



ANDERSON AIRMOTIVE

YOUR POWER CONNECTION

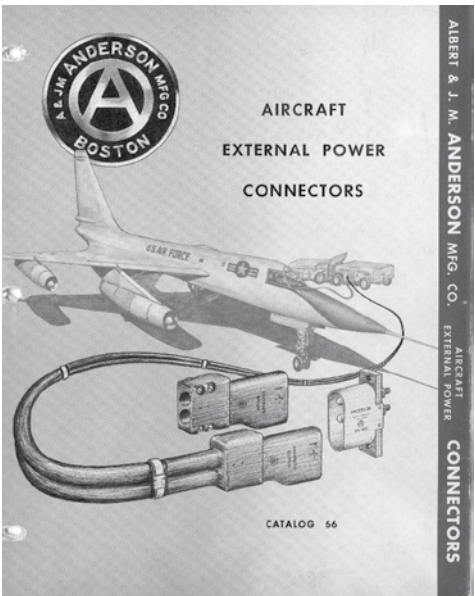
Product Catalog

2025





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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Save Time and Money with Anderson Airmotive.



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.

In times of rising material and transportation costs, 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 support service running, but will eliminate costs associated with packaging, shipping/tariffs, and waste removal. When you choose Anderson, you save time and money as well as make the right choice for ESG.



THE ANDERSON AIRMOTIVE ADVANTAGE

ANDERSON AIRMOTIVE is the only manufacturer with a complete line of QPL'd (AS7974D) 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 20 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 AS7974. Now available with EcoNose (EN), Temperature Sensing (T) and Euro Contact (F).

Order R67GxxE(F), (EN)(T) AC Plug
R65GxxE(F),(EN)(T) DC Plug
R112GxxE(F), (EN)(T) Portable Receptacle
R68GxxE(F), (EN)(T) DC Portable Receptacle
R64 GxxE(F), (EN)(T) DC Plug
R71G xxE(F), (EN)(T) DC Plug
R72G xxE(F), (EN)(T) DC Plug
R78GxxE(F), (EN)(T) DC Portable Receptacle

THE ATTACHABLE POWER NOSE® PLUG-RUBBER

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 synthetic elastomer. Available with EcoNose (EN), Temperature Sensing (T) and Euro Contacts (F).

Order R90Gxx(E)(F)(G)(W)(EN)(T) AC Plug
R93Gxx(E)(F)(G)(W)(EN)(T) DC Plug

THE ATTACHABLE POWER NOSE® WITH SWITCHES, LEDs - Ionomer Plastic

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; LEDs,EcoNose, Microswitch Sensing, Single Piece Contact and Euro Contact are available.

Order R91Gxx(E)(F)(G)(Y)(Z)(W)(EN)(T) AC Plug
R92Gxx(E)(F)(G)(Y)(Z)(W)(EN)(T) DC Plug

THE 4 OR 6 WIRE DC PLUGS

These plugs are designed to accommodate two wires per leg with optional split control sensing leads and micro switch. 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) (EN) Plug
R768GxxE (w)(v) Portable Receptacle
R778GxxE (w)(v) Portable Receptacle

B1B 230/440V AC

B1B Military Plug for 230/400V 400A applications.

R129GxxE

270 DC PLUG & FAST CHARGE CABLES

Plugs and cable assemblies are designed for 270V DC applications in overmolded versions with replaceable WearNose®. Also used in Fast Charge applications. 9-Pin Fast Charge overmolded cable assemblies provide 400V/400A DC Power

Order R270GxxE
Order R80GxxE

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.

(F) Euro Contact (G) Single Piece Contact W-denotes sensing options Z-LED options Y-switch options V-lug options EN-EcoNose T-Temperature Sensing



QUALIFICATION TESTS TO AS7974 for Ground Power Plugs and Cable Assemblies; 400 Hz AC, 28V DC. The Military uses the QPL listings as another control measure to ensure consistency, quality and performance to specifications.

A, B. Dimensions and Examination of product

Measure all dimensions as per print for MS25486 AC; MS25488 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 on specified device.

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 floating contacts

Individual power contacts shall measure 24 lbs maximum insertion (A,B,C,N), extraction 16-24 lbs.; auxiliary contacts shall measure 2-4 lbs max. (E,F). Force measured at 8 inches per minute on specified device.

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 milliampere.

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 (70mm) 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.



R65 WITH COMPONENTS

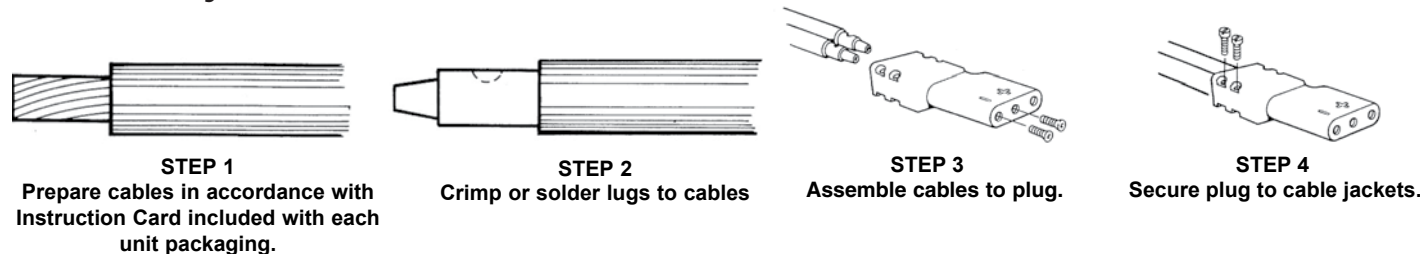
Repair Ground Power Cable Assemblies . . . Or Make New Ones.

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

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Assembly Procedure Illustrated



Guide to Military Standards for Attachable or Overmolded Cable Assemblies

ANDERSON CATALOG NUMBER	AS NUMBER ATTACHABLE PLUG	FOR CABLE ASSEMBLY AS(MS) NUMBER	FORMER CABLE ASSEMBLY NUMBER
R65G1E	MS25488-25	MS90347-7, -8, -9, -10, -11, -12	MS25488-6, -7, -8, -9, -10, -11
R65G2E	MS25488-26	MS90347-13, -14, -15, -16, -17, -18	MS25488-12, -13, -14, -15, -16, -17
R65G3E	MS25488-27	MS90347-19, -20, -21, -22, -23, -24	MS25488-18, -19, -20, -21, -22, -23
*R65G7E	—	MS24121-1	MS24121-1
R67G4E	MS25486-16	MS90328-13, -14, -15, -16, -17, -18	MS25486-4, -5, -6, -7, -8, -9
R67G5E	MS25486-30	MS90328-25, -26, -27, -28, -29, 30	MS25486-18, -19, -20, -21, -22, -23
*R67G12E	—	MS24208-1	MS24208-1
R67G21E	MS25486-17	MS90328-19, -20, -21, -22, -23, -24	MS25486-10, -11, -12, -13, -14, -15
R67G36E	MS25486-31	MS90328-31, -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	MS25019-20, -30, -40, -60, -80, -100	MS25487-3, -4, -5, -6, -7, -8
R112GxxE	—	(Mating Unit for CAT. R67)	(Mating Unit for CAT. R67)

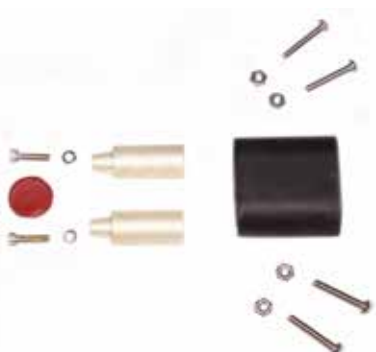
*2 Heads Required for Cable Assembly
**Recommended crimp tool is the VC-7SP crimp tool. Consult factory for further information.



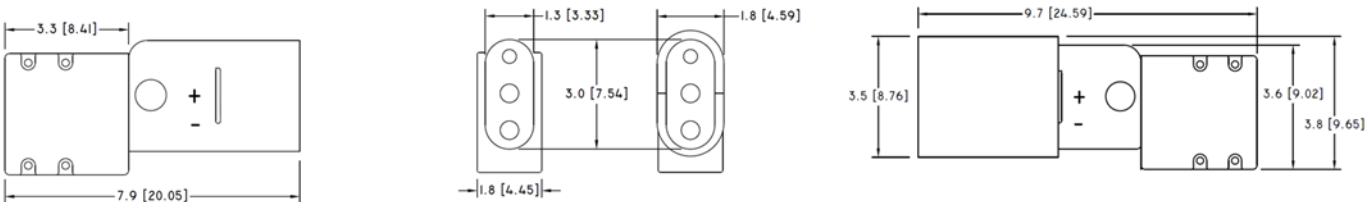
Attachable® Portable Plugs and Receptacles, 3 Pole. R65 and R68 Series 28VDC



R65 PORTABLE PLUG



R68 PORTABLE Receptacle



R65 PLUG WITH ECONOSE

- The ATTACHABLE Portable Plugs are:
- Molded of synthetic rubber formulated to stand up to wear and tear with resistance to moisture/chemicals
 - Made with silver plated copper contacts
 - Manufactured to AS25488 and listed on QPL AS7974
 - Assembled with either crimped or soldered lugs
 - Available with EcoNose® Cap

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

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

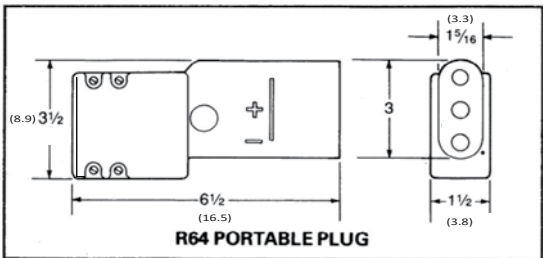
COMPLETE PLUG NO.	MILITARY PART NO.	BODY ONLY PART NO	CABLE ACCOMMODATION	GROMMET KIT NO.	PORT RECEPTACLE PART NO.	Schematic
R65G1E	MS25488-25	110368G2E	2-1/0(50mm) AS5756 Single Conductor	112080G1	R68G1E	
R65G2E	MS25488-26	110368G2E	2-2/0(70mm) AS5756 Single Conductor	112080G2	R68G2E	
R65G3E	MS25488-27	110368G2E	2-4/0(120mm) AS5756 Single Conductor	112080G3	R68G3E	
R65G6E		110368G2E	2-4/0(120mm) Oval Twin Conductor	112080G6	R68G6E	
R65G8E		110368G2E	2-1/0(50mm) 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, configurations and options
R65GxxE(EN) xx=model number (EN)=EcoNose



Attachable® Portable Plugs and Receptacles, R64 and R71 Series

The R64 Series are manufactured with AS25488 components but is more compact for smaller wires.



R64 PORTABLE PLUG

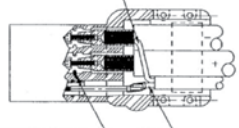
Complete Plug No.	Body Only Part No.	Cable Accommodation	Grommet Kit No.	Schematic
R64G10E	110364G1E	2-1/0 (50mm) Welding Cable Single Conductor	112079G10	
R64G12E	110364G1E	2-#16 (1.5mm) Welding Cable Single Conductor	112079G16	
R64G16E	110364G1E	2-2/0 (70mm) Cable Single Conductor	112079G12	

3-Pole DC 28V Attachable® Plugs-3 wire; Rect/Oval Nose; Split Control Sensing® Attachable is a registered Trademark of Anderson Airmotive

The 71 Series are manufactured to AS25487 specifications.



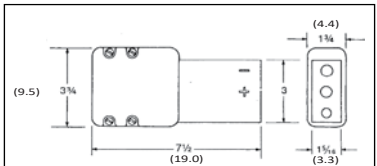
R71 PORTABLE PLUG (R) Rectangular Nose



SENSING LEAD SCHEMATIC R72



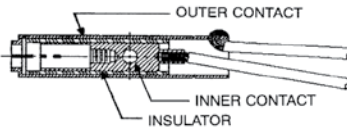
DC GROMMET KIT FOR R71



R71 PORTABLE PLUG "R"



R71 PORTABLE PLUG (O) Oval Nose



SENSING LEAD 2 WIRE

Complete Plug No.	Nose R-Rect O-Oval	Military Part No.	Body Only Part No.	Cable Accommodation	Portable Recept.#	Grommet Kit No.	Split Control	Schematic
R71G3E	R		110371G1E	2-4/0 (120mm) TWIN OVAL; #8/1(8mm) Aux.	R78	112085G3	NO	
R71G4E	R		110371G1E	2-4/0 (120mm) TWIN OVAL; #10/1(5mm) Aux.	R78	112085G4	NO	
R71G5E	O		110371G2E	2-4/0 (120mm) AS5756C; #12/2 (2x3mm) Aux.	R78	112085G5	NO	
R71G6E	R	MS25487-10	110371G1E	2-4/0 (120mm) AS5756C Single Conductor; #8/1 (8mm) Aux.	R78	112085G6	NO	
R71G9E	O		110371G2E	2-2/0 (70mm) Welding Single Conductor, #12/2 (2x3mm) Aux.	R78	112085G9	NO	
R71G11E	O		110371G2E	2-2/0 (70mm) Welding Single Conductor, #12/2 (2x3mm) Aux.	R78	112085G11	NO	
R71G15E	R		110371G1E	2-2/0 (70mm) AS5756C Single Conductor;; #8/1 (8mm) Aux.	R78	112085G15	NO	
R72G5E or R71G5E1S	O		110372G2E	2-4/0 (120mm) AS5756C Single Conductor; #12/2 (2x3mm) Aux. with split control sensing lead (1 wire)	N/A	112085G5	YES	
R71G5E2S	O		110372G2E2S	2-4/0 (120mm) AS5756C Single Conductor; #12/2 (2x3mm) Aux. with split control sensing lead (2 wire) (can use #12/3)	N/A	112085G5	YES	
R71G5ESWC	O		110373G2E	2-4/0 (120mm) AS5756C Single Conductor; #12/3 (3x3mm) Aux. with microswitch auxiliary	N/A	112085G5	NO	

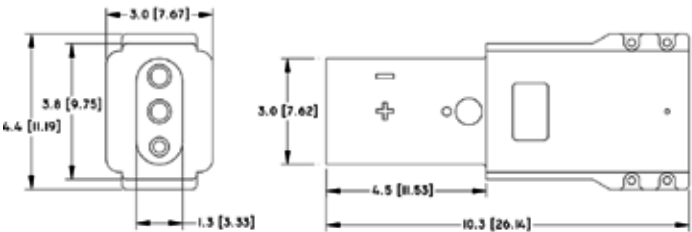
Other models available for different cable sizes, configurations and options
R71GxxE(EN)(W) xx=model number (EN)=EcoNose
(W)=Sensing Options 1S=one wire split control 2S=two wire split control SWC=Microswitch



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



With Eco-Nose



Grommet Kit for R771

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 Accommodation	Grommet Kit No.	Split Control	Portable Receptacle	Schematic
R765G1E	4-wire	110381G2E	4-1/0 (50mm) AS5756C Single Conductors	112086G1	NO	R768G1E	
R765G2E	4-wire	110381G2E	4-2/0 (70mm) AS5756C Single Conductors	112086G2	NO	R768G2E	
R765G3E	4-wire	110381G2E	4-4/0 (120mm) AS5756C Single Conductors	112086G3	NO	R768G3E	
R771G1E	5-wire	110382G2E	4-1/0 (50mm) AS5756C Single Conductors; #8(8mm)/1 Aux.	112087G1	NO	R778G1E	
R771G2E	5-wire	110382G2E	4-2/0 (70mm) AS5756C Single Conductors; #8(8mm)/1 Aux.	112087G2	NO	R778G2E	
R771G3E	5-wire	110382G2E	4-4/0 (120mm) AS5756C Single Conductors; #8(8mm)/1 Aux.	112087G3	NO	R778G3E	
R771G30E	6-wire	110382G2E	4-70mm Single Conductors; #12/2(2x3mm) Aux.	112087G30	NO	R778G30E	
R771G1E(W)	6-wire	110383G2E	4-1/0 (50mm) AS5756C Single Conductors; #12/2(2x3mm) Aux.	112087G1	YES		
R771G2E(W)	6-wire	110383G2E	4-2/0 (70mm) Single Conductors; #12/2(2x3mm) Sensing	112087G2	YES		

Other Models available for different cable sizes and configurations
R765GxxE(EN) xx=model number (EN)=EcoNose
R771GxxE(EN)(W) xx=model number (EN) EcoNose
(W)=Sensing Options 1S=one wire split control 2S=two wire split control SWC=Microswitch



AC 115/200 VOLTS 400 Hz
Attachable® Portable Plugs and Receptacles, 6 Pole, R67 and R112 Series



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 AS7974.

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

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

Complete Plug No.	Military Part No.	Body Only Part no.	Grommet Kit No.	Cable Accommodation	Portable Receptacle Part No.
R67G4E	MS25486-16	110369G4E	112081G4	4-1/0 (50mm) AS5756C Single Conductor	R112G4E
R67G5E	MS25486-30	110369G4E	112081G5	4-1/0 (50mm) AS5756C Single Conductor; 12/2 (2x3mm)Aux.	R112G5E
R67G7E		110369G4E	112081G7	4-2/0 (70mm) Welding Single Conductor	R112G7E
R67G12E		110369G4E	112081G12	4-#4 (20mm) Welding Single Conductor; 12/2 (2x3mm)Aux.	R112G12E
R67G16E		110369G4E	112081G16	4-#6 (13mm) Welding Single Conductor; 12/2 (2x3mm)Aux.	R112G16E
R67G18E		110369G4E	112081G18	4-#2 (34mm) Welding Multiconductor	R112G18E
R67G20E		110369G4E	112081G20	4-2/0 (70mm) Welding Single Conductor; 12/2 (2x3mm)Aux.	R112G20E
R67G21E	MS25486-17	110369G4E	112081G21	4-2/0 (70mm) AS5756C Single Conductor	R112G21E
R67G26E		110369G4E	112081G26	3-#3 (27mm) 1#5 (17mm) CVSF Multiconductor	R112G26E
R67G36E	MS2548631	110369G4E	112081G36	4-2/0 (70mm) AS5756C Single Conductor; 12/2 (2x3mm)Aux.	R112G36E
R67G56E		110369G4E	112081G56	4-1/0 (50mm) Welding Single Conductor; 12/2 (2x3mm)Aux.	R112G56E
R67G82E		110369G4E	112081G82	4-1/0 (50mm) Single Conductor; (2x2.5mm) Aux.	R112G82E
R67G91E		110369G4E	112081G91	3-1/0 (50mm) 3-#6 (13mm) Command Multiconductor	R112G91E
R67G100E	Voltage Sensing	110369G4E	112081G100	4-2/0 (70mm) : 12/5 (5x3mm) Aux.	R112G100E
R67G101E	Voltage Sensing	110369G4E	112081G101	4-1/0 (50mm) : 12/5 (5x3mm) Aux.	R112G101E
R67G103E		110369G4E	112081G103	6-#4 (20mm) 1-1/0 (50mm) 6x1 Composite	R112G103E

Other models available for different cable sizes, configurations and options
R67GxxE(EN)(W)(T) xx=model number (EN)=EcoNose (T)=Thermal Switch
(W)=Sensing Options 1S=one wire split control 2S=two wire split control SWC=Microswitch



Attachable Power Nose® (APN) R90: Rubber

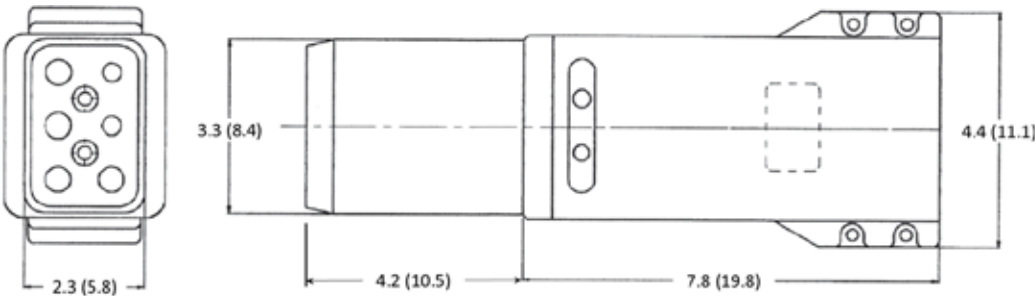
The Attachable® Power Nose is designed to be the quickest assembly and lowest overall service ground power connector. The modular construction allows easy replacement of worn components (contacts,

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.

® Attachable is a registered Trademark of Anderson Airmotive



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 Lug Contact Kit
R90G5E	R90KIT 1	4-1/0 (50mm) AS5756C Single Conductors; #12/2 (2x3mm) Aux.	R90 Kit 2-1 1/0 Power
R90G36E	R90KIT 1	4-2/0 (70mm) AS5756C 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 Lug Contact Kit
R93G3E	R93KIT 1	2-4/0 (120mm) AS5756C Single Conductors	R93 Kit 5-1 1/0 Power
	R93KIT1SW	Replacement Nose with Microswitch	R93 Kit 5-2 2/0 Power
	R93KIT2	Replacement Power Contact	R93 Kit 5-3 4/0 Power

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

R90Gxx(E)(F)(EN)(W)(T) xx=model number (E)=Standard Contact (F)=Euro Contact
(EN)=EcoNose (T)=Thermal Switch
(W)=Sensing Options 1S=one wire split control 2S=two wire split control SWC=Microswitch

R93 Kit 2A-2 2/0 Power
R93 Kit 3A -Sensing
Auxiliary



R91 APN Super Tough Ionomer Plastic Clam Shell



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



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
- 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
R91G5E	R91KIT 1	4-1/0 (50mm) AS5756C Single Conductors; #12/2 (2x3mm) Aux.
R91G36E	R91KIT 1	4-2/0 (70mm) AS5756C Single conductors; #12/2 (2x3mm) Aux.
R91G103E	R91KIT 1	6 #4 (20mm), 1-1/0 (50mm) Multiconductor; 6X1 Single Jacket
R91G118E	R91KIT 1	4-70mm Single Conductors; #12/2 (2x3mm) Aux
R91G146E	R91KIT 1	3-70mm Cables W Neutral
R91G127E	R91KIT 1	3-50mm Cables W Neutral

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

R92G3E	R92KIT 1	2-4/0 (120mm) Single Conductors
R92G65EY1	R92KIT 1	2-(120mm) Single Conductors with switches
R92G174EY2ARG	R92KIT 1	4-(70mm) Single Conductors with switches, LED's

Other models available for different cable sizes, configurations and options
R91Gxx(E)(F)(EN)(Y)(Z)(W)(T) xx=model number (E)=Standard Contact (F)=Euro Contact (EN)=EcoNose (Y)=Switch Config (Y1)=On/Off (Y2)=On/Off, Up/Down (T)=Thermal Switch (Z)=LED Config (X)=3 LEDs G=Green R=Red A=Amber GR=Green, Red LEDs (W)=Sensing Options 1S=one wire split control 2S=two wire split control V=Microswitch

Replacement Contact Kits
R91 Kit 2A Power
R91 Kit 3A Auxiliary
Crimp Lug Kits
R91 Kit 5A-1 50mm ² (1/0)
R91 Kit 5A-2 70mm ² (2/0)
R91 Kit 5A-3 20mm ² (#4)
Replacement Contact Kits
R92 Kit 2A Power
R92 Kit 3A Auxiliary
Crimp Lug Kits
R92 Kit 5A-1 50mm ² (1/0)
R92 Kit 5A-2 70mm ² (2/0)
R92 Kit 5A-3 120mm ² (4/0)



Attachable® and Over Molded Cable Assemblies

Cable assemblies are fabricated to the exacting requirements of AS7974. Anderson Airmotive Products Co. is a qualified source of supply for AS25019 (previously MS25019), AS90328 (previously MS90328), AS21378 (previously MS21378), and AS90347 (previously 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 aerospace specification AS5756; single jacket composite cables are UL listed. Plugs are molded in 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.

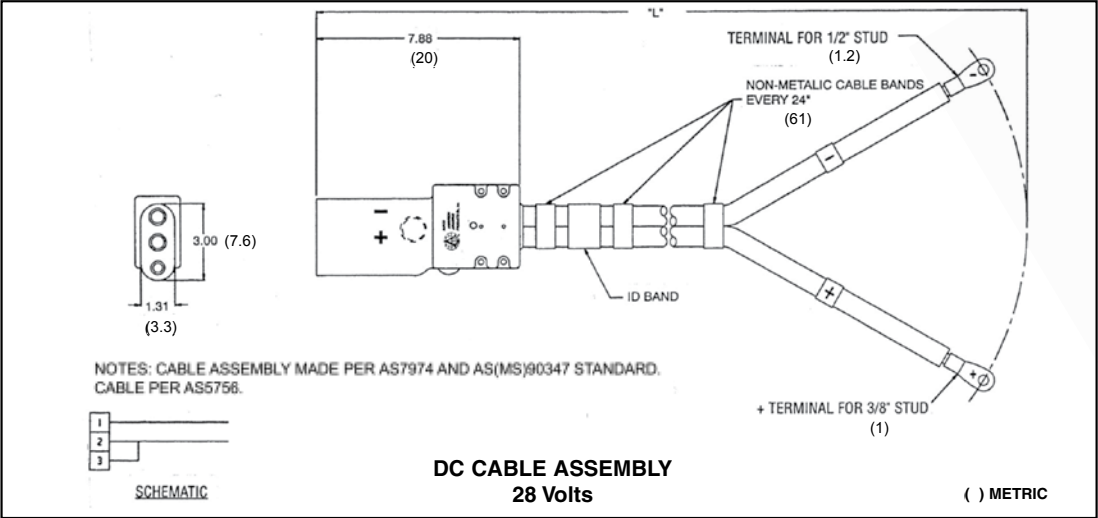
Our family of power cables is unequalled in the industry. Anderson Airmotive Products Co is the only company to offer you a choice of:
(1) making/repairing your own ground power cables with our family of high quality and durable Attachable® Plugs, or
(2) purchasing a wide variety of new cable assemblies with either Attachable® or Overmolded plugs
(3) life extending replaceable WearNoses or EcoNose caps



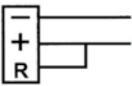
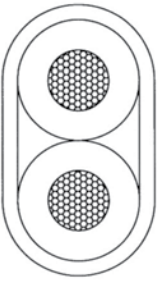
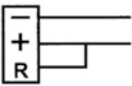
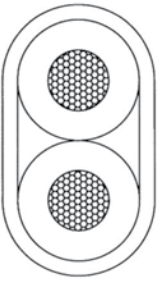
AC output and DC cable assemblies from 110/200 VAC and 230/400 VAC to 600V input assemblies and from 28VDC, 80VDC, and 270VDC with quick change WearNoses, EcoNose, Temperature sensing, and switch plugs with modular components and many cable options.



2 Wire R65 28V DC Per AS90347



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)	MS 90347-7AorM	2-1/0 (50mm) AWG SINGLE	26 (12)	 
R65G1E-30AorM	30 (9)	MS 90347-8AorM	CONDUCTORS,	36 (16)	
R65G1E-40AorM	40 (12)	MS 90347-9AorM	NO CONTROL LEAD,	46 (21)	
R65G1E-60AorM	60 (18)	MS 90347-10AorM	SILVERPLATED	67 (30)	
R65G1E-80AorM	80 (24)	MS 90347-11AorM	CONTACTS, AND	87 (40)	
R65G1E-100AorM	100 (30)	MS 90347-12AorM	NON-METALLIC BANDS	107 (49)	
R65G1E-2AorM	2 (0.7)	MS 90347-25AorM	SPLICE KIT	7 (3)	
R65G2E-20AorM	20 (6)	MS 90347-13AorM	2-2/0 (70mm) AWG SINGLE	32 (15)	
R65G2E-30AorM	30 (9)	MS 90347-14AorM	CONDUCTORS,	45 (21)	
R65G2E-40AorM	40 (12)	MS 90347-15AorM	NO CONTROL LEAD,	58 (26)	
R65G2E-60AorM	60 (18)	MS 90347-16AorM	SILVERPLATED	84 (38)	
R65G2E-80AorM	80 (24)	MS 90347-17AorM	CONTACTS, AND	110 (50)	
R65G2E-100AorM	100 (30)	MS 90347-18AorM	NON-METALLIC BANDS	136 (67)	
R65G2E-2AorM	2 (0.7)	MS 90347-26AorM	SPLICE KIT	8 (4)	
R65G3E-20AorM	20 (6)	MS 90347-19AorM	2-4/0 (120mm) AWG SINGLE	45 (20)	 
R65G3E-30AorM	30 (9)	MS 90347-20AorM	CONDUCTORS,	65 (29)	
R65G3E-40AorM	40 (12)	MS 90347-21AorM	NO CONTROL LEAD,	84 (38)	
R65G3E-60AorM	60 (18)	MS 90347-22AorM	SILVERPLATED	123 (56)	
R65G3E-80AorM	80 (24)	MS 90347-23AorM	CONTACTS, AND	162 (74)	
R65G3E-100AorM	100 (30)	MS 90347-24AorM	NON-METALLIC BANDS	201 (91)	
R65G3E-2AorM	2 (0.7)	MS 90347-27AorM	SPLICE KIT	9 (4)	

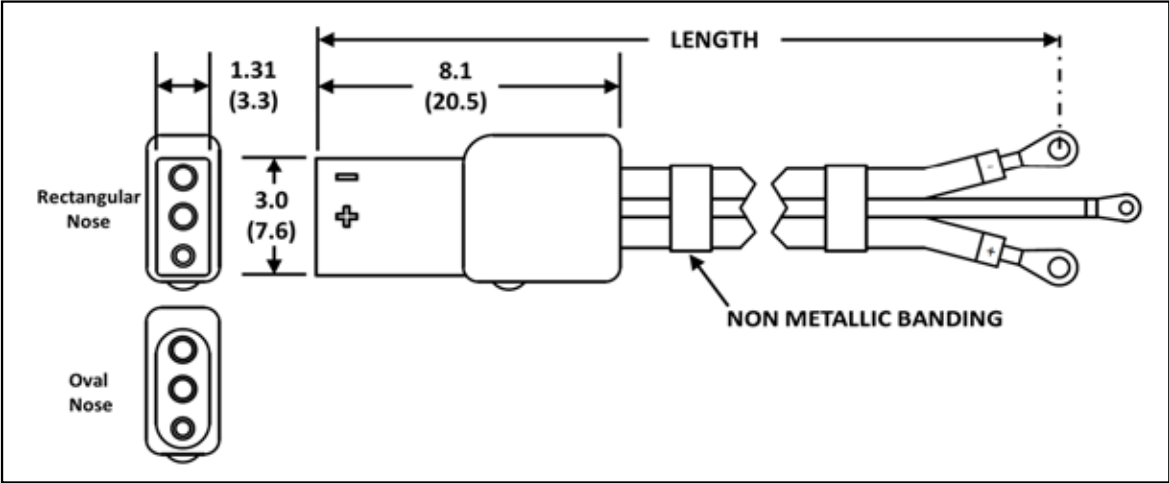
Cable assemblies are available with Attachable® plug types as well as integrally Over Molded connectors.

Other assemblies available for different cable sizes and configurations

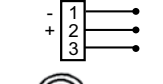
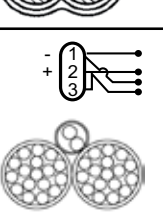
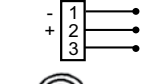
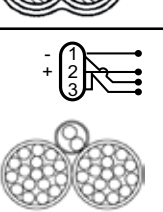
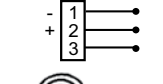
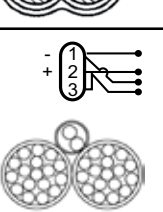
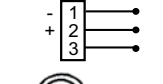
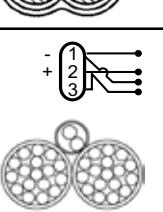
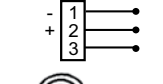
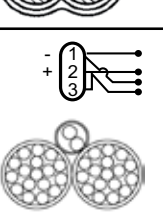
R65GxxE(EN)-**(A)(M) xx=model number (EN)=EcoNose **=Length (Ft) A=Attachable M=Over Molded



3 Wire R71, R72 28VDC Per AS25019



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

PART NUMBER	LENGTH FT/METERS	MILITARY/OTHER PART NO.	CABLE DESCRIPTION	WEIGHT LBS (KG)	ASSEMBLY CONFIGURATION
R71G6E-20AorM	20 (6)	MS 25019-20AorM	2-4/0 (120mm) AWG SINGLE	46 (21)	 
R71G6E-30AorM	30 (9)	MS 25019-30AorM	CONDUCTORS, #8	66 (30)	
R71G6E-40AorM	40 (12)	MS 25019-40AorM	CONTROL LEAD,	85 (39)	
R71G6E-60AorM	60 (18)	MS 25019-60AorM	SILVERPLATED	124 (57)	
R71G6E-80AorM	80 (24)	MS 25019-80AorM	CONTACTS, AND	162 (74)	
R71G6E-100AorM	100 (30)	MS 25019-100AorM	NON-METALLIC BANDS	202 (92)	
R71G6E-2AorM	2 (0.7)	MS 25019-2AorM	SPLICE KIT	10 (4)	
R71G5E-20AorM	20 (6)		2-4/0 (120mm) AWG SINGLE	46 (21)	 
R71G5E-30AorM	30 (9)		CONDUCTORS, #12/2 AWG	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)	R71G5E1S-20AorM	2-4/0 (120mm) AWG SINGLE	46 (21)	 
R72G5E-30AorM	30 (9)	R71G5E1S-30AorM	CONDUCTORS, #12/2 AWG	66 (30)	
R72G5E-40AorM	40 (12)	R71G5E1S-40AorM	CONTROL, SENSING (1-	85 (39)	
R72G5E-60AorM	60 (18)	R71G5E1S-60AorM	WIRE) SILVERPLATED	124 (57)	
R72G5E-80AorM	80 (24)	R71G5E1S-80AorM	CONTACTS, AND	162 (74)	
R72G5E-100AorM	100 (30)	R71G5E1S-100AorM	NON-METALLIC BANDS	202 (92)	
R71G5E2S-20AorM	20 (6)		2-4/0 (120mm) AWG SINGLE	46 (21)	
R71G5E2S-30AorM	30 (9)		CONDUCTORS, #12/2 AWG	66 (30)	 
R71G5E2S-40AorM	40 (12)		CONTROL, SENSING (2-	85 (39)	
R71G5E2S-60AorM	60 (18)		WIRE) SILVERPLATED	124 (57)	
R71G5E2S-80AorM	80 (24)		CONTACTS, AND	162 (74)	
R71G5E2S-100AorM	100 (30)		NON-METALLIC BANDS	202 (92)	
R71G5ESWC-20AorM	20 (6)		2-4/0 (120mm) AWG SINGLE	46 (21)	
R71G5ESWC-30AorM	30 (9)		CONDUCTORS, #12/3 AWG	66 (30)	 
R71G5ESWC-40AorM	40 (12)		MICRO-SWITCH AUXILIARY	85 (39)	
R71G5ESWC-60AorM	60 (18)			124 (57)	

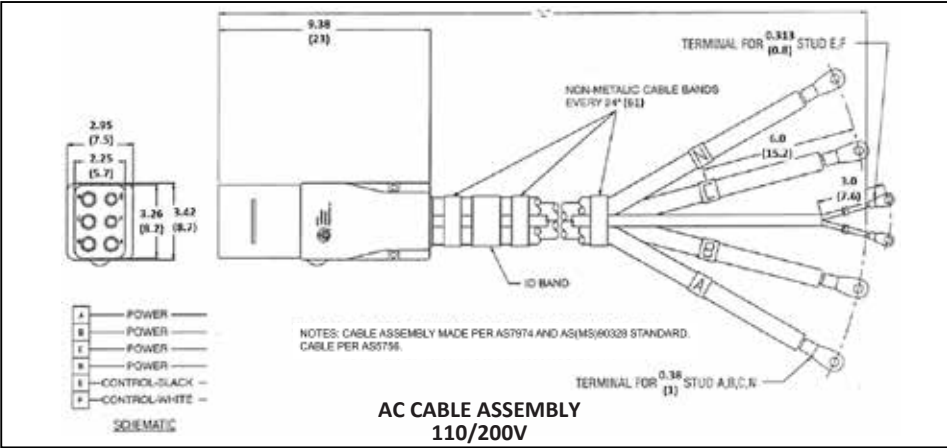
Cable assemblies are available with Attachable® plug types as well as integrally Over Molded connectors.

Other assemblies available for different cable sizes and configurations

R71GxxE(EN)(W)-**(A)(M) xx=model number (EN)=EcoNose **=Length (Ft) A=Attachable M=Over Molded (W)=Sensing Options 1S=one wire split control 2S=two wire split control



R67 110/200V AC 400 Hz Per AS90328



A= Attachable 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 R67G4E-30AorM R67G4E-40AorM R67G4E-60AorM R67G4E-80AorM R67G4E-100AorM R67G4E-2AorMSK	20 (6) 30 (9) 40 (12) 60 (18) 80 (24) 100 (30) 2 (.7)	MS 90328-13AorM MS 90328-14AorM MS 90328-15AorM MS 90328-16AorM MS 90328-17AorM MS 90328-18AorM MS 90328-39AorM	4-1/0 (50mm) AWG SINGLE CONDUCTORS, NO CONTROL LEADS, E AND F SHUNTED IN PLUG, SILVER PLATED CONTACTS, AND NON-METALLIC BANDS SPLICE KITS	46 (21) 67 (30) 87 (39) 127 (58) 168 (76) 208 (94) 10 (5)	
R67G21E-20AorM R67G21E-30AorM R67G21E-40AorM R67G21E-60AorM R67G21E-80AorM R67G21E-100AorM R67G21E-2AorMSK	20 (6) 30 (9) 40 (12) 60 (18) 80 (24) 100 (30) 2 (.7)	MS 90328-19AorM MS 90328-20AorM MS 90328-21AorM MS 90328-22AorM MS 90328-23AorM MS 90328-24AorM MS 90328-40AorM	4-2/0 (70mm) AWG SINGLE CONDUCTORS, NO CONTROL LEADS, E AND F SHUNTED IN PLUG, SILVER PLATED CONTACTS, AND NON-METALLIC BANDS SPLICE KITS	60 (27) 88 (40) 116 (53) 172 (78) 226 (103) 281 (127) 12 (5)	
R67G5E-20AorM R67G5E-30AorM R67G5E-40AorM R67G5E-60AorM R67G5E-80AorM R67G5E-100AorM R67G5E-2AorMSK	20 (6) 30 (9) 40 (12) 60 (18) 80 (24) 100 (30) 2 (.7)	MS 90328-25AorM MS 90328-26AorM MS 90328-27AorM MS 90328-28AorM MS 90328-29AorM MS 90328-30AorM MS 90328-37AorM	4-1/0(50mm) AWG SINGLE CONDUCTORS, 1-12/2 (2X3mm) CONTROL LEAD, SILVER PLATED CONTACTS, AND NON-METALLIC BANDS SPLICE KITS	50 (23) 71 (32) 93 (42) 137 (62) 180 (22) 224 (102) 9 (4)	
R67G36E-20AorM R67G36E-30AorM R67G36E-40AorM R67G36E-60AorM R67G36E-80AorM R67G36E-100AorM R67G36E-2AorMSK	20 (6) 30 (9) 40 (12) 60 (18) 80 (24) 100 (30) 2 (.7)	MS 90328-31AorM MS 90328-32AorM MS 90328-33AorM MS 90328-34AorM MS 90328-35AorM MS 90328-36AorM MS 90328-38AorM	4-2/0 (70mm) AWG SINGLE CONDUCTORS, 1-12/2 (2X3mm) CONTROL LEADS, SILVER PLATED CONTACTS, AND NON-METALLIC BANDS SPLICE KITS	58 (26) 84 (38) 110 (50) 162 (78) 213 (97) 297 (135) 9(4)	
R67G103E-20AorM R67G103E-30AorM R67G103E-40AorM R67G103E-60AorM R67G103E-80AorM R67G103E-100AorM R67G103E-2AorMSK	20 (6) 30 (9) 40 (12) 60 (18) 80 (24) 100 (30) 3 (1)	6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE 6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE 6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE 6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE 6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE 6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE 6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE		50 (23) 70 (32) 90 (41) 130 (59) 170 (77) 210 (95) 16(7)	

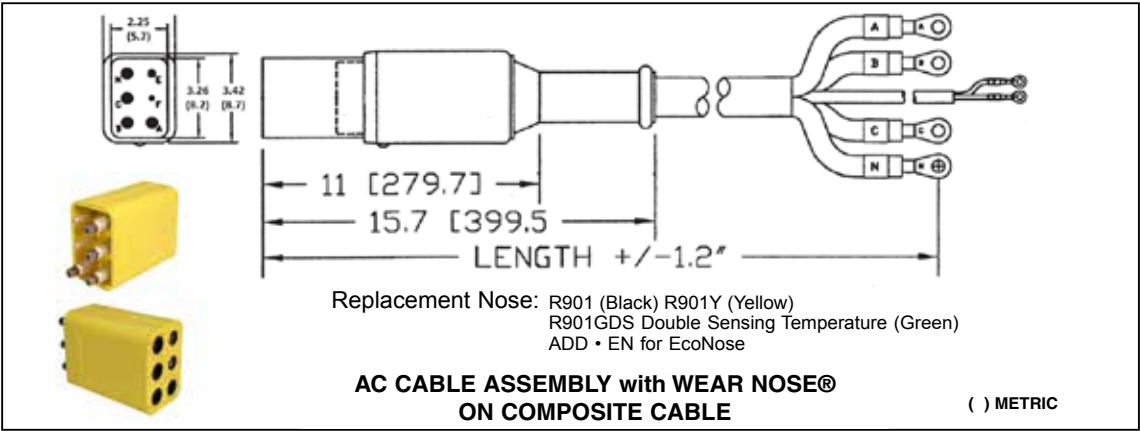
Cable assemblies are available with Attachable® plug types as well as Over Molded connectors for any type of cable including single jacket composite cables. Other assemblies available for different cable sizes and configurations.

R67GxxE(EN)(W)(T)-*(A)(M) xx=model number (EN)=EcoNose (T)=Thermal Switch **=Length (Ft)
A=Attachable M=Over Molded (W)=Sensing Options 2S=two wire split control



R900 110/200V AC with Wear Nose®

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



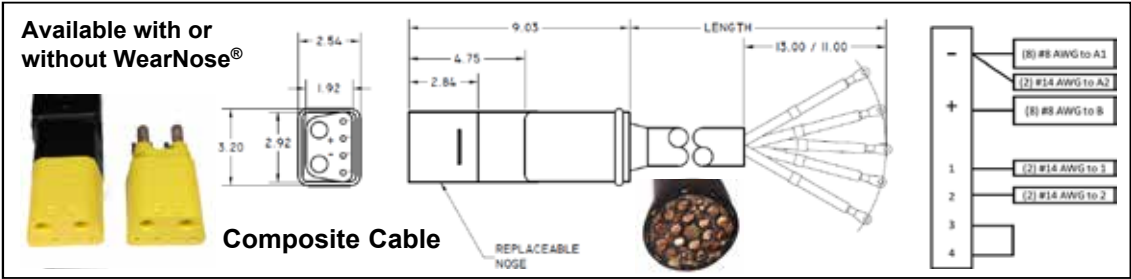
Electrical Ratings:30°C rise Power Components, 450A Continuous 1500A for 1 minute, Control Components, 35A continuous

PART NUMBER	LENGTH FEET/ METERS	CABLE DESCRIPTION	WEIGHT LBS (KG)	ASSEMBLY CONFIGURATION
R900G4E-20M R900G4E-30M R900G4E-40M R900G4E-60M R900G4E-80M R900G4E-100M R900G4E-2M SK	20 (6) 30 (9) 40 (12) 60 (18) 80 (24) 100 (30) 2 (.7)	4-1/0 (50mm) AWG SINGLE CONDUCTORS, NO CONTROL LEADS, E AND F SHUNTED IN PLUG, SILVER PLATED CONTACTS, AND NON-METALLIC BANDS SPLICE KITS	46 (21) 67 (30) 87 (39) 127 (58) 168 (76) 208 (94) 10 (5)	
R900G21E-20M R900G21E-30M R900G21E-40M R900G21E-60M R900G21E-80M R900G21E-100M R900G21E-2M SK	20 (6) 30 (9) 40 (12) 60 (18) 80 (24) 100 (30) 2 (.7)	4-2/0 (70mm) AWG SINGLE CONDUCTORS, NO CONTROL LEADS, E AND F SHUNTED IN PLUG, SILVER PLATED CONTACTS, AND NON-METALLIC BANDS SPLICE KITS	60 (27) 88 (40) 116 (53) 172 (78) 226 (103) 281 (127) 12 (5)	
R900G5E-20M R900G5E-30M R900G5E-40M R900G5E-60M R900G5E-80M R900G5E-100M R900G5E-2M SK	20 (6) 30 (9) 40 (12) 60 (18) 80 (24) 100 (30) 2 (.7)	4-1/0(50mm) AWG SINGLE CONDUCTORS, 1-12/2 (2X3mm) CONTROL LEAD, SILVER PLATED CONTACTS, AND NON-METALLIC BANDS SPLICE KITS	50 (23) 71 (32) 93 (42) 137 (62) 180 (22) 224 (102) 9 (4)	
R900G36E-20M R900G36E-30M R900G36E-40M R900G36E-60M R900G36E-80M R900G36E-100M R900G36E-2M SK	20 (6) 30 (9) 40 (12) 60 (18) 80 (24) 100 (30) 2 (.7)	4-2/0 (70mm) AWG SINGLE CONDUCTORS, 1-12/2 (2X3mm) CONTROL LEADS, SILVER PLATED CONTACTS, AND NON-METALLIC BANDS SPLICE KITS	58 (26) 84 (38) 110 (50) 162 (78) 213 (97) 297 (135) 9(4)	
R900G103E-20M R900G103E-30M R900G103E-40M R900G103E-60M R900G103E-80M R900G103E-100M R900G103E-3M SK	20 (6) 30 (9) 40 (12) 60 (18) 80 (24) 100 (30) 3 (1)	6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE 6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE 6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE 6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE 6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE 6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE 6 #4 AWG (20mm); 1 #1 (42 mm) COMPOSITE CABLE	50 (23) 70 (32) 90 (41) 130 (59) 170 (77) 210 (95) 16(7)	

R900GxxE(EN)(T)-*(A)(M) xx=model number (EN)=EcoNose **=Length (Ft)
(Y)=Wear Nose Config Blank=Black Nose Y=Yellow Nose T=Green Nose with Thermal Switch



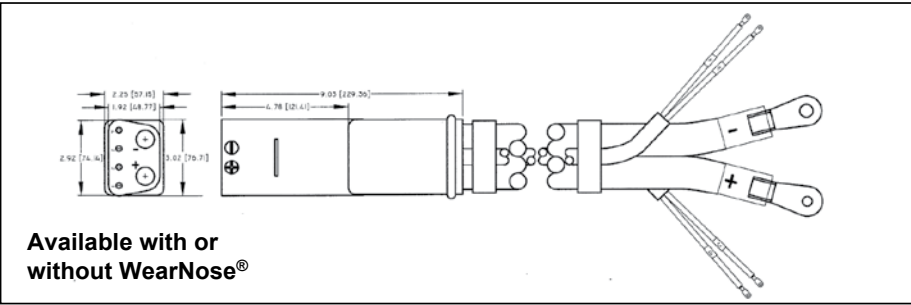
R270 270VDC F-35 & F-22 POWER CABLE



PART NUMBER	LENGTH FEET/ METERS	CABLE DESCRIPTION	WEIGHT LBS (KG)
R270G108E-XXM	AS REQUIRED	16/#8 Power Conductors and 6/#14 Control Conductors Composite Cable. Cable meets or exceeds the requirements of AS5756. Plug meets Lockheed Martin Spec 5PTV6002	Varies

FAST CHARGE 80V/150A

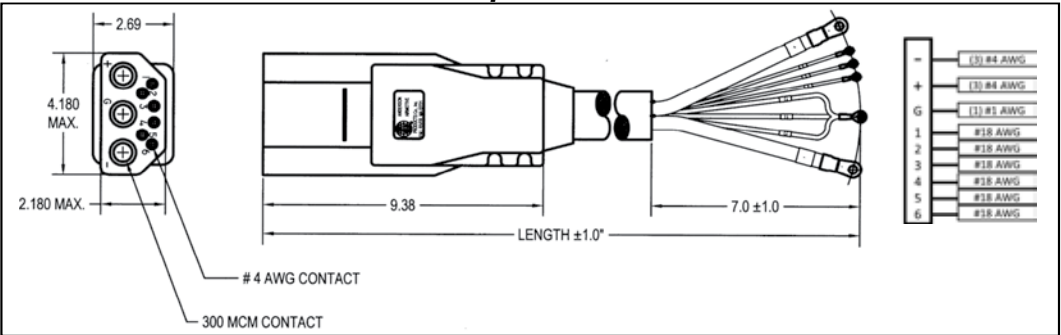
Type A: 2 Power Leads and 4 Auxiliaries



PART NUMBER	LENGTH FEET/ METERS	CABLE DESCRIPTION	WEIGHT LBS (KG)	ASSEMBLY CONFIGURATION
R270G5E-XXM	AS REQUIRED	2 1/0 (50mm) and 2 #12/2 (3mm) AWG AS5756	Varies	
R270G36E-XXM		2 2/0 (70mm) and 2 #12/2 (3mm) AWG AS5756		
R270G85E-XXM		2 2/0 (70mm) Welding Cable; #16/4		

FAST CHARGE 400V/400A

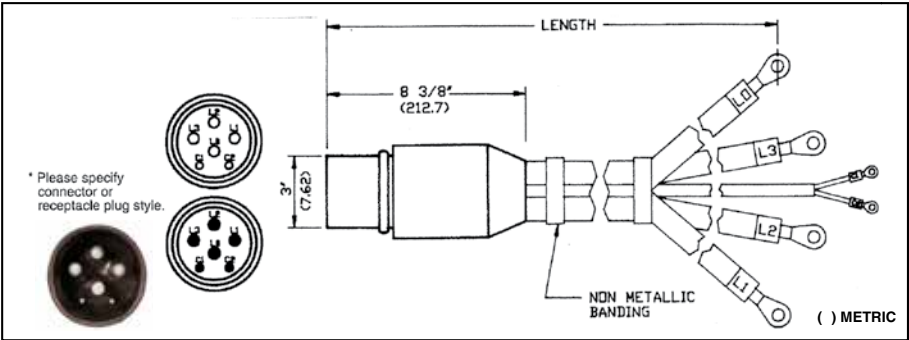
Type B: 2 Power Leads , 1 Ground and 6 Auxiliaries - 9 pin



PART NUMBER	LENGTH FEET/ METERS	CABLE DESCRIPTION	WEIGHT LBS (KG)	ASSEMBLY CONFIGURATION
R80G103E-XXM	AS REQUIRED	COMPOSITE CABLE WITH 6 #4; 1 #1; 16 #18	2.3lbs/ft	
R80G86E-XXM		9 Pin Connector; (2) 2/0 Type SC, 12/4 SOOW, 12/2 M5756 Cables		
E80G86E-XXA		Stacked 320A DIN Connectors; (2) 2/0 Type SC, 12/4 SOOW, 12/2 M5756 Cables		



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. Accomodates wire sizes from #4 AWG to 4/0 AWG.

Applications include: Hydraulic test stands, motor generators, air conditioning units, 400Hz Frequency Converters

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
MALE					Optional Aux.
833N005020	20	6.10	(4) 1/0, (50mm) (2x3mm)	46	
833N005030	30	9.14	(4) 1/0, (50mm) (2x3mm)	67	
833N005040	40	12.19	(4) 1/0, (50mm) (2x3mm)	87	
833N005060	60	18.29	(4) 1/0, (50mm) (2x3mm)	127	
833N005080	80	24.38	(4) 1/0, (50mm) (2x3mm)	168	
833N005100	100	30.48	(4) 1/0, (50mm) (2x3mm)	208	
833N036020	20	6.10	(4) 2/0, (70mm) (2x3mm)	56	
833N036030	30	9.14	(4) 2/0, (70mm) (2x3mm)	84	
833N036040	40	12.19	(4) 2/0, (70mm) (2x3mm)	110	
833N036060	60	18.29	(4) 2/0, (70mm) (2x3mm)	162	
833N036080	80	24.38	(4) 2/0, (70mm) (2x3mm)	213	
833N036100	100	30.48	(4) 2/0, (70mm) (2x3mm)	265	
FEMALE					
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	

Per AF 55C 6182 and AS38159
Available in both male and female versions

Other lengths available upon request

The Anderson Family Receptacles



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 AS81790. 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 AS 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 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)

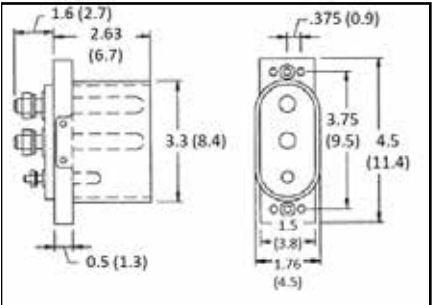
Ground Power Receptacles (3-Pole) 28V DC



DC Receptacle Oval



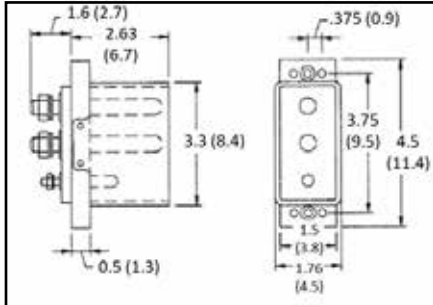
Receptacle with Oval Shield
MS 3506-1
4621B



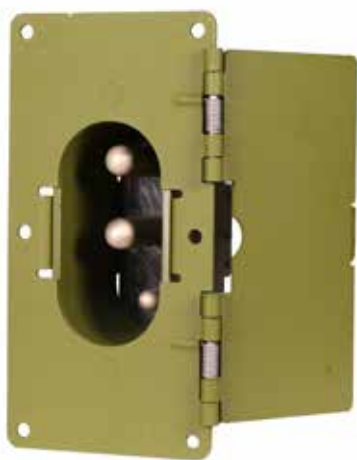
DC Receptacle Rectangular



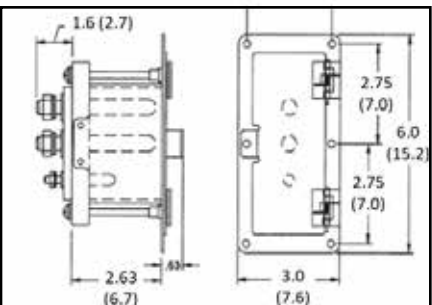
Receptacle w/ Rectangular Shield
MS 25018-2
4632B



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 only	4622B		
Receptacle w/Oval Shield	4621B	MS 3506-1	Series R64 Plug
Receptacle w/Oval Shield and Snap Cover	4621BSC		Series R65 (AS25488)
Receptacle w/Oval Shield and Flanged Cover	4650B		Series R71, R92
Receptacle with Rectangular Shield	4632B	MS 25018-2	(AS93047) Cable Assembly
Receptacle w/Rectangular Shield & Flanged Cover	4651B		Series R71 Plug (AS25487)
Oval Flange Cover DC	B00773G1		(AS25019) Cable Assembly
Rectangular Flange Cover DC	B00773G2		R765, R771, R93
Snap Cover for female receptacle	4652G5B		
Receptacle w/Rectangular Shield & Snap Cover	4632SC		
Receptacle w/Rectangular Shield & Split Aux Contact	4632BSC		
Female Receptacle	4665B		Series R68



4665B



4622B



4651B



4652G5B



4621BSC



Receptacle MS 90362-3
4627B



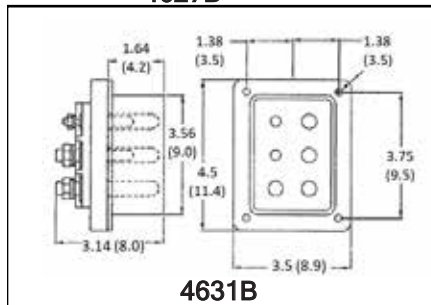
Shield MS 17845-1
4654B



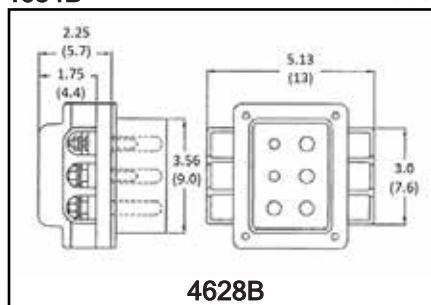
Rear Cover MS 3505-1
4633B



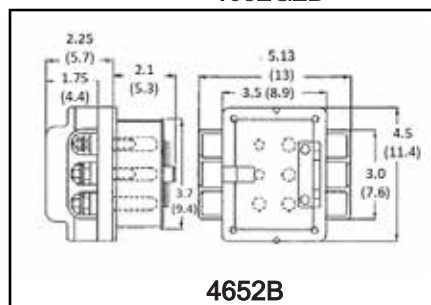
Snap Cover
4652G2B



4631B
Receptacle with Shield



4628B
Receptacle with Shield and
Rear Cover



4652B
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 SAE Specification AS81790.

Description	Anderson Catalog Number	Government Reference Number	Mating Plug & Cable Assemblies
Receptacle Only	4627B	MS 90362-3	Series R67 Plug (AS25486)
Receptacle w/Rear Cover and Shield	4628B	MS 90362-4	
Receptacle w/Shield	4631B	MS 90362-1	
Rear Cover Only	4633B	MS 3505-1	and Cable Assembly AS90328
Shield Only	4654B	MS 17845-1	
Receptacle Only w/ holes drilled for 4652G2	4627BA	_____	
Receptacle w/Rear Cover, Shield, and Snap Front Cover	4652B	_____	Series R90, R91 Series R112
Hinged Steel Snap Cover w/ Steel Shield (use w/ 4627BA)	4652G2	_____	
Hinged Steel Snap Cover w/ Aluminum Shield	4652G2B	_____	
Female Receptacle	4667B	_____	
Snap Cover and Shield (steel) Female Receptacle	4652G3B	_____	

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



4652G2



4652G3B



4667B



80 VDC Fast Charge; 270 VDC; 400 VDC

80V/270V



Receptacle*
270V 3-8358P1
80VFC 3-8358P2



Receptacle
with Shield
270V 4629B
80VFC-4630B



Shield
2-8356P1
2-8356P1SC
with Snap Cover



Female 80V
Receptacle
4670B

400V/400A DC 9 Pin Fast Charge



Receptacle
3-8400MD1



Shield
2-8356P2



Receptacle
with Shield
4635B

230/400V AC



Receptacle
3-4985G1



Receptacle
with Shield
MS 21379



Shield
2-6976P1



Snap Cover
2-6976P1SC

*270V 3-8358P1 (1 MJ8 and 1 MJ6)
*80VFC 3-8358P2 (2 MJ8)



ATTACHABLE® HANDLE

FOR 400 HZ. GROUND POWER CONNECTORS AND 28VDC

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

AC Plastic Handle



30G1

Fabricated from a unique lonomer 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.

AC Metal Handle



30G9

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. The metal handle with over molded grip is made for Attachable® as well as over molded sockets.

DC Handle and Strain Relief



120012 G1M

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. DC handle comes with plastic or metal handles.

ATTACHABLE® is a Registered Trademark of Anderson Airmotive Products



Battery Connectors - Plugs and Receptacles



R121 PLUG MS3349-1



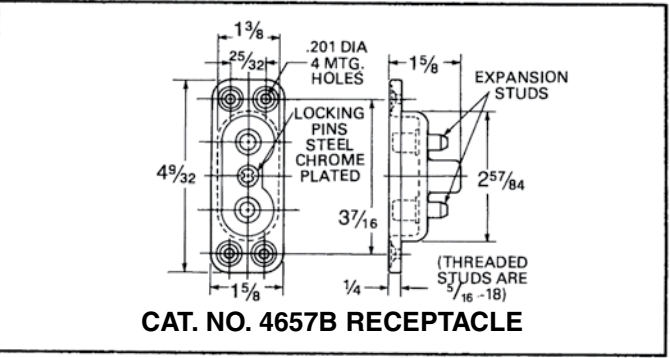
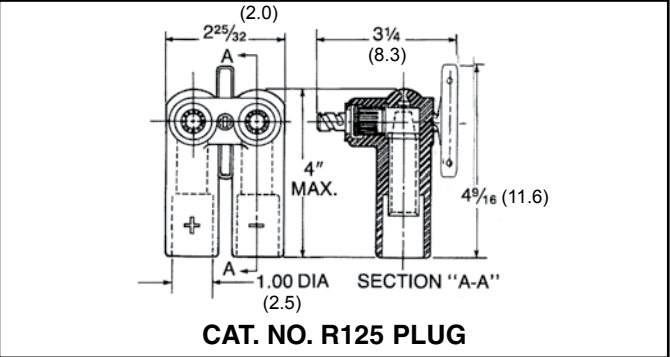
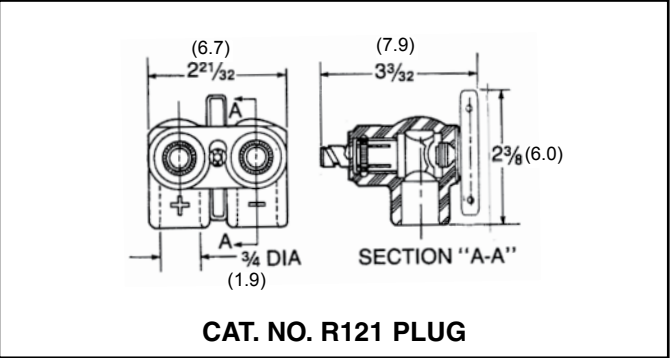
4657B RECEPTACLE MS3509-1



R125 PLUG MS14111

Corkscrew plugs and receptacles lock into compact, rugged connections for indoor and outdoor battery charging and numerous other electric vehicle, industrial and aircraft applications.

DIMENSIONS



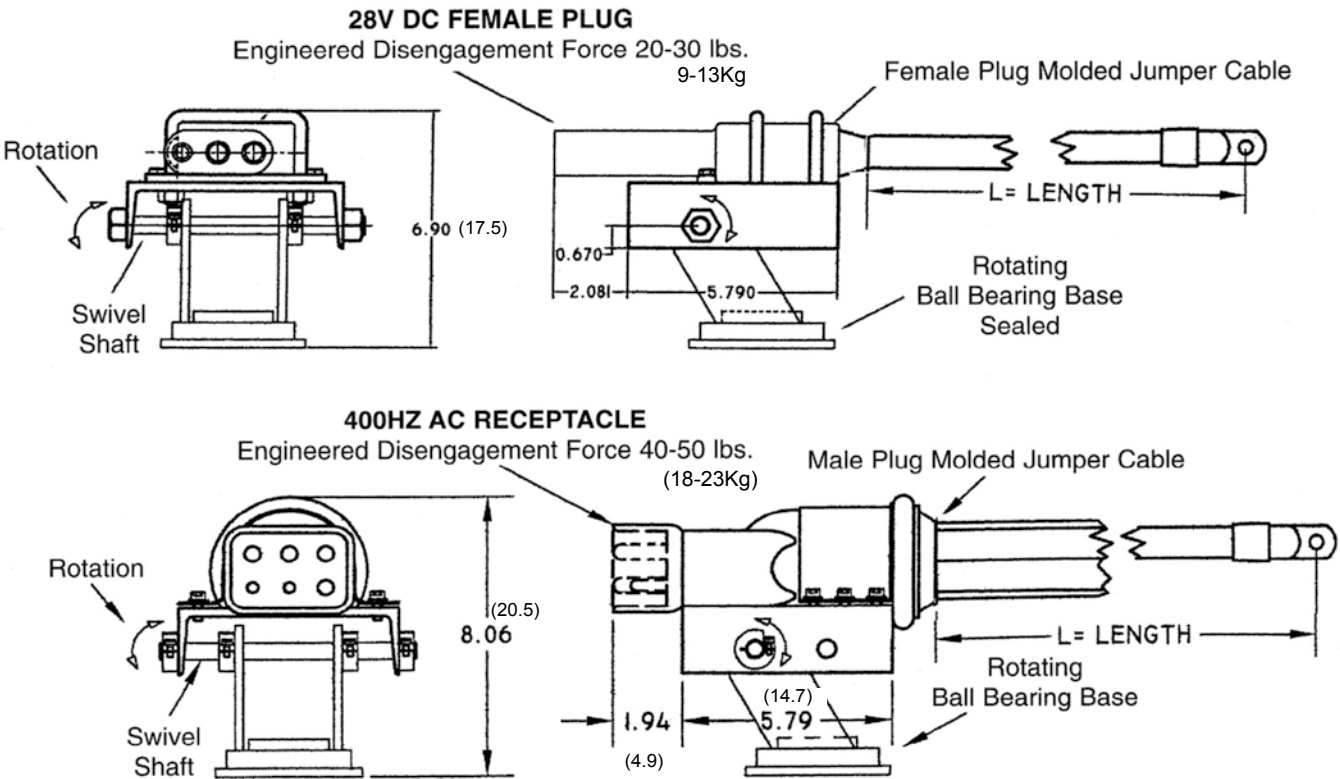
ORDERING INFORMATION

set screw termination				
	AWG Size **	Metric mm	Catalog Number	
	#6-3/0	(85)	R121	
lug termination (lugs included)				
	AWG Size **	MS 1411-	Metric mm	Catalog Number
	10	-2	(5)	R125G1
	8	-3	(8)	R125G2
	6	-4	(13)	R125G3
	5-4	-5	(17-21)	R125G4
	3-2	-6	(27-34)	R125G5
	1	-7	(42)	R125G6
	1/0	-8	(53)	R125G7
	2/0	-9	(67)	R125G8
	3/0	-10	(85)	R125G9
	4/0	-11	(107)	R125G10
ordering information Receptacle				
	Description***			Catalog Number
	Black with threaded studs _____			4657B
	Receptacle Cover, Blank R121			4657BX



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.

		DC	AC
Order Information:	A. 360° Swivel Base	QB-DC	(1) QB-AC (2) QD-AC
	360° Swivel Base w Spacer	QB-DCS	(1) QB-ACS (2) QD-ACS
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

(1) For overmolded plugs (2) For Attachable® plugs
© QuickBreakaway (QB) is a registered trademark of Anderson Airmotive Products Co., Inc.



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			
	AWG Size **	Metric	Catalog Number
	Aux 12-10	(3.3-5.3)	971
	Aux 8-10	(8.3-5.3)	970
	PWR 8	(8.3)	972
	PWR 6	(13.3)	973
	PWR 5-4	(17.2-21)	974
	PWR 3-2	(27.4-33.6)	975
	PWR 1	(42.4)	976
	PWR 1/0	(53.5)	977
	PWR 2/0	(67.4)	978
	PWR 3/0	(85)	979
	PWR 4/0	(107.2)	980
	PWR 12/10	(3-5.3)	981
	PWR 250mm	120	982

Terminal lugs for crimping or soldering on to cable.

Terminal lug sets				
	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)	T980	T980-1

Crimp Tool Recommendations

HYDRAULIC COMPRESSION TOOL
HAND OPERATED
TYPE VC7-SP

Die Less

- The original notched-top compression tool allows direct access of the tool to the connector for compressing multi-strand/rope lay copper cable in aircraft ground power 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.

TOOL
VC7-SP



TYPE VC7-SP Hand tool
Conductor Range — #6 Str. —500 MCMBare Cu
Approx. Wt. Each — 10.5 lbs. (4.7 kg.)

Rotating Hex Die Hand Crimper
CT-090

RANGE: #1 AWG TO 250 kcmil
LENGTH: 29.52 inches WEIGHT: 5.7 lbs.

CT-050

RANGE: #8 AWG TO 1/0
LENGTH: 16 inches WEIGHT: 2.6 lbs.



CT-090 & CT-050

Hex Die Crimper

AS(MS)25441 Crimper with 12 ton Hydraulic Head and appropriate AS(MS)90485 crimp dies. T&B or equivalent

Hand Crimper

RANGE: #22 TO #10
LENGTH: 9.5 inches WEIGHT: 7/8 lbs



H-2200P1



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

Test Pins



TPF - Female test pin for checking wear on male receptacle pins. T. PF is a no-go gauge: if gauge slides over receptacle pin, the pin is worn and should be replaced



TPM - Male test pin for checking wear on Power and Auxiliary female contacts. The pull force required to remove a fully engaged TPM is an approximation of the suitability of a socket for electrical service

Scuff Covers

Protects cables from direct contact with ground and eases sliding. Supplied in 3 feet max increments: Order SC xx (c) (id)



SC-xx(c) (id)
c = color
id = inside
diameter
xx = length

Splice Kits DC & AC



R65G3E-3SK



AC SPLICE KIT R67G36E-3SK



Replacement Noses

R270 WearNose®



R270KIT1Y (Yellow)
R270KIT1 (Black)

APN® w EcoNose®



R90 Kit 1
R91 Kit 1
R90 Kit 1EN
R91 Kit 1EN



1-8627G1SWA
R91 KIT
REPLACEMENT

WearNose®



R901 (Black)
R901Y (Yellow)
R901GDS (Green w/ Thermal)

WearNose®
with EcoNose®



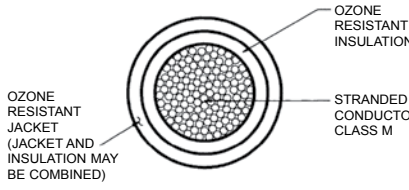
R901EN (Black EN)
R901YEN (Yellow EN)
R901GDSEN (Green EN w/ Thermal)

Cable Options

M5756

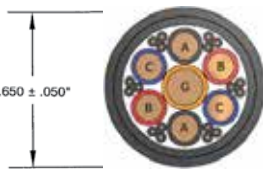
Super flexible ozone RESISTANT

- 1/0 H2041P2 M5756/2-011
- 2/0 H2042P2 M5756/2-012
- 4/0 H2044P1 M5756/2-014
- 12/2 H2029P13 M5756/4-004



Single Jacket Balanced Composite Cable

260A 400 Hz # 81501
UL Listed



Single Jacket 3 around 3 Composite Cable

3x70mm² + 3x12mm² +
6x4x1mm² #81505



Welding

- 1/0 H2041P4
- 2/0 H2042P2
- 4/0 H2044P3

Strap Hanger

Relieves stress on plugs for longer cable assembly life.

Order No: AAP00416





ANDERSON AIRMOTIVE CAN ENGINEER SOLUTIONS
TO YOUR SPECIAL POWER CONNECTION REQUIREMENTS



AS(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



AS(MS) 27285 Male with AS(MS) 25486 Plug



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

"Y" Cables



AC + DC "Y" cables are designed so that both output plugs have to be plugged in to power up.
AC Part No. R112GxxER67GS2-7A; DC Part No. R68GxxER65GS2-7A



CONVERSION OF AMERICAN WIRE GAUGE
TO METRIC SYSTEM

Size AWG or MCM	Amperes Single Cond 75° C Copper (NFPA)	Area			Aprox. Diameter	
		Circular Mils	Square Inches	Square mm	Inches Class M (NEMA)	mm
20	7	1020	0.0008	0.52	0.038	0.97
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	107.20	0.645	16.38
250	405	250000	0.1964	126.70	0.713	18.11
300	445	300000	0.2356	152.00	0.768	19.51
500	620	500000	0.3927	253.40	0.997	25.31
750	785	750000	0.5891	380.00	1.207	30.66
1000	935	1000000	0.7854	506.70	1.404	35.66

2025 EDITION



ANDERSON AIRMOTIVE
YOUR POWER CONNECTION

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