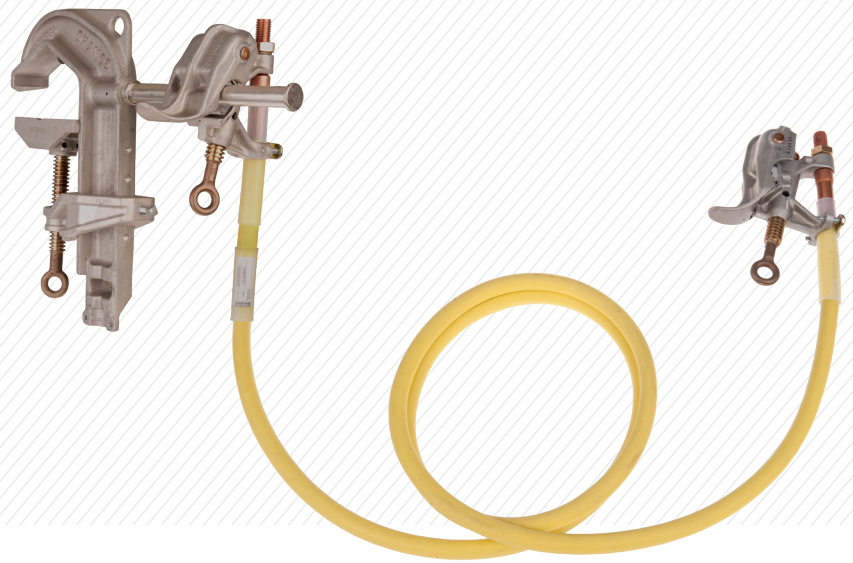


Temporary
Grounding
Equipment for
High X/R
Applications



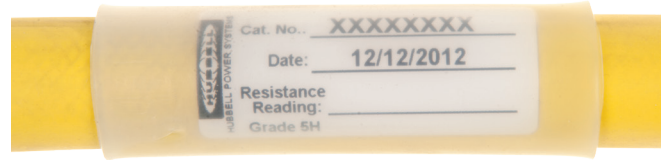
Ultimate Assembly Rating for High X/R Ratio Applications

*Excerpted from ASTM F855-20, Table 2

High Asymmetrical Test Requirements

GRADE	RATING RATED CURRENT (kA)	X/R = 30 1st Cycle Current peak (kA) X 2.69	Last Cycle Current Peak (kA)	Test Duration (cycles)
1H	15	41	23	15
3H	31	84	46	15
4H	39	105	58	15
5H	47	127	70	15
6H	55	148	82	15
7H	68	183	101	15

1. The above current values are based on electromechanical test values.
2. Assemblies that have been subjected to these shall not be re-used.
3. For use with currents exceeding 20% asymmetry factor.
4. See ASTM F855 X4.7.2 for additional information.
5. Alternate testing circuits are available for laboratories that cannot achieve the above requirements. See ASTM F855 Appendix X4 for details.



Label installed at factory under shrink tube for identification of proper set by end user in the field.

CLUSTER BARS — Grades 5H and 6H per ASTM F855-19

CHANCE® 5H and 6H Rated Cluster Bars are available with or without an integral pole-penetrating option. See OSHA 1910.269 Appendix C for more information on protecting workers from hazardous differences in electrical potential and penetration of the pole.



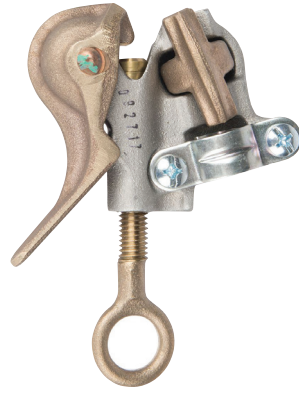
Cluster Bar without penetrating feature



Cluster Bar with penetrating feature

CATALOG NUMBER	DESCRIPTION	ASTM F855-19 RATING	RATED CURRENT (15 CYCLES)	FIRST CYCLE TEST CURRENT PEAK	WEIGHT
PSC6003628	5H Rated Cluster Bar, 5/8" dia. x 11"	5H	47 kA	127 kA	10.7 lbs. (4.9 kg)
PSC6003628A	5H Rated Penetrating Cluster Bar, 5/8" dia.				10.8 lbs. (4.9 kg)
PST6003466	6H Rated Cluster Bar, 1" dia. x 11"	6H	55 kA	148 kA	12.0 lbs. (5.4 kg)
PST6003466A	6H Rated Penetrating Cluster Bar, 1" dia.				12.1 lbs. (5.5 kg)

1H Clamps



Catalog Number

G18102
Duckbill

Continuous Current (Amps)

300

Rated Fault Current 15 cycles

15kA, X/R=30

Recommended Torque (in-lb)

230

Main Line Range Maximum

250 kcmil Str. Cu.
4/0 ACSR
(0.574")

Main Line Range Minimum

#6 Sol. Cu.
(0.162")

Ground Cable For Max Clamp Rating



#2 (Grade 1H)
2/0 (Grade 3)




Weight

1-1/2 lb. / 0.6 kg



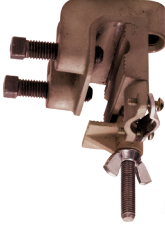



ASTM Designation

Type I
Class A
Grade 1H/Grade 3










<p>3H Clamps</p>		
<p>Catalog Number</p>	<p>PSC6003696 Compact C-Clamp</p>	<p>C6001734 Duckbill</p>
<p>Continuous Current (Amps)</p>	<p>300</p>	<p>300</p>
<p>Rated Fault Current 15 cycles</p>	<p>31kA, X/R=30</p>	
<p>Recommended Torque (in-lb)</p>	<p>300</p>	<p>300</p>
<p>Main Line Range Maximum</p>	<p>0.8"</p>	<p>566 kcmil Cu 900 kcmil ACSR (1.162")</p>
<p>Main Line Range Minimum</p>	<p>0.162"</p>	
<p>Ground Cable For Max Clamp Rating</p>	<p>2/0 Grade 3H 4/0 Grade 5</p>	
<p>Weight</p>	<p>0.98 lb/0.44 kg</p>	<p>1-1/2 lb / 0.7 kg</p>
<p>ASTM Designation</p>	<p>Type I Class A (smooth jaw) Grade 3H/Grade 5</p>	<p>Type I Class A (smooth jaw) Grade 3H/Grade 5</p>

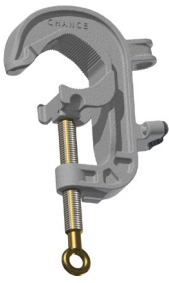






4H Clamps			
Catalog Number	PSC6003734 <i>(Eye-Screw, Drilled)</i>	PSC6003736 <i>(T-Handle, Threaded)</i> Ball Socket Clamp	C6002102 25mm Ball Stud 0.625" Diameter 0.85" Length 1/2-13UNC Cover
Continuous Current (Amps)	300	300	300
Rated Fault Current 15 cycles	39kA, X/R=30		
Recommended Torque (in-lb)	250	250	250
Main Line Range Maximum	25mm Ball Stud	25mm Ball Stud	N/A
Main Line Range Minimum	25mm Ball Stud	25mm Ball Stud	N/A
Ground Cable For Max Clamp Rating	4/0	4/0	N/A
Weight	0.95 lb/0.43 kg	0.95 lb/0.43 kg	0.5 lb./0.2 kg
ASTM Designation	Type I (Eye-Screw) Grade 4H/Grade 5	Type III (T-Handle) Grade 4H/Grade 5	Grade 4H/Grade 5

25mm ball stud cover
C4060416

5H Clamps								
Catalog Number	C6001743 C-Clamp	T6000819 (8.5" x .75" rated stud) PST6003644 (3.75 x .75" rated stud) Bus Bar Clamp	C6001783 Tower Clamp	C6003598 Tower Clamp (consists of C6000085 and C6001584 combined)	C6000197 Duckbill	C6002256 (threaded) PSC6003412 (drilled) C-Clamp*		
Continuous Current (Amps)	400	400	400	400	400	400		
Rated Fault Current 15 cycles	47kA, X/R=30							
Recommended Torque (in-lb)	250	300	300	250	250	250		
Main Line Range Maximum	1000 kcmil Cu 1590 kcmil ACSR (1.50")	4" x 4" Square 4.5" O.D. Bus	3/4" x 5" Angles or Flats or 5/8" O.D. Rod	4" Structural Angles	950 kcmil Cu 1510 kcmil ACSR	2" O.D. Bus		
Main Line Range Minimum	#6 Sol. Cu (0.162")	4/0 Str. Cu. (0.500)	1/8"	2" Structural Angles	#6 Solid Cu (0.162")	#6 Solid Cu (0.162")		
Ground Cable for max clamp rating	4/0	No Cable Rated Stud	4/0	4/0	4/0	4/0		
Weight	1-1/2 lb. / 0.7 kg	5.25 lb/2.4 kg 4.8 lb/2.2kg	5 lb/2.25 kg	3-3/4 lb/1.7 kg	1-1/2 lb/0.7 kg	1-3/4 lb/0.8 kg		
ASTM Designation	Type I Class A (smooth jaw) Grade 5H	Type I Class A (smooth jaw) Grade 5H	Type III Class B (serrated jaw) Grade 5H	Type III Class B (serrated jaw) Grade 5H	Type I Class B (serrated jaw) Grade 5H	Type I Class B (serrated jaw) Grade 5H		

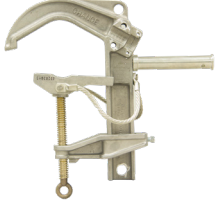

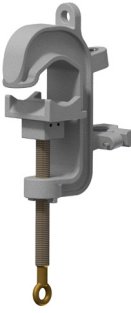


C6002255 C-Clamp*	PSC6003499 All-Angle Clamp	PSC6003635 Flat-Face Clamp with T-Handle	PSC6003636 Flat-Face Clamp	T6000844 (8.5" x .75" stud) PSC6003642 (3.75 x .75" stud) C-Clamp with Rated Stud	PSC6003626 Universal 3-Way Clamp (w/o Ball Studs; complementing ball stud is PSP6003513P)	PSC6003494 (drilled) PSC6003507 (threaded) Ball Stud Clamp	PSC6003735 (Eye-Screw, Threaded) Ball Socket Clamp
400	400	400	400	400	400	400	300
47kA, X/R=30							
250	480	360 (Set screws at 60 in-lb)	360 (Set screws at 60 in-lb)	300	300	300	250
2" O.D. Bus	2.88"	1-1/2" Angles and Flats 5/8" Ground Rod 4/0 Conductor	1-1/2" Angles and Flats 5/8" Ground Rod 4/0 Conductor	6-5/8" O.D. Bus	30mm Ball Stud or 1.5" Conductor	30mm Ball Stud	25mm Ball Stud
#6 Solid Cu (0.162")	0.258"	1/8"	1/8"	3-1/2 O.D."	30mm Ball Stud or 0.5" Conductor	30mm Ball Stud	25mm Ball Stud
4/0	4/0	4/0	4/0	No Cable Rated Stud	4/0	4/0	4/0
1-3/4 lb/0.8 kg	8.0 lb/3.6 kg	2-5/8 lb/1.2 kg	2-5/8 lb/1.2 kg	7.6 lb/3.4 kg 7.2 lb/3.3 kg	3.88 lb/1.8 kg	1.33 lb/0.6 kg	0.95 lb/0.43 kg
Type I Class A (smooth jaw) Grade 5H	Type I Class B (serrated jaw) Grade 5H	Type III Class B (serrated jaw) Grade 5H	Type I Class B (serrated jaw) Grade 5H	Type I Class B (serrated jaw) Grade 5H	Type I Class A (smooth jaw) Grade 5H	Type I Grade 5H	Type I Grade 5H

5H Ball Studs and Terminal Block								
Catalog Number	PSC6003491 Ball Stud, Short	PSC6003492 Ball Stud, Long	PSC6003493 Ball Stud (internal thread)	PSC6003510 Ball Stud with NEMA Pad	PSP6003513P Ball Stud	PSC6003639 Stud	T6001964 Terminal Block	C6002102 25mm Ball Stud Short
Continuous Current (Amps)	400	400	400	400	400	400	400	300
Rated Fault Current 15 cycles	47kA, X/R=30							
Recommended Torque (in-lb)	300	300	300	N/A	300	360	250	250
Ball Size	30mm	30mm	30mm	30mm	30mm	1.5" Hex Head	N/A	25mm
Shaft Length/ Shaft Diameter	0.9" Length 0.75" Dia.	3.0" Length 0.75" Dia.	0.8" Length 0.75" Dia.	0.8" Length 0.75" Dia.	0.8" Length 0.75" Dia.	3.5" Length 0.75" Dia.	N/A	0.85" Length 0.625" Dia.
Thread Size	5/8-11 UNC	5/8-11 UNC	Internal Thread 5/8-11 UNC	4-Hole NEMA Pad	5/8-11 UNC	1/2-13 UNC	Internal Threads 5/8-11 UNC	1/2-13 UNC
Weight	1.44 lb/0.65 kg	1.37 lb/0.62 kg	1.57 lb/0.71 kg	4.9 lb/2.2 kg	1.57 lb/0.71 kg	1.21 lb/0.55 kg	1.0 lb/ 0.5 kg	0.5 lb./0.2 kg
ASTM Designation	Grade 5H	Grade 5H	Grade 5H	Grade 5H	Grade 5H	Grade 5H	Grade 5H	Grade 4H/ Grade 5H
Accessory	 Ball Stud Cover PSC4060615							25mm ball stud cover C4060416

6H Clamps, Ferrules, and Cable							
Catalog Number	PSC6003700 C-Clamp	PSC6003690 <i>Tower Clamp w/ 6.4" Rated Stud</i>	T6003011* <i>(threaded)</i> T6000658 <i>(drilled)</i> C-Clamp	PSC6003711 <i>(Eye-Screw)</i> Ball Socket Clamp	PSC6003713 <i>(T-Handle)</i> Ball Socket Clamp	All 4/0 Ferrules work Ferrule	PSS18102 SAFETYFLEX® Plus (4/0+) Cable (2318 strands)
Continuous Current (Amps)	400	450	450	450	450	450	450
Rated Fault Current 15 cycles	55kA, X/R=30						
Recommended Torque (in-lb)	300	300	250	300	300	250	N/A
Main Line Range Maximum	2.88"	3/4" x 5" Angles or Flats or 5/8" O.D. Rod	2" O.D. Bus	35mm Ball Stud	35mm Ball Stud	N/A	N/A
Main Line Range Minimum	0.625"	1/8"	#6 Solid Cu. (0.162")	35mm Ball Stud	35mm Ball Stud	N/A	N/A
Ground Cable for max clamp rating	4/0+ SAFETYFLEX®					N/A	N/A
Weight	3.1 lb/1.4 kg	8.8 lb/4.0 kg	1-3/4 lb/0.8 kg	2.1 lb./0.95 kg	2.1 lb./0.95 kg	1/2 lb/0.2 kg	0.87 lb/ft
ASTM Designation	Type I Class B (serrated jaw) Grade 6H	Type III Class B (serrated jaw) Grade 6H*	Type I Class A (smooth jaw) Grade 6H	"Type I (Eye-Screw) Grade 6H"	"Type III (T-Handle) Grade 6H"	Grade 6H	Grade 6H

*Tested to 59kA, 30 X/R

*Unshrouded Ferrules Only

7H Clamps, Ferrule and Cable					
Catalog Number	PSC6000844001 <i>(6.0" x 1.0" stud)</i> PSC6003643 <i>(6.88" x 1.0" stud)</i> C-Clamp w/ Rated Stud	PSC6003588 Universal Clamp <i>(PSC6003581 Ball Stud sold separately)</i>	PSC6003630 C-Clamp	PSC6003603 Unshrouded Copper PSC6003604 Unshrouded Tin-Plated Ferrule	PSS18067 350 MCM Cable
Continuous Current (Amps)	550	550	550	550	550
Rated Fault Current 15 cycles	68kA, X/R=30				
Recommended Torque (in-lb)	300	300	300	250	N/A
Main Line Range Maximum	6-5/8" O.D. Bus	35mm Ball Stud or 2.0" Conductor	2.5"	N/A	N/A
Main Line Range Minimum	3-1/2 O.D.	35mm Ball Stud or 0.5" Conductor	5/8"	N/A	N/A
Ground Cable for max clamp rating	No Cable Rated Stud	350MCM	350MCM	3/4-10 UNC	N/A
Weight	7.8 lb/3.5 kg 7.9 lb/3.6 kg	5.6 lb/2.6 kg	6.1 lb/2.8 kg	1.1 lb/0.5 kg	0.8 lbs/ft (1.2 kg/m)
ASTM Designation	Type I Class B Grade 7H	Type I Class A Grade 7H	Type I Class A Grade 7H	Grade 7H	Grade 7H

<p>7H Ball Stud</p>	
<p>Catalog Number</p>	<p>PSC6003581 Ball Stud (1" dia. shaft)</p>
<p>Continuous Current (Amps)</p>	<p>550</p>
<p>Rated Fault Current 15 cycles</p>	<p>68kA, X/R=30</p>
<p>Recommended Torque (in-lb)</p>	<p>300</p>
<p>Ball Size</p>	<p>35mm</p>
<p>Shaft Length/ Shaft Diameter</p>	<p>1" Length 1" Dia.</p>
<p>Thread Size</p>	<p>3/4-10 UNC 2A</p>
<p>Weight</p>	<p>1.42 lb/0.64 kg</p>
<p>ASTM Designation</p>	<p>Grade 7H</p>
<p>7H ball stud cover</p>	<p>PSC4060750</p> 



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