

Blackburn® Grounding Conduit Hubs

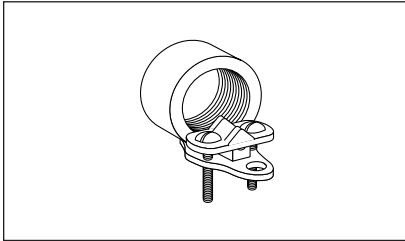


Conduit Hubs



Cat. No.	Ground Wire Size AWG	Conduit Size
3930	#8 to #2	1/2" Conduit
3940	#8 to #2	3/4" Conduit
3950	#8 to #3/0	1" Conduit
3951	#8 to #4/0	1 1/4" Conduit
3960	#8 to #4	Armored Wire

Material: Malleable iron



Type CH—Bronze Conduit Hubs

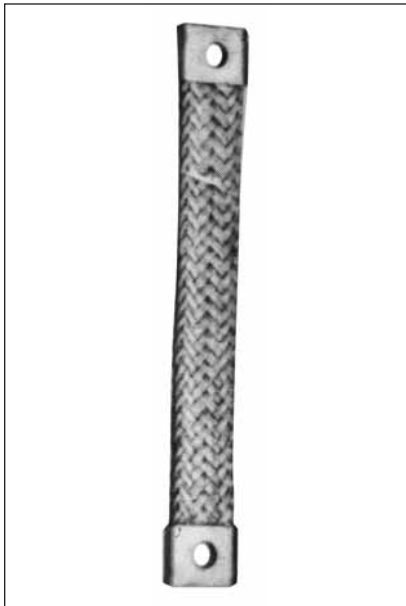
Cat. No.	Conduit Size (in.)	Conductor Range	
		max.	min.
CH12	1/2	6 sol.	10 sol.
CH34	3/4	2/0 str.	10 sol.
CH1	1	3/0 str.	10 sol.

- Rugged cast bronze threaded hub
- Provides positive connection between rigid conduit and water system in conjunction with "J" clamp

Blackburn®

Grounding Accessories

Flexible Braids for Grounding and Bonding Applications



Cat. No.	Circular Mils	Bolt Hole	No. of Braids in Ferrule	Dimensions (in.)		
				Thickness	C Width	D Ferrule Length
FBF12-1*	24000	1/4	1	0.140	0.625	0.750
FBC12-1*	48000	7/16	1	0.148	1.000	1.300
FBD12-1*	76800	7/16	1	0.200	1.000	1.300
FB2D12-1*	153600	7/16	2	0.250	1.250	1.500
FB3D12-1*	230400	7/16	3	0.350	1.250	1.500
FBXD12-1*	105600	9/16	1	0.250	1.250	1.500
FB2XD12-1*	211200	9/16	2	0.350	1.250	1.500
FB3XD12-1*	316800	9/16	3	0.400	1.250	1.500
FBE12-1*	168000	9/16	1	0.500	1.250	2.500
FB2E12-1*	336000	9/16	1	0.500	1.250	2.500

*Listed UL 467 and 486A, certified CSA C22.2 No. 41 as grounding and Bonding Equipment. Standard lengths offered in 6, 12, 18, 24, 30 and 36 inches (end to end).

Change the 12 in the above catalogue numbers to the desired length.

For custom flexible braids, contact your Regional Sales Office.

For continuous current applications, see page 45.



- Tin-plated copper braids and ferrules for high conductivity and corrosion resistance.
- Flexible copper braids for use in substation and grounding applications.
- Flexible braids allow for linear expansion, equipment vibration, and offset connections.

Flexible Braid in a roll (10 foot minimum)

Cat. No.	Circular Mils	Thickness (in.)	Width (in.)
FBRL	24 000	0.140	0.625
FBCRL	48 000	0.148	1.000
FBDRL	76 800	0.200	1.000
FBXDR	105 600	0.250	1.250

Ferrules or lugs not included.

Minimum Size Conductors for Bonding Raceways and Equipment

Rating or Setting of Overcurrent Device in Circuit Ahead of Equipment, Conduit, Etc. Not Exceeding—Amperes	Copper Wire Circular Mils
200	26 240
300	41 740
400	52 620
500	66 360
600	83 690
800	105 600
1 000	133 100
1 200	167 800
1 600	211 600
2 000	250 000
2 500	350 000
3 000	400 000
4 000	500 000
5 000	700 000
6 000	800 000

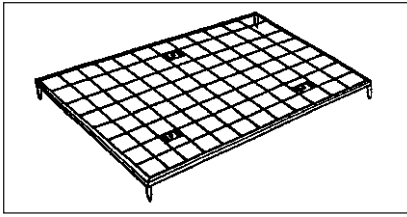
Based on table 16 C.E.C.

Minimum Size of Bare Copper Grounding Conductor

Maximum Available Short Circuit Current Amperes	Maximum Fault Duration with Exothermic Weld, Compression or Bolted Joint	
	0.5 Seconds Circular Mils	1.0 Second Circular Mils
5 000	26 240	41 740
10 000	52 620	83 690
15 000	83 690	105 600
20 000	105 600	167 800
25 000	133 100	211 600
30 000	167 800	211 600
35 000	211 600	250 000
40 000	211 600	300 000
50 000	250 000	350 000
60 000	300 000	500 000
70 000	350 000	600 000
80 000	400 000	600 000
90 000	500 000	700 000
100 000	500 000	700 000

Based on table 51 C.E.C.

Size calculated in accordance with IEEE No. 80.

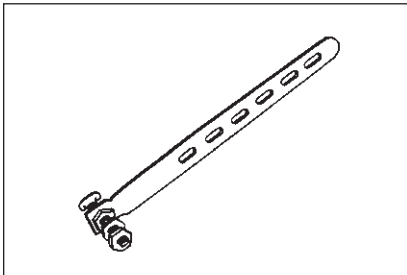


- To reduce risk and prevent build up of dangerous potential differences between high voltage equipment or structures and the user standing on the ground surface. CEC Rule 36-308

Metallic Gradient Control Mat

Cat. No.	Description	Wt/100		Standard package
		lb	kg	
64663	Mat with connectors	3000	1363	1
64660	Mat without connectors	2900	1318	1

4 ft. x 6 ft. hot dip galvanized mat is made from 6"x6" welded mesh, 1/4" diameter. Silicone bronze connector, bolt, nut and lockwasher.



Type FJ

- For connecting to steel pipe or copper water tube
- Accommodates 3/8", 1/2", 3/4", 1", 1 1/4", pipe sizes and 1/2", 3/4", 1, 1 1/4", copper water tube sizes
- Accommodates copper ground wire #18 through #12
- Specially designed "T" bolt
- 22 gauge soft copper strap with unique locking slots
- Hex head nuts may be tightened with standard wrench or special telephone company hex head driver

Type FJ Flexible Ground Clamp

Cat. No.	Copper Ground Wire Size		Pipe Size (in.)		Copper Tube Size (in.)	
	max.	min.	max.	min.	max.	min.
FJ	12	18	1 1/4	3/8	1 1/4	1/2