Arktite heavy duty circuit breaking plugs and receptacles

Industrial heavy duty
Non-hazardous areas

Applications:

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 100 ampere rating may be disconnected under load; 150-400 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 mismate, 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, making it possible to feed a normally de-energized receptacle from an energized plug with usual Arktite safety; no energized contacts are exposed

Certifications and compliances:

- UL standards: UL1203[A], UL1682, UL1686
- CSA standard: C22.2 No. 182.1
- CE (LVD) 2006/95/EEC[B]



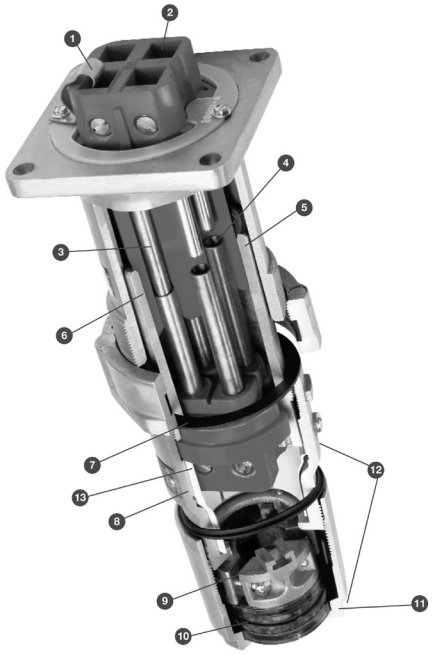
[A] APJ and NPJ plugs only.

[B] Excludes 200A and 400A APR connectors.

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Arktite heavy duty circuit breaking plugs and receptacles

Industrial heavy duty
Non-hazardous areas



Split pin contact design:



- Provides nearly 360° of contact at every insertion, ensuring protection against heat rise and eliminating arcing on critical surfaces
- Continuous contact over length and circumference of mated pins provides superior safety and long-term performance
- Self-wiping at every insertion to prevent environmental contamination build-up

The additional features below are called out in the illustration on this page:

1. The ground contact is bonded to the receptacle housing (Style 2).
2. Unimpeded, easy access phase and ground terminals make wire termination quick and easy.
3. Grounding contacts that make first and break last in the unlikely event of keyway failure.
4. An arc formed when the plug is being removed is instantly snuffed in the deep confined insulated arcing chamber.
5. A detent spring forms a parallel grounding path through the metallic plug sleeve and receptacle housing and is the first contact to make and the last to break.
6. The plug sleeve is keyed to the receptacle to prevent mispolarization.
7. The gasketing system provides unsurpassed watertight integrity (NEMA 4).
8. All aluminum Uni-Shell™ construction provides superior strength in abusive environments.
9. The Tri-Lock™ cable grip has three-piece design that equally distributes gripping power around perimeter of cable. Cord jacket does not get pinched, eliminating potential for damage to both internal conductors and external cable jacket. Cable grip is located inside plug housing, eliminating corrosion of vital hardware and making plug maintenance easy.
10. The unique Sure-Seal™ cable gland has two gasket sizes which fit entire range of cable diameters, reducing risk of improper assembly. The gasket ratchets into the Tri-Lock cable grip to prevent plug from turning or loosening in high vibration areas.
11. Wrenching surfaces make Arktite plugs quick and easy to assemble.
12. Smooth and contoured design of plug housing eliminates occurrence of cable grip snagging or breaking off. Tri-Lock screws are captive so cable grip cannot come apart during assembly. Prevents critical screws from getting lost during installation.
13. Plastic sleeve between insulator body and housing minimizes possibility of electrical shock in event of ground failure. Increases creepage and clearance protection.

Arktite advantage features:

Internal plug safety insulator

- Plastic barrier between insulator body and metal housing minimizes risk of energizing handle body due to stray conductor strands
- Increases creepage and clearance protection



CE marked

- Offers a borderless solution with no additional inspection or documentation required for approval



Lockout plug

- Allows users to comply with OSHA lockout/tagout requirements
- Ensures plug cannot be inserted into receptacle when maintenance is being performed downstream of power supply



Tri-Lock cable grip

- Three-piece design equally distributes grip around perimeter of cable
- Cable jacket does not get pinched, eliminating potential for damage to internal conductors
- Captive screws allow maximum extension of cord grip without risk of loose components



Sure-Seal cable gland

- Two gasket sizes fit entire cable range, reducing risk of improper assembly
- Gasket ratches into Tri-Lock cable grip to provide environmental protection in high vibration areas



Plug housing

- Smooth design eliminates occurrence of cable grip snagging or breaking off
- Houses Tri-Lock cable grip to eliminate corrosion of vital hardware and increase ease of maintenance



Combination drive stainless steel hardware

- Increases ease of installation by allowing for more than one option for installation tools
- Stainless steel external hardware eliminates corrosion on critical components and extends product life



Insulator assemblies

- Unimpeded, easy access phase and ground terminals make wire termination quick and easy
- Lug screws secured with tape to prevent them from vibrating loose and falling out during shipping



Combination slot and hex mechanical lugs[C]

- Increases ease of installation by allowing for more than one option for installation tools
- Hex head allows for easy achievement of specified torque value



Receptacle cover

- Automatic weatherproof seal every time plug is disengaged
- Field replaceable design allows for new cover to be threaded on quickly and easily



[C] 60, 100 and 150A offering.

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Arktite heavy duty circuit breaking plugs and receptacles

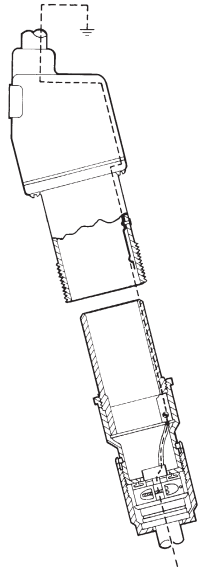
Industrial heavy duty
Non-hazardous areas

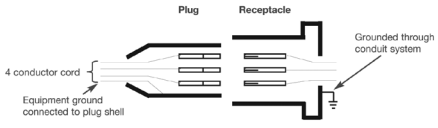
Grounding – Style 1 vs. Style 2:

Eaton's Crouse-Hinds series Arktite devices utilize two methods, or styles, for completing the grounding circuit in plugs and receptacles. NEC reference 250.138 (A) and (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.



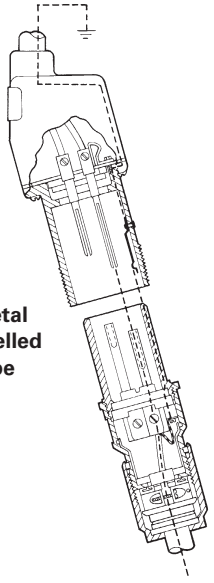




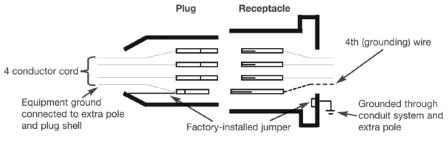
Style 1 ground conductor attaches to shell

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

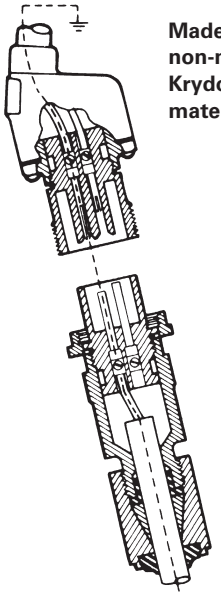




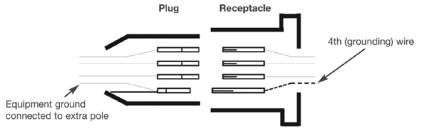
Style 2 ground conductor attaches to contact, which is bonded to shell

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



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Arktite heavy duty circuit breaking[D] plugs and receptacles

Industrial heavy duty
Non-hazardous areas

Standard materials:

- Metallic receptacle housings, plug and cord connector bodies – high impact strength copper-free aluminum
- Non-metallic receptacles, plugs and cord connectors – Krydon® fiberglass-reinforced polyester
- Back boxes (20, 30, 60, 100, 150, 200 amperes) – cast aluminum; 400 amperes – Feraloy iron alloy
- Insulation (metallic products) (2-, 3-, 4-pole) 30, 60, 100, 200, 400 amperes – fiberglass-reinforced polyester; 20, 30 amperes (5-pole) – melamine
- Contacts: pressure, solder, binding screw – brass; crimp/solder 20, 30, 60, 100 amperes – leaded red brass; crimp/solder 150, 200, 400 amperes – telurium copper

Standard finishes:

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

Options:

Description **Suffix**

- Reverse service **S22**

  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 30A-400A units

- Special polarity..... **S4**

  Receptacle interior rotated 22½° to right and plug changed to match (see photo at right)

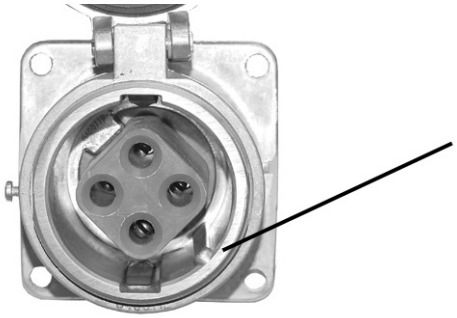
  For use where two or more receptacles of the same ampere rating, style and number of poles are to be installed in the same area for use on different voltages and/or frequencies

  Prevents insertion of a plug in a receptacle with different electrical rating

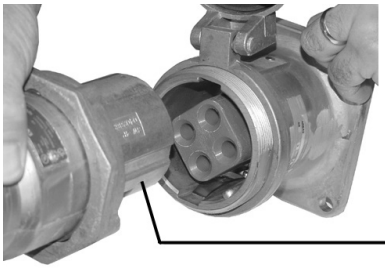
  Available on 20A-400A units

- Corro-free™ epoxy powder finish for added corrosion resistance..... **S752**

  Available on 20A-400A units



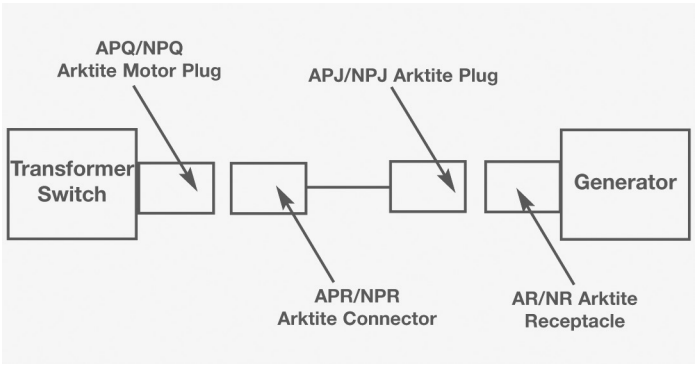
Arktite receptacles have a cast raised rib located inside the receptacle sleeve. The location of the rib is in a specific relationship to the receptacle insulator that houses the contacts.



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

Accessories:

- Accessories include a variety of angle adapters, panel adapters and back boxes for Arktite receptacles (see pages 28-31)
- Included throughout Section 1P are wire mesh cable grips and protective caps for Arktite plugs



Typical installation

[D] 150A, 200A and 400A rated units are for service disconnect use only.

Arktite heavy duty circuit breaking[E] plugs and receptacles

Industrial heavy duty
Non-hazardous areas

Horsepower ratings:

Locked rotor interrupting

Amperage plug and receptacle	Motor horsepower[F] 120V	240V	480V	600V
Single-phase electrical system				
30	2	3	7.5	10
60	5	10	25	20
100	10	20		
200	15	40		
Three-phase electrical system				
30	3	5	10	10
60	10	20	40	50
100	15	30	40	25
200	30	60	25	15

Maximum horsepower for plug and receptacle combinations by input voltage[G]:

The following values are typical horsepower ratings based on NEC Article 430 tables. HP ratings are based on the largest conductor size for each plug and receptacle combination per the wire size table below.

Amperage plug and receptacle	Motor horsepower[H] 240V	480V	600V
30	15	30	40
60	20	40	50
100	30	60	75
150	40	75	100
200	60	125	150

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:

Amperage	Contact type	Diameter of recess	Wire size[I] Building	Extra flex
20	Binding screw	N/A	#14 - #12	#14 - #12
30 (2-, 3-, 4-pole)	Pressure	0.281	#10 - #6	#10 - #8
30 (2-, 3-, 4-pole)	Crimp/solder	0.180	#10 - #8[J]	#10 - #8
30 (5-pole)	Solder	0.188	#12 - #6	#12- #8
60 (2-, 3-, 4-, 5-pole)	Pressure	0.312	#6 - #4	#8 - #4
60 (3-, 4-pole)	Crimp/solder	0.277	#6 - #4[J]	#8 - #4
100 (2-, 3-, 4-pole)	Pressure	0.390	#4 - #1	#4 - #2
100 (3-, 4-pole)	Crimp/solder	0.390	#2 - #1[J]	#2 - #2
150 (4-pole)	Pressure	0.390	#2 - 2/0	#2 - 1/0
200 (3-, 4-pole)	Pressure	0.687	2/0 - 4/0	2/0 - 3/0
200 (Std. 3-, 4-pole)	Crimp/solder	0.560	#1 - 4/0	#1 - 3/0
200 (Lg. 3-, 4-pole)	Crimp/solder	0.750	4/0 - 250MCM	3/0 - 250MCM
400 (Std. 3-, 4-pole)	Crimp/solder	0.840	250 - 500MCM	250 - 400MCM
400 (Lg. 3-, 4-pole)	Crimp/solder	1.250	500 - 1000MCM	400 - 750MCM

[E] 150A, 200A and 400A rated units are for service disconnect use only.

[F] Horsepower ratings are based on Eaton's Crouse-Hinds Division 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.

[G] This guide is for reference only. Consult your local electrical codes before installation.

[H] Eaton's Crouse-Hinds Division does not recommend our plug and receptacle be used for disconnect under load.

[I] Do not use wire size smaller than minimum size recommended.

[J] Smaller sizes may be used with well reducers – information available upon request.

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Arktite heavy duty circuit breaking receptacles, plugs and connectors

20A, 600 VAC/250 VDC, 50Ⓐ-400 Hz

Ordering information:

Receptacles with back box

Configuration	Hub size	Description	Cat. #
2W, 2P	1/2"	Spring door	**ARE2211**
	1/2"	Threaded cap	**ARE2271**
2W, 2P	3/4"	Spring door	**ARE2212**
	3/4"	Threaded cap	**ARE2272**

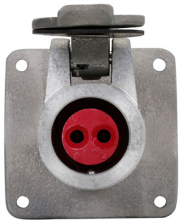




Receptacles

Configuration	Description	Cat. #
2W, 2P	Spring door	**AR221**
	Threaded cap	**AR227**

For applicable 20A back boxes, see page 28.





Plugs

Configuration	Cable dia.	Description	Cat. #
2W, 2P	0.250 - 0.500"	Fastening ring	**APJ2271**
	0.250 - 0.500"	Without fastening ring	**APJ2251**
2W, 2P	0.500 - 0.875"	Fastening ring	**APJ2273**
	0.500 - 0.875"	Without fastening ring	**APJ2253**



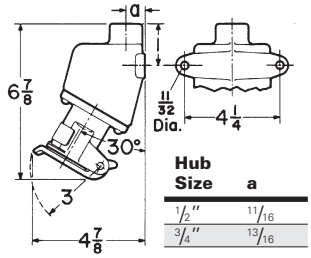


Connectors

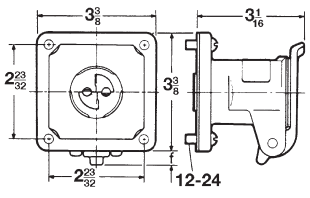
Configuration	Cable dia.	Description	Cat. #
2W, 2P	0.250 - 0.500"	Connector	**APR2251**
	0.500 - 0.850"	Connector	**APR2253**



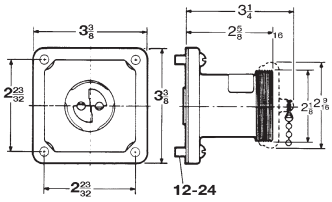
Dimensions (in inches):



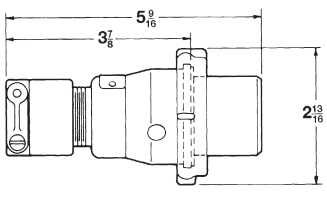
ARE assembly



AR receptacle – spring door



AR receptacle – open and with cap



APJ plug

Ⓐ When used on systems less than 60 Hz, the receptacles, plugs and connectors are for disconnect use only.

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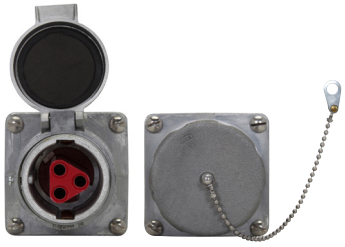
Arktite heavy duty circuit breaking receptacle assemblies and housings

30A, 600 VAC/250 VDC, 50Ⓐ-400 Hz

Ordering information:



Receptacle assembly



Receptacle



Mating plug

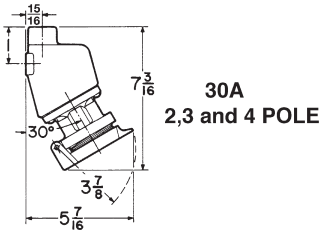


Mating connector

With ARE back boxes			Receptacle housings only		Mating APJ plugsⒶ		Mating APR connectors	
Description	Hub size	Cat. # Spring door	Cat. # Spring door	Cat. # Threaded cap only	Cat. #	Cable dia.	Cat. #	Cable dia.
Style 1								
3-wire, 3-pole	¾″	ARE3312	AR331	AR337	APJ3375	0.39 - 0.875″	APR3355	0.39 - 0.875″
	1″	ARE3313						
4-wire, 4-pole	¾″	ARE3412	AR341	AR347	APJ3475	0.39 - 0.875″	APR3455	0.87 - 1.20″
	1″	ARE3413						
5-wire, 5-pole	1″	ARE3513	AR351		APJ3573	0.500 - 0.875″	APR3553	0.500 - 0.875″
Style 2								
2-wire, 3-pole	¾″	ARE3322	AR332	AR338	APJ3385	0.39 - 0.875″	APR3365	0.39 - 0.875″
	1″	ARE3323						
3-wire, 4-pole	¾″	ARE3422	AR342	AR348	APJ3485	0.39 - 0.875″	APR3465	0.39 - 0.875″
	1″	ARE3423						
4-wire, 5-pole	1″	ARE3523	AR352		APJ3583	0.500 - 0.875″	APR3563	0.500 - 0.875″
					APJ3585	0.875 - 1.375″	APR3565	0.875 - 1.375″

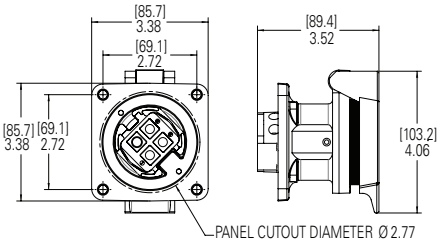
For applicable 30A back boxes, see page 28.

Dimensions (in inches):

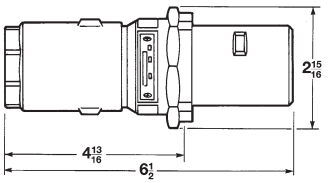


30A
2,3 and 4 POLE

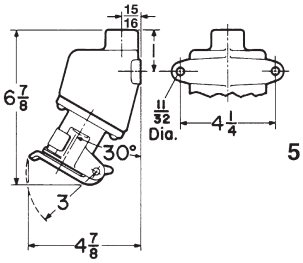
ARE assembly



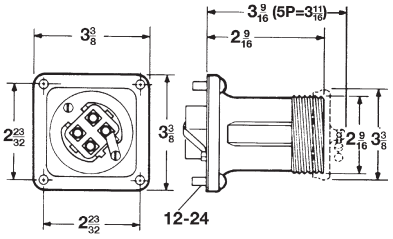
AR receptacle – spring door



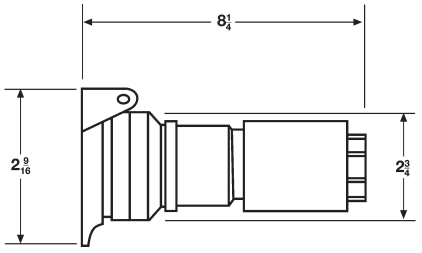
Plug



30 A
5 POLE



AR receptacle – open and with cap



Connector

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

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Arktite heavy duty circuit breaking receptacle assemblies and housings

30A, 600 VAC/250 VDC, 50Ⓑ-400 Hz

CPK plug closure caps



Applications:

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, 150 and 200 ampere plugs with fastening ring and standard 200 ampere plugs for the clamp door housing

Ordering information:

Configuration	Cat. #
2P, 3P, 4P	**CPK13**
5P	**CPK32**

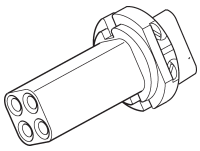
Standard material:

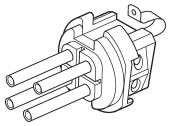
- Copper-free aluminum

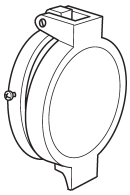
Standard finish:

- Natural

Replacement parts:









Configuration	Cat. # Receptacle interior	Cat. # Plug interior	Cat. # Spring door	Cat. # Screw cap
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 and sleeve contacts:

Description	Cat. # Receptacle	Cat. # Plug
Available as a kit only; 5 phase contacts and 1 ground contact included	**AR30CONKIT**	**AP30CONKIT**

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

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Arktite heavy duty circuit breaking receptacle assemblies and housings

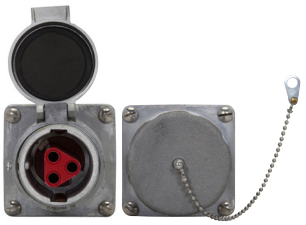
60A, 600 VAC/250 VDC, 50Ⓐ-400 Hz

Ordering information:



Receptacle assembly





Receptacle



Mating plug

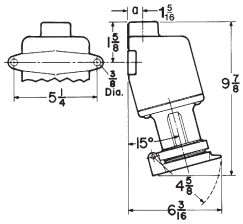


Mating connector

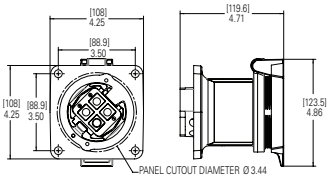
With AJ back boxes and angle adapters				With ARE back boxes	Receptacle housing only		Mating plugs		Mating connectors
Description	Hub size	Cat. # Spring door	Cat. # Threaded cap only	Cat. # Spring door	Cat. # Spring door	Cat. # Threaded cap only	Cable dia.	Cat. #	Cat. #
Style 1									
3-wire, 3-pole	1″	AREA6313		ARE6313	AR631	AR637	0.50 - 1.15″	APJ6375	APR6355
	1¼″	AREA6314		ARE6314					
4-wire, 4-pole	1¼″	AREA6414		ARE6414	AR641	AR647	0.50 - 1.15″	APJ6475	APR6455
	1½″	AREA6415		ARE6415					
5-wire, 5-pole	1¼″		AREA6574			AR657	0.50 - 1.15″	APJ6575	
	1½″		AREA6575						
Style 2									
2-wire, 3-pole	1″	AREA6323		ARE6323	AR632	AR638	0.50 - 1.15″	APJ6385	APR6365
	1¼″	AREA6324		ARE6324					
3-wire, 4-pole	1¼″	AREA6424		ARE6424	AR642	AR648	0.50 - 1.15″	APJ6485	APR6465
	1½″	AREA6425		ARE6425					
4-wire, 5-pole	1¼″		AREA6584			AR658	0.75 - 1.15″	APJ6585	APR6565
	1½″		AREA6585						APR6567

For applicable 60A back boxes, see pages 28-29.

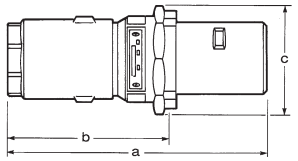
Dimensions (in inches):



ARE assembly

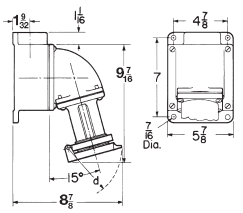


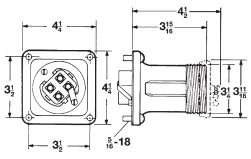
AR receptacle – spring door



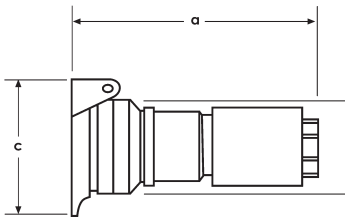
APJ plug

Config.	Plug a	Plug b	Plug c	Connector a	Connector b	Connector c
2P or 3P	8½	5¾	3⅝	6½	3⅝	2 15/16
4P	8½	5 13/16	3¾	8¼	3⅝	2 15/16
5P	9	6 3/16	4 7/16	8¼	3⅝	3¼





AR receptacle – open and with cap



APR connector

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

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Arktite heavy duty circuit breaking receptacle assemblies and housings

60A, 600 VAC/250 VDC, 50Ⓑ-400 Hz

CPK plug closure caps



Applications:

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, 150 and 200 ampere plugs with fastening ring and standard 200 ampere plugs for the clamp door housing

Ordering information:

Configuration	Cat. #
2P, 3P	**CPK32**
4P	**CPK34**

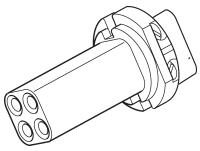
Standard material:

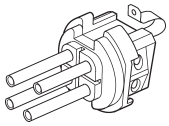
- Copper-free aluminum

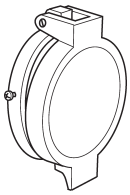
Standard finish:

- Natural

Replacement parts:









Configuration	Cat. # Receptacle interior	Cat. # Plug interior	Cat. # Spring door	Cat. # Screw cap
2W, 3P	**ATP298**	**ATP293**		
3W, 3P	**ATP296**	**ATP291**		
3W, 4P	**ATP299**	**ATP294**	**QE52**	**QE34**
4W, 4P	**ATP297**	**ATP292**		
4W, 5P	**ATP385**	**ATP387**	**N/A**	**AR:11393B**
5W, 5P	**ATP384**	**ATP386**	**N/A**	

Replacement pin and sleeve contacts:

Description	Cat. # Receptacle	Cat. # Plug
Available as a kit only; 5 phase contacts and 1 ground contact included	**AR60CONKIT**	**AP60CONKIT**

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

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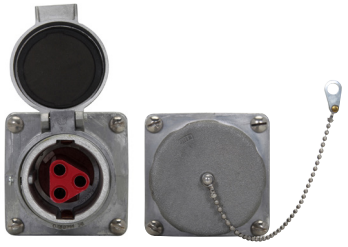
Arktite heavy duty circuit breaking receptacle assemblies and housings

100A and 150A, 600 VAC/250 VDC, 50Ⓐ-400 Hz

Ordering information:



Receptacle assembly



Receptacle



Mating plug

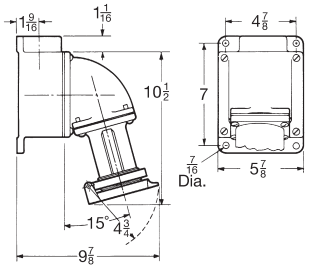


Mating connector

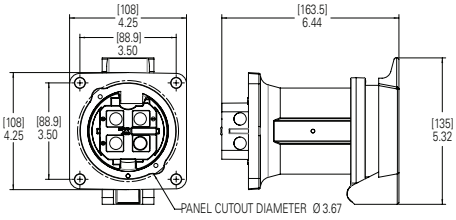
Receptacle assemblies			Receptacle housings only		Mating plugs		Mating connectors
Description	Hub size	Cat. # Spring door	Cat. # Spring door	Cat. # Threaded cap only	Cable dia.	Cat. #	Cat. #
100A – Style 1							
4-wire, 4-pole	1½"	AREA10415	AR1041	AR1047	0.875 - 1.70"	APJ10477	APR10457
	2"	AREA10416					
100A – Style 2							
3-wire, 4-pole	1½"	AREA10425	AR1042	AR1048	0.875 - 1.70"	APJ10487	APR10467
	2"	AREA10426					
150A – Style 2							
3-wire, 4-pole	–	N/A	AR1542	AR1548	0.875 - 1.70"	APJ15487	N/A

For applicable 100A and 150A back boxes, see pages 28-29.

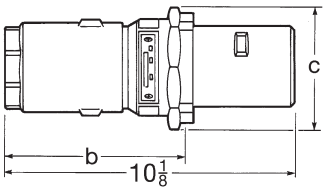
Dimensions (in inches):



ARE assembly



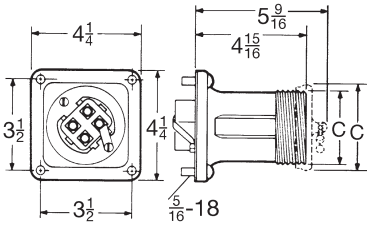
AR receptacle – spring door



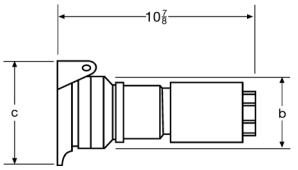
APJ plug

No. of poles	b	c
4	6⅝	4⅛

No. of poles	Housing	c
4	Open	3 7/16
4	With cap	3⅜



AR receptacle – open and with cap



APR connector

No. of poles	b	c
4	3½	3 7/16

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

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Arktite heavy duty circuit breaking receptacle assemblies and housings

100A and 150A, 600 VAC/250 VDC, 50[B]-400 Hz

CPK plug closure caps



Applications:

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, 150 and 200 ampere plugs with fastening ring and standard 200 ampere plugs for the clamp door housing

Ordering information:

Configuration	Cat. #
2P, 3P	**CPK62**
4P	**CPK64**

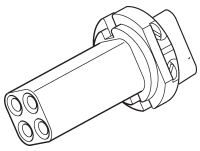
Standard material:

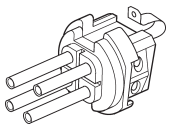
- Copper-free aluminum

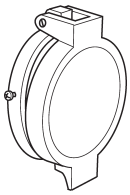
Standard finish:

- Natural

Replacement parts:









Configuration	Cat. # Receptacle interior	Cat. # Plug interior	Cat. # Spring door	Cat. # Screw cap
3W, 3P	**ATP316**	**ATP311**	**QE53**	**QE62**
3W, 4P	**ATP319**	**ATP314**	**QE54**	**QE64**
4W, 4P	**ATP317**	**ATP312**		

Replacement pin and sleeve contacts:

Description	Cat. # Receptacle	Cat. # Plug
Available as a kit only; 5 phase contacts and 1 ground contact included	**AR100CONKIT**	**AP100CONKIT**

[B]For use on systems less than 60 Hz, the receptacles, plugs and connectors are for disconnect use only.

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Arktite heavy duty circuit breaking receptacle assemblies

NEMA 3R

1P

200A, 600 VAC/250 VDC, 50Ⓐ-400 Hz

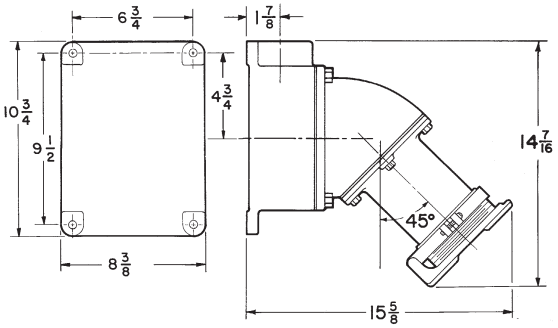
See pages 8-12 for general applications, features, grounding, standard materials and finishes, options, accessories, compliances, electrical rating ranges and wire sizes.

Features:

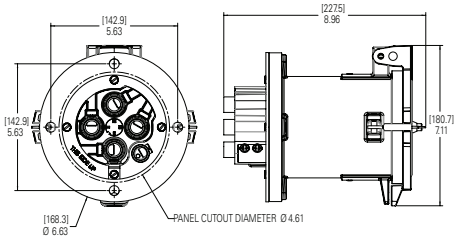
- Grounding contact wire terminators will accommodate ground wire of same size as phase wire
- Spring band contact design provides multiple points of electrical contact; improves electrical reliability and significantly reduces effort required for insertion and withdrawal
- Crimp/solder and mechanical lug type contacts are available
- 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
- Mechanical lug connectors will interchange with crimp/solder connectors of the 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 provides easy installation

1. **For listing of additional back boxes, see page 29.**
2. **S22 suffix for reverse interiors is available from factory only. Field conversion cannot be done.**
3. **Crimp/solder interiors cannot be converted to lug interiors.**
4. **Replacement interiors for standard units vs. S22 units vary in length. Specify the unit type when ordering parts.**

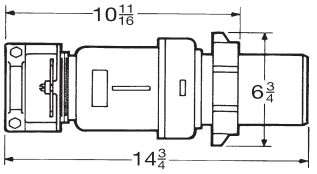
Dimensions (in inches):



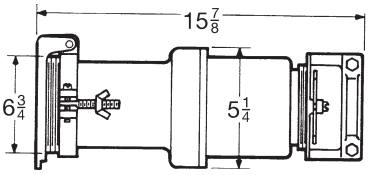
AREA assembly



AR receptacle



AP plug



APR connector

CPK plug closure caps



Applications:

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, 150 and 200 ampere plugs with fastening ring and standard 200 ampere plugs for the clamp door housing

Standard material:

- Copper-free aluminum

Standard finish:

- Natural

Ordering information:

Config.	Cat. #
4P	**CPK104**

Wire mesh grips



Applications:

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 and finish:

- Stainless steel wire braid – natural

Ordering Information:

Plug cable range	Grip range	Nominal grip length (in.)	Cat. #
1.375 - 1.875"	1.375 - 1.625"	8	**K163**
	1.625 - 1.875"	11	**K188**
1.875 - 2.500"	1.875 - 2.000"	10	**K200**
	2.000 - 2.250"	11¾	**K225**

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

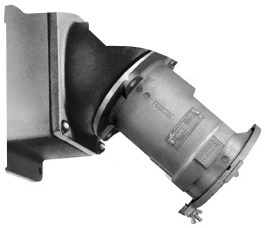
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EATON CROUSE-HINDS SERIES

Arktite heavy duty circuit breaking receptacle assemblies

200A, 600 VAC/250 VDC, 50Ⓑ-400 Hz

Ordering information – mechanical lug termination:



Receptacle assembly



Receptacle with mechanical lug



Mating plug



Mating connector

Receptacle assembly with AJ back boxes and angle adapters			Receptacle housings only		Mating plugs	Mating connectors
Description	**Hub size**	**Cat. #**	**Cat. #**	**Cable dia.**	**Cat. #**	**Cat. #**
Style 1 – wire well takes 0.687" maximum conductor size						
4-wire, 4-pole	2"	**AREAL20416**	**ARL2041**	0.875 - 1.375"	**APL20455**	**APRL20415**
	2½"	**AREAL20417**		1.375 - 1.875"	**APL20457**	**APRL20417**
				1.875 - 2.500"	**APL20458**	**APRL20418**
				2.500 - 3.000"	**APL204513**	**APRL204113**
Style 2 – wire well takes 0.687" maximum conductor size						
3-wire, 4-pole	1½"	**AREAL20425**	**ARL2042**	0.875 - 1.375"	**APL20465**	**APRL20425**
	2"	**AREAL20426**		1.375 - 1.875"	**APL20467**	**APRL20427**
	2½"	**AREAL20427**		1.875 - 2.500"	**APL20468**	**APRL20428**

Ordering information – crimp/solder termination:

Receptacle assembly with AJ back boxes and angle adapters			Receptacle housings only		Mating plugs	Mating connectors
Description	**Hub size**	**Cat. #**	**Cat. #**	**Cable dia.**	**Cat. #**	**Cat. #**
Style 1 – wire well takes 0.56" maximum conductor size						
4-wire, 4-pole	2"	**AREA20416**	**AR2041**	0.875 - 1.375"	**AP20455**	**APR20415**
	2½"	**AREA20417**		1.375 - 1.875"	**AP20457**	**APR20417**
				1.875 - 2.500"	**AP20458**	**APR20418**
Style 1 – wire well takes 0.75" maximum conductor size						
4-wire, 4-pole	2"	**AREA204126**	**AR20412**	1.375 - 1.875"	**AP204511**	**APR204111**
	2½"	**AREA204127**		1.875 - 2.500"	**AP204512**	**APR204112**
				2.500 - 3.000"	**AP204513**	**APR204113**
Style 2 – wire well takes 0.56" maximum conductor size						
3-wire, 4-pole	1½"	**AREA20425**	**AR2042**	0.875 - 1.375"	**AP20465**	**APR20425**
	2"	**AREA20426**		1.375 - 1.875"	**AP20467**	**APR20427**
	2½"	**AREA20427**		1.875 - 2.500"	**AP20468**	**APR20428**
Style 2 – wire well takes 0.75" maximum conductor size						
3-wire, 4-pole	1½"	**AREA204225**	**AR20422**	1.375 - 1.875"	**AP204611**	**APR204211**
	2"	**AREA204226**		1.875 - 2.500"	**AP204612**	**APR204212**
	2½"	**AREA204227**				

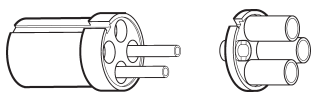
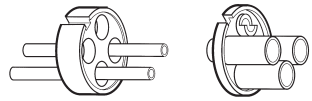
ⒷFor use on systems less than 60 Hz, the receptacles, plugs and connectors are for disconnect use only.

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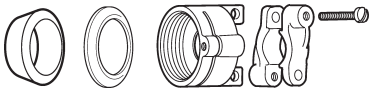
Arktite heavy duty circuit breaking receptacle assemblies

200A, 600 VAC/250 VDC, 50©-400 Hz

Replacement parts:

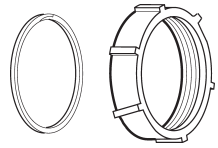




Configuration	Receptacle interior Cat. # 0.56" wire well	Receptacle interior Cat. # 0.75" wire well	Plug interior Cat. # 0.56" wire well	Plug interior Cat. # 0.75" wire well	Brass retaining shoe Cat. # 0.56" wire well	Brass retaining shoe Cat. # 0.75" wire well
200A standard and S4						
3W, 4P	**ATP403**	**ATP404**	**ATP435**	**ATP436**	**0490337**	**0490337**
4W, 4P	**ATP399**	**ATP400**	**ATP431**	**ATP432**	**0490331**	**0490332**
200A ST22 and S4 S22						
3W, 4P	**ATP419**	**ATP420**	**ATP451**	**ATP452**	**0490337**	**0490337**
4W, 4P	**ATP415**	**ATP416**	**ATP447**	**ATP448**	**0490331**	**0490332**



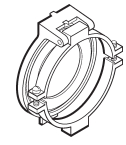
Cord grip assembly

Cord dia. range	Cat. #
0.875 - 1.375"	**AP2 KIT1 M80**
1.375 - 1.875"	**AP2 KIT2 M80**
1.875 - 2.500"	**AP2 KIT3 M80**



Plug clamp nut

Config.	Cat. #
2W, 3P	**AP:0401965**
3W, 3P	
2W, 3P	**AP:0401964**
3W, 4P	

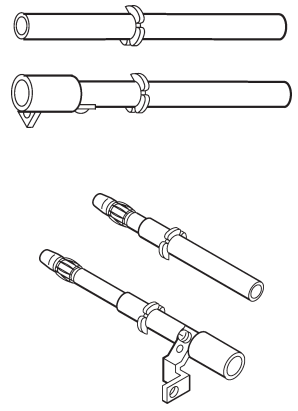


Recept. spring door

Cat. #
AR:0401502-2
AR:0401502-1

Replacement pin and sleeve contacts:

Type	Receptacle Cat. # 0.56" wire well	Receptacle Cat. # 0.75" wire well	Plug Cat. # 0.56" wire well	Plug Cat. # 0.75" wire well
200A standard and S4	**0.56" wire well**	**0.75" wire well**	**0.56" wire well**	**0.75" wire well**
Phase contact	**0490339**	**0490340**	**0490319**	**0490320**
Ground contact	**0490343**	**0490344**	**0490323**	**0490324**
200A S22 and S4 S22	**0.56" wire well**	**0.75" wire well**	**0.56" wire well**	**0.75" wire well**
Phase contact	**0490351**	**0490352**	**0490355T**	**0490356**
Ground contact	**0490347**	**0490348**	**0490359**	**0490360**
200A mechanical lug	**0.687" wire well**		**0.687" wire well**	
Phase contact	**ARL:0403688 1**		**APL:0403678 1**	
Ground contact	**ARL:0403687 1**		**APL:0403677 1**	



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

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Arktite heavy duty receptacle assemblies

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

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 provides easy installation
- For disconnect use only – not for current interrupting

1. **For listing of additional back boxes, see page 29. 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.**

Wire mesh grips



Applications:

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

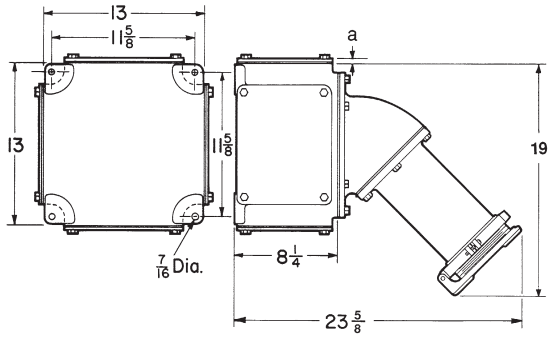
Standard material and finish:

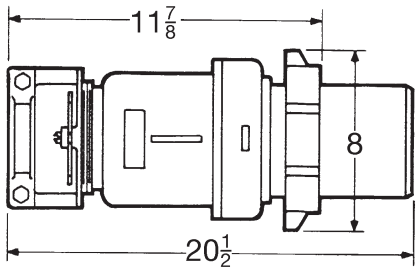
- Stainless steel wire braid – natural

Ordering information:

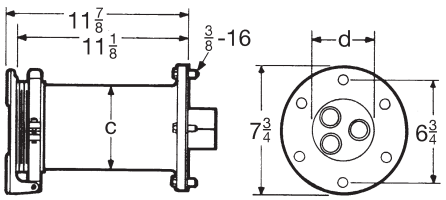
Plug cable range	Grip range	Nominal grip length (in.)	Cat. #
1.375 - 1.875"	1.375 - 1.625"	8	**K163**
	1.625 - 1.875"	11	**K188**
1.875 - 2.500"	1.875 - 2.000"	10	**K200**
	2.000 - 2.250"	11¾	**K225**

Dimensions (in inches):

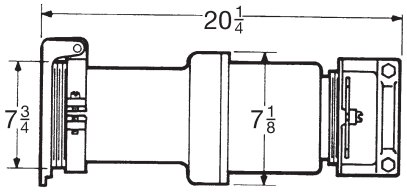




AP plugs



AR receptacles



APR connectors

AREX assemblies

Description	a
With blank hub plate	5/16
With hub plate max.	4 5/8

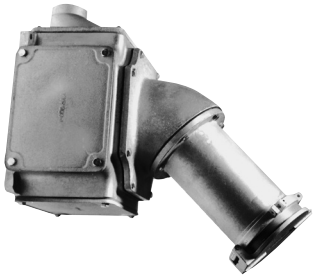
No. of poles	c	d
3	5 5/16	4 3/16
4	5 13/16	4 11/16

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Arktite heavy duty receptacle assemblies

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

Ordering information:



Receptacle assembly



Receptacle



Mating plug



Mating connector

With AJ back boxes and angle adapters[A]			Receptacle housings only		Mating plugs	Mating connectors
Description	Hub size	Cat. # Spring door cover	Cat. # Spring door	Cable dia.	Cat. #	Cat. #
Style 1 – wire well takes 0.84" maximum conductor size						
4-wire, 4-pole	2½"	**AREX40417**	**AR4041**	1.375 - 1.875"	**AP40457**	**APR40417**
	3"	**AREX40418**		1.875 - 2.500"	**AP40458**	**APR40418**
Style 1 – wire well takes 1.25" maximum conductor size						
4-wire, 4-pole	4"	**AREX4041210**	**AR40412**	2.500 - 3.000"	**AP404510**	**APR404110**
	5"	**AREX4041212**		3.000 - 3.800"	**AP404512**	**APR404112**
Style 2 – wire well takes 0.84" maximum conductor size						
3-wire, 4-pole	2½"	**AREX40427**	**AR4042**	1.375 - 1.875"	**AP40467**	**APR40427**
	3"	**AREX40428**		1.875 - 2.500"	**AP40468**	**APR40428**
Style 2 – wire well takes 1.25" maximum conductor size						
3-wire, 4-pole	4"	**AREX4042210**	**AR40422**	2.500 - 3.000"	**AP404610**	**APR404210**
	5"	**AREX4042212**		3.000 - 3.500"	**AP404612**	**APR404212**

For applicable 400A back boxes, see page 29.

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

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