

Arktite heavy duty circuit breaking plugs and receptacles

Industrial heavy duty
Non-hazardous areas

NEMA 4 Watertight

1P

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 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, 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: 1203^A, 1682, 1686
- 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.

Arktite heavy duty circuit breaking receptacle assemblies and housings

30A, 600 VAC/250 VDC, 50-400 Hz

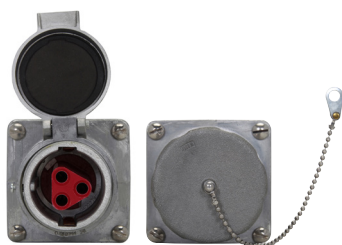
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Ordering information:



Receptacle assembly



Receptacle



Mating plug

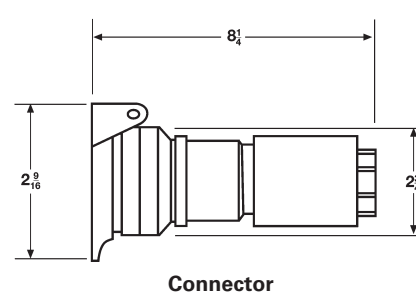
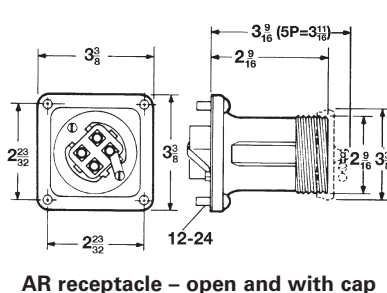
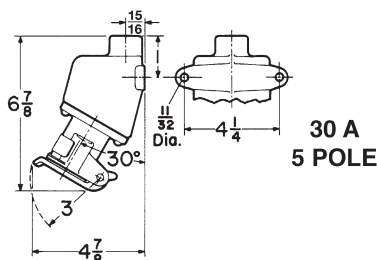
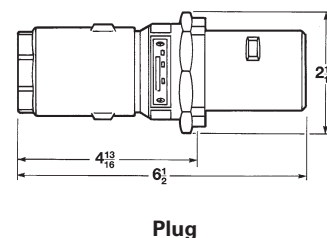
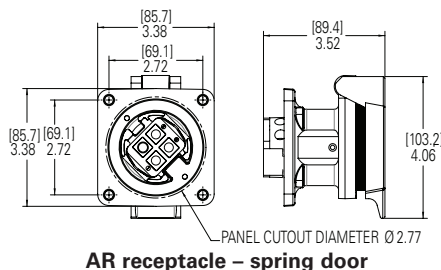
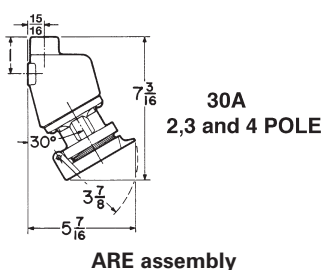


Mating connector

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								
2-wire, 2-pole	1/2" 3/4"	ARE3211 ARE3212	AR321	AR327	APJ3275	0.39 - 0.875"	APR3255	0.39 - 0.875"
3-wire, 3-pole	3/4" 1"	ARE3312 ARE3313						
4-wire, 4-pole	3/4" 1"	ARE3412 ARE3413	AR341	AR347	APJ3475	0.39 - 0.875"	APR3455	0.87 - 1.20"
5-wire, 5-pole	1"	ARE3513	AR351		APJ3573	0.500 - 0.875"	APR3553	0.500 - 0.875"
Style 2								
2-wire, 3-pole	3/4" 1"	ARE3322 ARE3323	AR332	AR338	APJ3385	0.39 - 0.875"	APR3365	0.39 - 0.875"
3-wire, 4-pole	3/4" 1"	ARE3422 ARE3423						
4-wire, 5-pole	1"	ARE3523	AR352		APJ3583 APJ3585	0.500 - 0.875" 0.875 - 1.375"	APR3563 APR3565	0.500 - 0.875" 0.875 - 1.375"

For applicable 30A back boxes, see page 697.

Dimensions (in inches):



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

Arktite heavy duty circuit breaking receptacle assemblies and housings

60A, 600 VAC/250 VDC, 50-400 Hz

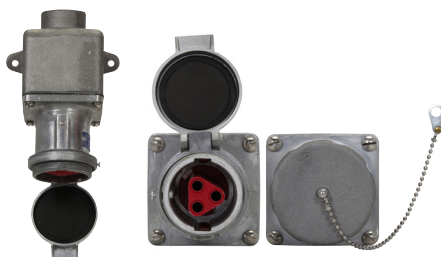
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Ordering information:



Receptacle assembly



Receptacle



Mating plug

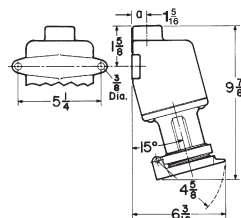


Mating connector

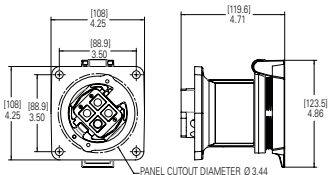
With AJ back boxes and angle adapters				With ARE back boxes	Receptacle housing only		Mating plugs		Mating connectors
Description	Hub size	Cat. # Spring door	Cat. # Threaded cap only	Cat. # Spring door	Cat. # Spring door	Cat. # Threaded cap only	Cable dia.	Cat. #	Cat. #
Style 1									
2-wire, 2-pole	1"	AREA6213		ARE6213	AR621	AR627	0.50 - 1.15"	APJ6275	APR6255
	1 1/4"	AREA6214		ARE6214					
3-wire, 3-pole	1"	AREA6313		ARE6313	AR631	AR637	0.50 - 1.15"	APJ6375	APR6355
	1 1/4"	AREA6314		ARE6314					
4-wire, 4-pole	1 1/4"	AREA6414		ARE6414	AR641	AR647	0.50 - 1.15"	APJ6475	APR6455
	1 1/2"	AREA6415		ARE6415					
5-wire, 5-pole	1 1/4"		AREA6574			AR657	0.50 - 1.15"	APJ6575	
	1 1/2"		AREA6575						
Style 2									
2-wire, 2-pole	1"	AREA6323		ARE6323	AR632	AR638	0.50 - 1.15"	APJ6385	APR6365
	1 1/4"	AREA6324		ARE6324					
3-wire, 3-pole	1 1/4"	AREA6424		ARE6424	AR642	AR648	0.50 - 1.15"	APJ6485	APR6465
	1 1/2"	AREA6425		ARE6425					
4-wire, 4-pole	1 1/4"		AREA6584			AR658	0.75 - 1.15"	APJ6585	APR6565
	1 1/2"		AREA6585						APR6567

For applicable 60A back boxes, see pages 697-698.

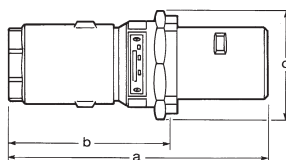
Dimensions (in inches):



ARE assembly

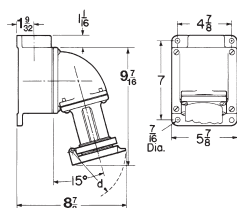


AR receptacle - spring door

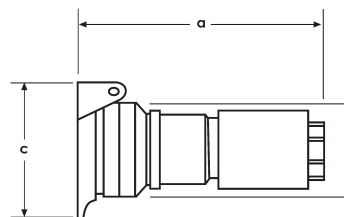
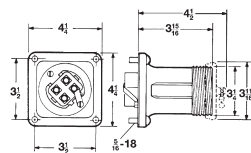


APJ plug

Config.	Plug			Connector		
	a	b	c	a	b	c
2P or 3P	8 1/2	5 3/4	3 3/8	6 1/2	3 3/8	2 15/16
4P	8 1/2	5 13/16	3 3/4	8 1/4	3 3/8	2 15/16
5P	9	6 3/16	4 7/16	8 1/4	3 3/8	3 1/4



AR receptacle - open and with cap



APR connector

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

Arktite heavy duty circuit breaking receptacle assemblies and housings

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

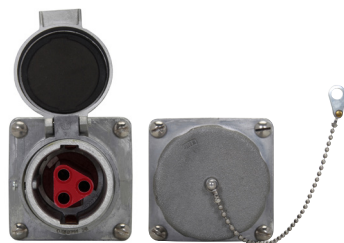
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1P

Ordering information:



Receptacle assembly



Receptacle



Mating plug

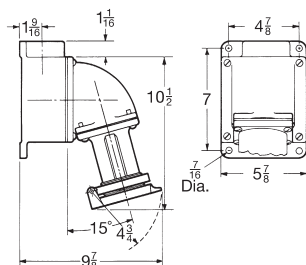


Mating connector

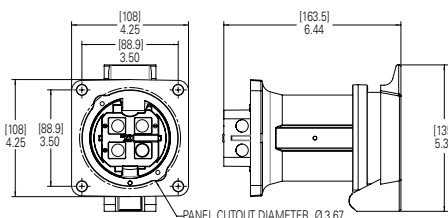
Receptacle assemblies			Receptacle housings only		Mating plugs		Mating connectors
Description	Hub size	Cat. # Spring door	Cat. # Spring door	Cat. # Threaded cap only	Cable dia.	Cat. #	Cat. #
100A – Style 1							
4-wire, 4-pole	1½" 2"	AREA10415 AREA10416	AR1041	AR1047	0.875 - 1.70"	APJ10477	APR10457
100A – Style 2							
3-wire, 4-pole	1½" 2"	AREA10425 AREA10426	AR1042	AR1048	0.875 - 1.70"	APJ10487	APR10467
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 page 698.

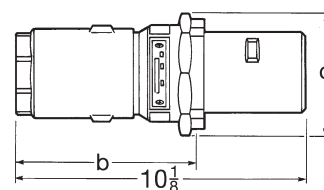
Dimensions (in inches):



ARE assembly

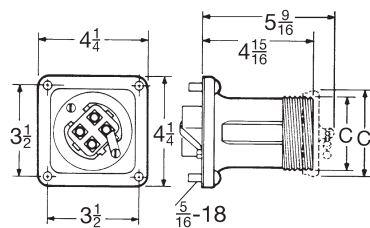


AR receptacle – spring door



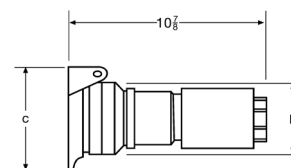
APJ plug

No. of poles	b	c
4	6 5/8	4 1/8



AR receptacle – open and with cap

No. of poles	Housing	c
4	Open	3 7/16
4	With cap	3 7/8



APR connector

No. of poles	b	c
4	3 1/2	3 7/16

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