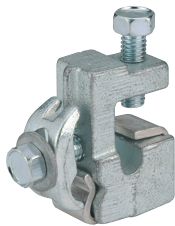
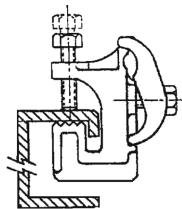


Grounding and Bonding Products

Cable Tray Ground Clamp



Showing Cat. No. 10109



Cat. No.	Cable	Description
10105	Copper or aluminum	Cable for single conductors #4 solid to 2/0 str.
10109		Cable for single conductors 2/0 solid to 4/0 str.

Material: malleable iron.
Standard finish: zinc plated.
For use with aluminum and steel cable tray.

Blackburn® Ground Clamp



Castings are of high strength, corrosion-resistant copper alloy.



Figure 1



Figure 2

Cat. No.	Conductor Range		
	Min.	Max.	Figure
GTC13P	#4 sol.	2/0 str.	1
GTC14P	2/0 str.	250 Kcmil	1
GTC23P	#4 sol.	2/0 str.	2
GTC24P	2/0 str.	250 Kcmil	2

Bolt has square shank to prevent turning and allow clamp to be tightened with one wrench.
Material: copper alloy.
Standard finish: tin-plated for aluminum cable tray.

For our complete offering of Grounding & Bonding products, consult our Connectivity and Grounding Catalogue.

Grounding and Bonding Products

Blackburn® Cable Tray Ground Clamp



Cat. No.	Cable	Description
CTG250	Al or Cu	For parallel or tapping applications #2 solid to 250 Kcmil.

Material: copper alloy.
Standard finish: tin-plated.

Blackburn® Lay-in Lug



Cat. No.	Conductor Range		Stud Size	
	Min.	Max.	(in.)	(mm ²)
LL306	#6 solid	3/0 str.	0.33	8.38
LL2506	#6 str.	250 Kcmil	0.33	8.38

Material: Tin-plated high strength 6061-T6 aluminum alloy.
These grounding connectors are dual rated for aluminum and copper conductors.
The opened face design allows the installer to quickly lay-in the grounding conductor as a jumper.

Bonding Jumpers



Cat. No.	Bonding Amp. Capacity	Single Bolt Hole	Description
FBD12-1*	600 A	7/16	12 in. flat flexible braid
FBD16-1*	600 A	7/16	16 in. flat flexible braid
FBD18-1*	600 A	7/16	18 in. flat flexible braid
FBD24-1*	600 A	7/16	24 in. flat flexible braid
FBD30-1*	600 A	7/16	30 in. flat flexible braid
FBD36-1*	600 A	7/16	36 in. flat flexible braid
FBE12-1*	1200 A	9/16	12 in. flat flexible braid
FBE16-1*	1200 A	9/16	16 in. flat flexible braid
FBE18-1*	1200 A	9/16	18 in. flat flexible braid
FBE24-1*	1200 A	9/16	24 in. flat flexible braid
FBE30-1*	1200 A	9/16	30 in. flat flexible braid
FBE36-1*	1200 A	9/16	36 in. flat flexible braid
FBG12-1*	2000 A	9/16	12 in. flat flexible braid
FBG16-1*	2000 A	9/16	16 in. flat flexible braid
FBG18-1*	2000 A	9/16	18 in. flat flexible braid
FBG24-1*	2000 A	9/16	24 in. flat flexible braid
FBG30-1*	2000 A	9/16	30 in. flat flexible braid
FBG36-1*	2000 A	9/16	36 in. flat flexible braid

* CSA Certified and UL Listed for grounding & bonding equipment.
Custom braids are available.
Material: copper. Standard finish: Tin-plated.

For our complete offering of grounding & bonding products,
consult our connectivity and grounding catalogue.

Grounding and Bonding Products

Grounding & Bonding

Maximum Fuse Ampere Rating, Circuit Breaker Ampere Trip Setting, or Circuit Breaker Protective Relay Ampere Trip Setting for Ground Fault Protection of any Cable Circuit in the Cable Tray System	Minimum Cross-Sectional Area of Metal* In Square Inches	
	Steel Cable Trays	Aluminum Cable Trays
60	0.20	0.20
100	0.40	0.20
200	0.70	0.20
400	1.00	0.40
600	1.50**	0.40
1000	–	0.60
1200	–	1.00
1600	–	1.50
2000	–	2.00**

For SI units: one square inch = 645 square millimeters.

* Total cross-sectional area of both side rails for ladder or trough-type cable trays: or the minimum cross-sectional area of metal in channel-type cable trays or cable trays of one-piece construction.

** Steel cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 600 A. Aluminum cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 2000 A.

For larger ampere ratings an additional grounding conductor must be used.

Rating or Setting of Automatic Overcurrent Device in Circuit Ahead of Equipment, Conduit, etc. Not exceeding (Amperes)	Size	
	Copper Wire No.	Aluminum or Copper-Clad Aluminum Wire No.*
15	14	12
20	12	10
30	10	8
40	10	8
60	10	8
100	8	6
200	6	4
300	4	2
400	3	1
500	2	1/0
600	1	2/0
800	1/0	3/0
1000	2/0	4/0
1200	3/0	250 kcmil
1600	4/0	350 kcmil
2000	250 kcmil	400 kcmil
2500	350 kcmil	600 kcmil
3000	400 kcmil	600 kcmil
4000	500 kcmil	800 kcmil
5000	700 kcmil	1200 kcmil

* See installation restrictions in NEC Section 250-92(a).

For more information on grounding and bonding cable tray, refer to NEMA VE 2 Cable Tray Installation Guidelines.