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1P Plugs and Receptacles

Industrial Heavy Duty Application and Selection

Application:

- Distribution of secondary electrical power
- Provide quick disconnect from power source

Considerations for Selection:

Electrical System:

- Amperage and voltage required for application

Wiring system and number of conductors required. See page 969 for contact sizes.

Compatibility with System:

- Need for interchangeability with plugs in existing system and within parts of new system. Grounding styles. Two styles utilized. See page 967 for complete description to determine which is suitable for needs.

Mounting Arrangement:

- Three types of mounting available – surface, flush and panel

Application:

- Fixed receptacle for power outlet; cable connectors for portable cable extensions

Other Considerations:

- Wire sizes and recess dimensions available. See page 969 for complete details. National Electrical Code, UL, NEMA, Canadian Electrical Code, CSA compliances
- Environment – need for operation in harsh, dirty or corrosive conditions.

Options:

- Special polarity arrangements available as well as special back boxes and hub arrangements. See listing pages for details.

Quick Selector Chart

Electrical Characteristics							
Receptacle Series	Receptacle Type	Amperage (Range)	Volts (Max.)	No. of Poles (Range)	Grounding Style†	Mounting	Mating Plug
APR	Portable cable	20, 30, 60, 100, 200, 400	600VAC 250VDC	2-5	1-2		APJ, NPJ, APQ, AP
APRC	Portable cable	30, 60, 100	600VAC 250VDC	3-5	2		APJC, APQC
AR	Fixed	20, 30, 60, 100, 200, 400	600VAC 250VDC	2-5	1-2	Back box (surface)	APJ, NPJ, AP
ARC	Fixed	30, 60, 100	600VAC 250VDC	3-5	2	Back box (surface)	APJC
AR	Fixed	30, 60, 100, 200	600VAC 250VDC	2-4	1-2	Panel mtg. (semi-flush)	APJ, NPJ, AP
NPR	Portable cable	30, 60, 100	600VAC 250VDC	3-4	2		NPQ, APJ, NPJ (fixed)
NR	Fixed	30, 60, 100	600VAC 250VDC	3-4	2	Back box (surface)	APJ, NPJ

† See page 967 for detailed explanation.

Plugs and Receptacles

1P

Industrial Heavy Duty Interchangeability Chart

Interchangeability Chart

Many of the plugs listed in this section can be used interchangeably with receptacles from other sections, both in hazardous and non-hazardous areas, **provided electrical rating and style of plug and receptacle are the same**. The following table is a summary of possible combinations.

Plugs Shown in Section 1P	Can be Used with These Receptacle Series	Listed in Section	Plugs & Receptacle Electrical Rating
APJ, NPJ*	DR	2P	30, 60 amp. 2-wire, 2-pole 3-wire, 3-pole 4-wire, 4-pole 2-wire, 3-pole 3-wire, 4-pole
	DBR	3P	30, 60, 100 amp. 3-wire, 3-pole 3-wire, 4-pole
	FSQ	4P	30 amp. 2-wire, 3-pole 3-wire, 4-pole
	EPC, EPCB, EBBR	4P	30, 60, 100 amp. 2-wire, 3-pole 3-wire, 4-pole
	NBR, NSR	3P	30, 60, 100 amp. 3-wire, 3-pole 3-wire, 4-pole
	WSR	3P	30, 60, 100 amp. 3-wire, 3-pole 3-wire, 4-pole
	WSRD	3P	60 amp. 3-wire, 3-pole 3-wire, 4-pole
CPH	AR, NR*, NPR*	1P	30 and 60 amp. 2-wire, 3-pole
	DR, CES, CESD	2P	
	FSQ, EPC, EPCB, DBR	4P	
	DBR, NBR, NSR, WSR, WSRD	3P	30 and 60 amp. 3-wire, 4-pole

* NPJ, NR and NPR available in 2-wire, 3-pole and 3-wire, 4-pole electrical ratings only.

Arktite® Heavy Duty Circuit Breaking Plugs and Receptacles

NEMA 4 Watertight

Industrial Heavy Duty
Non-Hazardous Areas

Application:

Arktite circuit breaking plugs and receptacles are used:

- to supply power to portable electrically operated devices such as motor-generator sets, compressors, heating and cooling units, welders, conveyors, lighting systems and similar equipment
- where temporary power is needed, such as at trailers, building units, heavy machinery and similar equipment
- wherever electrical loads must be quickly disconnected from power source
- in a typical installation, where a large machine utilizes a number of electrical motor drives and for ease of adjustment, removal, maintenance and replacement, each motor is connected by portable cord and Arktite receptacles rather than permanently wired
- in areas where dust, dirt, moisture and corrosion are a problem
- indoors and outdoors in non-hazardous areas of chemical plants, process industry facilities, meat packing plants, manufacturing plants and similar industrial locations

Features:

- Circuit breaking: Plugs through 200 ampere rating may be disconnected under load; 400 ampere units are for service disconnect use only.
- Receptacles accept only plugs of the same amperage rating, style and number of poles, making it impossible to mismatch, and provides for positive polarization.
- Extra wide electrical spacing allows for maximum safety.
- Insulator materials are the result of intensive testing. Selection has been made based on highest dielectric strength, maximum mechanical and impact resistance, lowest moisture absorption and highest arc tracking resistance.
- A variety of installations is possible due to the availability of several types of back boxes.
- Designed to withstand rough usage and the effects of adverse environments.
- Reversible interiors, 30, 60 and 100 ampere (except 30 and 60 ampere, 5-pole) Arktite plug and receptacle interiors are interchangeable using a screwdriver. This makes it possible to feed a normally deenergized receptacle from an energized plug with usual Arktite safety; no energized contacts are exposed.
- Additional features are indicated in the view at right:
 - 1 Grounding contact in Style 2 is bonded to the receptacle housing.
 - 2 Easily wired interior assemblies in receptacles and plugs. See table on page 938 for type of contacts in units.
 - 3 Arktite Style 2, illustrated here, has an extra grounding contact which forms a parallel circuit with the circuit formed by the plug sleeve and receptacle detent spring, and assures continuity of the grounding

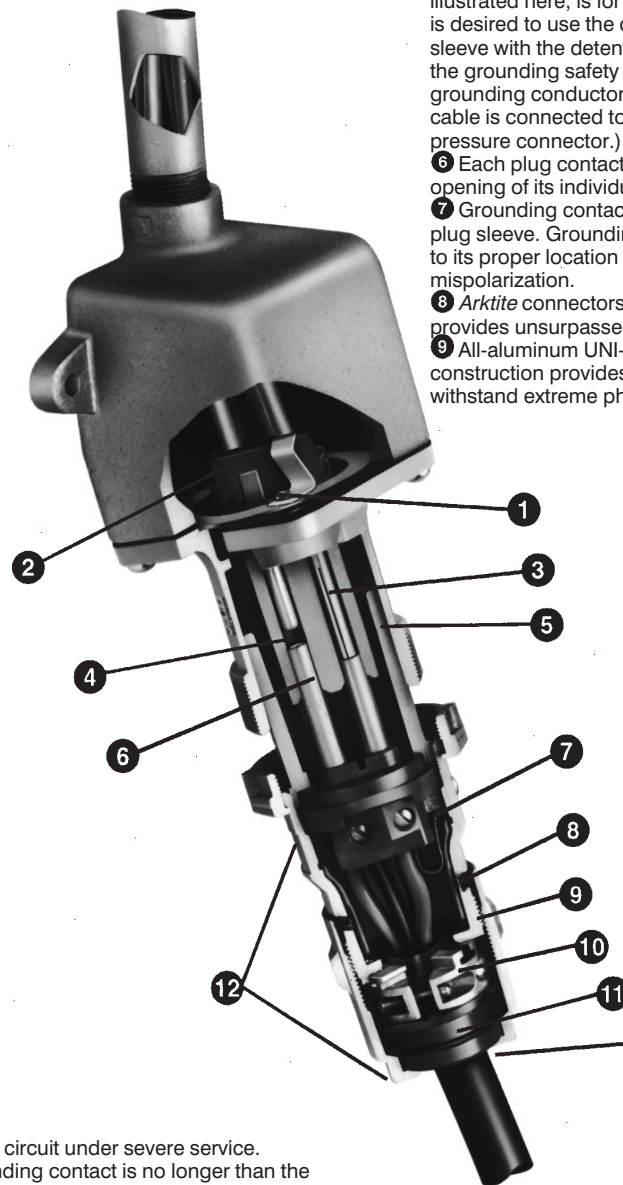
safety circuit under severe service. Grounding contact is no longer than the others, so grounding circuit is made first and broken last.

4 The arc formed by pulling the plug is instantly snuffed in the deep, confined insulated arcing chamber while the plug contact is still a considerable distance inside. The arc cannot travel over to the other side of the circuit or to the housing.

5 Detent spring forms a grounding path from plug sleeve to receptacle housing. Arktite plugs and receptacles are made in two styles. With either style, the portable appliance is grounded before it is energized and remains grounded until after it is deenergized. (Arktite Style 1, not

illustrated here, is for conditions where it is desired to use the contact of the plug sleeve with the detent spring to complete the grounding safety circuit. The extra grounding conductor in the portable cable is connected to the plug sleeve by a pressure connector.)

- 6 Each plug contact fits closely the opening of its individual arcing chamber.
- 7 Grounding contact is bonded to the plug sleeve. Grounding contact is keyed to its proper location to prevent mispolarization.
- 8 Arktite connectors' gasketing system provides unsurpassed watertight integrity.
- 9 All-aluminum UNI-SHELL™ threaded construction provides added strength to withstand extreme physical abuse.



NEW!
NEMA 4
Rating

Arktite Style 2
60 ampere

NEW!
Smaller
Cable
Range

10 Arktite's TRI-LOCK™ cable grip has three clamps that tighten around the cable to securely lock it in place, even when subjected to extreme flexing and jerking.

11 The unique SURE-SEAL™ cable gland provides a complete environmental seal by distributing pressure equally around the circumference of the cable.

12 Wrenching surfaces make Arktite connector quick and easy to assemble.

Arktite® Heavy Duty Circuit Breaking Plugs and Receptacles

Industrial Heavy Duty Non-Hazardous Areas

NEMA 4 Watertight

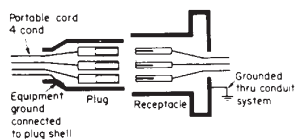
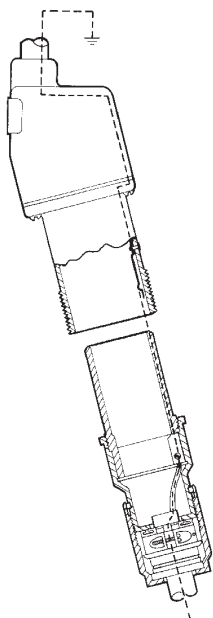
1P

Grounding: Style 1 vs. Style 2

Cooper Crouse-Hinds Arktite devices utilize two methods, or styles, for completing the grounding circuit in plugs and receptacles. NEC reference 250.138 (A) & (B).

Style 1 – Metallic

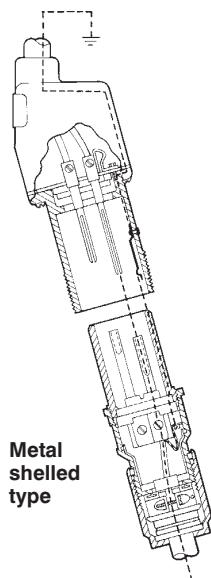
A Style 1 plug is one in which the grounding conductor in the flexible cable is bonded to the plug sleeve by a pressure connector. A Style 1 receptacle is one which is grounded by virtue of the fact that it is an integral part of a grounded conduit system. On insertion, the plug sleeve makes contact with detent springs of the grounded receptacle housing before line and load poles engage, and on withdrawal, remains in contact until after line and load poles disengage. Therefore, exposed metal parts of the portable equipment or plug are suitably grounded.



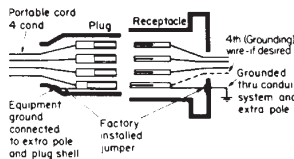
Style 1
Ground conductor attaches to shell.

STYLE 2 – Metallic

A Style 2 metallic housing plug is one in which the grounding conductor in the flexible cable is bonded to the extra (grounding) pole and metal plug sleeve by a pressure connector. A Style 2 metallic housing receptacle is one in which the extra (grounding) pole is electrically connected to the equipment grounding conductor and the metal receptacle housing which itself is grounded by virtue of the fact that it is an integral part of a grounded conduit system. In Style 2, non-metallic housing plugs and receptacles, the extra pole is used for grounding since the housings are non-conductive.



Metal shelled type

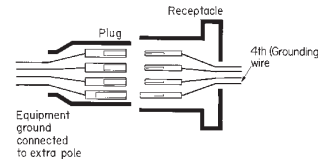
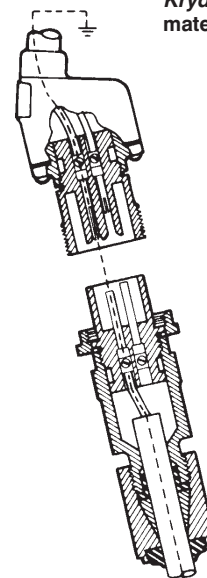


Style 2
Ground conductor attaches to contact, which is bonded to shell.

Style 2 – Non-Metallic

In a Style 2 receptacle, the grounding connection is made before line and load poles engage, and is broken after the line load poles disengage. Furthermore, upon insertion, the plug sleeve of metal shelled units, makes contact with detent springs of the grounded receptacle housing before line and load poles engage, and on withdrawal, remains in contact until after line and load poles disengage. Therefore, exposed metal parts of the portable equipment or plug are suitably grounded.

Made of non-metallic Krydon material



Arktite® Heavy Duty Circuit Breaking Plugs and Receptacles

Industrial Heavy Duty Non-Hazardous Areas

Options:

- The following special options are available from factory by adding suffix to Cat. No.:

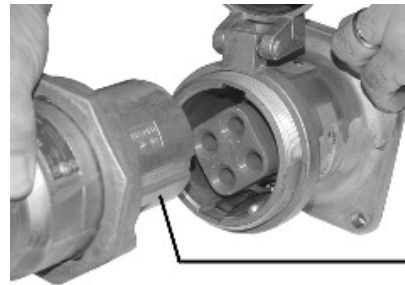
Suffix to be

Added to

- | Cat. # | Description |
|------------|---|
| S22. . . . | Reversed contacts. Receptacle assembled with plug interior (exposed contacts), plug assembled with receptacle interior (recessed contacts). For applications where plug is energized to feed normally de-energized receptacle. Available on 30 through 400 ampere units
NOTE: 30 (2, 3, 4-pole), 60 and 100 ampere interiors can be interchanged in the field using a screwdriver. Factory conversion is required for 200 and 400 ampere products. |
| S4. . . . | Special polarity. For use where two or more receptacles of the same ampere rating, style and number of poles are to be installed in the same area for use on different voltages and/or frequencies. Prevents insertion of a plug in a receptacle with different electrical rating. Available on 20 through 400 ampere units as follows:
Receptacle interior rotated 22½ degrees to right and plug changed to match (See photo to right) |



Arktite receptacles have a cast raised rib located inside the receptacle sleeve. The location of the rib is in a specific relationship to the receptacle insulator that houses the contacts.



The mating plug has a cast groove located on the outside of the plug sleeve. This groove lines up with the raised rib.

Standard Materials:

- Metallic receptacle housings, plug and cord connector bodies – high impact strength copper-free aluminum
- Nonmetallic receptacles, plugs and cord connectors – *Krydon*® fiberglass-reinforced polyester material
- Back boxes: 20, 30, 60, 100 and 200 ampere – cast aluminum; 400 ampere – *Feraloy*® iron alloy
- Insulation (metallic products): (2-, 3-, and 4-pole) 30, 60, 100, 200, 400 ampere – fiberglass-reinforced polyester; 20, 30 ampere (5-pole) – melamine
- Contacts: pressure, solder, binding screw – brass; crimp/solder – leaded red brass; 20, 30, 60, 100 ampere – tellurium copper; 200, 400 ampere

Standard Finishes:

- *Feraloy*—electrogalvanized and aluminum acrylic paint
- Aluminum – natural
- *Krydon* fiberglass-reinforced polyester material – grey
- Fiberglass-reinforced polyester insulation – (red)
- Melamine – natural (brown)
- Brass – natural
- Leaded red brass – electro-tin-plate

§ 400A rated units are for service disconnect use only.

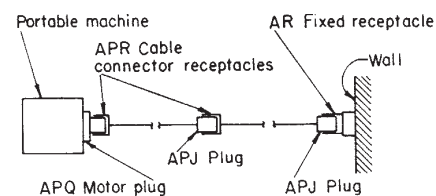
Accessories:

Accessories include a variety of angle adapters, panel adapters and back boxes for *Arktite* receptacles, listed on pages 990-993. Included throughout 1P are wire mesh cable grips and protective caps for *Arktite* plugs.

Certifications and Compliances:

- UL Standards: 1682, 514; 1010 (APJ and NPJ plugs only)
- CSA Standard: C22.2 No. 182.1

Typical installation



Arktite® Heavy Duty Circuit Breaking Plugs and Receptacles

Industrial Heavy Duty Non-Hazardous Areas

NEMA 4 Watertight

1P

Arktite Horsepower Ratings

• Locked-Rotor Interrupting

Electrical System	Ampere Rating Plug and Receptacle	Motor Horsepower†			
		120 Volts	240 Volts	480 Volts	600 Volts
Single-phase	30	2	3	7.5	10
	60	5	10	25	20
	100	10	20		
	200	15	40		
Three-phase	30	3	5	10	10
	60	10	20	40	50
	100	15	30	40	25
	200	30	60	25	15

• Emergency Interrupting

Electrical System	Ampere Rating Plug and Receptacle	H.P. Rating			
		120 Volts	240 Volts	480 Volts	600 Volts
Single-phase	30	2	3	10	10
	60	5	10	25	20
	100	7.5	20	30	30
	200	15	40	40	40
Three-phase	30	3	7.5	15	20
	60	10	20	40	50
	100	10	30	40	40
	200	20	60	50	50

Wire Sizes:

The table below lists the diameter of the wire recess in *Arktite* plug and receptacle contacts so that maximum size of bare conductor can be figured. Range of wire sizes shown in table is intended only as a guide. Depending on type of wire used (building wire, flexible or extra flexible cable) and its construction (number and size of strands), bare copper diameters vary widely.

Diameter of Wire Recess in Plug and Receptacle Contacts

Ampere Rating	Contact Type	Diameter of Recess	Wire Size‡	
			Building	Extra Flex
20	Binding Screw	N/A	#14-#12	#14-#12
30 (2, 3, & 4-pole)	Pressure	.281	#10-#6	#10-#8
30 (2, 3, & 4-pole)	Crimp/Solder	.180	#10-#8**	#10-#8
30 (5-pole)	Solder	.188	#12-#6	#12-#8
60 (2, 3, 4 & 5-pole)	Pressure	.312	#6-#4	#8-#4
60 (3 & 4-pole)	Crimp/Solder	.277	#6-#4**	#8-#4
100 (2, 3 & 4-pole)	Pressure	.390	#4-#1	#4-#2
100 (3 & 4-pole)	Crimp/Solder	.390	#2-#1**	#2-#2
200 (Std. 3 & 4-pole)	Crimp/Solder	.56	#1-4/0	#1-3/0
200 (Lg. 3 & 4-pole)	Crimp/Solder	.75	4/0-250MCM	3/0-250MCM
400 (Std. 3 & 4-pole)	Crimp/Solder	.84	250-500MCM	250-400MCM
400 (Lg. 3 & 4-pole)	Crimp/Solder	1.25	500-1000MCM	400-750MCM

** Smaller sizes may be used with well reducers – information on request.

† Horsepower ratings are based on Cooper Crouse-Hinds testing in which locked-rotor currents were interrupted by withdrawing the plug from the receptacle. It is highly recommended, however, that such use be limited to emergency conditions only; and that a horsepower rated switch be used for motor disconnect.

‡ Do not use wire size smaller than minimum size recommended.

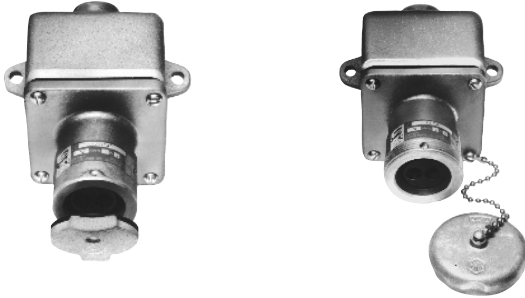
§ 400A rated units are for service disconnect use only.

Arktite® Heavy Duty Circuit Breaking Receptacles, Plugs and Connectors

20 A, 600 VAC/250 VDC, 50**-400 hertz

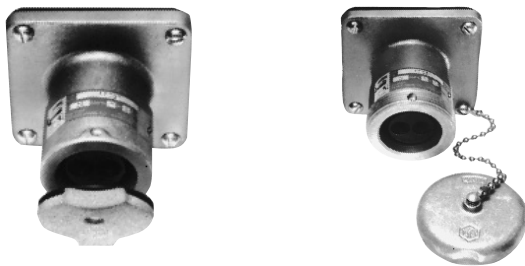
NEMA 4 Watertight

1P



Receptacle with Back Box

Config.	Hub Size	Descrip.	Cat No. #
2W 2P	1/2	Spring Door Threaded Cap	ARE2211 ARE2271
2W 2P	3/4	Spring Door Threaded Cap	ARE2212 ARE2272



Receptacle

Config.	Descrip.	Cat No. #
2W 2P	Spring Door Threaded Cap	AR221 AR227



Plug

Config.	Cable Dia.	Descrip.	Cat No. #
2W 2P	.250-500	Fastening Ring W/O Fastening Ring	APJ2271 APJ2251
2W 2P	.500-875	Fastening Ring W/O Fastening Ring	APJ2273 APJ2253

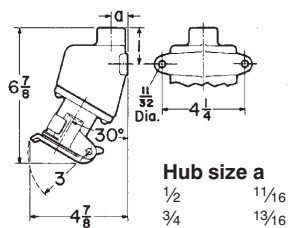


Connector

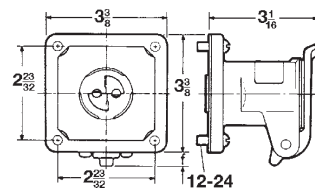
Config.	Cable Dia.	Descrip.	Cat No. #
2W 2P	.250-500	Connector	APR2251
	.500-850	Connector	APR2253

Dimensions

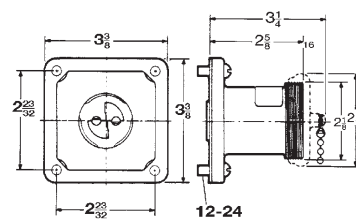
ARE Assembly



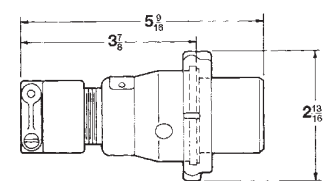
AR Receptacle - Spring Door



AR Receptacle - Open and with cap



APJ Plug



NOTE: For listing of additional back boxes, see pages 999 and 991.

** For use on systems less than 60 hertz the receptacles, plugs and connectors are for disconnect use only.

COOPER Crouse-Hinds

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971

1P

Arktite® Heavy Duty Circuit Breaking Receptacle Assemblies and Housings

30 A, 600 VAC/250 VDC, 50**-400 hertz

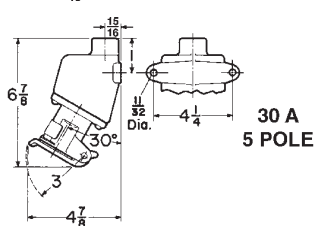
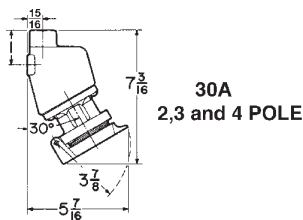
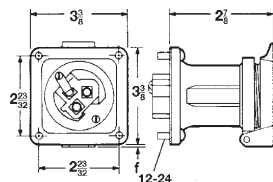
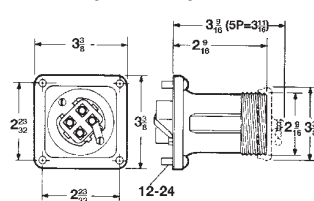
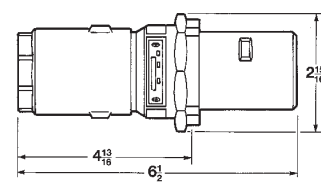
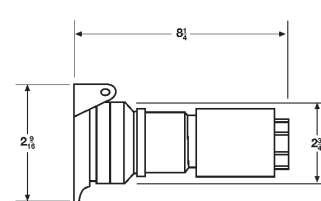
NEMA 4 Watertight

Receptacle Assembly**Receptacle****Mating Plug****Mating Connector****With ARE Back Boxes Style 1**

Description	Hub† Size	Spring Door Cat. #	Spring Door Cat. #	Threaded Cap Only Cat. #	Mating APJ Plugs† Style 1 Cat. #	Cable Dia.	Mating APR Connectors Style 1 Cat. #	Cable Dia.
2-wire, } 2-pole }	1/2 3/4	ARE3211 ARE3212	AR321	AR327	APJ3275	0.39 to 1.20	APR3255	0.39 to 1.20
3-wire, } 3-pole }	3/4 1	ARE3312 ARE3313	AR331	AR337	APJ3375	0.39 to 1.20	APR3355	0.39 to 1.20
4-wire, } 4-pole }	3/4 1	ARE3412 ARE3413	AR341	AR347	APJ3475	0.39 to 1.20	APR3455	0.87 to 1.02
5-wire, } 5-pole }	1	ARE3513	AR351		APJ3573	.500 to .875	APR3553	.500 to .875

Style 2

Description	Hub† Size	Spring Door Cat. #	Spring Door Cat. #	Threaded Cap Only Cat. #	Mating APJ Plugs† Style 2 Cat. #	Cable Dia.	Mating APR Connectors Style 2 Cat. #	Cable Dia.
2-wire, } 3-pole }	3/4 1	ARE3322 ARE3323	AR332	AR338	APJ3575	.875 to 1.375	APR3555	.875 to 1.375
3-wire, } 4-pole }	3/4 1	ARE3422 ARE3423	AR342	AR348	APJ3485	0.39 to 1.20	APR3465	0.39 to 1.20
4-wire, } 5-pole }	1	ARE3523	AR352		APJ3583 APJ3585	.500 to .875 .875 to 1.375	APR3563 APR3565	.500 to .875 .875 to 1.375

Dimensions**ARE Assembly****AR Receptacle - Spring Door****AR Receptacle - Open and with cap****Plug****Connector**

** For use on systems less than 60 hertz the receptacles, plugs and connectors are for disconnect use only.

Arktite® Heavy Duty Circuit Breaking Receptacle Assemblies and Housings

30 A, 600 VAC/250 VDC, 50**-400 hertz

NEMA 4 Watertight

1P

Plug Closure Caps:

Application:

- CPK caps for Arktite plugs are used:
- where portable equipment is on a standby basis and plugs are not in use
 - to effectively protect insulation and contacts from excessive moisture, dirt, dust and corrosion
 - with 30, 60, 100 and 200 ampere plugs with fastening ring and standard 200 ampere plugs for the clamp door housing



Config.	Cat No. #
2P & 3P & 4P	CPK13
5P	CPK32

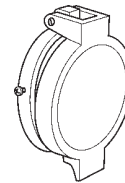
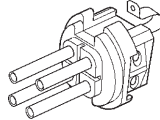
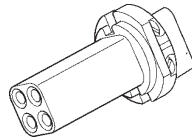
Standard Materials:

- Copper-free aluminum

Standard Finishes:

- Natural

Replacement Parts:



Config.	Receptacle Interior	Plug Interior	Spring Door	Screw Cap
2W 2P	ATP275	ATP270	QE50	QE13
2W 3P	ATP278	ATP273		
3W 3P	ATP276	ATP271		
3W 4P	ATP279	ATP274		
4W 4P	ATP277	ATP272		
4W 5P	ATP125	ATP109	N/A	N/A
5W 5P	ATP94	ATP73		

Replacement Pin & Sleeve Contacts:

Description	Recep	Plug
Available as a kit only. 5 phase contacts & 1 ground contact included	AR30CONKIT	AP30CONKIT

** For use on systems less than 60 hertz the receptacles, plugs and connectors are for disconnect use only.

1P

Arktite® Heavy Duty Circuit Breaking Receptacle Assemblies and Housings

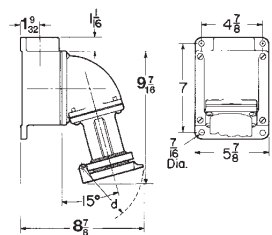
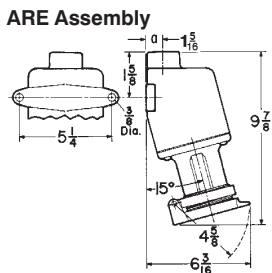
60 A, 600 VAC/250 VDC, 50**-400 hertz

NEMA 4 Watertight

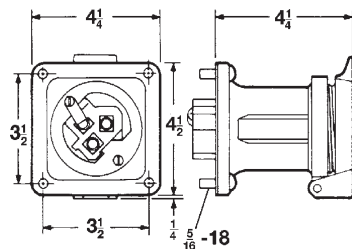


Style 1	With AJ Back Boxes and Angle Adapters			with ARE Back Boxes	Receptacle Housing Only		Cable Dia.	Cat. #	Cat. #
	Description	Hub Size	Spring Door Cat. #	Threaded Cap Only Cat. #	Spring Door Cat. #	Spring Door Cat. #			
2-wire, 2-pole	1	AREA6213		ARE6213	AR621	AR627	0.50 to 1.45	APJ6275	APR6255
	1¼	AREA6214		ARE6214					
3-wire, 3-pole	1	AREA6313		ARE6313	AR631	AR637	0.50 to 1.45	APJ6375	APR6355
	1¼	AREA6314		ARE6314					
4-wire, 4-pole	1¼	AREA6414		ARE6414	AR641		0.50 to 1.45	APJ6475	APR6455
	1½	AREA6415		ARE6415					
5-wire, 5-pole	1¼		AREA6574			AR657	0.50 to 1.45	APJ6575	
	1½		AREA6575						
Style 2									
2-wire, 3-pole	1	AREA6323		ARE6323	AR632	AR638	0.50 to 1.45	APJ6385	APR6365
	1¼	AREA6324		ARE6324					
3-wire, 4-pole	1¼	AREA6424		ARE6424	AR642	AR648	0.50 to 1.45	APJ6485	APR6465
	1½	AREA6425		ARE6425					
4-wire, 5-pole	1¼		AREA6584			AR658	0.75 to 1.45	APJ6585	APR6585
	1½		AREA6585						

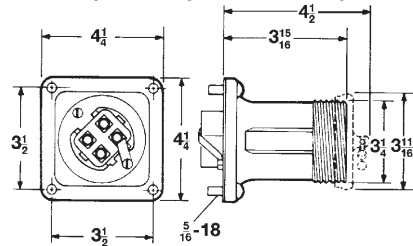
Dimensions



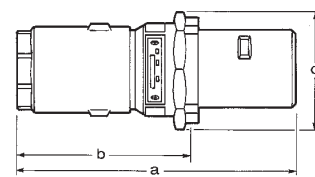
AR Receptacle - Spring Door



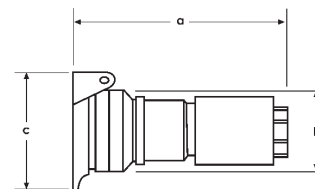
AR Receptacle - Open and with cap



APJ Plug



APR Connector



Config	Plug			Connector		
	a	b	c	a	b	c
2P or 3P	8½	5¾	3¾	6½	3¾	2½ ¹⁵ / ₁₆
4P	8½	5 ¹³ / ₁₆	3¾	8¼	3¾	2½ ¹⁵ / ₁₆
5P	9	6 ³ / ₁₆	4 ⁷ / ₁₆	8¼	3¾	3¼

** For use on systems less than 60 hertz the receptacles, plugs and connectors are for disconnect use only.

Arktite® Heavy Duty Circuit Breaking Receptacle Assemblies and Housings

60 A, 600 VAC/250 VDC, 50**-400 hertz

NEMA 4 Watertight

1P

Plug Closure Caps:

Application:

- CPK caps for Arktite plugs are used:
- where portable equipment is on a standby basis and plugs are not in use
 - to effectively protect insulation and contacts from excessive moisture, dirt, dust and corrosion
 - with 30, 60, 100 and 200 ampere plugs with fastening ring and standard 200 ampere plugs for the clamp door housing



Config.	Cat No. #
2P & 3P	CPK32
4P	CPK34

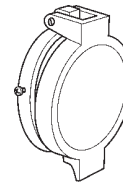
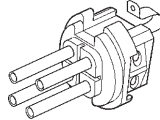
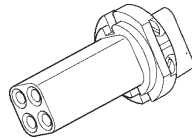
Standard Materials:

- Copper-free aluminum

Standard Finishes:

- Natural

Replacement Parts:



Config.	Receptacle Interior	Plug Interior	Spring Door	Screw Cap
2W 2P	ATP295	ATP290	QE51	QE32
2W 3P	ATP298	ATP293		
3W 3P	ATP296	ATP291	QE52	QE34
3W 4P	ATP299	ATP294		
4W 4P	ATP297	ATP292	N/A	AR:11393B
4W 5P	ATP385	ATP387		
5W 5P	ATP384	ATP386	N/A	

Replacement Pin & Sleeve Contacts:

Description	Recep	Plug
Available as a kit only. 5 phase contacts & 1 ground contact included	AR60CONKIT	AP60CONKIT

** For use on systems less than 60 hertz the receptacles, plugs and connectors are for disconnect use only.

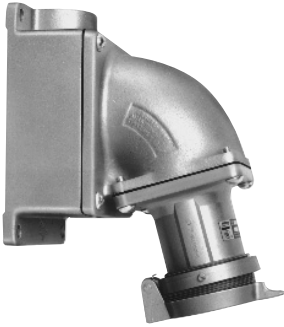
1P

Arktite® Heavy Duty Circuit Breaking Receptacle Assemblies and Housings

100 A, 600 VAC/250 VDC, 50**-400 hertz

NEMA 4 Watertight

Receptacle Assembly



Receptacle



Mating Plug



Mating Connector

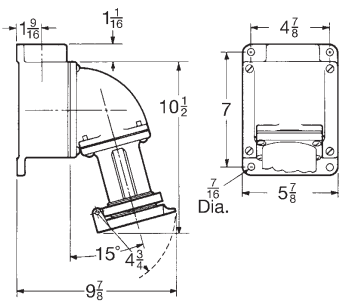


Style 1

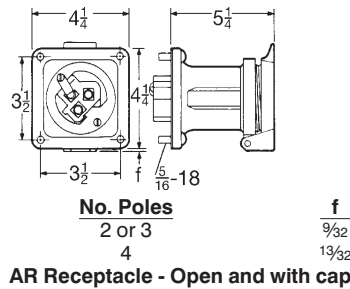
Description	Hub Size	Spring Door Cat. #	Receptacle Housings Only		Cable Dia.	Cat. #	Cat. #
			Spring Door Cat. #	Threaded Cap Only Cat. #			
2-wire, 2-pole	1¼	AREA10214	AR1021	AR1027	0.875 to 1.70	APJ10277	APR10257
	1½	AREA10215					
3-wire, 3-pole	1¼	AREA10314	AR1031	AR1037	0.875 to 1.70	APJ10377	APR10357
	1½	AREA10315					
4-wire, 4-pole	1½	AREA10415	AR1041	AR1047	0.875 to 1.70	APJ10477	APR10457
	2	AREA10416					
Style 2			Style 2		Style 2		
2-wire, 3-pole	1¼	AREA10324	AR1032	AR1038	0.875 to 1.70	APJ10387	APR10367
	1½	AREA10325					
3-wire, 4-pole	1½	AREA10425	AR1042	AR1048	0.875 to 1.70	APJ10487	APR10467
	2	AREA10426					

Dimensions

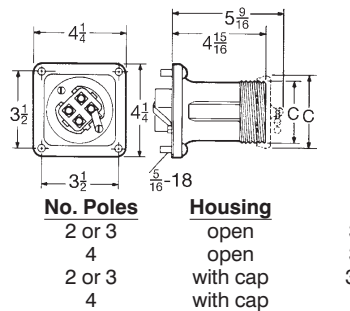
ARE Assembly



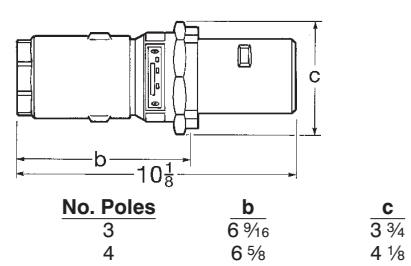
AR Receptacle - Spring Door



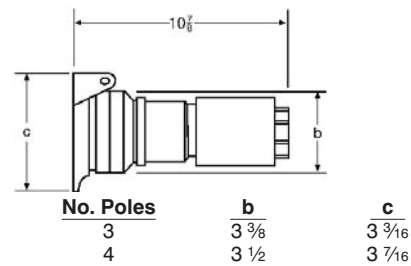
AR Receptacle - Open and with cap



APJ Plug



APR Connector



1P Heavy Duty Plugs and Receptacles

** For use on systems less than 60 hertz the receptacles, plugs and connectors are for disconnect use only.

Arktite® Heavy Duty Circuit Breaking Receptacle Assemblies and Housings

100 A, 600 VAC/250 VDC, 50**-400 hertz

NEMA 4 Watertight
Dimensions Pages 947, 961, 964-966

1P

Plug Closure Caps:

Application:

- CPK caps for *Arktite* plugs are used:
- where portable equipment is on a standby basis and plugs are not in use
 - to effectively protect insulation and contacts from excessive moisture, dirt, dust and corrosion
 - with 30, 60, 100 and 200 ampere plugs with fastening ring and standard 200 ampere plugs for the clamp door housing



Config.	Cat No. #
2P & 3P	CPK62
4P	CPK64

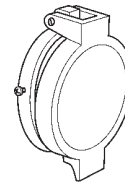
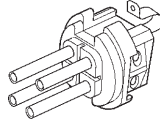
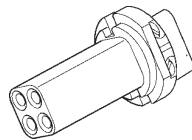
Standard Materials:

- Copper-free aluminum

Standard Finishes:

- Natural

Replacement Parts:



Config.	Receptacle Interior	Plug Interior	Spring Door	Screw Cap
2W 2P	ATP315	ATP310	QE53	QE62
2W 3P	ATP318	ATP313		
3W 3P	ATP316	ATP311	QE54	QE64
3W 4P	ATP319	ATP314		
4W 4P	ATP317	ATP312	N/A	N/A
4W 5P	N/A	N/A		
5W 5P	N/A	N/A		

Replacement Pin & Sleeve Contacts:

Description	Recep	Plug
Available as a kit only. 5 phase contacts & 1 ground contact included	AR100CONKIT	AP100CONKIT

** For use on systems less than 60 hertz the receptacles, plugs and connectors are for disconnect use only.

See pages 966-969 for general Application, Features, Grounding, Standard Materials, Standard Finishes, Options, Accessories, Compliances, Electrical Rating Ranges, and Wire Sizes.

Features:

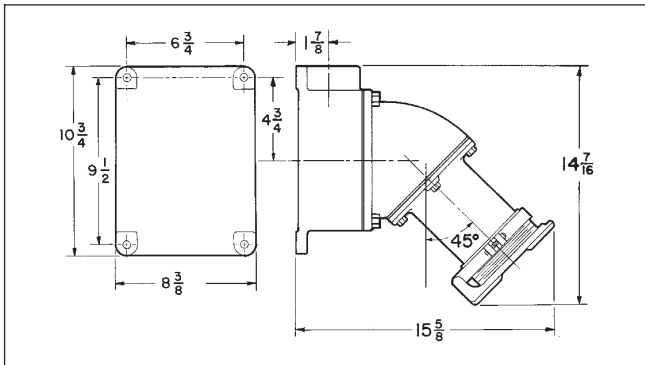
- Grounding contact wire terminators will accommodate ground wire of same size as phase wire.
- Spring band contact design provides multiple points of electrical contact. Improves electrical reliability and significantly reduces effort required for insertion and withdrawal
- Crimp/solder type contacts are standard
- Large wire wells are available for "extra flexible" wire
- Larger wire well size connectors will interchange with connectors of other wire well size of same amperage and contact configuration.
- Self-closing spring doors on receptacles and cord connectors provide environmental sealing
- Threaded nuts provide positive plug retention
- Two piece plug and cord connector design provide easy installation

NOTES:

1. For listing of additional back boxes, see page 991.
2. S22 suffix for reverse interiors is available from factory only. Field conversion cannot be done.
3. Replacement interiors for standard units vs. S22 units vary in length. Specify the unit type when ordering parts.

Dimensions

AREA Assembly



Plug Closure Caps:

Application:

- CPK caps for Arktite plugs are used:
 - where portable equipment is on a standby basis and plugs are not in use
 - to effectively protect insulation and contacts from excessive moisture, dirt, dust and corrosion
 - with 30, 60, 100 and 200 ampere plugs with fastening ring and standard 200 ampere plugs for the clamp door housing



Config.	Cat No. #
3P	CPK102
4P	CPK104

Standard Materials:

- Copper-free aluminum

Standard Finishes:

- Natural

Wire Mesh Grips:

Application:

- Wire mesh grips are used:
 - to provide secure cable termination
 - to extend cable life
 - with 20, 200 and 400 ampere plugs



Features:

- Eliminate sharp radius of cable bend at the point where cable enters plug, thereby reducing cable failure
- Absorb longitudinal stresses placed on the point of termination caused by pulling the cable
- Gripping action increases in direct proportion to amount of tension applied to cable

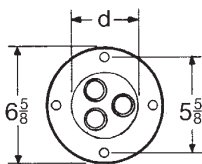
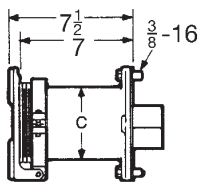
Standard Material & Finishes:

- Stainless steel wire braid - Natural

Ordering Information:

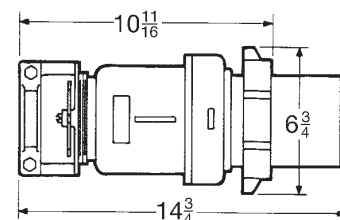
Plug Cable Range	Grip Range	Nominal Grip Length - Inches	Grip Cat. #
1.375 to 1.875	1.375 to 1.625	8	K163
	1.625 to 1.875	11	K188
1.875 to 2.500	1.875 to 2.000	10	K200
	2.000 to 2.250	11 3/4	K225

AR Receptacle

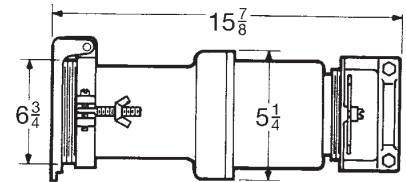


No. Poles	c	d
3	4 3/16	3 1/4
4	4 9/16	3 5/8

AP Plug



APR Connector



** For use on system less than 60 hertz the receptacles, plugs and connectors are for disconnect use only.

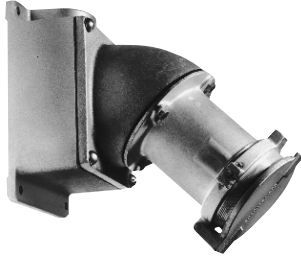
Arktite® Heavy Duty Circuit Breaking Receptacle Assemblies

200 A, 600 VAC/250 VDC, 50**-400 hertz

Weatherproof

1P

Receptacle Assembly



With AJ Back Boxes and Angle Adapters

Receptacle



Receptacle Housings only

Mating Plug



Mating Connector



Style 1 – Wire Well Takes .56" Maximum Conductor Size

Description	Hub Size	Spring Door Cover Cat. #	Spring Door Cat. #	Cable Dia.	Plug Cat. #	Connector Cat. #
3-wire, 3-pole	1½	AREA20315	AR2031	0.875 to 1.375 1.375 to 1.875 1.875 to 2.500	AP20355 AP20357 AP20358	APR20315 APR20317 APR20318
	2	AREA20316				
	2½	AREA20317				
4-wire, 4-pole	2	AREA20416	AR2041	0.875 to 1.375 1.375 to 1.875 1.875 to 2.500	AP20455 AP20457 AP20458	APR20415 APR20417 APR20418
	2½	AREA20417				

Style 1 – Wire Well Takes .75" Maximum Conductor Size

3-wire, 3-pole	1½	AREA203125	AR20312	1.375 to 1.875 1.875 to 2.500	AP203511 AP203512	APR203111 APR203112
	2	AREA203126				
	2½	AREA203127				
4-wire, 4-pole	2	AREA204126	AR20412	1.375 to 1.875 1.875 to 2.500 2.500 to 3.000	AP204511 AP204512 AP204513	APR204111 APR204112 APR204113
	2½	AREA204127				

Style 2 – Wire Well Takes .56" Maximum Conductor Size

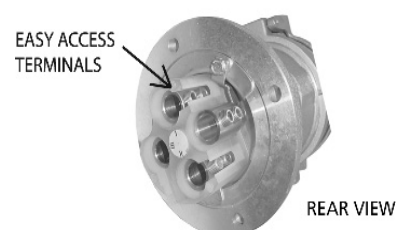
2-wire, 3-pole	1½	AREA20325	AR2032	0.875 to 1.375 1.375 to 1.875 1.875 to 2.500	AP20365 AP20367 AP20368	APR20325 APR20327 APR20328
	2	AREA20326				
	2½	AREA20327				
3-wire, 4-pole	1½	AREA20425	AR2042	0.875 to 1.375 1.375 to 1.875 1.875 to 2.500	AP20465 AP20467 AP20468	APR20425 APR20427 APR20428
	2	AREA20426				
	2½	AREA20427				

Style 2 – Wire Well Takes .75" Maximum Conductor Size

2-wire, 3-pole	1½	AREA203225	AR20322	0.875 to 1.375 1.375 to 1.875 1.875 to 2.500	AP203610 AP203611 AP203612	APR203210 APR203211 APR203212
	2	AREA203226				
	2½	AREA203227				
3-wire, 4-pole	1½	AREA204225	AR20422	1.375 to 1.875 1.875 to 2.500	AP204611 AP204612	APR204211 APR204212
	2	AREA204226				
	2½	AREA204227				

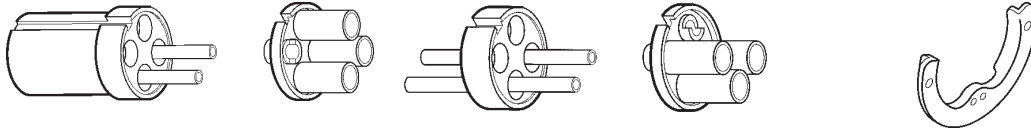
Option:

- Mechanical lug wire conductor terminations. Add "L" to catalog prefix i.e. : ARL2042



1P**Arktite® Heavy Duty Circuit Breaking Receptacle Assemblies**

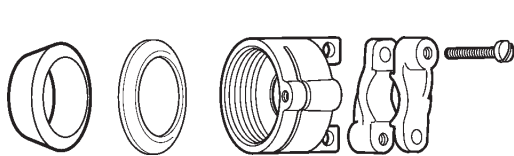
Weatherproof

200 A, 600 VAC/250 VDC, 50-400 hertz****200A Replacement Parts****200A Standard and S4**

	Receptacle Interior		Plug Interior		Brass Retaining Shoe	
	.56 wire well	.75 wire well	.56 wire well	.75 wire well	.56 wire well	.75 wire well
2W 3P	ATP401	ATP402	ATP433	ATP434	0490335	0490335
3W 3P	ATP397	ATP398	ATP429	ATP430	0490327	0490328
3W 4P	ATP403	ATP404	ATP435	ATP436	0490337	0490337
4W 4P	ATP399	ATP400	ATP431	ATP432	0490331	0490332

200A ST22 and S4 S22

	Receptacle Interior		Plug Interior		Brass Retaining Shoe	
	.56 wire well	.75 wire well	.56 wire well	.75 wire well	.56 wire well	.75 wire well
2W 3P	ATP417	ATP418	ATP449	ATP450	0490335	0490335
3W 3P	ATP413	ATP414	ATP445	ATP446	0490327	0490328
3W 4P	ATP419	ATP420	ATP451	ATP452	0490337	0490337
4W 4P	ATP415	ATP416	ATP447	ATP448	0490331	0490332

**Cord Grip Assembly**

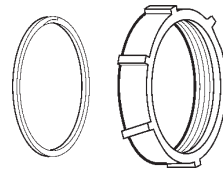
Cord Diameter Range

.875 - 1.375

1.375 - 1.875

1.875 - 2.500

AP2 KIT1 M80
AP2 KIT2 M80
AP2 KIT3 M80

**Plug Clamp Nut**

2W 3P

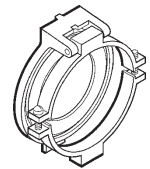
3W 3P

AP:0401965

2W 3P

3W 3P

AP:0401964

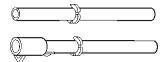
**Rec Spring Door**

AR:0401502-2

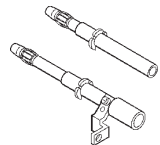
AR:0401502-1

Replacement Pin & Sleeve Contacts**200A Standard & S4**

	Receptacle		Plug	
	.56 wire well	.75 wire well	.56 wire well	.75 wire well
Phase Contact	0490339	0490340	0490319	0490320
Ground Contact	0490343	0490344	0490323	0490324

**200A S22 & S4 S22**

	Receptacle		Plug	
	.56 wire well	.75 wire well	.56 wire well	.75 wire well
Phase Contact	0490351	0490352	0490355T	0490356
Ground Contact	0490347	0490348	0490359	0490360



Arktime® Heavy Duty Receptacle Assemblies

Weatherproof

1P

400 A, 600 VAC/250 VDC, 50-400 hertz

Features:

- Grounding contact wire terminators will accommodate ground wire of same size as phase wire
- Spring band contact design provides multiple points of electrical contact. Improves electrical reliability and significantly reduces effort required for insertion and withdrawal
- Crimp/solder type contacts are standard.
- Large wire wells are available for "extra flexible" wire
- Larger wire well connectors will interchange with connectors of other wire well size, of same amperage and contact configuration.
- Self-closing spring doors on receptacles and cord connectors provide environmental sealing
- Threaded nuts provide positive plug retention
- Two piece plug and cord connector design provide easy installation
- For disconnect use only – not for current interrupting

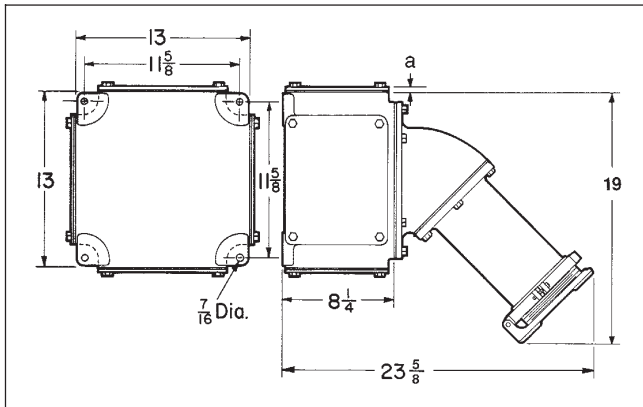
NOTES:

1. For listing of additional back boxes, see page 991. Illustration shows 3 blank plates and 1 hub plate.
2. S22 suffix for reverse interiors is available from factory only. Field conversion cannot be done.
3. Replacement interiors for standard units vs. S22 units vary in length. Specify the unit type when ordering parts.

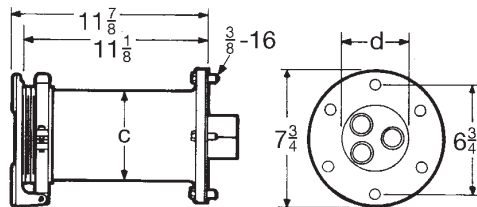
Dimensions

AREX Assemblies

Description	a
With blank hub plate	5/16
With hub plate max.	45/8



AR Receptacles



No. Poles	c	d
3	5 3/16	4 3/16
4	5 13/16	4 11/16

Wire Mesh Grips



Application:

- Wire mesh grips are used:
- to provide secure cable termination
 - to extend cable life
 - with 20, 200 and 400 ampere plugs

Features:

- Eliminate sharp radius of cable bend at the point where cable enters plug, thereby reducing cable failure
- Absorb longitudinal stresses placed on the point of termination caused by pulling the cable
- Gripping action increases in direct proportion to amount of tension applied to cable

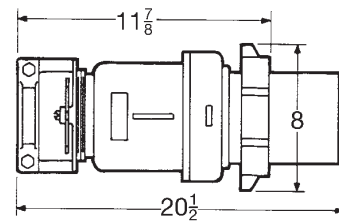
Standard Material & Finishes:

- Stainless steel wire braid – Natural

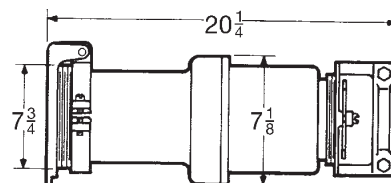
Ordering Information:

Plug Cable Range	Grip Range	Nominal Grip Length – Inches	Grip Cat. #
1.375 to 1.875	1.375 to 1.625	8	K163
	1.625 to 1.875	11	K188
1.875 to 2.500	1.875 to 2.000	10	K200
	2.000 to 2.250	11 3/4	K225

AP Plugs



APR Connectors



1P**Arktite® Heavy Duty Receptacle Assemblies**

Weatherproof

400 A, 600 VAC/250 VDC, 50-400 hertz**Receptacle Assembly****Receptacle****Mating Plug****Mating Connector****With AJ Back Boxes† and Angle Adapters****Style 1 – Wire Well Takes .84" Maximum Conductor Size****Receptacle Housings only**

Description	Hub Size	Spring Door Cover Cat. #	Spring Door Cat. #	Cable Dia.	Plug Cat. #	Connector Cat. #
3-wire, 3-pole	2½	AREX40317	AR4031	1.375 to 1.875 1.875 to 2.500	AP40357 AP40358	APR40317 APR40318
	3	AREX40318				
4-wire, 4-pole	2½	AREX40417	AR4041	1.375 to 1.875 1.875 to 2.500	AP40457 AP40458	APR40417 APR40418
	3	AREX40418				
Style 1 – Wire Well Takes 1.25" Maximum Conductor Size						
3-wire, 3-pole	3	AREX403128	AR40312	2.500 to 3.000 3.000 to 3.800	AP403510 AP403512	APR403110 APR403112
	3½	AREX403129				
	4	AREX4031210				
4-wire, 4-pole	4	AREX4041210	AR40412	2.500 to 3.000 3.000 to 3.800	AP404510 AP404512	APR404110 APR404112
	5	AREX4041212				
Style 2 – Wire Well Takes .84" Maximum Conductor Size						
2-wire, 3-pole	2	AREX40326	AR4032	1.375 to 1.875 1.875 to 2.500	AP40367 AP40368	APR40327 APR40328
	2½	AREX40327				
	3	AREX40328				
3-wire, 4-pole	2½	AREX40427	AR4042	1.375 to 1.875 1.875 to 2.500	AP40467 AP40468	APR40427 APR40428
	3	AREX40428				
Style 2 – Wire Well Takes 1.25" Maximum Conductor Size						
2-wire, 3-pole	3	AREX403228	AR40322	2.500 to 3.000 3.000 to 3.500	AP403610 AP403612	APR403210 APR403212
	3½	AREX403229				
	4	AREX4032210				
3-wire, 4-pole	4	AREX4042210	AR40422	2.500 to 3.000 3.000 to 3.500	AP404610 AP404612	APR404210 APR404212
	5	AREX4042212				

† Furnished with cable grip and neoprene bushing.

‡ Hub plates and blank plates may be interchanged to permit conduit feed from bottom or sides.

Non-Metallic Arktite® Heavy Duty Circuit Breaking Plugs and Receptacles

Made of Krydon® Material, 600 VAC/250 VDC, 50-400 hertz;

Watertight
Corrosion-Resistant
NEMA 4X
Dimensions Pg. 984

1P

Application:

Arktite circuit breaking plugs, receptacles, cord connectors and motor plugs are used:

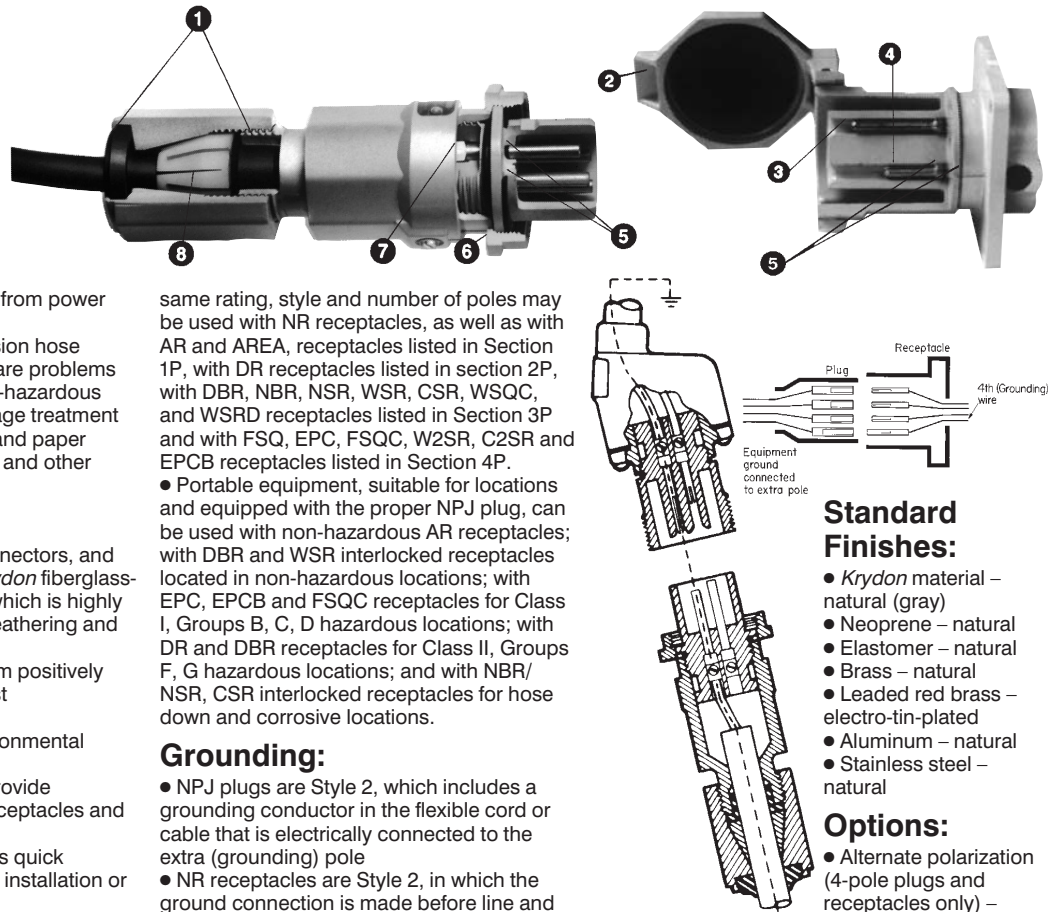
- to supply power to portable electrical devices such as welders, motors, pumps, conveyors and other similar equipment
- where electrical loads must be quickly disconnected from power sources
- in areas where severe corrosion, moisture, dirt and dust are problems
- indoors and outdoors in non-hazardous areas of chemical plants, sewage treatment facilities, cement plants, pulp and paper plants, food processing plants and other similar industries

Features:

- Plugs, receptacles, cord connectors, and motor plugs are molded of *Krydon* fiberglass-reinforced polyester material which is highly resistant to corrosion, heat, weathering and physical abuse
- ① 2-stage cord sealing system positively grips cord and protects against environmental contaminants
- ② Spring door provides environmental protection of receptacle
- Elastomeric snap-on caps provide environmental protection of receptacles and cord connectors
- Threaded construction allows quick assembly and disassembly for installation or maintenance
- ③ Grounding contact circuit is made first and broken last
- ④ Contact design provides multiple points of electrical contact for full-load circuit breaking capability
- Total interchangeability with all existing *Arktite* products for comparable ratings and configurations
- ⑤ Unique environmental sealing system includes o-ring gaskets on all contacts and between housing parts for NEMA 4 integrity
- ⑥ Threaded clamping ring provides plug retention
- ⑦ Pressure contact wire terminals are standard. Crimp/solder terminals are optional
- NPQ motor plugs and NPR cable connectors offer reversed interior capability
- ⑧ Unique cord and cable gripping system provides positive strain relief

Interchangeability of Plugs With Other Non-Hazardous and Hazardous Location Receptacles:

- Plugs listed for use with NRE/NREA assemblies are standard NPJ *Arktite* plugs. Other standard APJ and CPH plugs of the



same rating, style and number of poles may be used with NR receptacles, as well as with AR and AREA, receptacles listed in Section 1P, with DR receptacles listed in section 2P, with DBR, NBR, NSR, WSR, CSR, WSQC, and WSRD receptacles listed in Section 3P and with FSQ, EPC, FSQC, W2SR, C2SR and EPCB receptacles listed in Section 4P.

- Portable equipment, suitable for locations and equipped with the proper NPJ plug, can be used with non-hazardous AR receptacles; with DBR and WSR interlocked receptacles located in non-hazardous locations; with EPC, EPCB and FSQC receptacles for Class I, Groups B, C, D hazardous locations; with DR and DBR receptacles for Class II, Groups F, G hazardous locations; and with NBR/NSR, CSR interlocked receptacles for hose down and corrosive locations.

Grounding:

- NPJ plugs are Style 2, which includes a grounding conductor in the flexible cord or cable that is electrically connected to the extra (grounding) pole
- NR receptacles are Style 2, in which the ground connection is made before line and load poles engage, and is broken after line and load poles disengage.
- The National Electrical Code® and Canadian Electrical Code requires that under conditions favorable to corrosion, the grounding conductor for enclosures and equipment be of copper or other corrosion-resistant material in alternating current systems. This necessitates running another conductor, usually of copper, back to the common grounding electrode. This may be run through the conduit containing the circuit conductors. At the receptacle, this grounding conductor should be connected to the extra (grounding) pole by the pressure connector provided for that purpose. Where such an extra ground conductor is required, Style 2 receptacles should be used.

Standard Materials:

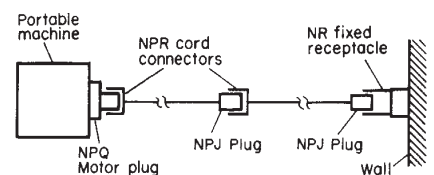
- Housing, interiors, spring doors, clamping rings – *Krydon* fiberglass-reinforced polyester material
- Gaskets and o-rings – neoprene
- Cable clamping basket – nylon
- Contacts – pressure – brass; crimp/solder – leaded brass
- Snap-on cap – molded elastomer
- Back boxes – copper-free aluminum

Style 2 – Typical 3-wire, 4-pole plug and receptacle

- Crimp/solder terminals – add suffix T to Cat. No.
- *Corro-free*™ epoxy powder coat on back boxes and angle adapters – information on request

Certifications and Compliances:

- UL Standard: 1682
- UL 1010 hazardous locations (NPJ plug only)
- Wet and damp locations, watertight
- CSA Standard C22.2 No. 182.1



1P Heavy Duty Plugs and Receptacles

1P**Non-Metallic Arktite® Heavy Duty Circuit Breaking Motor Plugs, Plugs & Cord Connectors**Watertight§
Corrosion-Resistant
NEMA 4XMade of Krydon® Material, 30 A, 60 A and 100 A
600 VAC/250 VDC, 50**–400 hertz**Receptacle Assembly****NREA****NRE****Receptacle****Mating Plugs****Mating Connectors****Motor Plugs**

Amps	Description	Hub Size	Snap-on Cap/ Spring Door Cat. # ①	Snap-on Cap/ Spring Door Cat. # ①	Cord Dia.	Plug Cat. #	Cord Connector Cat. #	Motor Plug Cat. #
30	2-wire, 3-pole	3/4 1	NRE3322 NRE3323	NR332	0.55–0.70 0.70–0.85	NPJ3383 NPJ3384	NPR3363 NPR3364	NPQ338
	3-wire, 4-pole	3/4 1	NRE3422 NRE3423	NR342	0.55–0.70 0.70–0.85	NPJ3483 NPJ3484	NPR3463 NPR3464	NPQ348
60	2-wire, 3-pole	1 1 1/4	NRE6323 NRE6324	NR632	0.75–1.07 1.07–1.35	NPJ6384 NPJ6385	NPR6364 NPR6365	NPQ638
	3-wire, 4-pole	1 1/4 1 1/2	NRE6424 NRE6425	NR642	0.75–1.07 1.07–1.35	NPJ6484 NPJ6485	NPR6464 NPR6465	NPQ648
100	2-wire, 3-pole	1 1/4 1 1/2	NREA10324‡ NREA10325‡	NR1032	0.93–1.21 1.21–1.50	NPJ10386 NPJ10387	NPR10366 NPR10367	NPQ1038
	3-wire, 4-pole	1 1/2 2	NREA10425‡ NREA10426‡	NR1042	0.93–1.21 1.21–1.50	NPJ10486 NPJ10487	NPR10466 NPR10467	NPQ1048

① Krydon Arktite Receptacles are supplied with both a spring door and snap-on cap.

§ Wet and damp locations when used with spring door or snap-on cap, watertight when used with QE threaded cap.

‡ AJ back boxes are square, making it possible to install with hub in several positions.

** For use on systems less than 60 hertz the receptacles, plugs and connectors are for disconnect use only.

Non-Metallic Arktite® Heavy Duty Circuit Breaking Motor Plugs, Plugs & Cord Connectors

Dimensions

1P

Made of Krydon® Material, 30 A, 60 A and 100 A
600 VAC/250 VDC, 50**–400 hertz

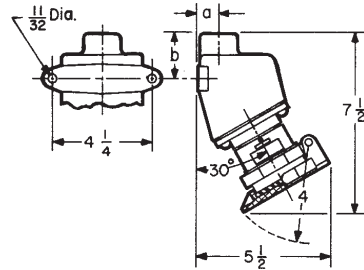


Fig. 1 – 30 A Receptacle Assemblies

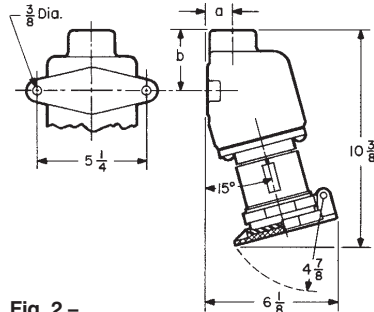


Fig. 2 – 60 A Receptacle Assemblies

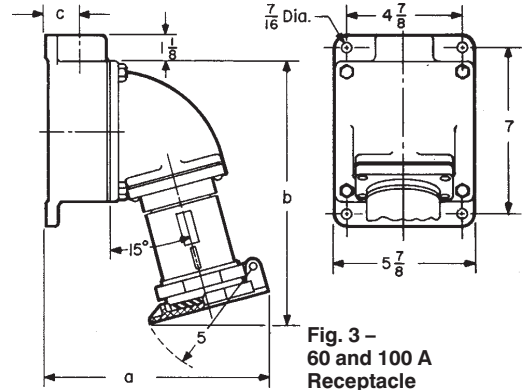


Fig. 3 – 60 and 100 A Receptacle Assemblies

NRE 30 and 60 A Assemblies – Fig. 1 NREA 60 and 100 A Assemblies – Fig. 3

Hub Size	Dimension a		Dimension b		Dim.	60 A Hub Size		100 A Hub Size	
	30 A	60 A	30 A	60 A		1 1/4, 1 1/2	1 1/4, 1 1/2	2	
3/4	13/16		17/8		a	9	9 1/4	9 13/16	
1	15/16	15/16	2	29/16	b	11	12	12	
1 1/4	13/16		25/8		c	1 5/16	1 9/16	1 9/16	
1 1/2	15/16		2 11/16						

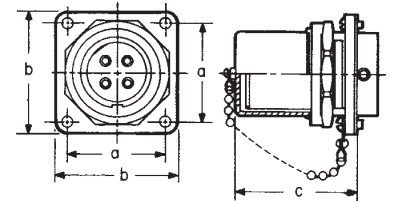


Fig. 6 – NPQ Motor Plugs

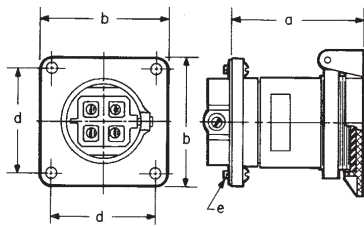


Fig. 4 – Spring Door Housings

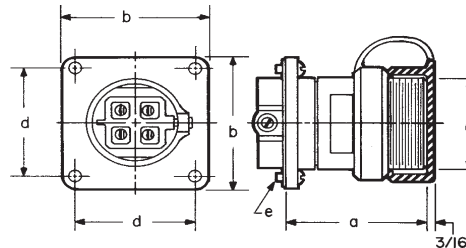


Fig. 5 – Housings with Cap

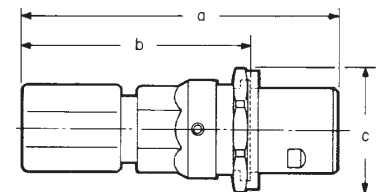


Fig. 7 – NPJ Plugs

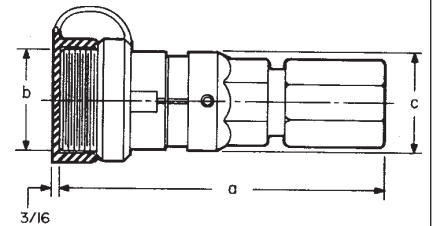


Fig. 8 – NPR Cord Connectors

Amps	No. Poles	Housing	a	b	c	d	e
30	3 or 4	Spring Door	3 1/4	3 3/8	—	2 3/4	12-24
	3 or 4	Open	2 13/16	3 3/8	2 9/16	2 3/4	12-24
60	3	Spring Door	4 1/2	4 1/4	—	3 1/2	5/16-18
	4	Spring Door	4 1/2	4 1/4	—	3 1/2	5/16-18
	3	Open	4 1/16	4 1/4	2 15/16	3 1/2	5/16-18
	4	Open	4 1/16	4 1/4	3 1/4	3 1/2	5/16-18
100	3	Spring Door	5 3/4	4 1/4	—	3 1/2	5/16-18
	4	Spring Door	5 3/4	4 1/4	—	3 1/2	5/16-18
	3	Open	5 5/16	4 1/4	3 3/16	3 1/2	5/16-18
	4	Open	5 5/16	4 1/4	3 7/16	3 1/2	5/16-18

Amps/Poles	a	b	c
NPQ Motor Plugs – Fig. 6			
30/3 or 4	2 3/4	3 3/8	2 15/16
60/3 or 4	3 1/2	4 1/4	4 5/16
100/3 or 4	3 1/2	4 1/4	5 7/16
NPJ Plugs – Fig. 7			
30/3 or 4	8 1/2	7	3 3/16
60/3	9 1/2	6 13/16	3 5/8
60/4	9 1/2	6 13/16	4
100/3	11 1/4	7 3/4	4
100/4	11 1/4	7 3/4	4 1/4
NPR Cord Connectors – Fig. 8			
30/3 or 4	8 7/8	2 9/16	2 5/8
60/3	9 3/4	2 15/16	2 15/16
60/4	9 3/4	3 1/4	2 15/16
100/3	11 1/2	3 3/16	3 5/16
100/4	11 1/2	3 7/16	3 5/16

** For use on systems less than 60 hertz the receptacles, plugs and connectors are for disconnect use only.

1P

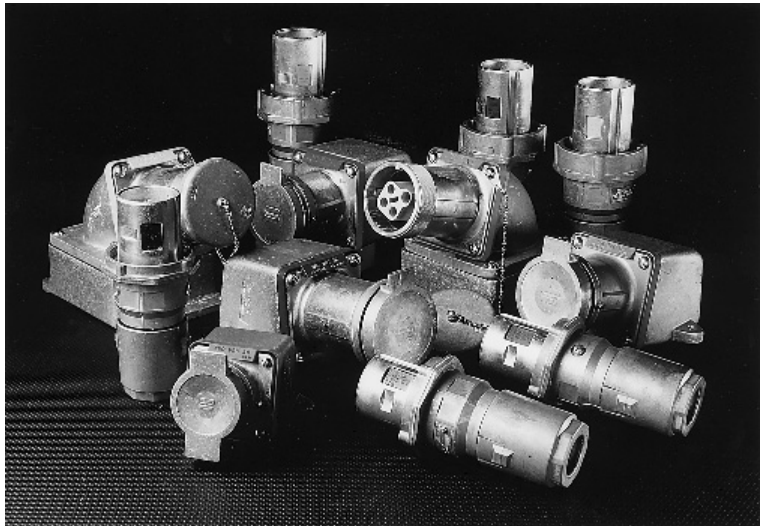
Configured Arktite® Heavy Duty Power Connectors

Rainproof
30 to 100 A
600 VAC/250 VDC
60-400 hertz

Heavy-Duty and Voltage Polarized

Configured Arktite® Power Connectors offer the heavy-duty metal construction of our standard Arktite line, *plus* voltage configuration. This combination is the ultimate in pin and sleeve connector reliability and safety. The new Configured Arktite Connector series incorporates a unique voltage polarization system that insures that only receptacles and plugs rated for the same voltage can be physically connected. This assures a safe and correct electrical connection every time. Compliance with the National Electrical Code® article 210-7 requirement for non-interchangeability of receptacles and plugs on the same premises with different voltages is now easier than ever. Equipment damage due to the misapplication of the wrong voltage using these connectors when properly installed can be virtually eliminated.

This new connector series is not intermateable with our standard line of Arktite power connectors, but it utilizes many of the same time-tested construction features that have been the proven standard of excellence in the electrical industry for years. Configured Arktite Power Connectors are available in 4 or 5 pole (includes ground contact) versions for 30, 60, or 100 amp requirements. Every plug and receptacle is marked numerically and color coded for the specific voltage making it simple and easy to determine the proper plug and receptacle combination. A larger ground contact and unique keying system insures that only the connectors of the same voltage



will intermate. Five distinct configurations are available covering the most common voltages in industry.

Configured Arktite Power Connectors are designed for rugged use in the most abusive applications. The unique gasketing system provides a sure seal even in the most adverse environments. They also feature the Cooper Crouse-Hinds patented TRI-LOCK™ cable grip that securely locks the cable in place even when subjected to extreme flexing and jerking. The larger ground contact makes first, breaks last, and is bonded to the metal housing

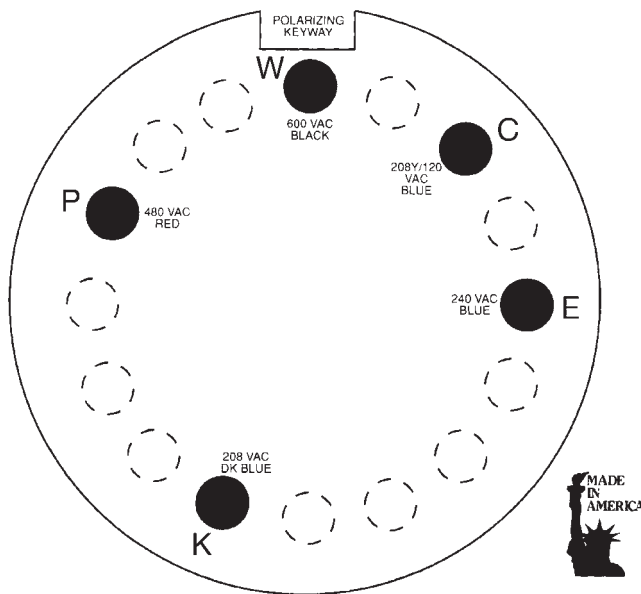
to insure all metal parts are properly grounded. The power contacts are specially designed and located in arc quenching chambers to allow these connectors to be safely disconnected under load. Cooper Crouse-Hinds Configured Arktite Power Connectors are designed in compliance with the latest UL, CSA and NEMA standard.

Applications:

- Configured Arktite voltage polarized circuit breaking plugs and receptacles are used:
- to supply power to portable electrically operated devices such as motor-generator sets, compressors, heating and cooling units, welders, conveyors, lighting systems, and similar equipment.
 - where temporary power is needed, such as at trailers, building units, heavy machinery, and similar equipment.
 - wherever electrical loads must be quickly disconnected from a power source.
 - in areas where dust, dirt, moisture, and corrosion are a problem.
 - indoors and outdoors in non-hazardous areas of chemical plants, process industry facilities, meat packing plants, manufacturing plants, and similar industrial locations.

Accessories:

Accessories include a variety of angle adapters, panel adapters, and back boxes for Configured Arktite receptacles. They include protective caps for Configured Arktite plugs and receptacles.



Face View of Receptacle

Footnote: ● indicates ground contact position.
○ indicates position not used.

Heavy Duty Plugs and Receptacles
1P

Configured Arktite® Heavy Duty Power Connectors

Rainproof
30 to 100 A
600 VAC/250 VDC
60-400 hertz

1P

Voltage/Color Configurations

A 16 position 'face' is used to illustrate the grounding contact location for receptacles. To identify the system voltage, identify the housing color and position of the receptacle grounding contact or marking on the polarizer.

Standard Materials:

- Metallic receptacle housings, plug, and connector bodies – high impact strength copper-free aluminum
- Back boxes – cast aluminum
- Insulators: 3, 4, and 5 pole – fiberglass-reinforced polyester
- Contacts: Pressure screw type – brass
- Polarizers – PBT polyester

Standard Finishes:

- Aluminum – natural
- Fiberglass-reinforced polyester insulator – gray
- Brass – natural

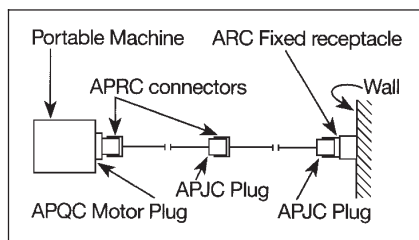
Certifications and Compliances:

- UL Standards: 1682 and 1686
- CSA Standard: C22.2 No. 182.1

Electrical Rating Ranges:

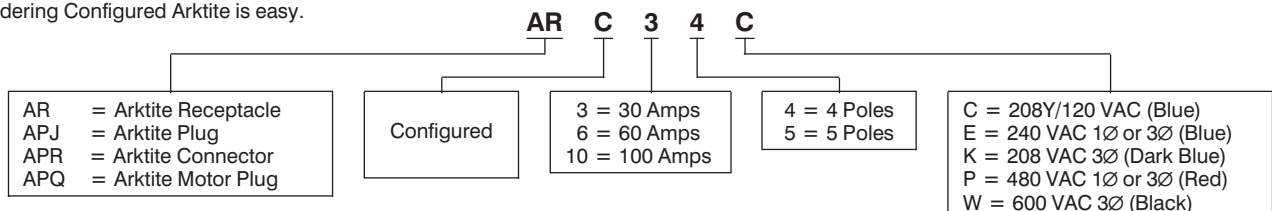
- Voltage – 600 VAC; 60 to 400 hertz; 250 VDC
- Amperes – 30, 60, and 100
- Horsepower Rating – same as standard product. See page 969.

Typical Installation:



Catalog Numbering System:

Ordering Configured Arktite is easy.



Features

Grounding contact is bonded to the receptacle housing.

Each plug contact closely fits the opening of its individual arcing chamber.

Large ground contact is keyed by location to prevent mispolarization.

Simple and easy color, part number, and voltage identification

Wrenching surfaces make Configured Arktite connector quick and easy to assemble.

Simple and easy color, part number, and voltage identification

The arc formed by pulling the plug is instantly snuffed in the deep, confined insulated arcing chamber while the plug contact is still a considerable distance inside. The arc cannot travel over to the other side of the circuit or to the housing.

Easily wired interior assemblies in receptacles and plugs.

Grounding contact is bonded to the plug sleeve.

Configured Arktite connectors' gasketing system provides unsurpassed watertight integrity.

All-aluminum UNI-SHELL™ threaded construction provides added strength to withstand extreme physical abuse.

The unique SURE-SEAL™ cable gland provides a complete environmental seal by distributing pressure equally around the circumference of the cable. One size accommodates the complete range of cable diameters.

Configured Arktite's TRI-LOCK™ cable grip has three clamps that tighten around the cable to securely lock it in place, even when subjected to extreme flexing and jerking.

1P**Configured Arktite® Heavy Duty Power Connectors**

Rainproof
30/60 A
600 VAC/250 VDC
60-400 hertz

30 Amp Plugs, Receptacles, Connectors, Motor Plugs

Heavy-Duty
Voltage Polarized
Circuit Breaking
NEMA 3R
Rainproof
UL/CSA

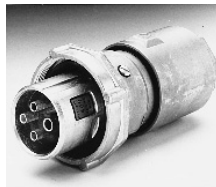


Amps	Poles	Volt Rating	Color	Plug Cat. No.	Receptacle w/Spring Door* Cat. No.
30	4	208 VAC 3Ø	Dark Blue	APJC34K	ARC34K
30	4	240 VAC 3Ø	Blue	APJC34E	ARC34E
30	4	480 VAC 3Ø	Red	APJC34P	ARC34P
30	4	600 VAC 3Ø	Black	APJC34W	ARC34W
30	5	208Y/120 VAC	Blue	APJC35C	ARC35C

Back Box Ordering Information – See pages 990 and 991.

60 Amp Plugs, Receptacles, Connectors, Motor Plugs

Heavy-Duty
Voltage Polarized
Circuit Breaking
NEMA 3R
Rainproof
UL/CSA



Amps	Poles	Volt Rating	Color	Plug Cat. No.	Receptacle w/Spring Door* Cat. No.
60	4	480 VAC 3Ø	Red	APJC64P	ARC64P
60	4	600 VAC 3Ø	Black	APJC64W	ARC64W
60	5	208Y/120 VAC	Blue	APJC65C	ARC65C

Back Box Ordering Information – See pages 990 and 991.

◆ **Configured Interlocks are available. – See page 1027.**



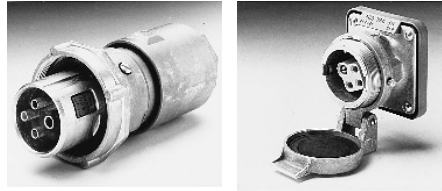
Configured Arktite® Heavy Duty Power Connectors

Rainproof
100 A
600 VAC/250 VDC
60-400 hertz

1P

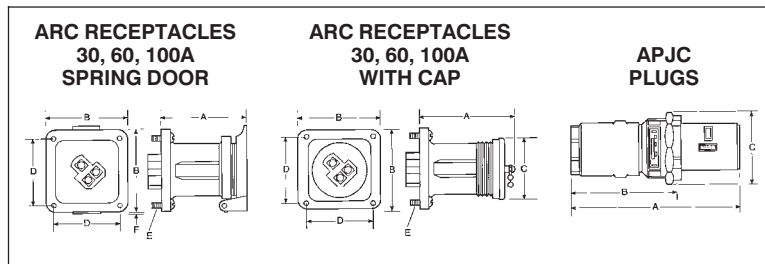
100 Amp Plugs, Receptacles, Connectors, Motor Plugs

Heavy-Duty
Voltage Polarized
Circuit Breaking
NEMA 3R
Rainproof
UL/CSA



Amps	Poles	Volt Rating	Color	Plug Cat. No.	Receptacle w/Spring Door* Cat. No.
100	4	208 VAC 3Ø	Dark Blue	APJC104K	ARC104K
100	4	240 VAC 3Ø	Blue	APJC104E	ARC104E
100	4	480 VAC 3Ø	Red	APJC104P	ARC104P
100	4	600 VAC 3Ø	Black	APJC104W	ARC104W
100	5	208Y/120 VAC	Blue	APJC105C	ARC105C

Dimensions



ARC Receptacles

Amps	Housing	A	B	C	D	E	F
30	Spring door	2 ⁷ / ₈	3 ³ / ₈		2 ²³ / ₃₂	12-24	3/4
30	w/cap	3 ³ / ₁₆	3 ³ / ₈	3	2 ²³ / ₃₂	12-24	
60	Spring door	4 ¹ / ₄	4 ¹ / ₄		3 ¹ / ₂	5/16-18	9/32
60	w/cap	4 ¹ / ₂	4 ¹ / ₄	3 ¹¹ / ₁₆	3 ¹ / ₂	5/16-18	
100	Spring door	5 ¹ / ₄	4 ¹ / ₄		3 ¹ / ₂	5/16-18	13/32
100	w/cap	5 ⁹ / ₁₆	4 ¹ / ₄	3 ⁷ / ₈	3 ¹ / ₂	5/16-18	

APJC Plugs

Amps	A	B	C
30	6 ¹ / ₂	4 ¹³ / ₁₆	2 ¹⁵ / ₁₆
60	8 ¹ / ₂	5 ¹³ / ₁₆	3 ³ / ₄
100	10 ¹ / ₈	6 ⁵ / ₈	4 ¹ / ₈

◆ Configured Interlocks are available. – See page 1027.

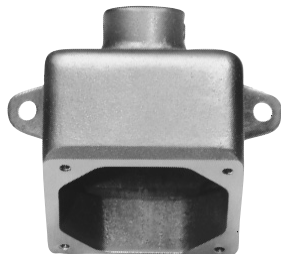


1P Heavy Duty Plugs and Receptacles

1P

AR Back Boxes and Accessories for 20, 30, & 60 A Receptacle Housings

Dimensions Pages 992 and 993



ARE

Hub Size	20/30 A Cat. #	60 A Cat. #
1/2	ARE13	
3/4	ARE23	
1	ARE33	ARE36
1 1/4		ARE46
1 1/2		ARE56



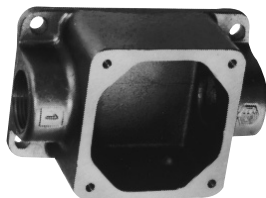
ARRH

Hub Size	20/30 A Cat. #	60 A Cat. #
1/2	ARRH13	
3/4	ARRH23	
1	ARRH33	ARRH36
1 1/4		ARRH46
1 1/2		ARRH56



ARJ

Hub Size	20/30 A Cat. #	60 A Cat. #
1/2	ARJ13	
3/4	ARJ23	
1	ARJ33	ARJ36
1 1/4		ARJ46
1 1/2		ARJ56



ARRC

Hub Size	20/30 A Cat. #	60 A Cat. #
1/2	ARRC13	
3/4	ARRC23	
1	ARRC33	ARRC36
1 1/4		ARRC46
1 1/2		ARRC56



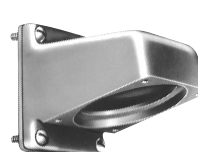
ARD

Hub Size	20/30 A Cat. #	60 A Cat. #
1/2	ARD13	
3/4	ARD23	
1	ARD33	ARD36
1 1/4		ARD46
1 1/2		ARD56



ARJG

Hub Size	20/30 A Cat. #	60 A Cat. #
1/2	ARJG13	
3/4	ARJG23	
1	ARJG33	ARJG36
1 1/4		ARJG46
1 1/2		ARJG56



For ARRH and ARRC back boxes



For steel panel or cabinet

AR 15° Angle Adapter

Mounts On

ARRH and ARRC back boxes

ARRH and ARRC back boxes

Steel panel or cabinet

Takes AR Receptacle Housings

20 and 30 amp.

60 amp.

60 and 100 amp.

Cat. #
AR30

AR60

AR610



Spring Door Assembly

Used With

30 amp, 2, 3 & 4-pole
60 amp, 2 & 3-pole
60 amp, 4-pole
100 amp, 2 & 3-pole
100 amp, 4-pole

Cat. #

QE50
QE51
QE52
QE53
QE54



Cap and Chain

Used With

30 amp, 2, 3 & 4-pole
60 amp, 2 & 3-pole
60 amp, 4-pole
100 amp, 2 & 3-pole
100 amp, 4-pole

Cat. #

QE13
QE32
QE34
QE62
QE64

AJ and AJC Back Boxes with Angle Adapters for 60, 100, 200 & 400 A Receptacle Housings AJX Assemblies and Component Parts For 200 and 400 A Receptacle Housings



AJ Back Box with 60/100 A Angle Adapter



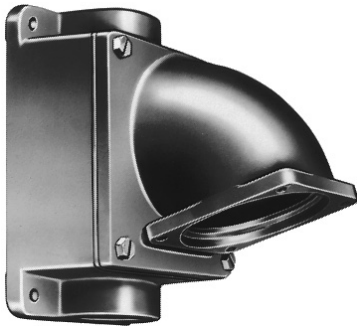
AJ Back Box with 200/400 A Angle Adapter



AJX Assemblies

Back Box with Angle Adapter, 3 Blank Plates and 1 Hub Plate

Hub Size	400 A Cat. #
2	AJX69
2½	AJX79
3	AJX89
3½	AJX929
4	AJX9210
5	AJX9212



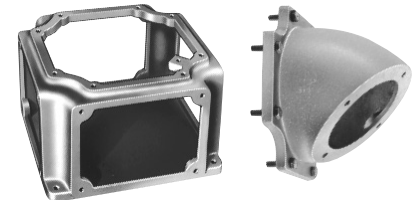
AJC Back Box with 60/100 A AJA Angle Adapter



AJC Back Box with 200 A Angle Adapter

AJX Component Parts

For use in making up assemblies with arrangements of hub plates (4 required) other than those listed.



Back Box

400 A Cat. # AJX99

Angle Adapter

400 A Cat. # AJ245



Hub Plate

Hub Size	400 A Cat. #
2	YYP96
2½	YYP97
3	YYP98
3½	YYP99
4	YYP910
5	YYP9012



Blank Plate

400 A Cat. # YYP900

AJ and AJC Back Boxes[†]

HUB SIZE	TYPE	60 & 100A		200A		400A	
		BOX ONLY	BOX & ADAPTER ASSEMBLY	BOX ONLY	BOX & ADAPTER ASSEMBLY	BOX ONLY	BOX & ADAPTER ASSEMBLY
1"	ONE HUB	AJ56*	AJ37				
	FEED THRU	AJC56*	AJC37				
1¼"	ONE HUB	AJ56*	AJ47				
	FEED THRU	AJC56*	AJC47				
1½"	ONE HUB	AJ56	AJ57	AJ71*	AJ58		
	FEED THRU	AJC56	AJC57				
2"	ONE HUB	AJ66	AJ67	AJ71*	AJ68	AJ82*	AJ69
	FEED THRU	AJC66	AJC67				
2½"	ONE HUB			AJ71	AJ78	AJ82*	AJ79
	FEED THRU			AJC71	AJC78		
3"	ONE HUB					AJ82	AJ89
	FEED THRU						
ANGLE ADAPTER		AJA6		AJA1		AJA2	

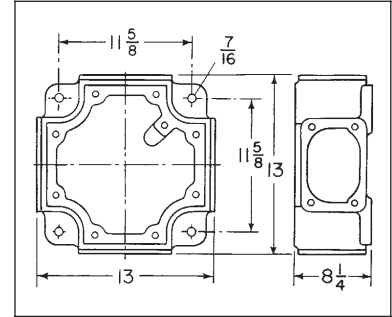
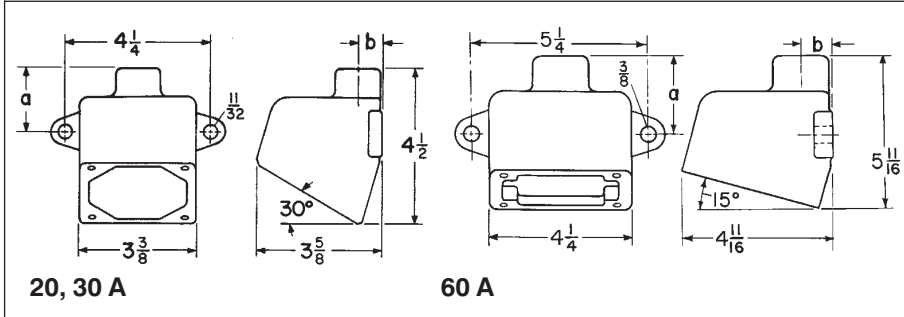
*REDUCER SUPPLIED WITH ASSEMBLY

† AJ and AJC back boxes are square, making it possible to install with hub in several positions.

‡ Use AJ69, AJ79 or AJ89 for cables up to 2 - #350MCM, 3 - #300MCM or 4 - #250MCM. For larger cables, use AJX69, etc., listed under assemblies.

1P Back Boxes

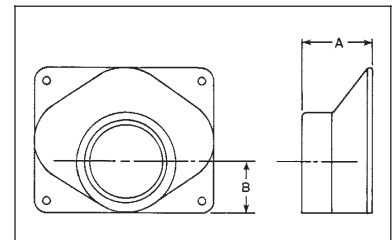
Dimensions



ARE

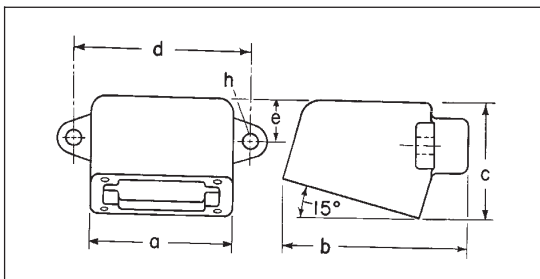
Cat. #	Rating	Size	a	b
13	20, 30A	1/2	1 ²⁷ / ₃₂	1 ¹ / ₁₆
23	20, 30A	3/4	1 ²⁷ / ₃₂	1 ³ / ₁₆
33	20, 30A	1	1 ³¹ / ₃₂	1 ⁵ / ₁₆
36	60 A	1	2 ⁹ / ₁₆	1 ⁵ / ₁₆
46	60 A	1 1/4	2 ⁵ / ₈	1 ³ / ₁₆
56	60 A	1 1/2	2 ¹¹ / ₁₆	1 ⁵ / ₁₆

AJX Back Body 400 Amperes



Hub Plate

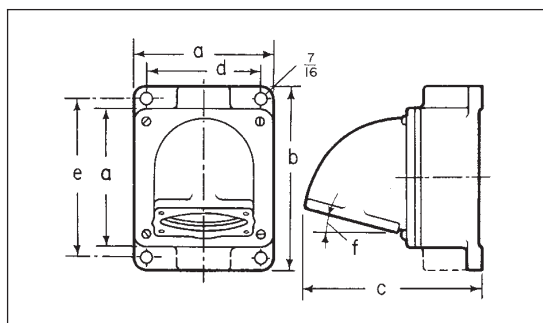
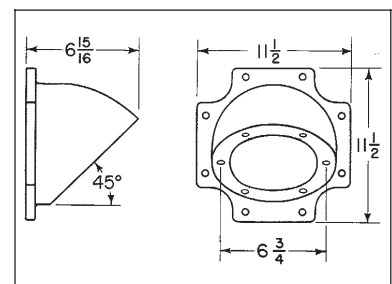
	Hub Size	"A"	"B"
YYP96	2	3 ³ / ₄	1 ¹¹ / ₁₆
YYP97	2 1/2	3 ⁷ / ₈	2 ⁹ / ₁₆
YYP98	3	3 ⁷ / ₈	2 ⁹ / ₁₆
YYP99	3 1/2	3 ⁷ / ₈	2 ⁹ / ₁₆
YYP910	4	3 ⁷ / ₈	2 ¹³ / ₁₆
YYP9012	5	4 ⁵ / ₈	3 ⁷ / ₁₆



ARJG

Cat. #	Rating	Size	a	b	c	d	e	h Dia.
13	20, 30A	1/2	3 ³ / ₈	4 ¹⁵ / ₃₂	2 ³ / ₄	4 ¹ / ₄	1 ³ / ₈	1 ¹ / ₃₂
23	20, 30A	3/4	3 ³ / ₈	4 ¹⁵ / ₃₂	2 ³ / ₄	4 ¹ / ₄	1 ³ / ₈	1 ¹ / ₃₂
33	20, 30A	1	3 ³ / ₈	4 ¹⁹ / ₃₂	2 ³ / ₄	4 ¹ / ₄	1 ³ / ₈	1 ¹ / ₃₂
36	60 A	1	4 ¹ / ₄	5 ⁵ / ₈	4 ¹¹ / ₁₆	5 ¹ / ₄	1 ⁵ / ₈	3 ³ / ₈
46	60 A	1 1/4	4 ¹ / ₄	5 ¹¹ / ₁₆	4 ¹¹ / ₁₆	5 ¹ / ₄	1 ⁵ / ₈	3 ³ / ₈
56	60 A	1 1/2	4 ¹ / ₄	5 ³ / ₄	4 ¹¹ / ₁₆	5 ¹ / ₄	1 ⁵ / ₈	3 ³ / ₈

AJ Angle Adapter



AJ and AJC

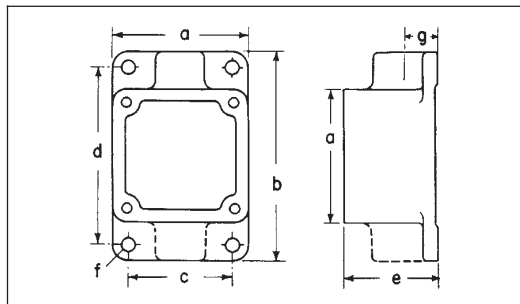
With 60, 100, 200 and 400 Ampere Angle Adapters

Cat. #	Rating	Size	a	b	c	d	e	f
37, 47, 57	60, 100 A	1, 1 1/4, 1 1/2	5 ⁷ / ₈	8	7 ⁷ / ₁₆	4 ⁷ / ₈	7	15°
67	60, 100A	2	5 ⁷ / ₈	8	8	4 ⁷ / ₈	7	15°
58, 68, 78	200 A	1 1/2, 2, 2 1/2	8	10 ³ / ₄	9 ⁷ / ₈	6 ³ / ₄	9 1/2	45°
69, 79, 89	400 A	2, 2 1/2, 3	9	11 ⁵ / ₈	11 ¹³ / ₁₆	7 ³ / ₄	10 ³ / ₈	45°

Back Boxes

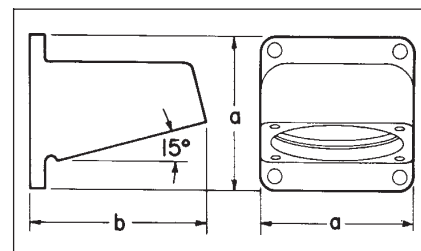
1P

Dimensions



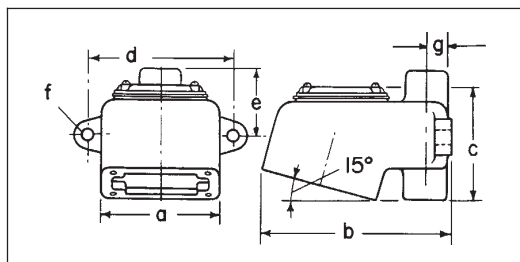
ARRC and ARRH

Cat. #	Rating	Size	a	b	c	d	e	f Dia.	g
13	20/30 A	1/2	3 3/8	5 5/16	2 5/8	4 9/16	2 1/4	1 1/32	1 1/16
23	20/30 A	3/4	3 3/8	5 5/16	2 5/8	4 9/16	2 1/4	1 1/32	1 3/16
33	20/30 A	1	3 3/8	5 5/16	2 5/8	4 9/16	2 1/4	1 1/32	1 5/16
36	60 A	1	4 1/4	6 1/2	3 1/2	5 3/4	3 1/8	7/16	1 3/8
46	60 A	1 1/4	4 1/4	6 1/2	3 1/2	5 3/4	3 1/8	7/16	1 3/8
56	60 A	1 1/2	4 1/4	6 1/2	3 1/2	5 3/4	3 1/8	7/16	1 3/8



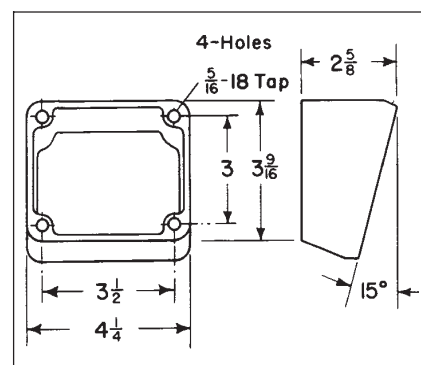
AR30 and AR60 Angle Adapters

Cat. #	Rating	a	b
AR30	20/30 A	3 3/8	4 1/8
AR60	60 A	4 1/4	4 15/16

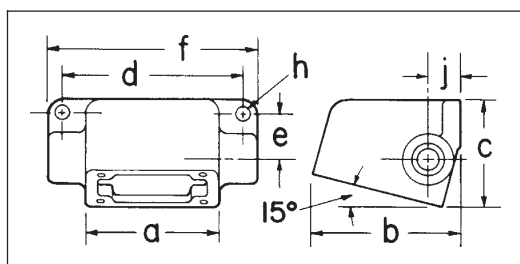


ARD

Cat. #	Rating	Size	a	b	c	d	e	f Dia.	g
13	20/30 A	1/2	3 3/8	5 5/16	3 23/32	4 1/4	1 27/32	1 1/32	1 1/16
23	20/30 A	3/4	3 3/8	5 5/16	3 23/32	4 1/4	1 27/32	1 1/32	1 3/16
33	20/30 A	1	3 3/8	5 5/16	3 23/32	4 1/4	1 27/32	1 1/32	1 5/16
36	60 A	1	4 1/4	7 1/16	5 3/4	5 1/8	2 3/4	3/8	1 5/16
46	60 A	1 1/4	4 1/4	7 1/16	5 3/4	5 1/8	2 3/4	3/8	1 5/16
56	60 A	1 1/2	4 1/4	7 1/16	5 3/4	5 1/8	2 3/4	3/8	1 5/16



AR610 Angle Adapter



ARJ

Cat. #	Rating	Size	a	b	c	d	e	f	h Dia.	j
13	20/30 A	1/2	3 3/8	3 3/8	2 3/4	4 3/8	1 7/32	5 5/16	1 1/32	1 5/16
23	20/30 A	3/4	3 3/8	3 3/8	2 3/4	4 5/8	1 7/32	5 5/16	1 1/32	1 5/16
33	20/30 A	1	3 3/8	3 3/8	2 3/4	4 5/8	1 7/32	5 5/16	1 1/32	1 5/16
36	60 A	1	4 1/4	4 1 1/16	4 1 1/16	5	1 23/32	6 3/8	3/8	1 5/16
46	60 A	1 1/4	4 1/4	4 1 1/16	4 1 1/16	5	1 23/32	6 3/8	3/8	1 5/16
56	60 A	1 1/2	4 1/4	4 1 1/16	4 1 1/16	5	1 23/32	6 3/8	3/8	1 5/16

1P

AR Arktite® Circuit Breaking Round Flange Receptacle Housings for Panel Mounting

Application:

AR round flange receptacle housings are designed specifically for semi-flush mounting in sheet metal panels or cabinets.

Features:

- Back boxes are not needed for these receptacle assemblies.
- Where wiring behind a panel is exposed and subject to either mechanical injury or contact by personnel, suitable shields or guards should be provided.

Standard Materials:

- Receptacle housings – copper-free aluminum
- Plug exteriors – copper-free aluminum
- Insulation: 30, 60, 100, 200 ampere – fiberglass-reinforced polyester
- Pressure and solder contacts – brass
- Crimp/solder contacts – leaded red brass

Standard Finishes:

- Copper-free aluminum – natural
- Brass – natural
- Fiberglass-reinforced polyester – natural (red)
- Leaded red brass – electro-tin-plate

Options:

Available with these assemblies are:

- Reversed interiors (add suffix S22 to Cat. No.)
 - Special polarity (add suffix S4 to Cat. No.)
- See page 968 for details.

Certifications and Complies:

- UL Standard: 1682

NOTE: For general information on application, features and grounding, see pages 966 to 969.



AR Receptacle housings with round flange and threaded cap



APJ Plugs with cable grip, Neoprene bushing and fastening ring



AP Plugs with cable grip, Neoprene bushing and fastening ring

AR Arktite® Circuit Breaking Round Flange Receptacle Housings for Panel Mounting With Threaded Cap

Weatherproof

1P

30/60/100/200 A, 600 VAC/250 VDC, AP and APJ Plugs

Amps	Style ‡	Description	Recept. Cat. #	Cable Dia.	Plug Cat. #
30	1	3-wire, 3-pole } *	AR6337	0.60 to 1.20	APJ3375
		4-wire, 4-pole } *	AR6347	0.60 to 1.20	APJ3475
	2	3-wire, 4-pole } *	AR6348	0.60 to 1.20	APJ3485
60	1	3-wire, 3-pole } *	AR6637	0.75 to 1.45	APJ6375
		4-wire, 4-pole } *	AR6647	0.75 to 1.45	APJ6475
	2	3-wire, 4-pole } *	AR6648	0.75 to 1.45	APJ6485
100	1	3-wire, 3-pole } *	AR61037	1.00 to 1.70	APJ10377
		4-wire, 4-pole } *	AR61047	1.00 to 1.70	APJ10477
	2	3-wire, 4-pole } *	AR61048	1.00 to 1.70	APJ10487
200	1	3-wire, 3-pole } *	AR62031 ♦	.875 to 1.375	AP20355
				1.875 to 2.500	AP20358
	2	2-wire, 3-pole } *	AR62032 ♦	.875 to 1.375	AP20365
				1.875 to 2.500	AP20368

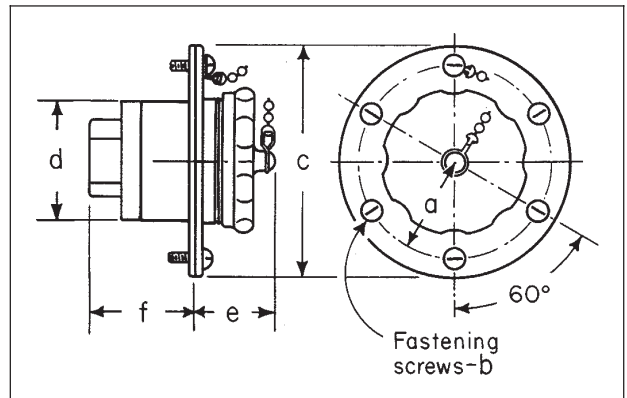
‡ Style 1 – Grounded through shell. Style 2 – Grounded through extra pole and shell.

♦ 200 ampere size is provided with clamp cover.

* Pressure connectors are standard. Crimp/solder type terminators are optionally available for 2, 3 and 4-pole 30 ampere, 3 and 4-pole 60 and 100 ampere. For details, see table on page 969. To specify, add the suffix "T" to the catalog number. For example:

APJ3375-T (Plug) AR6337-T (Receptacle)

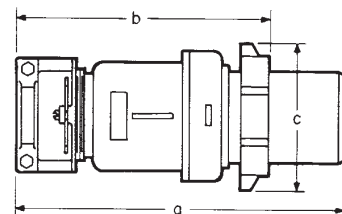
Dimensions



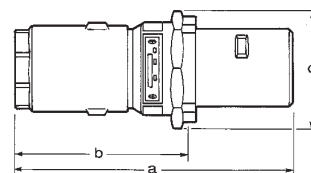
AR Round Flange Receptacles

Description	a	b	c	d	e	f
30 amp. 2, 3, 4-pole	2	12-24	4¾	27/16	1½	2¼
60 amp. 2, 3-pole	2	12-24	4¾	21¾/16	17/8	3¾
60 amp. 4-pole	2	12-24	4¾	31/8	17/8	3¾
100 amp. 2, 3-pole	2	12-24	4¾	31/16	17/8	49/16
100 amp. 4-pole	2	12-24	4¾	35/16	17/8	49/16
200 amp. 3-pole	3¾	¾-16	7¾	43/16	27/8	51/8

AP 200A Plugs



APJ 30, 60 and 100A Plugs



Amps	No. Poles	a	b	c
30	2, 3 or 4	6½	41¾/16	215/16
60	2 or 3	8½	5¾	35/8
60	4	8½	513/16	3¾
100	2 or 3	101/8	69/16	3¾
100	4	101/8	65/8	41/8
200	3	14¾	1011/16	6¾

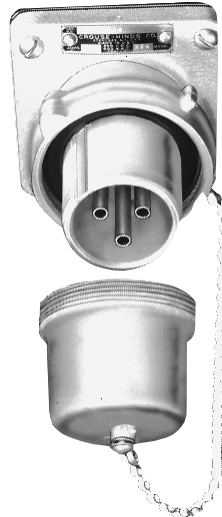
† These dimensions are approximate and vary with cable size.

Application:

APQ motor plugs are used:
 ● on portable electric equipment

Features:

- Eliminates problem of storing and protecting a long length of portable cord and plug on portable device
- Connection to fixed receptacle used as power source is made with cord sets which may be hung on wall, out of the way
- Cord sets are made up using an APR receptacle at one end and an APJ plug at the other
- Cord sets may be used singly or connected together to provide longer lengths when needed
- With spare cord sets on hand, portable equipment may be kept in service while normal cord replacement is being made
- Where design of portable equipment permits, APQ motor plugs can be attached directly to a sheet metal panel or cabinet
- May be mounted on AR and AJ back boxes for conduit connection
- See typical installation diagram on page 997



APQ Motor plugs with square flange, gaskets, fastening ring, and exposed contacts.



APR Cable connector receptacles with cable grip, Neoprene bushing, and protected contacts.



APJ Plugs with cable grip, Neoprene bushing, exposed contacts, and fastening ring.

Standard Materials:

- Motor plugs: mounting plate – *Feraloy*®, Iron Alloy; protective sleeve – copper-free aluminum
- Plug and receptacle exteriors – copper-free aluminum
- Back boxes – copper-free aluminum
- Insulation – fiberglass-reinforced polyester
- Pressure and solder contacts – brass
- Crimp/solder contacts – leaded red brass

Standard Finishes:

- *Feraloy* – electrogalvanized and aluminum acrylic paint
- Copper-free aluminum – natural
- Brass – natural
- Fiberglass-reinforced polyester – natural (red)
- Leaded red brass – electro-tin-plate

Options:

Available with these assemblies:
 ● Special polarity (add suffix S4 to Cat. No.)
 See page 968 for details.

Certifications and Compliances:

- UL Standards: 514, 1682
 - CSA Standard C22.2 No. 182.1
- NOTE: For general information on application, features and grounding, refer to pages 966 to 969.

‡ Style 1 – Grounded through shell.
 Style 2 – Grounded through extra pole and shell.

* Pressure connectors are standard. Crimp/solder terminators are optionally available for 2, 3 and 4 pole 30 ampere, 3 and 4-pole 60 and 100 ampere. For details, see page 969. To specify, add the suffix "T" to the catalog number. For example: APR3355-T (Connector) APJ3375-T (Plug)

** For use on systems less than 60 hertz the receptacles, plugs and connectors are for disconnect use only.

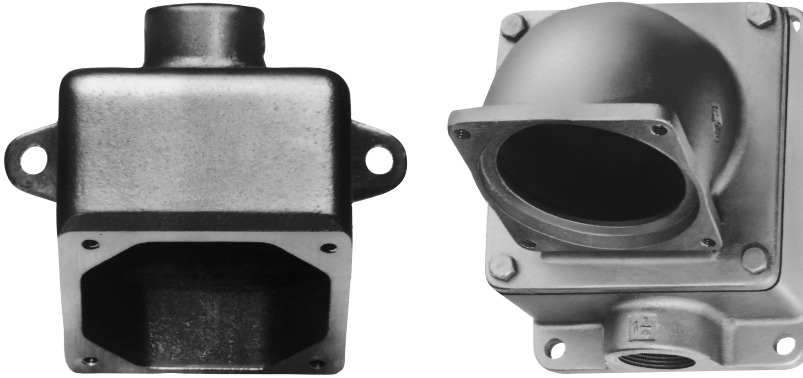
Amps	Style‡	Description	Plug Cat. #	Cable Dia.	Cable Connector Receptacle Cat. #	Motor Plug Cat. #	
30	1	2-wire, 2-pole } *	APJ3275	0.60 to 0.88 0.87 to 1.02	APR3253 APR3255	APQ327	
		3-wire, 3-pole } *	APJ3375	0.60 to 0.88 0.87 to 1.02	APR3353 APR3355	APQ337	
	2	4-wire, 4-pole } *	APJ3475	0.60 to 0.88 0.87 to 1.02	APR3453 APR3455	APQ347	
		2-wire, 3-pole } *	APJ3385	0.60 to 0.88 0.87 to 1.02	APR3363 APR3365	APQ338	
	60	1	3-wire, 4-pole } *	APJ3485	0.60 to 0.88 0.87 to 1.02	APR3463 APR3465	APQ348
			2-wire, 2-pole } *	APJ6275	0.75 to 0.88 0.87 to 1.37	APR6253 APR6255	APQ627
2		3-wire, 3-pole } *	APJ6375	0.75 to 0.88 0.87 to 1.37	APR6353 APT6355	APQ637	
		4-wire, 4-pole } *	APJ6475	0.75 to 0.88 0.87 to 1.37	APR6453 APR6455	APQ647	
100		1	2-wire, 3-pole } *	APJ6385	0.75 to 0.88 0.87 to 1.37	APR6363 APR6365	APQ638
			3-wire, 4-pole } *	APJ6485	0.75 to 0.88 0.87 to 1.37	APR6463 APR6465	APQ648
100	1	2-wire, 2-pole } *	APJ10277	1.00 to 1.38 1.37 to 1.50	APR10255 APR10257	APQ1027	
		3-wire, 3-pole } *	APJ10377	1.00 to 1.38 1.37 to 1.50	APR10355 APR10357	APQ1037	
	2	4-wire, 4-pole } *	APJ10477	1.00 to 1.38 1.37 to 1.50	APR10455 APR10457	APQ1047	
		2-wire, 3-pole } *	APJ10387	1.00 to 1.38 1.37 to 1.50	APR10365 APR10367	APQ1038	
	1	2	3-wire, 4-pole } *	APJ10487	1.00 to 1.38 1.37 to 1.50	APR10465 APR10467	APQ1048

Typical Back Boxes

Weatherproof

1P

For APQ Arktite® Circuit Breaking Motor Plugs



Typical back boxes used with APQ motor plugs

ARE

For APQ 30 Amp.

Hub Size	Cat. #
1/2	ARE13
3/4	ARE23
1	ARE33

For APQ 60 Amp.

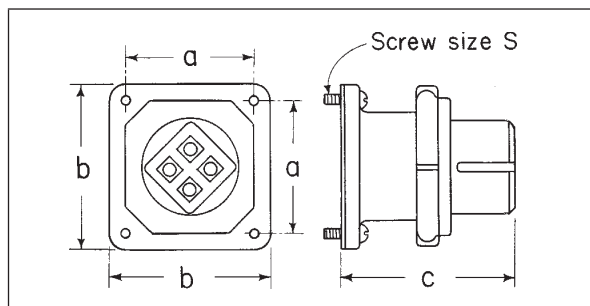
Hub Size	Cat. #
1	ARE36
1 1/4	ARE46
1 1/2	ARE56

AJ

For APQ 60 and 100 Amp.

Hub Size	Cat. #
1	AJ37
1 1/4	AJ47
1 1/2	AJ57
2	AJ67

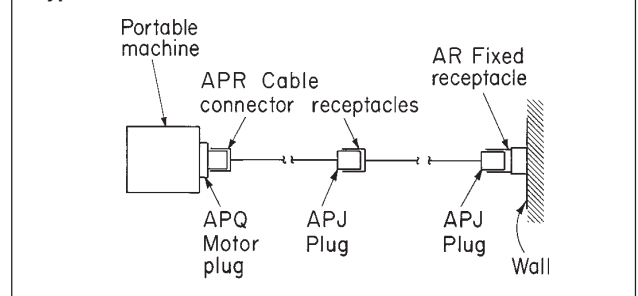
Dimensions



APQ Motor Plugs

Amps.	a	b	c	s
30	2 3/4	3 3/8	3 5/8	12-24
60	3 1/2	4 1/4	4 7/8	5/16-18
100	3 1/2	4 1/4	6 1/8	5/16-18
(2 & 3-pole)				
100	3 1/2	4 1/4	6 7/16	5/16-18
(4-pole)				

Typical installation



For additional back box listings, see pages 990 and 991. For back box dimensions, see pages 992 and 993.