 3-#6 (13mm) Command Multiconductor	112081G91	R112G91E
R67G100E	Voltage Sensing	110369GE	4-2/0 (70mm) : 12/5 (5x3mm) Aux.	112081G100	R112G100E
R67G103E		110369G4E	6-#4 (20mm) 1-1/0 (50mm) 6x1 Composite	112081G103	R112G103E

Other Models available for different cable sizes and configurations  
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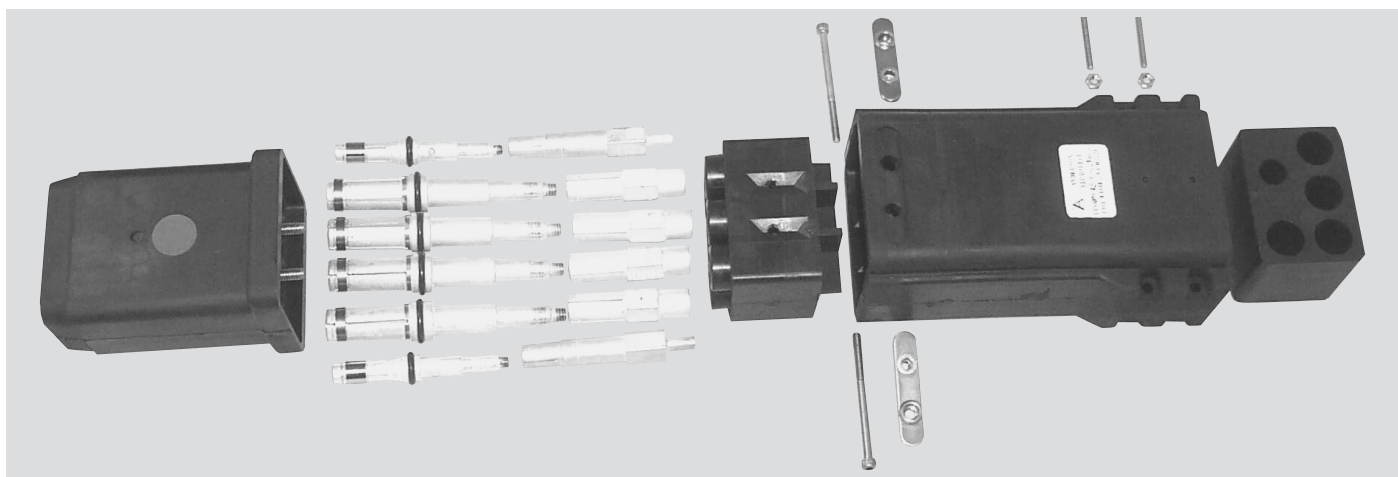
# AC PLUG ATTACHABLE® POWER NOSE 6-POLE DC PLUG ATTACHABLE® POWER NOSE 3-POLE



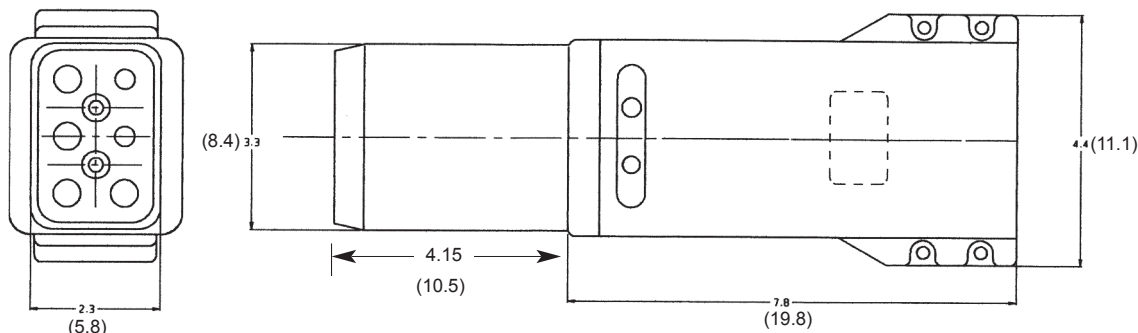
## Attachable Power Nose® (APN) R90: Rubber

The Attachable® Power Nose is designed to be the quickest assembly and lowest overall service ground power connector. The modular construction allows easy replacement of worn components (contacts,

nose, back end) for extended service life and quick repair. The body and nose are molded from the proprietary synthetic elastomer known for its excellent abrasion resistance. Suitable for composite cables as



Electrical Ratings: 30°C rise Power Components, 450A Continuous 1500A for 1 minute, Control Components, 35A continuous



## 6-Pole 115/200V 400Hz Attachable® Power Nose (APN) R90

Complete Plug No.	Replacement Nose only	Cable Accommodation	Replacement Contact Kit
R90G5E	R90KIT 1	4-1/0 (50mm) MIL-C-5756C Single Conductors; #12/2 (2x3mm) Aux.	R90 Kit 2-1 1/0 Power
R90G36E	R90KIT 1	4-2/0 (70mm) MIL-C-5756C Single Conductors; #12/2 (2x3mm) Aux.	R90 Kit 2-2 2/0 Power
R90G101E	R90KIT 1	6 #4 (20mm), 1-1/0 (50mm) Multiconductor; 6X1 Single Jacket	R90 Kit 2-3 # 4 Power
R90G118E	R90KIT 1	4-70mm Single Conductors; #12/2 (2x3mm) Aux	R90 Kit 3 Aux
	R90KIT1SW	Replacement Nose with Microswitch	

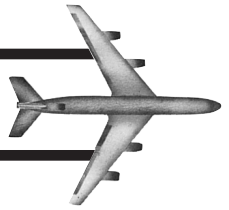
## 3-Pole 28V DC Attachable® Power Nose (APN) R93

Complete Plug No.	Replacement Nose only	Cable Accommodation	Replacement Contact Kit
R93G3E	R93KIT 1	2-4/0 (120mm) MIL-C-5756C Single Conductors	R93 Kit 2-1 1/0 Power
	R93KIT#1SW	Replacement Nose with Microswitch	R93 Kit 2-2 2/0 Power
			R93 Kit 2-3 # 4 Power
			R93 Kit 3 Aux

Other Models available for different cable sizes and configurations  
Other kits available. Contact factory.

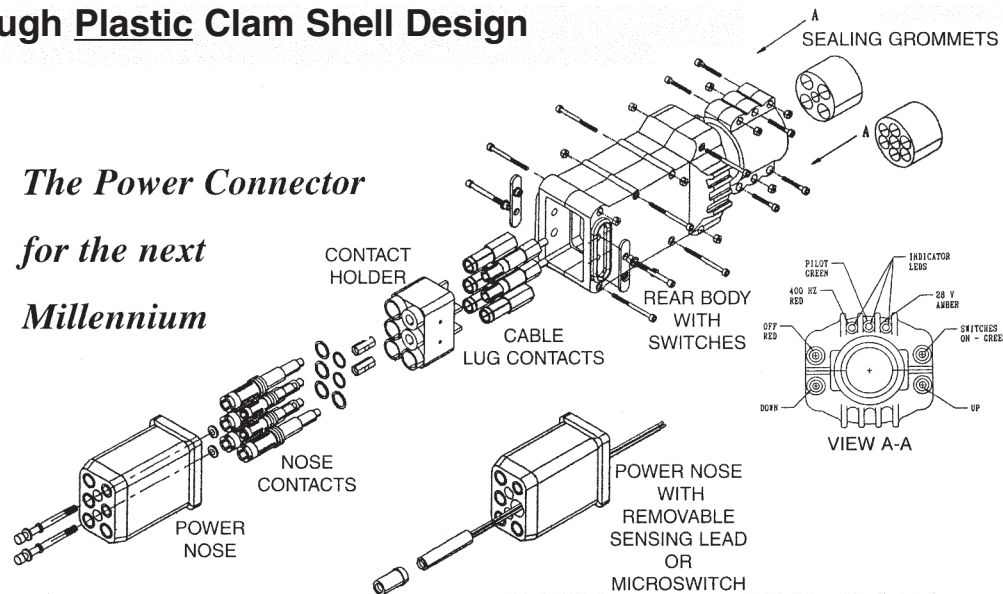


# AC PLUG ATTACHABLE POWER NOSE® APN 6-POLE DC APN 3-POLE with switches & LEDs

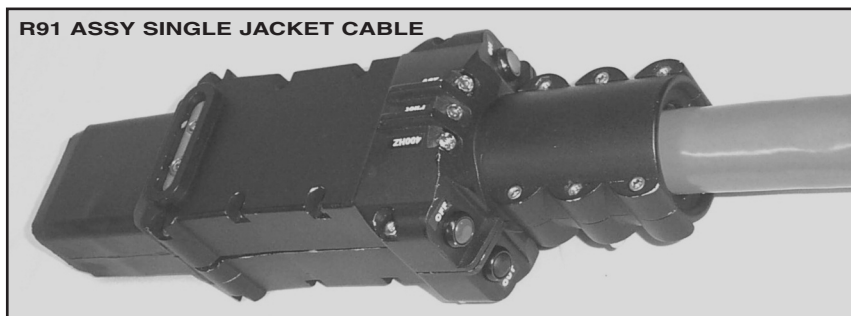


## Super Tough Plastic Clam Shell Design

*The Power Connector  
for the next  
Millennium*



Electrical Ratings: 30°C rise Power Components, 450A Continuous 1500A for 1 minute, Control Components, 35A continuous



R91 ASSY SINGLE JACKET CABLE



R91 CLAMSHELL  
3 CONDUCTOR

Quick, easy assembly of all components; Triple sealed against moisture intrusion

Modular Components can be replaced quickly at the ramp:

- High abrasion resistant special rubber nose
- Rugged service proven long life Grabber® Contacts
- On-off; in-out waterproof switches with Waterproof LED status indicators
- Waterproof sensing lead or microswitch available see page 28
- Super tough clam shell with stainless hardware

## 6-Pole 115/200V 400Hz Attachable® Power Nose (APN) R91

Complete Plug No.	Replacement Nose only	Cable Accommodation	Replacement Contact Kit
R91G5E	R91KIT 1	4-1/0 (50mm) MIL-C-5756C Single Conductors;; #12/2 (2x3mm) Aux.	R91 Kit 2-1 1/0 Power
R91G36E	R91KIT 1	4-2/0 (70mm) MIL-C-5756C Single conductors;; #12/2 (2x3mm) Aux.	R91 Kit 2-2 2/0 Power
R91G101E	R91KIT 1	6 #4 (20mm), 1-1/0 (50mm) Multiconductor; 6X1 Single Jacket	R91 Kit 2-3 # 4 Power
R91G118E	R91KIT 1	4-70mm Single Conductors; #12/2 (2x3mm) Aux	R91 Kit 3 Aux
R91G146E	R91KIT 1	3-70mm Cables W Neutral	

## 3 Pole 28V DC Attachable® Power Nose (APN) R92

R92G3E	R92KIT 1	2-4/0(120mm) Single Conductors
R92G153	R92KIT 1	2-4/0(70mm) Single Conductors
R92G154	R92KIT 1	2-4/0(70mm) Single Conductors

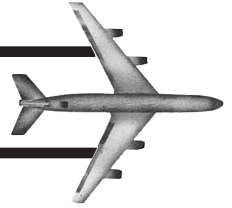


R92 Kit 2-1 1/0 Power  
R92 Kit 2-2 2/0 Power  
R92 Kit 2-3 # 4 Power  
R923 Kit 3 Aux

Other Models available for different cable sizes and configurations  
Other kits available contact factory.



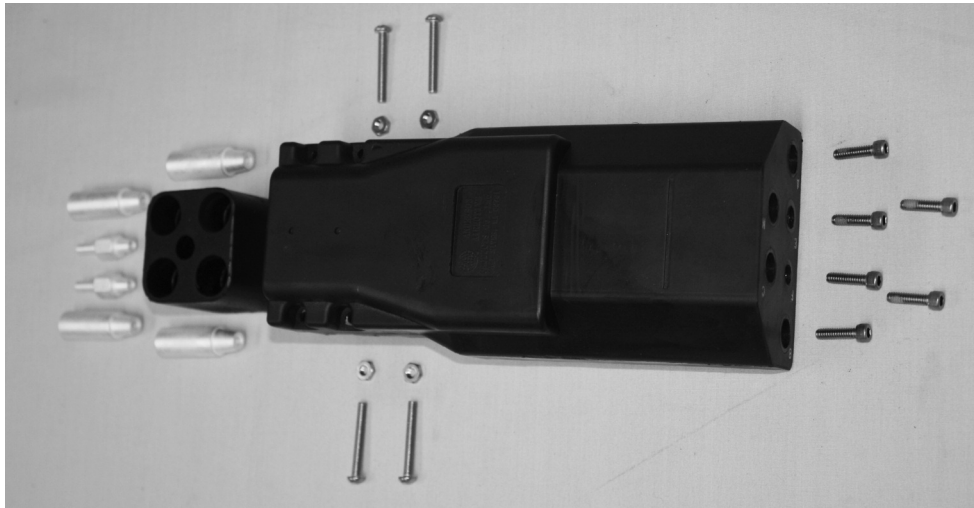
# AC PLUG ATTACHABLE® 230/400 VAC



## B1B Bomber Military Aircraft Connector

The ATTACHABLE Portable Plugs and Receptacles are molded of a proprietary synthetic elastomer, a compound specially selected for its resistance to moisture and chemicals as well as its ability to stand up under severe wear and tear. Power contacts are of machined copper, silver-plated to reduce contact

resistance. Contact lugs may be either crimped or soldered to cables. The R129 and R130 series are manufactured to MS21378 specifications and tested per MIL-C-7974D. Portable receptacles are particularly useful where a portable connection is required or for extending existing cable assemblies.



Electrical Ratings: 30°C rise Power Components, 450A Continuous 1500A for 1 minute, Control Components, 35A continuous

## 6-Pole AC 230/400V 400Hz Attachable® Plugs

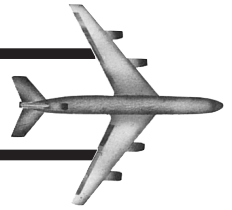
Complete Plug No.	Military Part No.	Body Only Part no.	Cable Accomodation	Grommet Kit No.	Portable Receptacle Part No.
R129G4E	MS21378	3-4991G1	4-1/0 (50mm) Mil-C-5756C Single Conductor	112081G4	R130G4E
R129G5E-50A		3-4991G1	4-1/0 (50mm) Mil-C-5756C Single Conductor; 12/2 (2x3mm)Aux.	112081G5	R130G5E
R129G7E		3-4991G1	4-2/0 (70mm) Welding Single Conductor	112081G7	R130G7E
R129G12E		3-4991G1	4-#4 (20mm) Welding Single Conductor; 12/2 (2x3mm)Aux.	112081G12	R130G12E
R129G16E		3-4991G1	4-#6 (13mm) Welding Single Conductor; 12/2 (2x3mm)Aux.	112081G16	R130G16E
R129G18E		3-4991G1	4-#2 (33mm) Welding Multiconductor	112081G18	R130G18E
R129G20E		3-4991G1	4-2/0 (50mm) Welding Single Conductor; 12/2 (2x3mm)Aux.	112081G20	R130G20E
R129G21E		3-4991G1	4-2/0 (50mm) Mil-C-5756C Single Conductor	112081G21	R130G21E
R129G26E		3-4991G1	3-#3 (27mm) 1#5(17mm) CVSF Multiconductor	112081G26	R130G26E
R129G36E		3-4991G1	4-2/0 (70mm) Mil-C-5756C Single Conductor; 12/2 (2x3mm)Aux.	112081G36	R130G36E
R129G56E		3-4991G1	4 (50mm) Welding Single Conductor; 12/2 (2x3mm)Aux.	112081G56	R130G56E
R129G82E		3-4991G1	4 (50mm) Single Conductor; 2.5mm/2Aux.	112081G82	R130G82E
R129G91E		3-4991G1	3-1/0 (50mm) 3-#6 (13mm) Command Multiconductor	112081G91	R130G91E
R129G100E		3-4991G1	4-2/0 (70mm) : 12/5 (5x3mm) Aux	112081G100	R130G100E
R129G103E		3-4991G1	6-#4 (20mm) 1-1/0 (50mm) 6x1 Multiconductor	112081G101	R130G101E

Other Models available for different cable sizes and configurations  
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# **The Anderson Family Ground Power Cable Assemblies**

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## ***Attachable® and Over Molded Cable Assemblies***

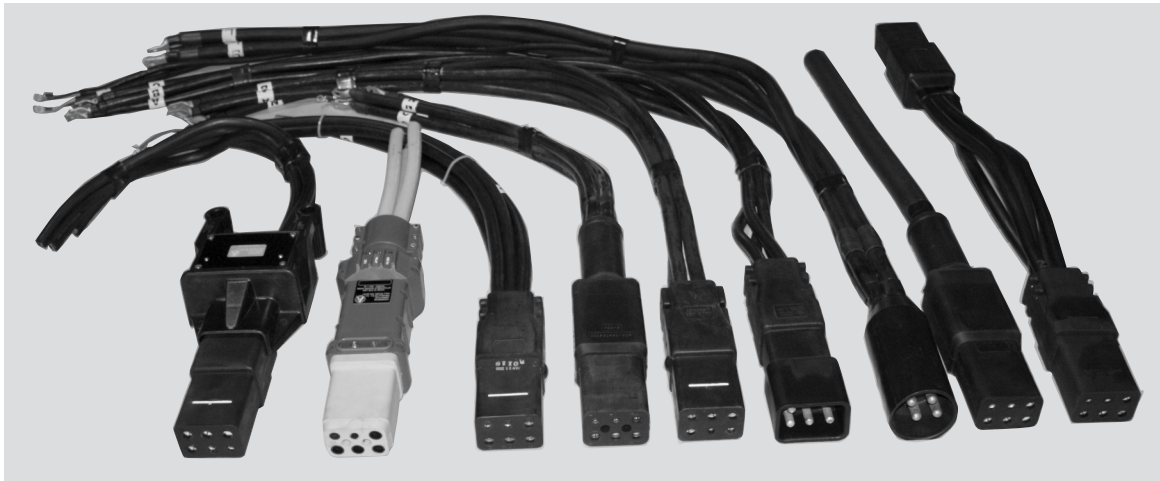
Cable assemblies are fabricated to the exacting requirements of MIL-C-7974D. Anderson Airmotive Products is a qualified source of supply for MS25019, MS90328, MS21378, and MS90347 assemblies.

In addition, Anderson can supply special cable configurations or lengths to meet your requirements. Contact the factory or your local Authorized Distributor for additional information.

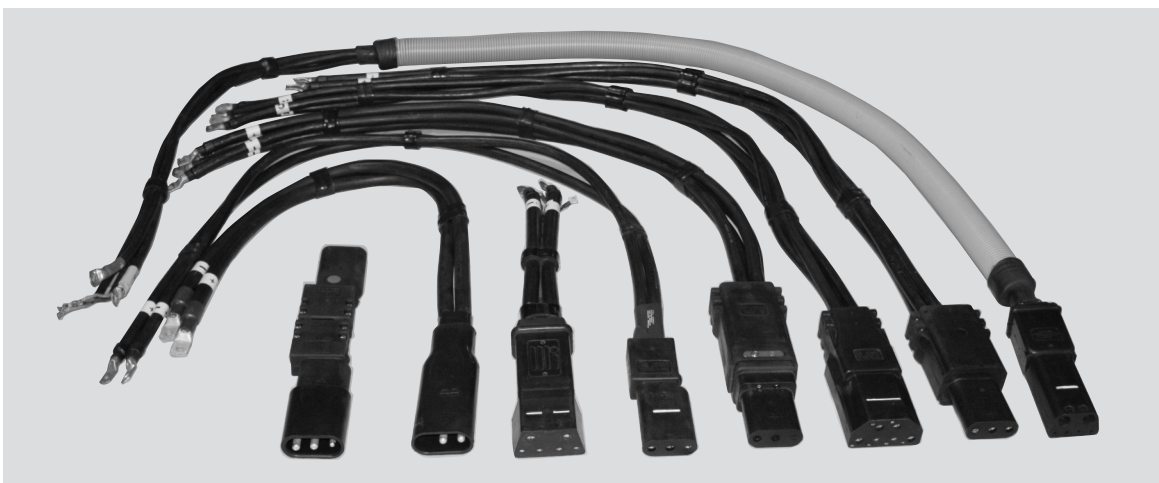
All Anderson cable assemblies feature silver plated high conductivity contacts with finger proof safety insulators and cable qualified to the latest military specification MIL-C-5756C; Composite Cables are UL listed. Plugs are molded proprietary synthetic elastomer for severe wear and tear applications. All these features insure that our cable assemblies are the safest, most flexible and longest lasting cable assemblies available today.

Our family of power cables is unequalled in the industry. Anderson Airmotive is the only company to offer you a choice of:

- (1) making/repairing your own ground power cables with our family of high quality and durable Attachable® plugs, or
- (2) buying a wide variety of new cable assemblies with either Attachable® or Overmolded plugs, from the factory.



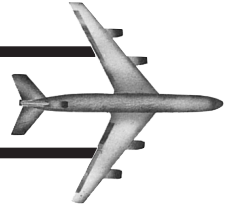
**AC output cable assemblies from 110/200 VAC and 230/400VAC to 600V input cable assemblies with quick change noses, modular components and many cable options.**



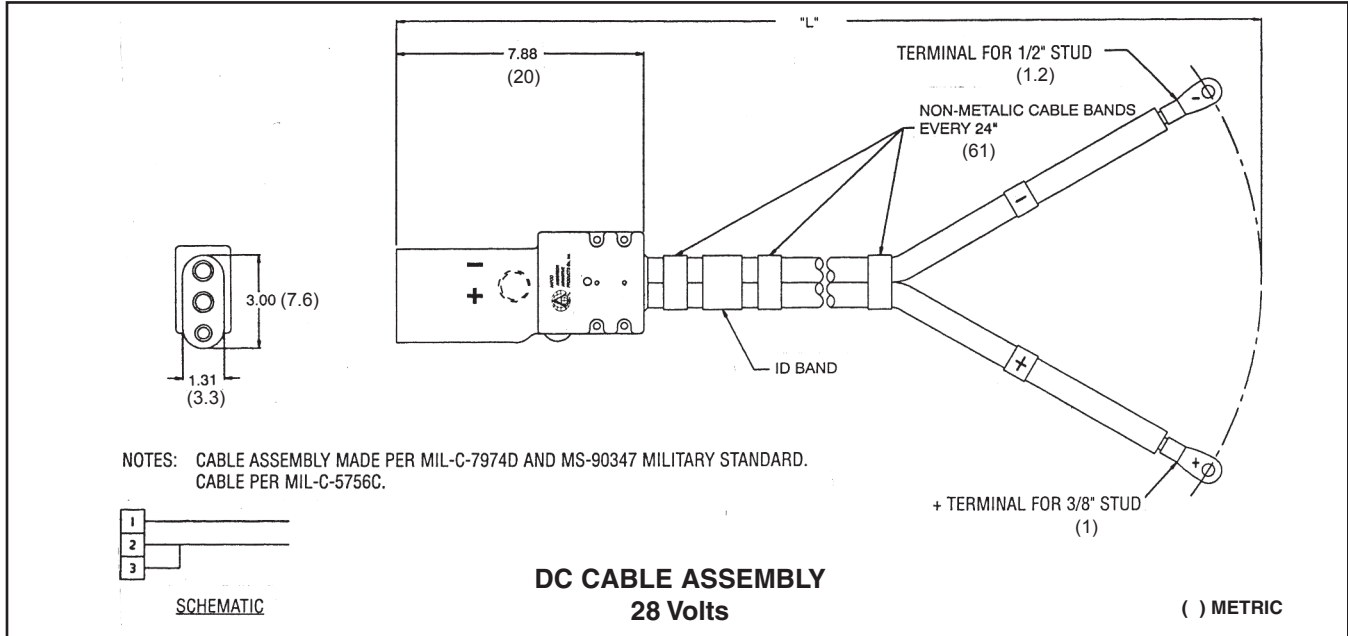
**DC output cable assemblies from 28VDC, 80VDC and 270VDC with quick change noses and many cable options.**

# DC AIRCRAFT GROUND POWER CABLE ASSEMBLIES

## 3-POLE



### 2 Wire R65 28V DC



Electrical Ratings: 30°C rise Power Components, 450A Continuous 1500A for 1 minute, Control Components, 35A continuous

PART NUMBER	LENGTH FEET/METERS	MILITARY PART NO.	CABLE DESCRIPTION	WEIGHT LBS (KG)	ASSEMBLY CONFIGURATION
R65G1E-20AorM	20 (6)	MS90347-7AorM	2-1/0 (50mm) AWG SINGLE	26 (12)	
R65G1E-30AorM	30 (9)	MS90347-8AorM	CONDUCTORS,	36 (16)	
R65G1E-40AorM	40 (12)	MS90347-9AorM	NO CONTROL LEAD,	46 (21)	
R65G1E-60AorM	60 (18)	MS90347-10AorM	SILVERPLATED	67 (30)	
R65G1E-80AorM	80 (24)	MS90347-11AorM	CONTACTS, AND	87 (40)	
R65G1E-100AorM	100 (30)	MS90347-12AorM	NON-METALLIC BANDS	107 (49)	
R65G1E-2AorM	2 (0.7)	MS90347-25AorM	SPLICE KIT	7 (3)	
R65G2E-20AorM	20 (6)	MS90347-13AAorM	2-2/0 (70mm) AWG SINGLE	32 (15)	
R65G2E-30AorM	30 (9)	MS90347-14AAorM	CONDUCTORS,	45 (21)	
R65G2E-40AorM	40 (12)	MS90347-15AAorM	NO CONTROL LEAD,	58 (26)	
R65G2E-60AorM	60 (18)	MS90347-16AAorM	SILVERPLATED	84 (38)	
R65G2E-80AorM	80 (24)	MS90347-17AAorM	CONTACTS, AND	110 (50)	
R65G2E-100AorM	100 (30)	MS90347-18AAorM	NON-METALLIC BANDS	136 (67)	
R65G2E-2AorM	2 (0.7)	MS90347-26AorM	SPLICE KIT	8 (4)	
R65G3E-20AorM	20 (6)	MS90347-19AAorM	2-4/0 (120mm) AWG SINGLE	45 (20)	
R65G3E-30AorM	30 (9)	MS90347-20AAorM	CONDUCTORS,	65 (29)	
R65G3E-40AorM	40 (12)	MS90347-21AAorM	NO CONTROL LEAD,	84 (38)	
R65G3E-60AorM	60 (18)	MS90347-22AAorM	SILVERPLATED	123 (56)	
R65G3E-80AorM	80 (24)	MS90347-23AAorM	CONTACTS, AND	162 (74)	
R65G3E-100AorM	100 (30)	MS90347-24AAorM	NON-METALLIC BANDS	201 (91)	
R65G3E-2AorM	2 (0.7)	MS90347-27AorM	SPLICE KIT	9 (4)	

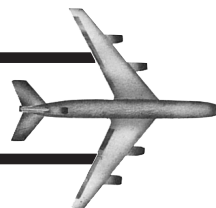
Cable assemblies are available with Attachable® plug types as well as integrally Over Molded connectors. Other assemblies available for different cable sizes and configurations

A= Attachable® Head  
M =Over Molded Head

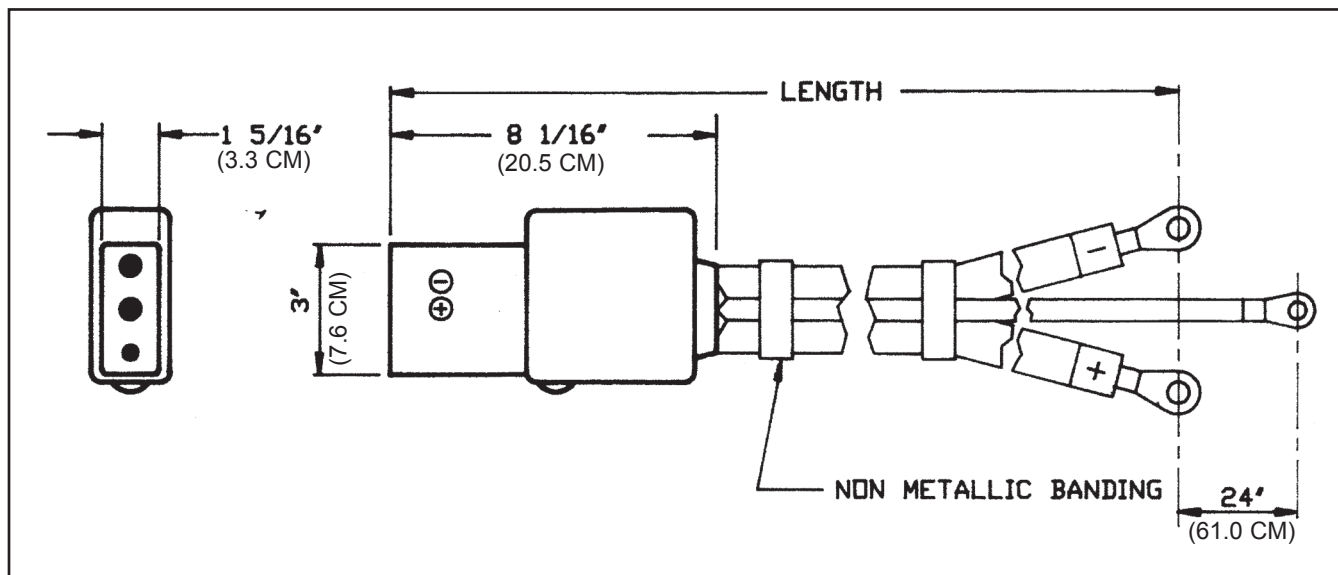
ATTACHABLE® is a registered trademark of Anderson Airmotive Products.



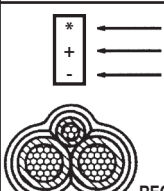
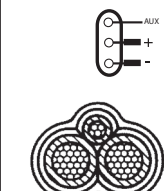
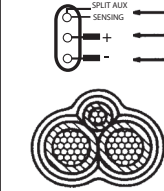
# DC AIRCRAFT GROUND POWER CABLE ASSEMBLIES 3-POLE



## 3 Wire R71, R72



Electrical Ratings: 30°C rise Power Components, 450A Continuous 1500A for 1 minute, Control Components, 35A continuous

PART NUMBER	LENGTH FEET/METERS	MILITARY PART NO.	CABLE DESCRIPTION	WEIGHT LBS (KG)	ASSEMBLY CONFIGURATION
R71G6E-20AorM	20 (6)	MS25019-20A, M	2-4/0 (120mm) AWG SINGLE	46 (21)	 RECTANGULAR
R71G6E-30AorM	30 (9)	MS25019-30A, M	CONDUCTORS, #8	66 (30)	
R71G6E-40AorM	40 (12)	MS25019-40A, M	CONTROL LEAD,	85 (39)	
R71G6E-60AorM	60 (18)	MS25019-60A, M	SILVERPLATED	124 (57)	
R71G6E-80AorM	80 (24)	MS25019-80A, M	CONTACTS, AND	162 (74)	
R71G6E-100AorM	100 (30)	MS25019-100A, M	NON-METALLIC BANDS	202 (92)	
R71G6E-2AorM	2 (0.7)	MS25019-2AorM	SPLICE KIT	10 (4)	
R71G5E-20AorM	20 (6)		2-4/0 (120mm) AWG SINGLE	46 (21)	 OVAL
R71G5E-30AorM	30 (9)		CONDUCTORS, #8	66 (30)	
R71G5E-40AorM	40 (12)		CONTROL LEAD,	85 (39)	
R71G5E-60AorM	60 (18)		SILVERPLATED	124 (57)	
R71G5E-80AorM	80 (24)		CONTACTS, AND	162 (74)	
R71G5E-100AorM	100 (30)		NON-METALLIC BANDS	202 (92)	
R71G5E-2AorM	2 (0.7)		SPLICE KIT	10 (4)	
R72G5E-20AorM	20 (6)		2-4/0 (120mm) AWG SINGLE	46 (21)	 OVAL
R72G5E-30AorM	30 (9)		CONDUCTORS, #8	66 (30)	
R72G5E-40AorM	40 (12)		CONTROL LEAD, SENSING	85 (39)	
R72G5E-60AorM	60 (18)		SILVERPLATED	124 (57)	
R72G5E-80AorM	80 (24)		CONTACTS, AND	162 (74)	
R72G5E-100AorM	100 (30)		NON-METALLIC BANDS	202 (92)	
R72G5E2S-2AorM	2 (6)		2 WIRE SENSING LEAD	10 (4)	

Cable assemblies are available with Attachable® plug types as well as integrally Over Molded connectors. Other assemblies available for different cable sizes and configurations

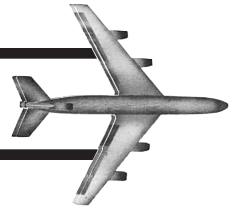
A= Attachable® Head  
M =Over Molded Head

ATTACHABLE® is a registered trademark of Anderson Airmotive Products.

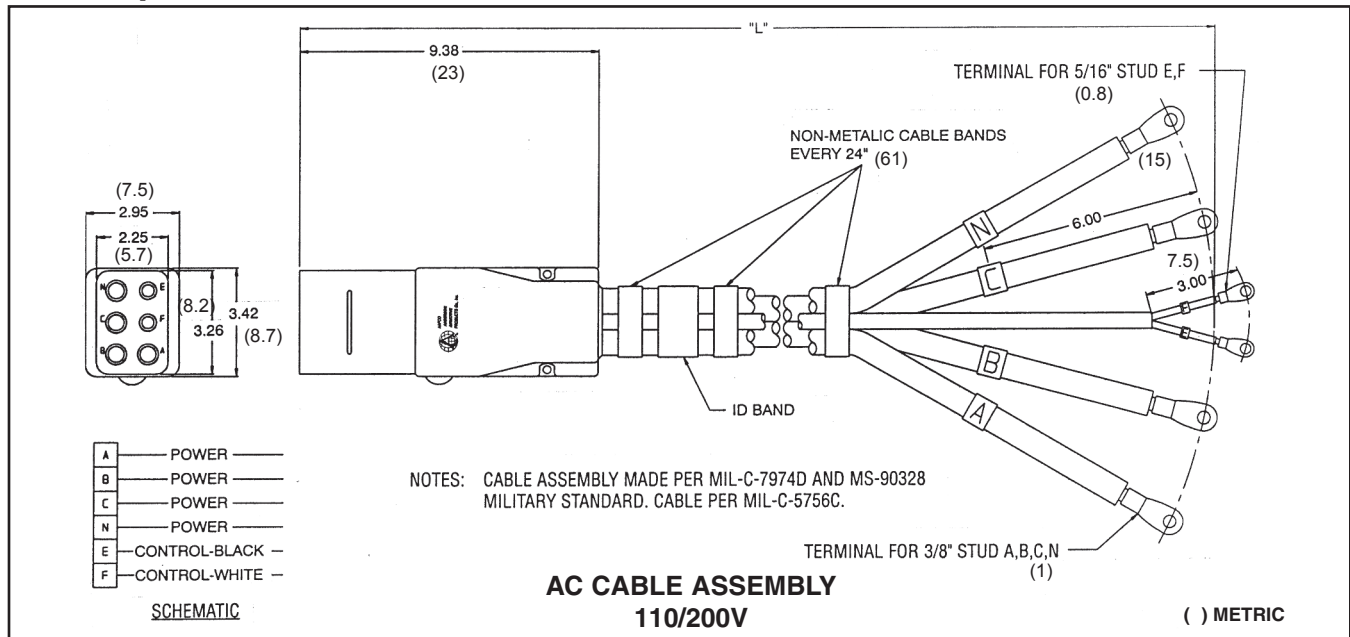
## DC CABLE ASSEMBLY with WEAR NOSE® 28 Volts DC

16

# AC AIRCRAFT GROUND POWER CABLE ASSEMBLIES 6-POLE



## R67 110/200V AC 400 Hz



A= Attachalbe M = Overmolded.

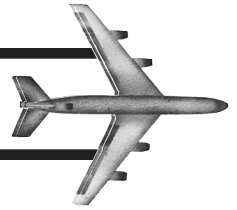
Electrical Ratings: 30°C rise Power Components, 450A Continuous 1500A for 1 minute, Control Components, 35A continuous

PART NUMBER	LENGTH FEET/ METERS	MILITARY PART NO.	CABLE DESCRIPTION	WEIGHT LBS (KG)	ASSEMBLY CONFIGURATION
R67G4E-20AorM	20 (6)	MS90328-13AorM	4-1/0 (50mm) AWG SINGLE	46 (21)	
R67G4E-30AorM	30 (9)	MS90328-14AorM	CONDUCTORS,	67 (30)	
R67G4E-40AorM	40 (12)	MS90328-15AorM	NO CONTROL LEADS,	87 (39)	
R67G4E-60AorM	60 (18)	MS90328-16AorM	E AND F SHUNTED IN PLUG,	127 (58)	
R67G4E-80AorM	80 (24)	MS90328-17AorM	SILVER PLATED CONTACTS,	168 (76)	
R67G4E-100AorM	100 (30)	MS90328-18AorM	AND NON-METALLIC BANDS	208 (94)	
R67G4E-2AorM	2 (.7)	MS90328-39AorM	SPLICE KITS	10 (5)	
R67G21E-20AorM	20 (6)	MS90328-19AorM	4-2/0 (70mm) AWG SINGLE	60 (27)	
R67G21E-30AorM	30 (9)	MS90328-20AorM	CONDUCTORS,	88 (40)	
R67G21E-40AorM	40 (12)	MS90328-21AorM	NO CONTROL LEADS,	116 (53)	
R67G21E-60AorM	60 (18)	MS90328-22AorM	E AND F SHUNTED IN PLUG,	172 (78)	
R67G21E-80AorM	80 (24)	MS90328-23AorM	SILVER PLATED CONTACTS,	226 (103)	
R67G21E-100AorM	100 (30)	MS90328-24AorM	AND NON-METALLIC BANDS	281 (127)	
R67G21E-2AorM	2 (.7)	MS90328-40AorM	SPLICE KITS	12 (5)	
R67G5E-20AorM	20 (6)	MS90328-25AorM	4-1/0(50mm) AWG SINGLE	50 (23)	
R67G5E-30AorM	30 (9)	MS90328-26AorM	CONDUCTORS,	71 (32)	
R67G5E-40AorM	40 (12)	MS90328-27AorM	1-12/2 (2X3mm) CONTROL LEAD,	93 (42)	
R67G5E-60AorM	60 (18)	MS90328-28AorM	SILVER PLATED CONTACTS,	137 (62)	
R67G5E-80AorM	80 (24)	MS90328-29AorM	AND NON-METALLIC BANDS	180 (22)	
R67G5E-100AorM	100 (30)	MS90328-30AorM		224 (102)	
R67G5E-2AorM	2 (.7)	MS90328-37AorM	SPLICE KITS	9 (4)	
R67G36E-20AorM	20 (6)	MS90328-31AorM	4-2/0 (70mm) AWG SINGLE	58 (26)	
R67G36E-30AorM	30 (9)	MS90328-32AorM	CONDUCTORS, 1-12/2 (2X3mm)	84 (38)	
R67G36E-40AorM	40 (12)	MS90328-33AorM	CONTROL LEADS,	110 (50)	
R67G36E-60AorM	60 (18)	MS90328-34AorM	SILVER PLATED CONTACTS,	162 (78)	
R67G36E-80AorM	80 (24)	MS90328-35AorM	AND NON-METALLIC BANDS	213 (97)	
R67G36E-100AorM	100 (30)	MS90328-36AorM		297 (135)	
R67G36E-2AorM	2 (.7)	MS90328-38AorM	SPLICE KITS	9(4)	

Cable assemblies are available with Attachable® plug types as well as Over Molded connectors for any type of cable including single jacket composite cables. Other assemblies available for different cable sizes and configurations.

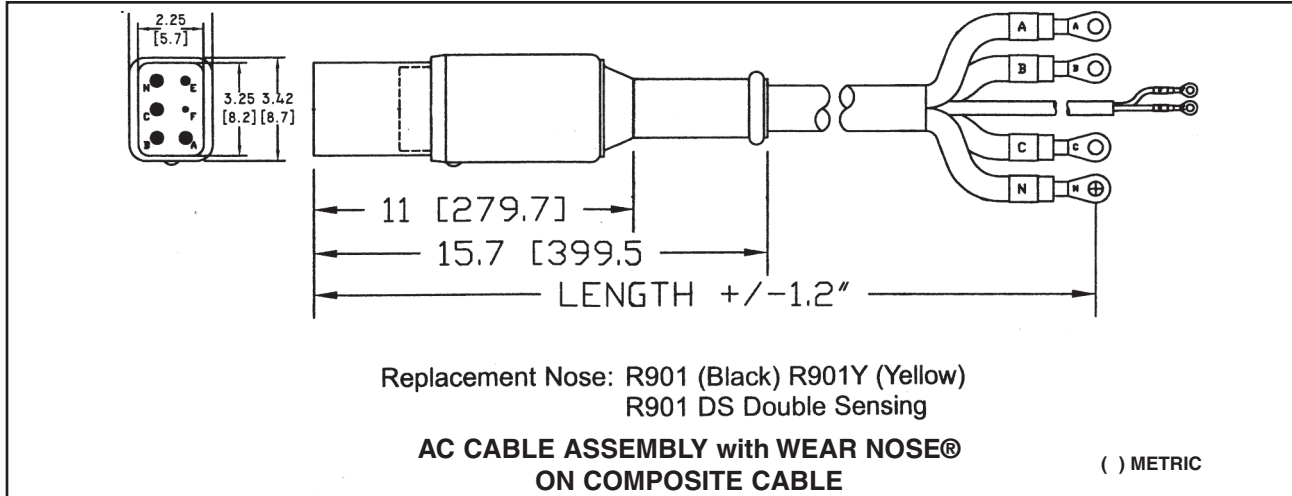


# AC AIRCRAFT GROUND POWER CABLE ASSEMBLIES 6-POLE



## R900 110/200V AC with Wear Nose®

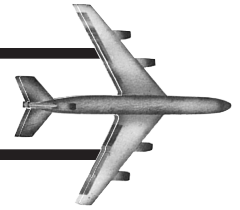
Cable assembly with over molded plug and field replaceable nose. Compatible with other wear nose type assemblies.



Electrical Ratings: 30°C rise Power Components, 450A Continuous 1500A for 1 minute, Control Components, 35A continuous

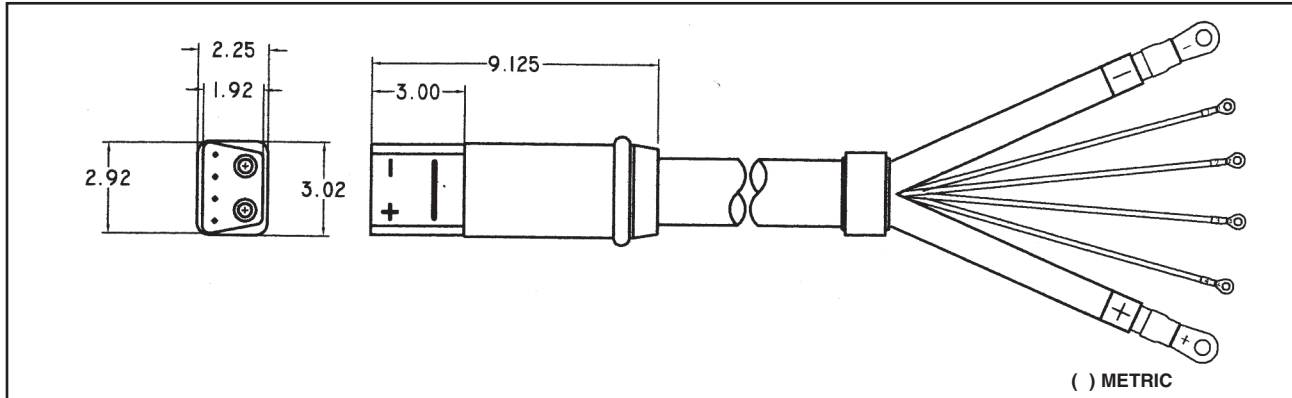
PART NUMBER	LENGTH FEET/ METERS	CABLE DESCRIPTION	WEIGHT LBS (KG)	ASSEMBLY CONFIGURATION
R900G4E-20M	20 (6)	4-1/0 (50mm) AWG SINGLE CONDUCTORS, NO CONTROL LEADS, E AND F SHUNTED IN PLUG, SILVER PLATED CONTACTS, AND NON-METALLIC BANDS	46 (21)	
R900G4E-30M	30 (9)		67 (30)	
R900G4E-40M	40 (12)		87 (39)	
R900G4E-60M	60 (18)		127 (58)	
R900G4E-80M	80 (24)		168 (76)	
R900G4E-100M	100 (30)		208 (94)	
R900G4E-2M	2 (.7)	SPLICE KITS	10 (5)	
R900G21E-20M	20 (6)	4-2/0 (70mm) AWG SINGLE CONDUCTORS, NO CONTROL LEADS, E AND F SHUNTED IN PLUG, SILVER PLATED CONTACTS, AND NON-METALLIC BANDS	60 (27)	
R900G21E-30M	30 (9)		88 (40)	
R900G21E-40M	40 (12)		116 (53)	
R900G21E-60M	60 (18)		172 (78)	
R900G21E-80M	80 (24)		226 (103)	
R900G21E-100M	100 (30)		281 (127)	
R900G21E-2M	2 (.7)	SPLICE KITS	12 (5)	
R900G5E-20M	20 (6)	4-1/0(50mm) AWG SINGLE CONDUCTORS, 1-12/2 (2X3mm) CONTROL LEAD, SILVER PLATED CONTACTS, AND NON-METALLIC BANDS	50 (23)	
R900G5E-30M	30 (9)		71 (32)	
R900G5E-40M	40 (12)		93 (42)	
R900G5E-60M	60 (18)		137 (62)	
R900G5E-80M	80 (24)		180 (82)	
R900G5E-100M	100 (30)		224 (102)	
R900G5E-2M	2 (.7)	SPLICE KITS	9 (4)	
R900G36E-20M	20 (6)	4-2/0 (70mm) AWG SINGLE CONDUCTORS, 1-12/2 (2X3mm) CONTROL LEADS, SILVER PLATED CONTACTS, AND NON-METALLIC BANDS	58 (26)	
R900G36E-30M	30 (9)		84 (38)	
R900G36E-40M	40 (12)		110 (50)	
R900G36E-60M	60 (18)		162 (78)	
R900G36E-80M	80 (24)		213 (97)	
R900G36E-100M	100 (30)		297 (135)	
R900G36E-2M	2 (.7)	SPLICE KITS	9(4)	
R900G103E-20M	20 (6)	6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE	50 (23)	
R900G103E-30M	30 (9)	6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE	70 (32)	
R900G103E-40M	40 (12)	6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE	90 (41)	
R900G103E-60M	60 (18)	6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE	130 (59)	
R900G103E-80M	80 (24)	6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE	170 (77)	
R900G103E-100M	100 (30)	6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE	210 (95)	
R900G103E-3M	3 (1)	6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE	16(7)	

# AC AIRCRAFT GROUND POWER CABLE ASSEMBLIES



## FAST CHARGE 80V®

**Type A:** 2 Power Leads and 4 Auxiliaries

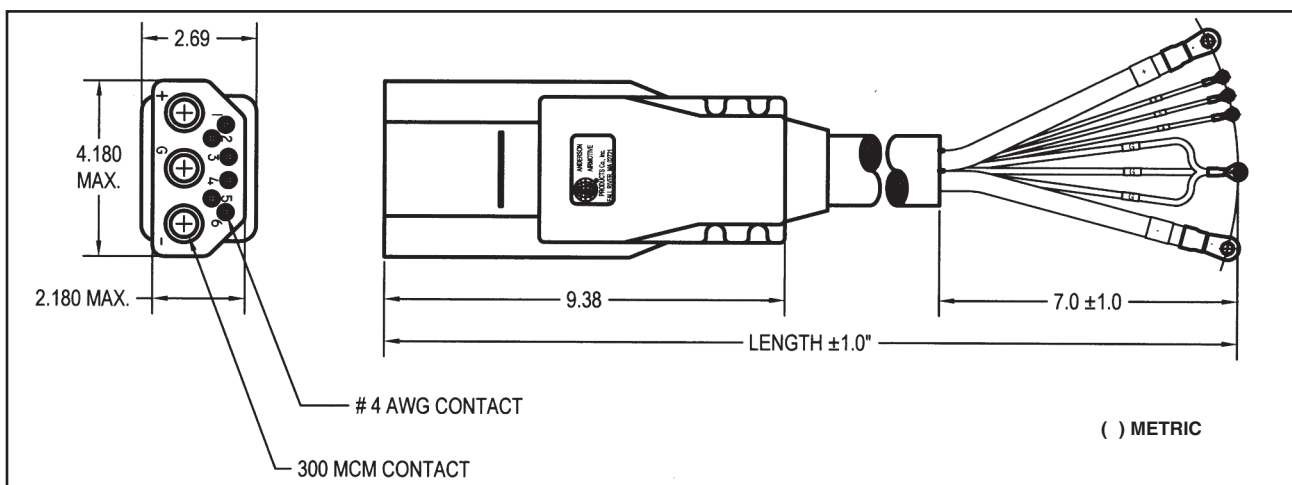


Electrical Ratings: 30°C rise Power Components, 450A Continuous 1500A for 1 minute, Control Components, 35A continuous

PART NUMBER	LENGTH FEET/ METERS	CABLE DESCRIPTION	WEIGHT LBS (KG)	ASSEMBLY CONFIGURATION
R270G5E-20M R270G36E-20M	20 (6) 20 (6)	2 1/0 (50mm) and 4 #12 (3mm) AWG MILC5756B 2 2/0 (50mm) and 4 #12 (3mm) AWG MILC5756B	55 (25) 65 (30)	

Electrical Ratings: 30°C rise Power Components, 450A Continuous 1500A for 1 minute, Control Components, 35A continuous

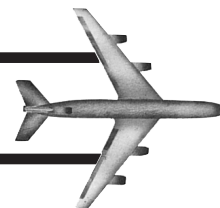
**Type B:** 2 Power Leads 1 Ground and 6 Auxiliaries



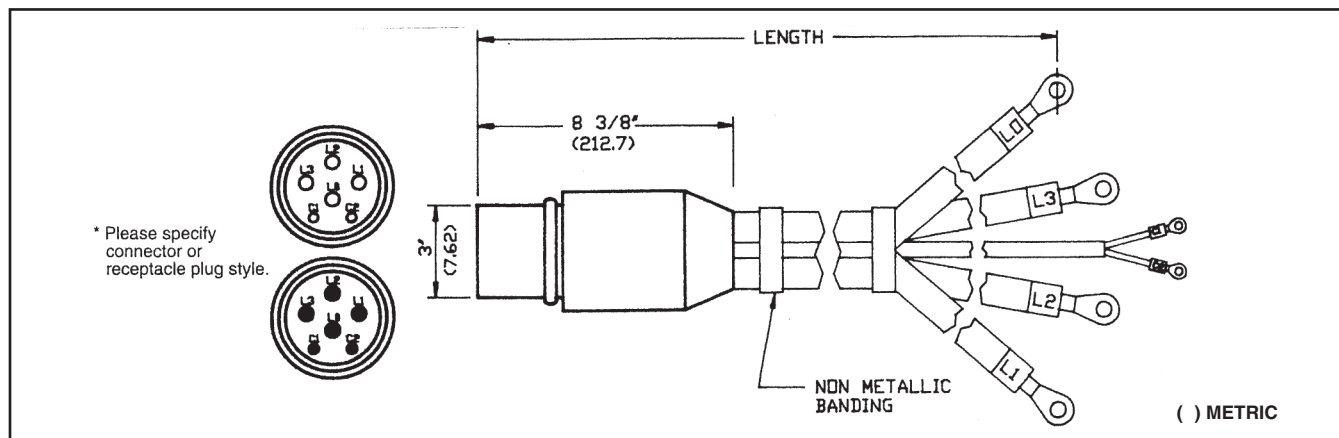
A= Attachalbe M = Overmolded.

PART NUMBER	LENGTH FEET/ METERS	CABLE DESCRIPTION	WEIGHT LBS (KG)	ASSEMBLY CONFIGURATION
R80G103E-XXM	AS REQUIRED	COMPOSITE CABLE WITH 2 4/0 AWG (100mm); 3 #6 AWG (13mm); 3 #16 AWG (1.3mm); 6#22 AWG (0.45mm )	2.3lbs (1 kg) per foot	<div>CONNECTOR</div> <div> </div> <div>SHIELD JUMPER REQUIRED BE ON ONE END ONLY</div>

# AC AIRCRAFT GROUND POWER CABLE ASSEMBLIES 6-POLE



## RAMP POWER 416/240V



The Ramp Power Connector is used on a variety of military and commercial ground service equipment around the world. The proprietary synthetic elastomer body and silver-plated contacts provide for a safe, reliable connection that is not only moisture and corrosion-resistant, but able to withstand the real-life abuse of everyday usage on the ramp. Accommodates wire sizes from #4 AWG to 4/0 AWG.

Electrical Ratings: 30°C rise Power Components, 450A Continuous 1500A for 1 minute, Control Components, 35A continuous

G.A.P.P. P/N	LENGTH FEET	LENGTH METERS	CONDUCTOR NO. AND SIZE	SHIP. WT (LBS)	CABLE, BAND & SCHEMATIC
<b>MALE</b>					
833N004020	20	6.10	(4) 1/0, (50mm) (2x3mm)	46	
833N004030	30	9.14	(4) 1/0, (50mm) (2x3mm)	67	
833N004040	40	12.19	(4) 1/0, (50mm) (2x3mm)	87	
833N004060	60	18.29	(4) 1/0, (50mm) (2x3mm)	127	
833N004080	80	24.38	(4) 1/0, (50mm) (2x3mm)	168	
833N004100	100	30.48	(4) 1/0, (50mm) (2x3mm)	208	
833N021020	20	6.10	(4) 2/0, (70mm) (2x3mm)	56	
833N021030	30	9.14	(4) 2/0, (70mm) (2x3mm)	84	
833N021040	40	12.19	(4) 2/0, (70mm) (2x3mm)	110	
833N021060	60	18.29	(4) 2/0, (70mm) (2x3mm)	162	
833N021080	80	24.38	(4) 2/0, (70mm) (2x3mm)	213	
833N021100	100	30.48	(4) 2/0, (70mm) (2x3mm)	265	
<b>FEMALE</b>					
834N005020	20	6.10	(4) 1/0, (50mm) (2x3mm)	50	
834N005030	30	9.14	(4) 1/0, (50mm) (2x3mm)	71	
834N005040	40	12.19	(4) 1/0, (50mm) (2x3mm)	93	
834N005060	60	18.29	(4) 1/0, (50mm) (2x3mm)	137	
834N005080	80	24.38	(4) 1/0, (50mm) (2x3mm)	180	
834N005100	100	30.48	(4) 1/0, (50mm) (2x3mm)	224	
834N036020	20	6.10	(4) 2/0, (70mm) (2x3mm)	60	
834N036030	30	9.14	(4) 2/0, (70mm) (2x3mm)	88	
834N036040	40	12.19	(4) 2/0, (70mm) (2x3mm)	116	
834N036060	60	18.29	(4) 2/0, (70mm) (2x3mm)	172	
834N036080	80	24.38	(4) 2/0, (70mm) (2x3mm)	226	
834N036100	100	30.48	(4) 2/0, (70mm) (2x3mm)	281	

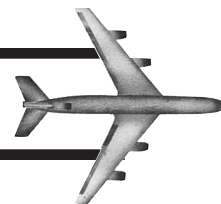
Other lengths available upon request



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## **THE ANDERSON FAMILY RECEPTACLES**

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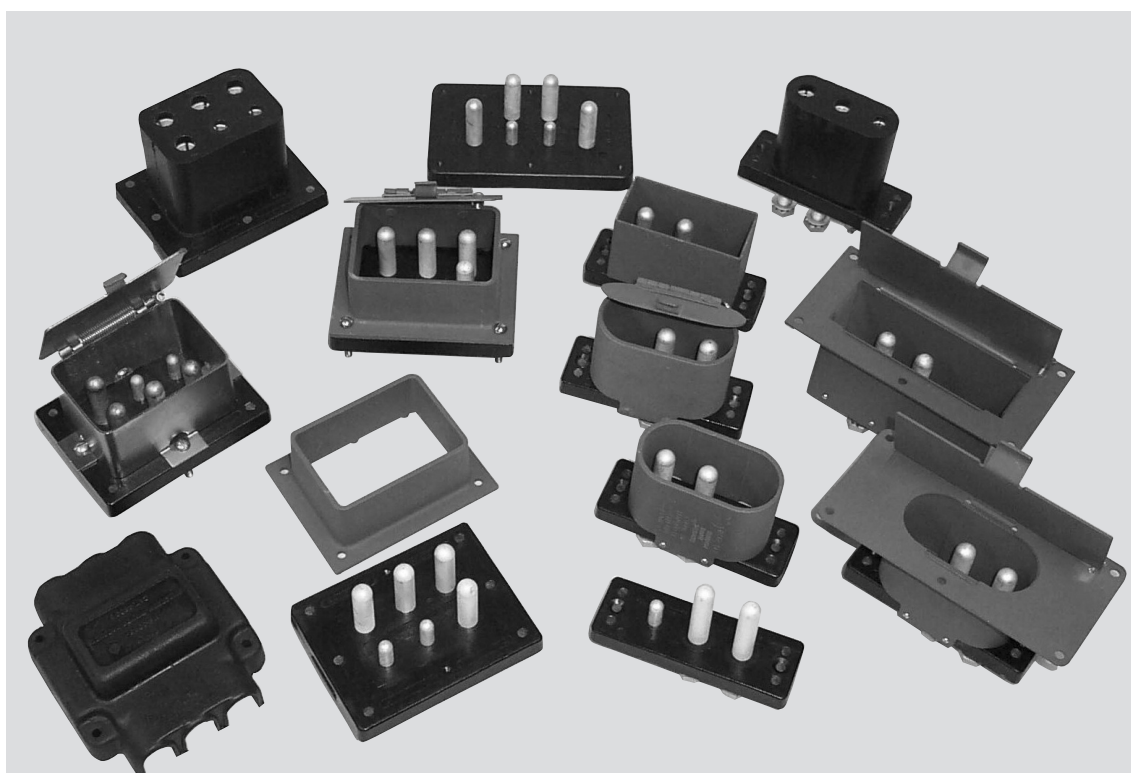


Ground Power Receptacles are located on the aircraft or other devices and receive the power input from a ground source to recharge and operate electrical accessories. Anderson offers the largest selection of receptacles ranging from 28V DC to 270V DC and 110V AC to 400V AC accommodating all your power needs. Varieties include male and female designs.

Anderson Airmotive DC and AC receptacles are manufactured to specification MIL-C-81790 and are listed on the Qualified Products List. Bases are molded of glass reinforced material for low moisture absorption and high strength. The copper power and brass control contacts are machined and silverplated to MS

tolerances.

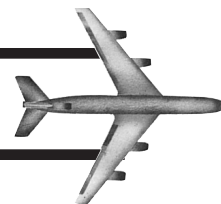
The shield, when applicable, is of anodized aluminum to guide plug insertion and guard against misalignment. Studs and contact nuts for lug connections are located at the rear of the receptacle.



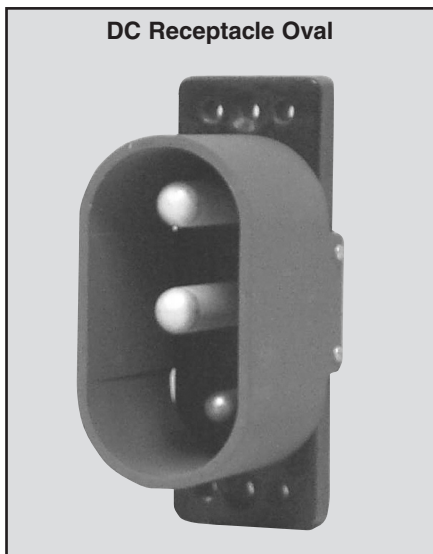
### ***Receptacle Performance to QPL MIL-C-81790 (AS81790)***

Dielectric Withstand	2500VRMS WITH< 1 milli-amp leakage
Current Rating - Power Contacts	450A continuous (> than 1 hour) 1500A for 1 minute
Current Rating - Control Contacts	35A continuous auxiliary
Flexural Strength	3500 lbs (1590 Kg)
Thermal Shock	-65° to +200°C
Impact Strength - Power Contacts	Withstands impact of 10 lb weight (4.5KG) dropped from 24 inches (60 cm)
Impact Strength - Control Contacts	Withstands impact of 10 lb weight (4.5KG) dropped from 12 inches (30 cm)

# GROUND POWER RECEPTACLES (3-POLE) 28V DC

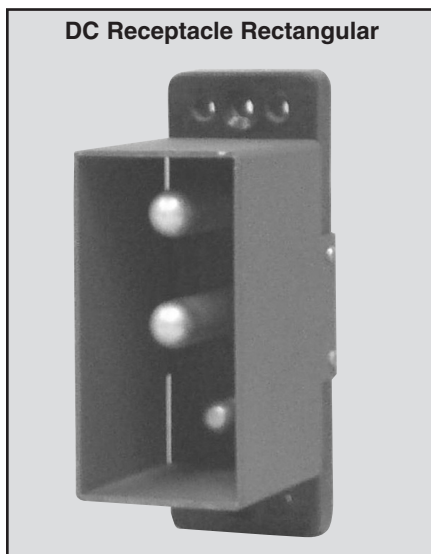


DC Receptacle Oval



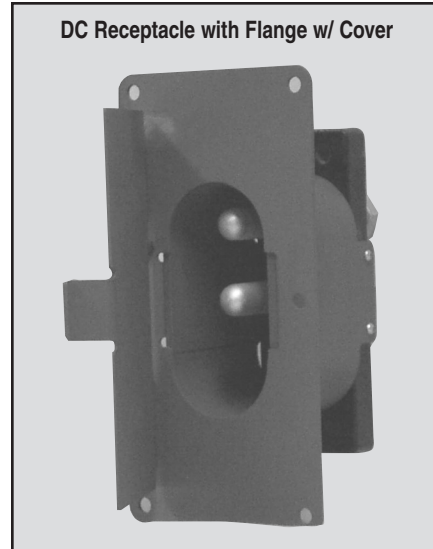
**Receptacle with Oval Shield  
MS 3506-1  
4621B**

DC Receptacle Rectangular

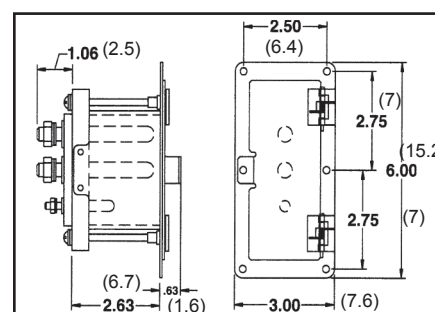
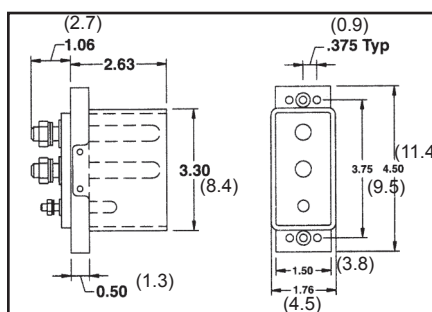
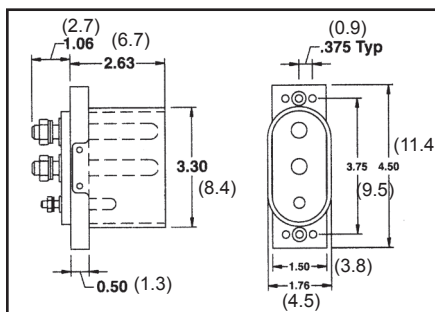


**Receptacle with Rectangular  
Shield MS 25018-2  
4632B**

DC Receptacle with Flange w/ Cover



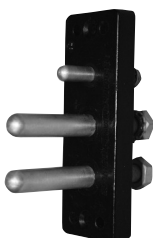
**Receptacle with Oval  
Shield and Cover  
4650B**



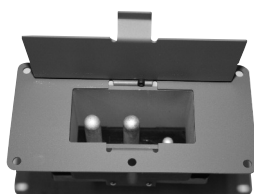
Description	Anderson Catalog Number	Government Reference Number	Mating Plug & Cable Assemblies
Receptacle	4622B		Series R64 Plug
Receptacle w/Oval Shield	4621B	MS3506-1	Series R65 (MS25488)
Receptacle w/Oval Shield and Snap Cover	4621BSC		Series R71, R92
Receptacle w/Oval Shield and Flanged Cover	4650B		(MS93047) Cable Assembly
Receptacle with Rectangular Shield	4632B	MS25018-2	Series R71 Plug (MS25487)
Receptacle w/Rectangular Shield & Flanged Cover	4651B		(MS25019) Cable Assembly
			R765, R771, R93
Female Receptacle	4665B		Series R68
Snap Cover for Female Receptacle	4652G5B		



4665B



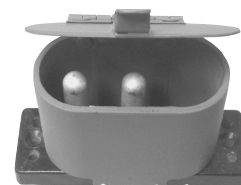
4622B



4651B

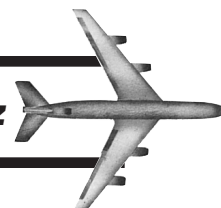


4652G5B

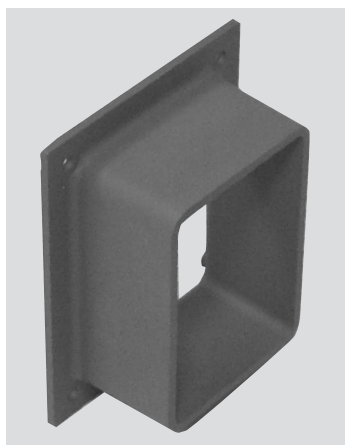


4621BSC

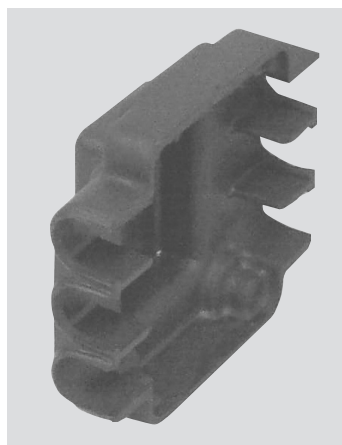
# Ground Power RECEPTACLES (6-POLE) 115/200V AC 400Hz



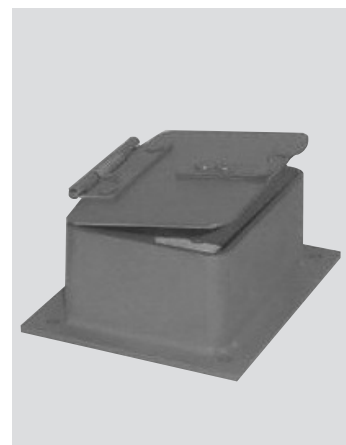
**Receptacle MS90302-3  
4627B**



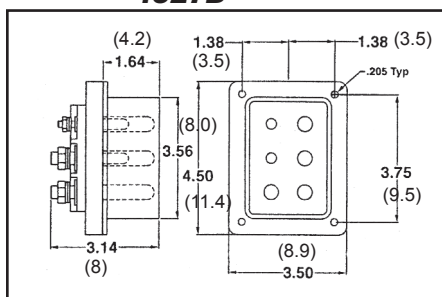
**Shield MS17845-1  
4654B**



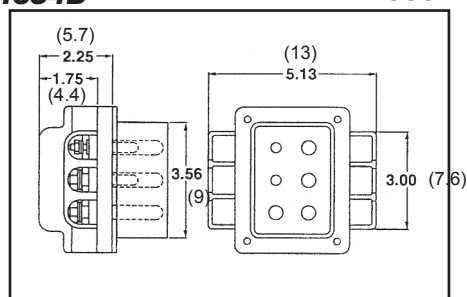
**Rear Cover MS3505-1  
4633B**



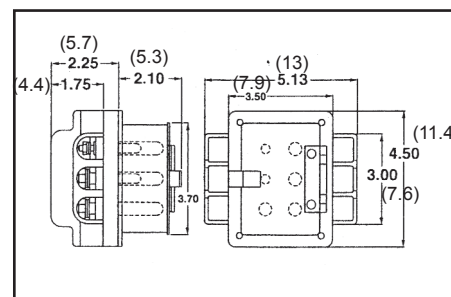
**Snap Cover 4652G2B**



**Receptacle with Shield**



**Receptacle with Shield  
and Rear Cover**



**Receptacle with Rear Cover  
and Snap Cover**

400 Hz Receptacles are designed to meet specifications for Connector Style 3A as detailed in ISO461/1 AND ISO461/2, and US Military Specification MIL-C-81790 (A) and are listed on Qualified Product List (QPL)

Description	Anderson Catalog Number	Government Reference Number	Mating Plug & Cable Assemblies
Receptacle Only	4627B	MS90362-3	Series R67 Plug (MS25486)
Receptacle w/Rear Cover and Shield	4628B	MS90362-4	
Receptacle w/Shield and Fine Thread Terminals	4631B	MS90362-1	
Rear Cover Only	4633B	MS3505-1	and Cable Assembly
Shield Only	4654B	MS17845-1	
Receptacle w/Rear Cover, Shield and Hinged Snap Front Cover	4652B	_____	MS90328
Hinged Snap Cover Steel Shield	4652G4	_____	Series R90, R91
Hinged Snap Cover Aluminum Shield	4652G2B		
Female Receptacle	4667B		
Snap Cover for Female Receptacle	4652G3B		
			Series R112

Power Terminal Studs have 3/8 - 24 thread. Control terminal studs have 10-32 N.F. thread.  
All dimensions are in inches and centimeters for reference only; they should not be used for layout work. Specific details will be furnished on request.



**4628B**



**4631B**



**4652G4**



**4652G3B**



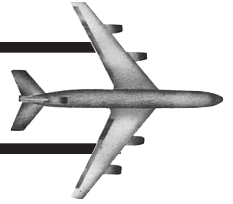
**4667B**



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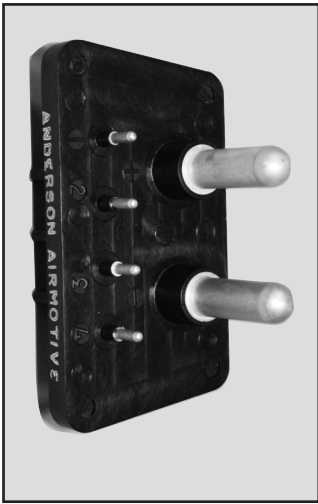
## **80 VDC Fast Charge; 230/400V AC RECEPTACLES**

---



### **80 VDC Fast Charge; 270 VDC**

Ground Power Receptacles are located on the aircraft or other devices and receive the power input from a ground source to recharge and operate electrical accessories. Anderson offers the largest selection of receptacles ranging from 28V DC to 270V DC and 110V AC to 400V AC accommodating all your power needs.



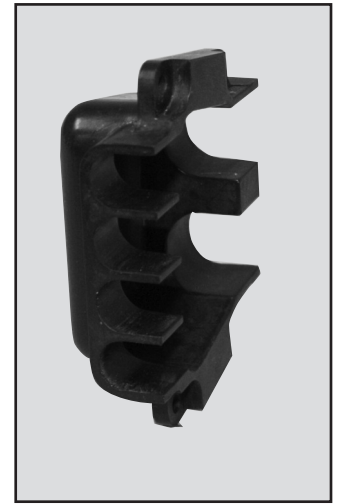
**Receptacle  
3-8358P1**



**Receptacle  
with Shield  
4629B**

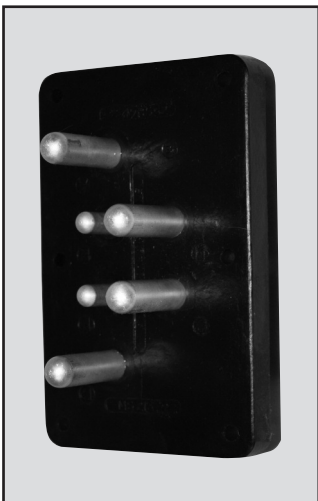


**Shield  
2-8356P1**



**Rear Cover  
4634B**

### **230/400V AC Receptacle**



**Receptacle  
3-4985G1**



**Receptacle  
with Shield  
MS21379**

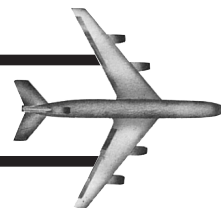


**Shield  
2-6976P1**



**Snap Cover  
2-6976P1SC**

# ANDERSON ATTACHABLE® AC HANDLE

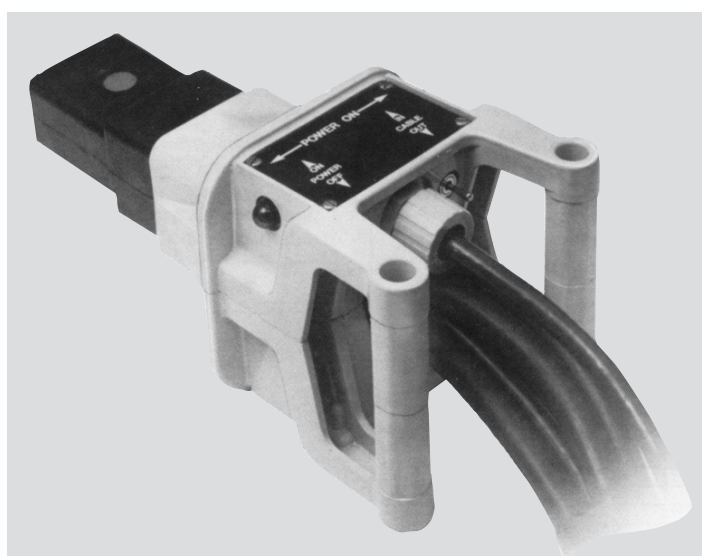


## ATTACHABLE® HANDLE FOR 400 HZ. GROUND POWER CONNECTORS

- **CONVENIENT**
- **LIGHTWEIGHT CLAM SHELL DESIGN**
- **COMPATIBLE WITH ALL COMMERCIAL AIRCRAFT**
- **ACCEPTS SINGLE-JACKETED CABLE or Multiconductors**



HANDLE WITH ON/OFF SWITCHES AND 3 LED's (31G35)



HANDLE WITH CABLE ASSY (30G1)

Anderson's ATTACHABLE® Handle provides a convenient method of coupling the ground power connector to the aircraft. The design features replaceable, weatherproof switches for controlling ground power and the cable retriever at the connector. This eliminates the need for cumbersome control boxes attached to the cable assembly. The handle is available without switches for applications that do not require remote control.

Fabricated from a unique Ionomer material, the handle combines light weight (2 lbs/1kg) with exceptional impact characteristics. It is impervious to typical aircraft fluids

such as jet fuel, skydrol, glycol and water.

The design offers protection for the power connector and a convenient hand grip to make engaging and disengaging easier. This helps reduce strain on the connector due to mishandling. An outer flange prevents the connector from laying on the ground, reducing abrasion of the connector and potential danger in wet locations.

Unlike other connectors with integral switches, the ATTACHABLE design allows easy replacement of the switches or the connector. A time-saving advantage available only with the ATTACHABLE® approach.

**30G1** Handle Assembly  
Non Electrified

**31G1** Handle Assembly Electrified  
(Requires switch, cable connector and  
indicator lamp.

**30G2** Adapter

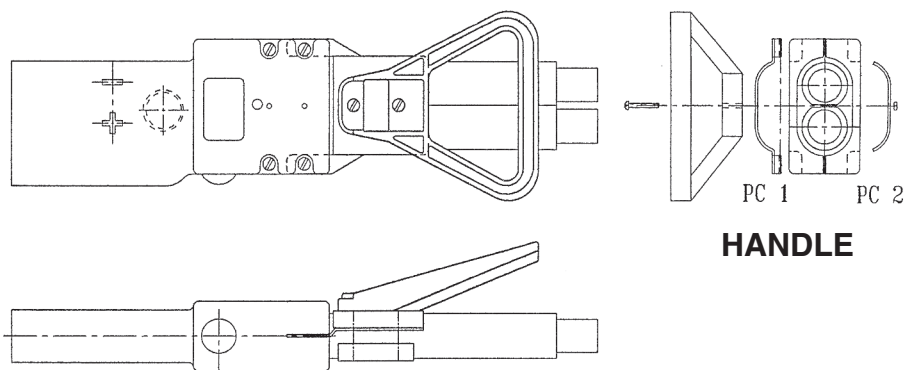
**31G35** Handle Assembly with  
on/off switches;  
3 LED'S and  
Sensing

ATTACHABLE® is a Registered Trademark of Anderson Airmotive Products

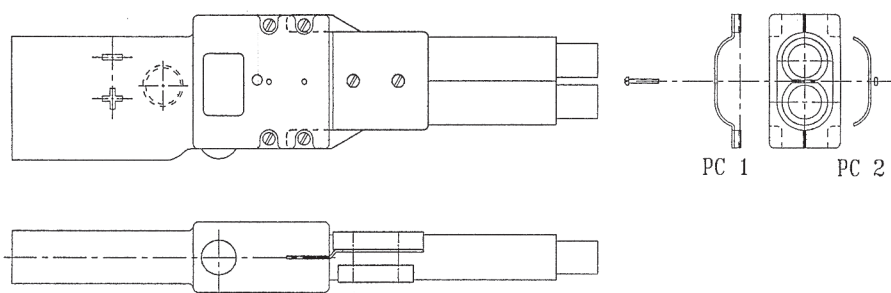
## DC Handle and Strain Relief



### DC Handle and Strain Relief on R65



### DC Strain Relief on R65



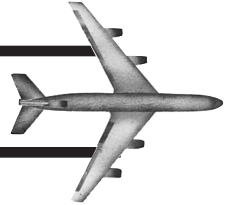
The DC Handle and Strain Relief design offers protection for the power connector and provides a convenient hand grip to make engaging and disengaging easier. This helps reduce strain on the connector due to mishandling.

#### Order Information:

**Strain Relief Kit:** Part No. — 120012G1G -with Green Handle  
— 120012G1R -with Red Handle  
— 120012G1M -with Steel Handle

**HandleOnly:** Gray Polycarbonate Plastic Part No. — HDLG  
Red Polycarbonate Plastic Part No. — HDLR  
Insulated non-corrosive steel Part No. — HDLM

# The Anderson Family BATTERY CONNECTORS



## Battery Connectors - CAT. NOS. R121, R125, 4657B



### Corkscrew plugs and receptacles lock into compact, rugged connections

#### The connector

Corkscrew locking plugs and receptacles provide compact, weathertight connections for quick indoor or outdoor battery charging and numerous other electric vehicle, industrial and aircraft applications.

For maximum conductivity with minimum corrosion, all contacts are silverplated copper. Even after salt-spray exposure electrical resistance stays minimal.

#### The plug

Plug mechanisms are encased in a durable Hypalon insulation housing. Stainless steel garter springs reinforce the socket-type contacts to increase mating pressure and make each connection equally reliable. Intergrally designed gaskets seal the mated connector.

The plug models differ primarily by means of termination and current rating. Catalog number R121 is a convenient no crimp no solder setscrew termination. Catalog number R125 provides the precise fit and rugged connection of a conical lug termination, which is retained in the plug with an allen-type screw.

A screw-lock mates the connector tightly enough to withstand severe vibration and physical shocks. It is operated by a twist handle which positively connects and disconnects the plug. The handle also indicates the state of the connection by its position.

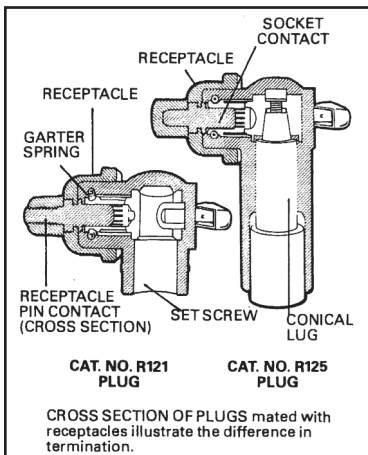
#### The receptacle

The receptacle is flanged for surface mounting. Pin-style contacts are molded into the glass-filled thermoset plastic housing. Hardware is plated to resist corrosion.

#### Applications

The corkscrew is a versatile, high performance connector, that may be used for weatherproof battery charger and intercomponent connections in electric vehicles; as a stand-by power connector in computer systems; or as a ground power connector in marine, air and rail transport. It is recommended for other similar applications, or wherever hydraulic fluids, oils, acids and other such potentially destructive elements could shorten the life of another connector.

data table

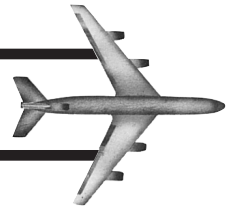


	PLUG	PLUG	PLUG RECEPTACLE
CATALOG NUMBER	R121	R125	4657
AMPERES, CONTINUOUS	250	300	300
VOLTS	125	600	600
CONNECT-DISCONNECTS	no load load		
	at least 5000 time (all) for disconnect use only (all)		
AWG CABLE SIZES	6-3/0	10-4/0	10-4/0
MAXIMUM CABLE O.D.	3/4"	1"	
CABLE CONNECTION	set screw	conical lug*	threaded pin
CONTACT TYPE	socket	socket	
CONTACT MATERIAL	silverplated copper (all)		
CONTACT RESISTANCE	approximately 75 micro-ohms maximum after 100-hr. salt spray test		
CONTACT MATING FORCE	<12 inch-pound torque (all)		
AUXILIARY CONTACT	available - consult factory		
TEMP. RISE ABOVE AMBIENT	<30°C with largest cable rated-continuous duty (all)		
ENVIRONMENTAL RESTRICTIONS			
AMBIENT OPERATING TEMP.	-40°C to + 71°C (all)		
WEATHERPROOF	yes†	yes†	yes‡
OTHER TESTING	vibration, temperature, shock, dielectric strength, fungus, salt spray, humidity, hydraulic fluids, acid, alkali, lubrication oil		
HOUSING COLOR	black	black	black

\*crimp or solder contact \*\* shrink tubing over connector sleeve-to-cable joint and potted set-screw holes required

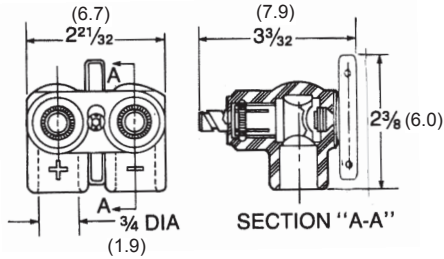


# BATTERY CONNECTORS

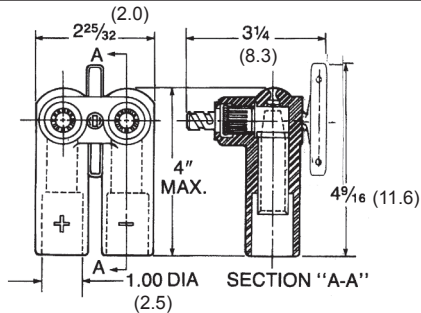


## Battery Connectors - Plugs and Receptacles

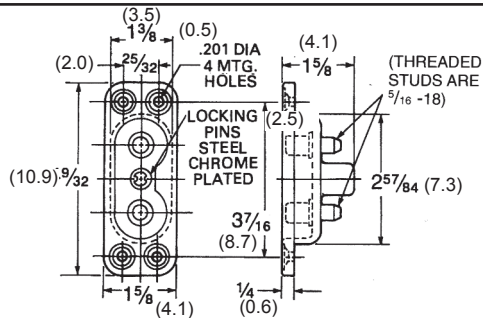
### DIMENSIONS



**CAT. NO. R121 PLUG**



**CAT. NO. R125 PLUG**



**CAT. NO. 4657B RECEPTACLE**

#### SUGGESTED CRIMP TOOLS FOR R125

AWG Size	Tool	Nest	Indenter
6		A6CD	Y34PL-1
5-4	Burndy	A2CD	Y34PLA
3-2	Y34A	A1CD	Y34PLA
1	Hypress	A25D	Y34PA
1/0	or	A26D	Y34PA
2/0	equivalent	A27D	Y34PA
3/0		A28D	Y34PR-5
4/0		A29D	Y34PR-5

The cat. no. R125 Plug is covered by the following patents:  
U.S. Patent 2,917,722  
Canadian Patent 612,047

### ORDERING INFORMATION

#### set screw termination



AWG Size **	Metric mm	Catalog Number
#6-3/0	(85 )	R121

#### lug termination (lugs included)



AWG Size **	Metric mm	Catalog Number
10	(5)	R125G1
8	(8)	R125G2
6	(13)	R125G3
5-4	(17-21)	R125G4
3-2	(27-34)	R125G5
1	(42)	R125G6
1/0	(53)	R125G7
2/0	(67)	R125G8
3/0	(85)	R125G9
4/0	(107)	R125G10

#### lug sets (replacement)



Two lugs per set, with hardware

AWG Size **	METRIC mm	Catalog Number
8-10	(8-5)	970
12-10	(3-5)	971
8	(8)	972
6	(13)	973
5-4	(17-21)	974
3-2	(27-34)	975
1	(42)	976
1/0	(53)	977
2/0	(67)	978
3/0	(85)	979
4/0	(107)	980

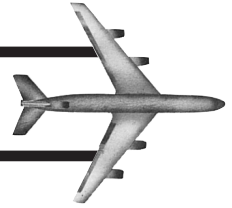
#### ordering information Receptacle



Description***	Catalog Number
Black with threaded studs _____	4657B

\*\* Soldering is recommended for cable sizes 10 through 8 AWG. For Cable sizes 6 through 4/0 AWG, see suggested crimping tool.

# AC, DC QuickBreakaway® QB

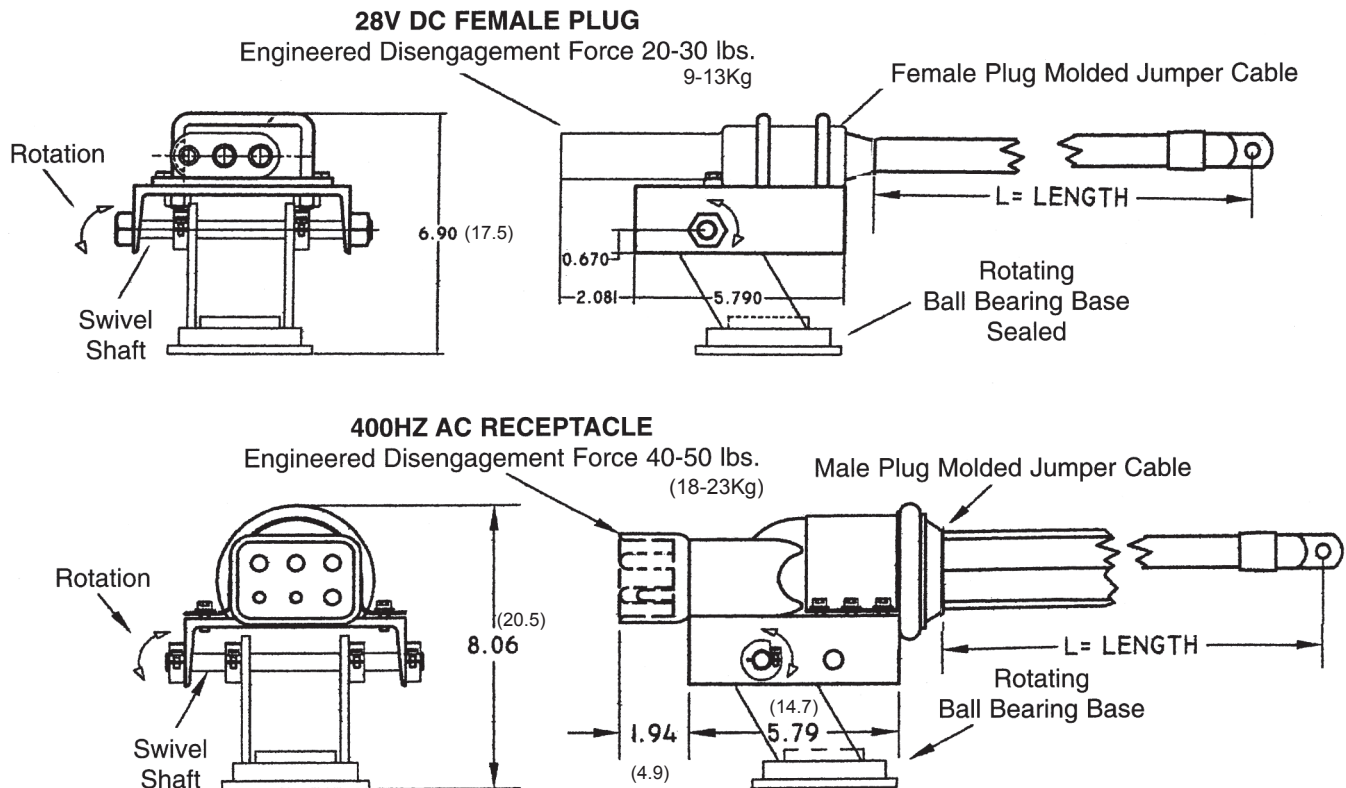


## Principle:

The QuickBreakaway® is designed to disconnect the power cord from the source (GPU or Bridge) without damage to the equipment if operators fail to disconnect the power cable.

## Operation:

The QB is a rugged ball bearing swivel assembly that rotates the male or female plug jumper cable 360° in the direction of pull. The male-female configuration is designed to disconnect at about 50% of the normal disconnect force; thus, the connection will break at the QB assembly on the power source if the plug is not disengaged at the plane.



## Installation:

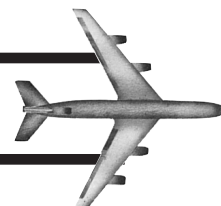
The QB can easily be installed on a GPU or on a bridge through the mounting holes in the base. Adaptors are available for mounting. The jumper assembly hooks up to the power source output with terminal lugs and is customized for length based on the application.

The power cable will require two female connectors or a male-female depending on configuration; one connector plugs into the QB and the other provides power to the plane.

Order Information:	DC		AC
	QB-DC		QB-AC
A. 360° Swivel Base			
B. QB Jumper	Male	R68GxxEQB-xM	R112GxxEQB-xM
	Female	R65GxxEQB-xM	R67GxxEQB-xM
C. QB Cable Assy	Double Female	R65GxxE-2-xM	R67GxxE-2-xM
	Male/Female	R68GxxEQBR65-xM	R112GxxEQBR67-xM


® QuickBreakaway (QB) is a registered trademark of Anderson Airmotive Products Co., Inc.

# The Anderson Family Options & ACCESSORIES




## Lug Sets

**Cable lugs** for crimping or soldering to cable prior to assembly into Attachable® plugs. R65, R67, R71 Series, R125, R68, R112, R765, R768, R771

Cable lug sets			
 Two lugs per set, with hardware	AWG Size **	Metric	Catalog Number
	12-10	(3.3-5.3)	971
	8-10	(8.3-5.3)	970
	8	(8.3)	972
	6	(13.3)	973
	5-4	(17.2-21)	974
	3-2	(27.4-33.6)	975
	1	(42.4)	976
	1/0	(53.5)	977
	2/0	(67.4)	978
	3/0	(85)	979
	4/0	(107.2)	980

**Terminal lugs** for crimping or soldering on to cable.

Terminal lug sets				
 Two lugs per set	AWG Size **	Metric	Terminal Lug Set	Terminal Lug Set Catalog #
			3/8" (0.9) hole	1/2" (1.3) hole
	12-10	(3.3-5.3)	T971	T971-1
	8-10	(8.3-5.3)	T970	T970-1
	8	(8.3)	T972	T972-1
	6	(13.3)	T973	T973-1
	5-4	(17.2-21)	T974	T974-1
	3-2	(27.4-33.6)	T975	T975-1
	1	(42.4)	T976	T976-1
	1/0	(53.5)	T977	T977-1
	2/0	(67.4)	T978	T978-1
	3/0	(85)	T979	T979-1
	4/0(107.2)	(107.2)	T980	T980-1

## Crimp Tool Recommendations

### VERSA-CRIMP® HYDRAULIC COMPRESSION TOOL HAND OPERATED TYPE VC7

#### Die Less

- The original notched-top VERSA-CRIMP compression tool allows direct access of the tool to the connector for compressing multi-strand/rope lay copper cable in mining, marine and industrial applications. Copper color label denotes use with copper connectors, only with 360° head rotation.

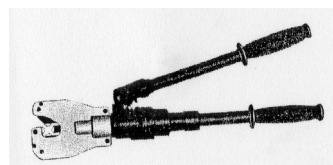
Includes:

- High impact plastic carrying and shipping case with Service Manual and 2-Year warranty.

- Notes: 1) Due to high pressure developed by this tool, it is not to be used on aluminum connector or cable.  
2) add suffix "D" to catalog number for neoprene covered head.  
3) Type VCHTG, Direct Reading Pressure Gauge, is used for checking operating pressure.

® Anderson Electric

TOOL
VC7



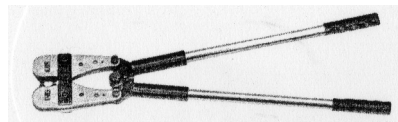
#### TYPE VC7 - Hand tool

Conductor Range — #6 Str. —500 MC MBare Cu  
Approx. Wt. Each — 10.5 lbs. (4.7 kg.)  
Also available as bench mounted

## Rotating Hex Die Hand Crimper (CT-090)

RANGE: #6 AWG TO 4/0 AWG

LENGTH: 25.5 inches WEIGHT; 6.5 lbs.

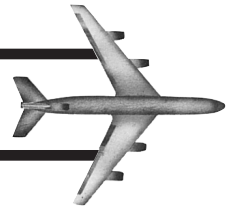


CT-090

## Hex Die Crimper

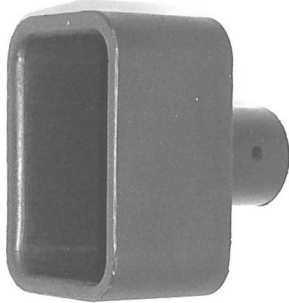
MS25441 Crimper with 12 ton Hydraulic Head and appropriate MS90485 crimp dies. T&B or equivalent

## ACCESSORIES (cont'd)



### Environmental End Caps

Protect end of connector from dust and environmental damage



AC END CAP FOR PLUG  
2-8300P1



AC END CAP  
FOR RECEPTACLE  
2-8300P2



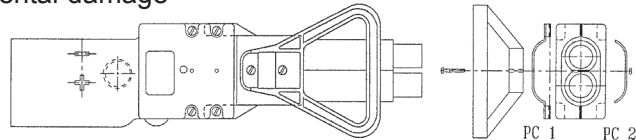
DC END CAP  
FOR RECEPTACLE  
2-8299P2



DC END CAP  
FOR PLUG  
2-8299P1

### Strain Relief for DC Cable Assemblies

Protect end of connector from dust and environmental damage



Order Information:

Strain Relief Kit: Part No. - 120012G1

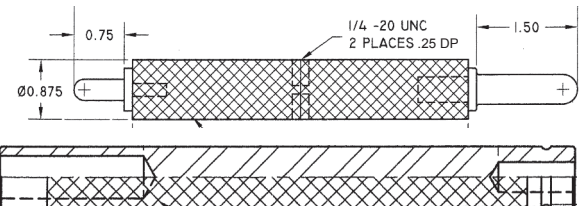
Handle: Gray Polycarbonate Plastic Part No. — HDLG

Red Polycarbonate Plastic Part No. — HDLR

Insulated non-corrosive steel Part No. — HDLM

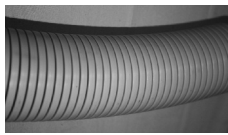
### Test Pins

1. For checking plug wear on Power and Auxiliary female contacts  
Order: TPM
2. For checking receptacle power pin and auxiliary pin wear  
Order: TPF



### Scuff Covers

Protects cables from direct contact with ground and eases sliding.



Supplied in 30 feet max increments; Order SC-xx



R65G3E-3SK

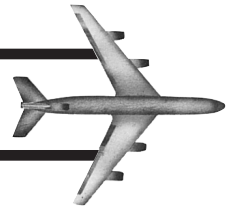


AC SPLICE KIT R67G36E-3SK

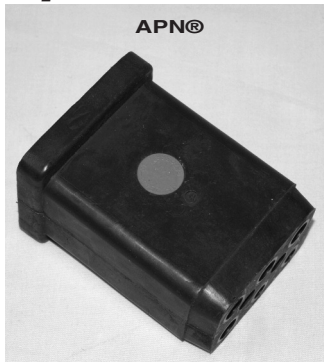
**Splice Kits** DC & AC See page 14,15,16 for options.



## ACCESSORIES (cont'd)

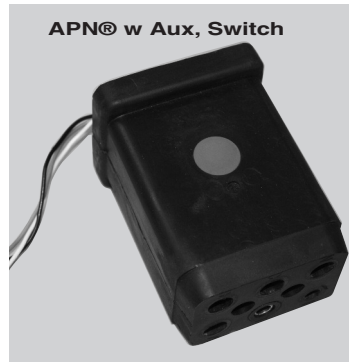


### Replacement Noses



APN®

R90 Kit 1  
R91 Kit 1



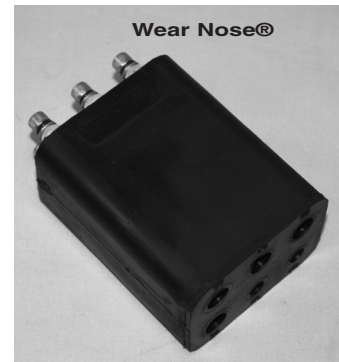
APN® w Aux, Switch

R90 Kit 1SW  
R91 Kit 1SW



Aux. Switch Assembly

1-8627G1SWA KIT  
REPLACEMENT  
SWITCH ASSY.



Wear Nose®

R901 (Black), R901Y (Yellow)

Double safety nose option can be added to both APN and Wear Nose. Add DS as prefix. The DS will disconnect plug if resistance is too high when properly connected.

### Cable Options

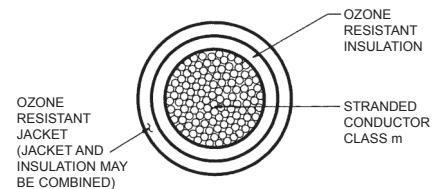
#### MIL-C-5756 C

Super flexible ozone **RESISTANT**

1/0 H 2041P2

2/0 H 2042P1

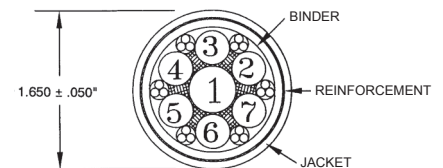
4/0 H 2044P1



#### Single Jacket Balanced Composite Cable

260A 400 Hz # 81501

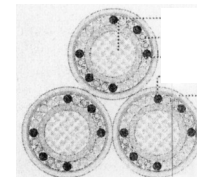
300A 400 Hz #81502



#### Betajet®

50 MM #81503

70 MM #81504



®BetaJet registered Trademark Leoni Studer Cable  
Other Cable Available - Welding, TPE Insulation, etc.

### Assembly Kit

Order No. 111239G2



### Strap Hanger

Relieves stress on plugs for longer cable assembly life.

Order No. A28273





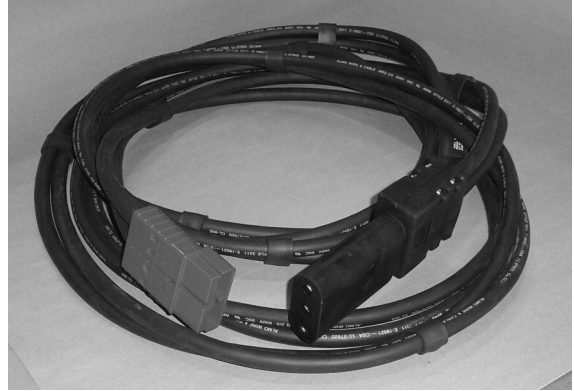
## ANDERSON AIRMOTIVE CAN ENGINEER SOLUTIONS TO YOUR SPECIAL POWER CONNECTION REQUIREMENTS



MS 3108 with R67G11E



28V DC Helicopter Plug  
250 MCM R83, R84



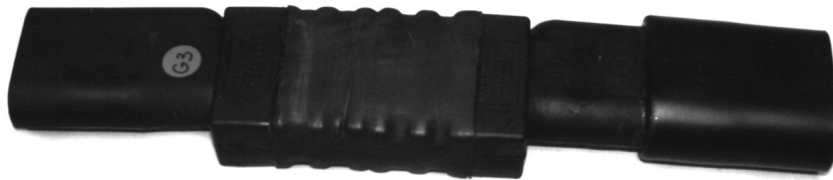
R65 with SB Anderson Power Products  
Battery Connector



R65G3E with R125 BATTERY PLUG

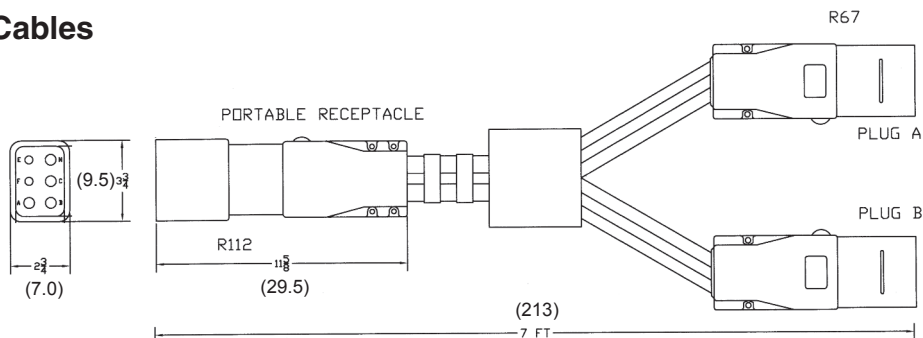


MS 27285 Male with MS25486 PLUG



Lear Jet Adapter: Female/Male Jumper Order: R68G3ER65-0

### “Y” Cables



AC + DC “Y” available designed so that both output plugs have to be plugged in to power up. AC Part # R112GxxER67GS2-7A; DC Part # R768GxxER65-2-4A



## CONVERSION OF AMERICAN WIRE GAUGE TO METRIC SYSTEM

SIZE AWG OR MCM	AMPERES SINGLE COND. 75° C COPPER (NFPA)	AREA			APPROX. DIAMETER	
		CIRCULAR MILS	SQUARE INCHES	SQUARE mm	INCHES CLASS M (NEMA)	mm
20	7	1020	0.0008	0.52	0.038	.97
18	10	1620	0.0013	0.82	0.048	1.22
16	15	2580	0.0020	1.31	0.060	1.52
14	20	4110	0.0032	2.08	0.078	1.98
12	25	6530	0.0051	3.31	0.101	2.57
10	40	10380	0.0082	5.26	0.126	3.20
8	65	16510	0.0130	8.37	0.162	4.11
6	95	26240	0.0206	13.30	0.215	5.46
4	125	41740	0.0328	21.15	0.269	6.83
2	170	66360	0.0521	33.62	0.337	8.56
1	195	83690	0.0657	42.41	0.376	9.55
1/0	230	105600	0.0829	53.50	0.423	10.74
2/0	265	133100	0.1045	67.43	0.508	12.90
3/0	310	167800	0.1318	85.01	0.576	14.63
4/0	360	211600	0.1662	107.2	0.645	16.38
250	405	250000	0.1964	126.7	0.713	18.11
300	445	300000	0.2356	152.0	0.768	19.51
500	620	500000	0.3927	253.4	0.997	25.32
750	785	750000	0.5891	380.0	1.207	30.66
1000	935	1000000	0.7854	506.7	1.404	35.66



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*PRODUCTS Co., Inc.*

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