



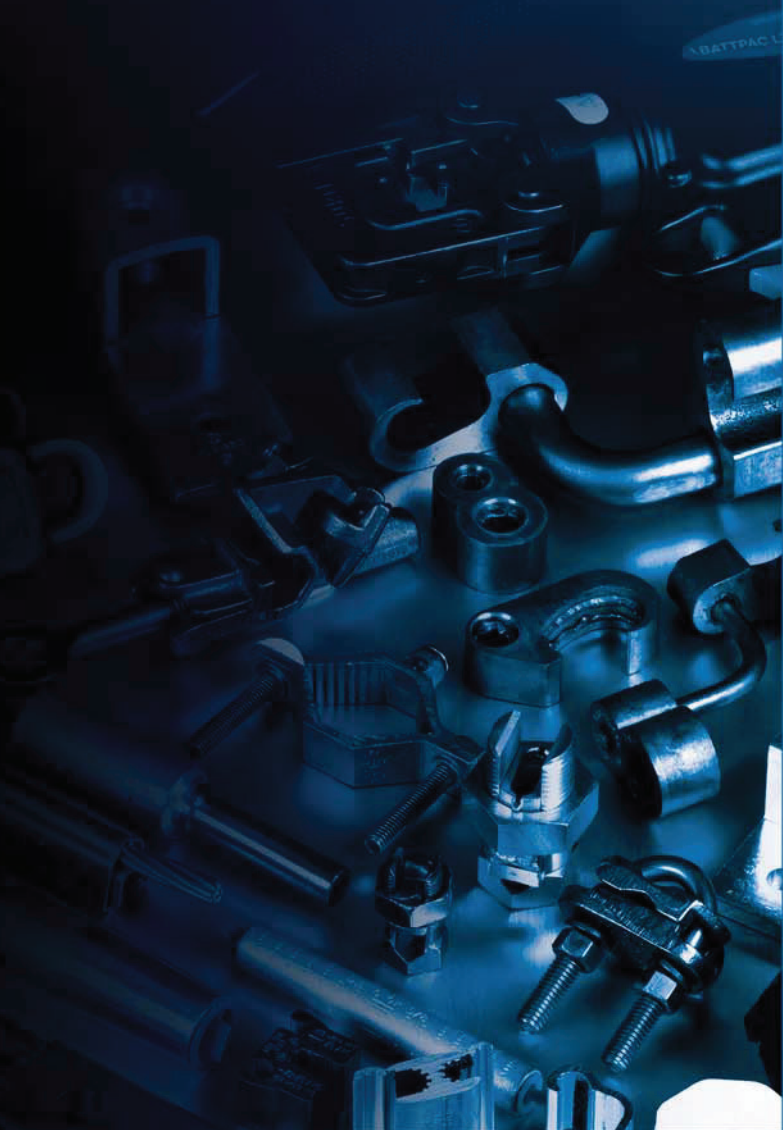
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Blackburn® Compression



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Blackburn® Compression



Thomas & Betts

United States
 Tel: 901.252.8000
 800.816.7809
 Fax: 901.252.1354

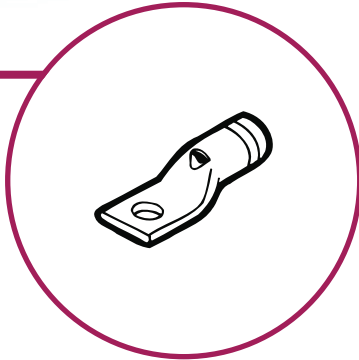
Technical Services
 Tel: 888.862.3289

www.tnb.com

Type CTL

Copper Short Barrel Connectors

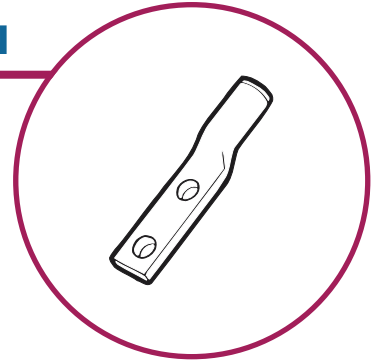
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Type CTL-L, LCN

Copper Long Barrel Connectors

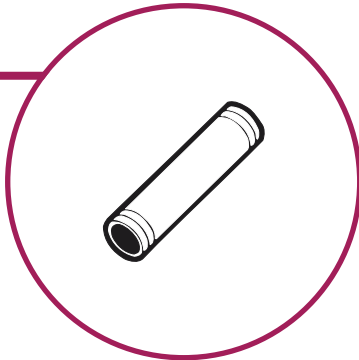
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Type CSP, CU

Copper Compression Splices

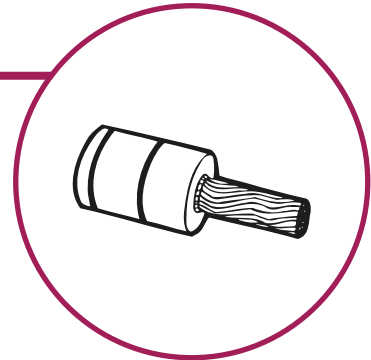
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Type PA

Pin Adapter Terminals

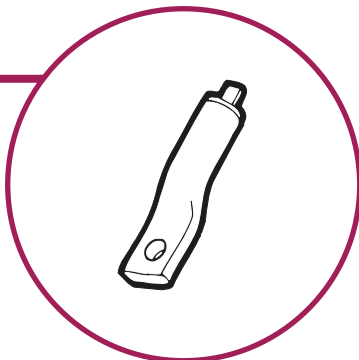
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Type ATL

Aluminum Compression Connectors

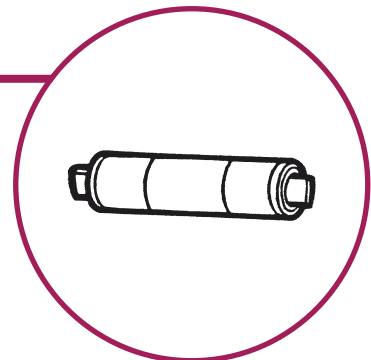
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Type ASP

Aluminum Splices

See Page C-10





Specially designed for industrial and building applications.

Type CTL — Copper One-Hole Lugs, Short Barrel

Copper Compression Connectors

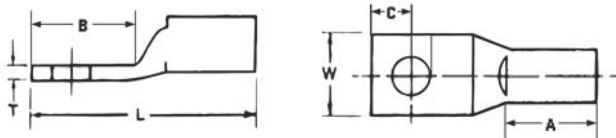
- For use with copper conductor: AWG stranded, flexible cable, welding cable and portable cord
- Specially designed for industrial and building applications
- Made of high-conductivity seamless copper tubing
- Tin-plated for corrosion resistance
- Specially chamfered barrel for ease of installation
- Color-coded for matching die identification
- Can be used for high voltage application up to 35 kV provided proper high voltage insulation techniques are used
- UL® Listed for AWG conductor when installed with Blackburn, Burndy, T&B or Anderson tools
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations

Short Barrel Connectors

- Short barrel connectors designed for regular-duty applications
- Ideal for confined areas



Blackburn® Compression



CAT. NO.	CONDUCTOR SIZE (CU)	STUD SIZE	DIMENSIONS (IN.)						DIE COLOR CODE
			A	B	C	L	W	T	
CTL8-10	8 Str.	10	1/2	1/2	1/2	1 1/2	3/8	1/8	RED
CTL8-14		1/4	1/2	1/2	1/4	1 1/8	7/16	1/8	
CTL8-516		5/16	13/32	5/8	3/2	1 5/8	9/16	1/8	
CTL6-10	6 Str. or #6 Weld	10	7/16	1/2	1/2	1 1/2	7/16	1/8	BLUE
CTL6-14		1/4	7/16	1/2	1/4	1 1/2	7/16	1/8	
CTL6-516		5/16	7/16	21/32	3/2	1 13/32	19/32	1/8	
CTL6-38		3/8	7/16	21/32	3/2	1 13/32	19/32	1/8	
CTL4-10	4 Str.	10	1/2	1/2	1/4	1 3/8	17/32	3/32	GRAY
CTL4-14		1/4	1/2	19/32	1/4	1 3/8	17/32	3/32	
CTL4-516		5/16	1/2	21/32	3/8	1 13/32	19/32	1/8	
CTL4-38		3/8	1/2	21/32	3/8	1 13/32	19/32	1/8	
CTL2-14	2 Str. or #3 Weld	1/4	19/32	21/32	1/4	1 1/2	9/16	3/32	BROWN
CTL2-516		5/16	19/32	7/8	3/8	1 23/32	9/16	3/32	
CTL2-38		3/8	19/32	29/32	3/8	1 3/4	9/16	3/32	
CTL2-12		1/2	19/32	1 1/8	1/2	1 29/32	3/4	1/8	
CTL1-14	1 Str. or #2 Weld	1/4	19/32	21/32	1/4	1 1/4	21/32	3/32	GREEN
CTL1-516		5/16	19/32	3/4	3/8	1 29/32	21/32	3/32	
CTL1-38		3/8	19/32	29/32	3/32	1 3/4	21/32	3/32	
CTL1-12		1/2	19/32	1 1/4	1/2	2 3/32	3/4	3/32	
CTL10-516	1/0 Str. or #1 Weld	3/8	1 1/8	29/32	3/8	1 17/16	3/4	1/8	PINK
CTL10-38		3/8	1 1/8	29/32	3/8	1 17/16	3/4	1/8	
CTL10-12		1/2	1 1/8	1 1/4	1/2	2 1/8	3/4	1/8	
CTL20-38	2/0 Str. or 1/0 Weld	1/2	1 3/8	29/32	3/8	2 1/2	13/16	1/8	BLACK
CTL30-38	3/0 Str. or 2/0 Weld	3/4	1 3/8	29/32	3/8	2 1/2	29/32	1/8	ORANGE
CTL30-12		1/2	1 3/8	1 1/4	1/2	2 1/2	29/32	1/8	
CTL40-38	4/0 Str. or 3/0 Weld	3/4	1 5/8	29/32	3/8	2 3/2	1 1/2	1/8	PURPLE
CTL40-12		1/2	1 5/8	1 1/4	1/2	2 1/2	1 1/2	1/8	
CTL250-12	250 kcmil or 4/0 Weld	1/2	1 1/2	1 1/4	1/2	2 1/2	1 1/8	1/8	YELLOW
CTL300-12	300 kcmil	1/2	1 1/2	1 1/4	1/2	2 29/32	1 1/8	3/32	WHITE
CTL350-12	350 kcmil	1/2	1 1/2	1 1/4	1/2	2 29/32	1 1/2	3/32	RED
CTL400-12	400 kcmil	1/2	1 1/2	1 1/4	1/2	3 1/8	1 13/32	5/32	BLUE
CTL400-58		5/8	1 1/2	1 1/4	1/2	3 1/2	1 13/32	3/32	
CTL500-12	500 kcmil	1/2	1 1/2	1 1/4	1/2	3 1/4	1 19/32	7/32	BROWN
CTL500-58		5/8	1 13/32	1 1/8	5/8	3 3/8	1 19/32	7/32	
CTL600-58	600 kcmil	3/4	1 1/8	1 1/8	3/8	3 29/32	1 3/8	7/32	GREEN
CTL750-58	750 kcmil	3/4	1 1/2	1 1/8	3/8	3 29/32	1 29/32	1/4	BLACK
CTL1000-58	1,000 kcmil	3/4	1 3/4	1 1/8	3/8	4 1/2	2 1/4	3/32	N/A

Blackburn®

Color-Coded Compression Connectors

Ideal for use in confined areas.

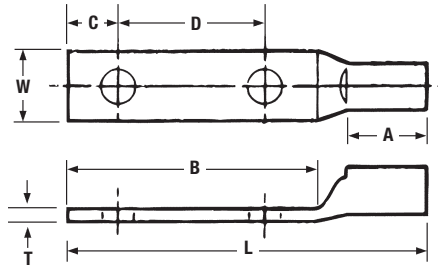
Type CTL — Copper Two-Hole Lugs, Short Barrel

Blackburn Compression

- For use with copper conductor: AWG stranded, flexible cable, welding cable and portable cord
- Specially designed for industrial and building applications
- Made of high-conductivity seamless copper tubing
- Tin plated for corrosion resistance
- Specially chamfered barrel for ease of installation
- Color-coded for matching die identification
- Can be used for high-voltage application up to 35 kV provided proper high voltage insulation techniques are used
- UL® Listed for AWG conductor when installed with Blackburn, Burndy, T&B or Anderson tools
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations

Short Barrel Connectors

- Short barrel connectors designed for regular-duty applications
- Ideal for confined areas



CAT. NO.	CONDUCTOR SIZE (CU)	STUD SIZE	DIMENSIONS (IN.)							DIE COLOR CODE
			A	B	C	D	L	W	T	
CTL6-214	6 Str. or #6 Weld	1/4	1/2	1 1/4	1/4	5/8	1 13/32	1 1/32	1/16	BLUE
CTL4-214	4 Str. or #4 Weld		1/2	1 1/4	1/4	5/8	2 1/32	1/2	3/32	GRAY
CTL2-2516	2 Str. or #3 Weld	5/16	1 1/32	1 5/8	3/8	3/4	2 15/32	9/16	3/32	BROWN
CTL1-2516	1 Str. or #2 Weld		1 1/32	1 1/4	3/8	7/8	2 1/32	2 1/32	3/32	GREEN
CTL10-2516	1/0 Str. or #1 Weld		1 1/16	1 3/4	3/8	7/8	2 1/16	3/4	1/8	PINK
CTL202	2/0 Str. or 1/0 Weld	1/2	1 3/16	2 13/16	1/2	1 1/4	3 13/16	1 3/16	1/8	BLACK
CTL302	3/0 Str. or 2/0 Weld		2 5/32	2 13/16	1/2	1 1/4	3 13/16	1 5/16	1/8	ORANGE
CTL402	4/0 Str. or 3/0 Weld		1 5/16	3	1/2	1 1/4	4 1/4	1 1/2	1/8	PURPLE
CTL2502	250 kcmil or 4/0 Weld		1 1/2	3	1/2	1 1/4	4 1/32	1 1/8	5/32	YELLOW
CTL3002	300 kcmil		1 1/2	3	1/2	1 1/4	4 1/32	1 1/16	5/32	WHITE
CTL3502	350 kcmil		1 1/2	3	1/2	1 1/4	4 1/32	1 11/32	5/32	RED
CTL4002	400 kcmil		1 11/32	3	1/2	1 1/4	4 15/16	1 13/32	5/32	BLUE
CTL5002	500 kcmil	3/8	1 3/8	3	1/2	1 1/4	5	1 1/2	7/32	BROWN
CTL6002-38	600 kcmil		1 17/32	1 23/32	3/8	1 1/4	5 1/8	1 23/32	7/32	GREEN
CTL6002-12	600 kcmil		1 17/32	3	1/2	1 1/4	5 1/8	1 23/32	7/32	GREEN
CTL7502	750 kcmil		1 1/2	3	1/2	1 1/4	5 1/32	1 29/32	1/4	BLACK
CTL10002	1000 kcmil	1/2	1 3/4	3	1/2	1 1/4	5 1/32	2 1/4	9/32	N/A

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800.816.7809
Fax: 901.252.1354

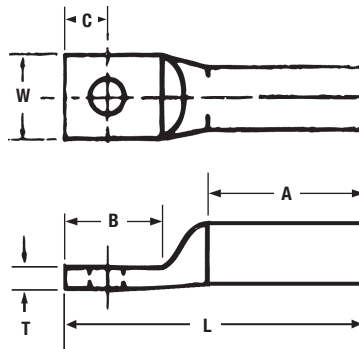
Technical Services
Tel: 888.862.3289



Ideal for industrial, oil rig, mining, welding and transportation electrical termination applications.

Type CTL — Copper One-Hole Lugs, Long Barrel

- For use with copper conductor: AWG stranded, flexible cable, welding cable and portable cord
- Specially designed for industrial and building applications
- Made of high-conductivity seamless copper tubing
- Tin plated for corrosion resistance
- Specially chamfered barrel for ease of installation
- Color-coded for matching die identification
- Can be used for high-voltage application up to 35 kV provided proper high-voltage insulation techniques are used
- UL® Listed for AWG conductor when installed with Blackburn, Burndy, T&B or Anderson tools
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations



Long Barrel Connectors

- Ideal for industrial, oil rig, mining, welding and transportation electrical termination applications
- Heavy-duty design permits additional crimp for added mechanical strength

CAT. NO.	CONDUCTOR SIZE AWG	FLEXIBLE CONDUCTOR	STUD	DIMENSIONS (IN.)						DIE COLOR	
CTL8L-14	8 Str.	8	37/24	1/4	25/32	5/8	1/4	1 1/8	1 1/2	1/8	RED
CTL6L-14	6 Str.	6	61/24		25/32	5/8	1/4	1 1/8	1 1/2	1/8	BLUE
CTL4L-14	4 Str.	5	91/24	5/16	25/32	5/8	1/4	1 1/8	1 1/2	1/8	GRAY
CTL2L-516	2 Str.	3	125/24		7/8	7/8	3/8	2 1/2	3 1/8	3/8	BROWN
CTL1L-516	1 Str.	2	150/24	3/8	1 1/2	7/8	3/8	2 3/4	3 1/2	3/8	GREEN
CTL10L-516	1/0 Str.	1	225/24		1 3/4	7/8	3/8	2 3/4	3 1/2	3/8	PINK
CTL20L-38	2/0 Str.	1/0	275/24	1/2	1 3/4	1 1/4	1/2	2 1/4	2 3/4	1/2	BLACK
CTL30L-12	3/0 Str.	2/0	325/24		1 7/8	1 1/4	1/2	2 1/4	2 3/4	1/2	ORANGE
CTL40L-12	4/0 Str.	—	—	5/8	1 7/8	1 1/4	1/2	2 1/4	2 3/4	1/2	PURPLE
CTL250L-12	250 kcmil	3/0	450/24		1 7/8	1 1/4	1/2	2 1/4	2 3/4	1/2	YELLOW
CTL300L-12	300 kcmil	4/0	550/24	3/4	1 7/8	1 1/4	1/2	2 1/4	2 3/4	1/2	WHITE
CTL350L-12	350 kcmil	263	650/24		1 7/8	1 1/4	1/2	2 1/4	2 3/4	1/2	RED
CTL400L-58	400 kcmil	313	775/24	7/8	1 7/8	1 1/4	1/2	2 1/4	2 3/4	1/2	BLUE
CTL500L-58	500 kcmil	373	925/24		1 7/8	1 1/4	1/2	2 1/4	2 3/4	1/2	BROWN
CTL600L-58	600 kcmil	444	1100/24	1	1 7/8	1 1/4	1/2	2 1/4	2 3/4	1/2	GREEN
CTL750L-58	750 kcmil	535	1325/24		1 7/8	1 1/4	1/2	2 1/4	2 3/4	1/2	BLACK
CTL1000L-58	1000 kcmil	646	1600/24	1 1/4	1 7/8	1 1/4	1/2	2 1/4	2 3/4	1/2	N/A
		777	1925/24		1 7/8	1 1/4	1/2	2 1/4	2 3/4	1/2	N/A

Blackburn® Compression

Blackburn®

Color-Coded Compression Connectors

Made of high-conductivity seamless copper tubing, tin plated for corrosion resistance.



Type LCN — Copper Two-Hole Lugs, Long Barrel

Copper Compression Connectors

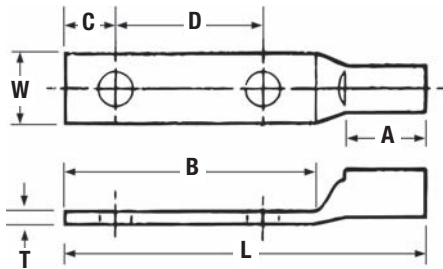
- For use with copper conductor: AWG stranded, flexible cable, welding cable and portable cord
- Specially designed for industrial and building applications
- Made of high-conductivity seamless copper tubing
- Tin plated for corrosion resistance
- Specially chamfered barrel for ease of installation
- Color-coded for matching die identification
- Can be used for high-voltage application up to 35 kV provided proper high-voltage insulation techniques are used

- UL Listed for AWG conductor when installed with Blackburn, Burndy, T&B or Anderson tools
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations

Long Barrel Connectors

- Ideal for industrial, oil rig, mining, welding and transportation electrical termination applications
- Heavy-duty design permits additional crimp for added mechanical strength

Blackburn® Compression



CAT. NO.	CONDUCTOR SIZE AWG (CU)	FLEXIBLE CONDUCTOR SIZE	STRANDING	STUD SIZE	DIMENSIONS (IN.)							DIE COLOR CODE
					A	B	C	D	L	W	T	
LCN8-14	8 Str.	8	37/24	1/4	25/32	1 1/16	1/4	5/8	2 1/8	1 5/32	1/16	RED
LCN6-14	6 Str.	6	61/24	1/2	25/32	3/8	1/4	1 1/4	4 1/2	7/8	3/32	BLUE
LCN6-12	4 Str.	5	91/24	1/2	25/32	3	1/2	1 1/4	4 3/2	7/8	3/32	GRAY
LCN4-14	2 Str.	3	125/24	5/16	7/8	1 1/8	3/8	3/4	2 1/16	9/16	3/32	BROWN
LCN2-12	1 Str.	2	150/24	3/16	1 1/2	1 3/8	3/8	1 1/4	4 1/4	7/8	3/32	GREEN
LCN1-516	1 Str.	2	150/24	3/16	1 1/2	3	1/2	1 1/4	4 3/2	7/8	3/32	GREEN
LCN1-12	1 Str.	2	150/24	3/16	1 1/2	3	1/2	1 1/4	4 3/2	7/8	3/32	GREEN
LCN10	1/0	1	225/24	1/2	1 1/2	3	1/2	1 1/4	3 3/2	3/4	1/8	PINK
LCN20	2/0	1/0	275/24	1/2	1 1/2	3	1/2	1 1/4	4 3/16	1 3/16	1/8	BLACK
LCN30	3/0	2/0	325/24	1/2	1 1/2	2 1/16	1/2	1 1/4	4 1/16	1 5/16	1/8	ORANGE
LCN40	4/0	—	—	1/2	1 1/2	3	1/2	1 1/4	4 1/16	1 1/2	1/8	PURPLE
LCN250	250 kcmil	3/0	450/24	1/2	1 1/2	3	1/2	1 1/4	4 3/2	1 1/16	1/8	YELLOW
LCN300	300 kcmil	4/0	550/24	1/2	1 3/2	3	1/2	1 1/4	5 3/2	1 3/16	1/8	WHITE
LCN350	350 kcmil	263	650/24	1/2	1 7/2	3	1/2	1 1/4	5 1/2	1 1/2	5/32	RED
LCN400	400 kcmil	313	775/24	1/2	1 7/2	3	1/2	1 1/4	5 1/16	1 1/2	1/8	BLUE
LCN500	500 kcmil	373	925/24	1/2	2 1/2	3	1/2	1 1/4	5 1/16	1 1/2	3/16	BROWN
LCN600	600 kcmil	444	1100/24	1/2	2 1/2	3	1/2	1 1/4	5 3/4	1 3/2	7/32	GREEN
LCN75	750 kcmil	535	1325/24	1/2	2 3/2	3	1/2	1 1/4	6 3/2	1 3/2	1/4	BLACK
LCN99	1000 kcmil	646	1600/24	1/2	2 3/2	3	1/2	1 1/4	6 3/2	2 1/4	3/32	N/A

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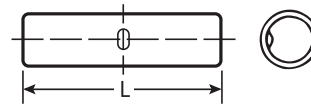
Technical Services
Tel: 888.862.3289



Designed for regular-duty applications. Type CSP — Copper Splices, Short Barrel

Copper Compression Connectors

- For use with copper conductor: AWG stranded, flexible cable, welding cable and portable cord
- Specially designed for industrial and building applications
- Made of high-conductivity seamless copper tubing
- Tin plated for corrosion resistance
- Specially chamfered barrel for ease of installation
- Color-coded for matching die identification
- Can be used for high-voltage application up to 35 kV provided proper high-voltage insulation techniques are used
- UL Listed for AWG conductor when installed with Blackburn, Burndy, T&B or Anderson tools
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations



Short Barrel Connectors

- Short barrel connectors designed for regular-duty applications
- Ideal for confined areas

CAT. NO.	CONDUCTOR SIZE (CU)	LENGTH L (IN.)	DIE COLOR CODE
CSP8	8 Str.	1	RED
CSP6	6 Str.	1	BLUE
CSP4	4 Str.	1	GRAY
CSP2	3-2 Str.	1¼	BROWN
CSP1	1 Str.	1½	GREEN
CSP10	1/0 Str.	1¾	PINK
CSP20	2/0 Str.	1¾	BLACK
CSP30	3/0 Str.	1¾	ORANGE
CSP40	4/0 Str.	1¾	PURPLE
CSP250	250 kcmil	2¼	YELLOW
CSP300	300 kcmil	2¼	WHITE
CSP350	350 kcmil	2¼	RED
CSP400	400 kcmil	2¼	BLUE
CSP500	500 kcmil	2¼	BROWN
CSP600	600 kcmil	3	GREEN
CSP750	750 kcmil	3	BLACK
CSP1000	1000 kcmil	3¾	N/A

Blackburn®

Color-Coded Compression Connectors

Heavy-duty design permits additional crimp for added mechanical strength.

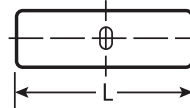
Type CU — Copper Splices, Long Barrel

Copper Compression Connectors

- For use with copper conductor: AWG stranded, flexible cable, welding cable and portable cord
- Specially designed for industrial and building applications
- Made of high-conductivity seamless copper tubing
- Tin plated for corrosion resistance
- Specially chamfered barrel for ease of installation
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- Can be used for high-voltage application up to 35 kV provided proper high voltage insulation techniques are used
- UL Listed for AWG conductor when installed with Blackburn, Burndy, T&B or Anderson tools
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations

Long Barrel Connectors

- Ideal for industrial, oil rig, mining, welding and transportation electrical termination applications
- Heavy-duty design permits additional crimp for added mechanical strength

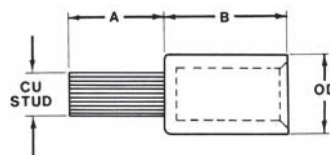
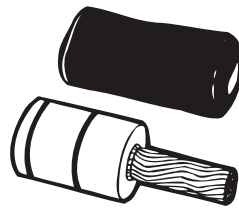


CAT. NO.	CONDUCTOR SIZE AWG (CU)	FLEXIBLE CONDUCTOR		LENGTH L (IN.)	DIE COLOR CODE
		CMA	STRANDING		
CU8	8 Str.	8	37/24		RED
CU6	6 Str.	6	61/24	1½	BLUE
CU4	4 Str.	5	91/24		GRAY
CU2	2 Str.	3	125/24	1½	BROWN
CU1	1 Str.	2	150/24	2	GREEN
CU10	1/0 Str.	1	225/24		PINK
CU20	2/0 Str.	1/0	275/24	2½	BLACK
CU30	3/0 Str.	2/0	325/24	2½	ORANGE
CU40	4/0 Str.	—	—	2½	PURPLE
CU250	250 kcmil	3/0	450/24	3½	YELLOW
CU300	300 kcmil	4/0	550/24	3½	WHITE
CU350	350 kcmil	263	650/24		RED
CU400	400 kcmil	313	755/24	3½	BLUE
CU500	500 kcmil	373	925/24	4½	BROWN
CU600	600 kcmil	444	1100/24	4½	GREEN
CU750	750 kcmil	535	1325/24	4½	BLACK
CU1000	1000 kcmil	646	1600/24	5½	N/A
		777	1925/24		

Insulating covers included.

Type PA — Pin Adapter Terminals

- Connector for aluminum conductor only
- Pigtail may be inserted into either aluminum or copper connectors
- 90° C rating per UL 486B
- Tin-plated stranded copper wire pigtail
- Tin-plated aluminum barrel prefilled with oxide inhibitor and capped



CAT. NO.	CONDUCTOR SIZE	COPPER STUD SIZE	DIMENSIONS (IN.)			DIE COLOR CODE
			A	B	O.D.	
PA06	6 Str.	8	¾	1½	.640	N/A
PA04	4 Str.	6	¾	1½	.640	
PA02	2 Str.	4	¾	1½	.640	
PA01	1 Str.	3	1	1½	.640	
PA11	1/0 Str.	2	1½	1½	.906	RED
PA21	2/0 Str.	1	1½	1½	.906	
PA31	3/0 Str.	1/0	1½	1½	.906	
PA41	4/0 Str.	2/0	1½	1½	.906	BROWN
PA25	250 kcmil	3/0	1½	2½	1.155	
PA30	300 kcmil	4/0	1½	2½	1.155	
PA35	350 kcmil	4/0	1½	2½	1.155	PINK
PA40	400 kcmil	250 kcmil	1½	2½	1.375	
PA50	500 kcmil	350 kcmil	1½	2½	1.375	YELLOW
PA60	600 kcmil	350 kcmil	1½	2½	1.500	
PA75	750 kcmil	500 kcmil	2	2½	1.500	

UL Listed AL9CU.

Blackburn® Compression

Thomas & Betts

www.tnb.com

United States
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

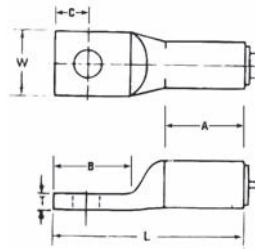
Technical Services
Tel: 888.862.3289



Use with aluminum or copper conductor.

Type ATL — Aluminum One-Hole Lugs

- Specifically designed for use with aluminum conductor (concentric, compressed or compact)
- Also listed for use with copper conductor
- Made of high-conductivity seamless aluminum tubing
- Tin plated for corrosion resistance
- Chamfered barrels for ease of installation
- Can be used for high-voltage application up to 35 kV, provided high-voltage insulation techniques are used
- Color-coded for quick, easy die identification
- Prefilled with oxide inhibiting compound
- UL Listed when installed with Blackburn, Burndy, T&B or Anderson tools



Blackburn® Compression

CAT. NO.	CONDUCTOR SIZE (AL OR CU)	STUD SIZE	DIMENSIONS (IN.)						DIE COLOR CODE
			A	B	C	L	W	T	
ATL8-10	8 Str.	10	1/2	19/32	7/32	1 1/2	1 1/2	3/32	BLUE
ATL8-14		1/4	1/2	1 1/16	1 1/32	1 1/8	7/16	3/32	
ATL6-10	6 Str.	10	25/32	9/16	7/32	1 1/2	1 5/32	1/8	GRAY
ATL6-14		1/4	25/32	23/32	1 1/32	1 21/32	15/32	1/8	
ATL6-38	4 Str.	3/8	27/32	29/32	7/16	1 27/32	5/8	3/32	GREEN
ATL4-14		1/4	27/32	13/16	1 1/32	1 29/32	5/8	3/16	
ATL4-516	4 Str.	5/16	27/32	1	7/16	2 1/16	5/8	3/16	GREEN
ATL4-38		3/8	27/32	29/32	7/16	2	5/8	3/16	
ATL2-14	2 Str.	1/4	27/32	25/32	1 1/32	1 15/16	2 3/32	3/16	PINK
ATL2-516		5/16	27/32	7/8	7/16	2 11/32	3/4	3/16	
ATL2-38	1 Str.	3/8	27/32	29/32	7/16	2 1/16	2 3/32	3/16	GOLD
ATL1-516		5/16	27/32	7/8	7/16	2 1/2	2 3/32	3/16	
ATL1-38	1 Str.	3/8	27/32	29/32	7/16	2 3/8	3/4	3/16	TAN
ATL10-516		5/16	1 1/2	1	7/16	2 17/32	7/8	3/16	
ATL10-38	1/0 Str.	3/8	1 1/2	1 1/16	7/16	2 19/32	7/8	3/16	TAN
ATL10-12		1/2	1 1/2	1 3/8	1 1/16	2 5/16	15/16	3/16	
ATL20-38	2/0 Str.	3/8	1 3/16	1	7/16	2 5/8	3 1/32	7/32	OLIVE
ATL20-12		1/2	1 3/16	1 3/8	1 1/16	3	1 1/2	7/32	
ATL30-38	3/0 Str.	3/8	1 11/32	1 1/16	7/16	2 3/16	1 1/16	7/32	RUBY
ATL30-12		1/2	1 11/32	1 3/8	1 1/16	3 3/8	1 1/16	7/32	
ATL40-38	4/0 Str.	3/8	1 7/8	1 3/32	3/8	3 3/8	1 3/16	1/4	WHITE
ATL40-12		1/2	1 7/8	1 1/4	3/8	3 3/8	1 3/16	1/4	
ATL250-12	250 kcmil	1/2	2 1/2	1 1/4	1/2	4 1/2	1 3/32	1/4	RED
ATL300-38	300 kcmil	3/8	2	1 3/16	3/8	4 3/16	1 3/8	9/32	BLUE
ATL300-12		1/2	2	1 3/16	1/2	4 3/16	1 3/8	9/32	
ATL350-12	350 kcmil	1/2	2 11/16	1 1/16	1/2	4 7/8	1 1/2	5/16	BROWN
ATL400-58	400 kcmil	5/8	2 11/16	1 1/4	1/2	4 15/16	1 5/8	3/8	BROWN GREEN
ATL500-12	500 kcmil	1/2	2 11/16	1 1/4	1/2	4 5/16	1 29/32	3/8	PINK
ATL500-58		5/8	2 11/16	2	3/4	5 1/16	1 29/32	3/8	
ATL600-12	600 kcmil	1/2	2 11/16	2	3/4	5 3/16	1 29/32	1 1/32	BLACK
ATL750-12	750 kcmil	1/2	2 7/8	1 1/4	1/2	5 1/4	2 1/8	3/8	N/A
ATL750-58		5/8	2 7/8	2	3/4	6 1/2	2 1/8	3/8	

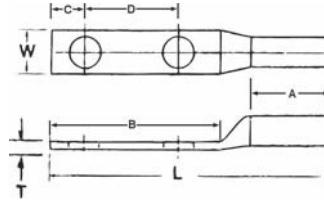
Blackburn®

Color-Coded Compression Connectors

Made of high-conductivity seamless aluminum tubing, tin-plated for corrosion resistance.

Type ATL — Aluminum Two-Hole Lugs

- Specifically designed for use with aluminum conductor (concentric, compressed or compact)
- Also listed for use with copper conductor
- Made of high-conductivity seamless aluminum tubing
- Tin plated for corrosion resistance
- Chamfered barrels for ease of installation
- Can be used for high-voltage application up to 35 kV, provided high-voltage insulation techniques are used
- Color-coded for quick, easy die identification
- Prefilled with oxide inhibiting compound
- UL Listed when installed with Blackburn, Burndy, T&B or Anderson tools



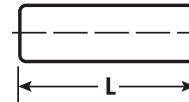
CAT. NO.	CONDUCTOR SIZE (CU)	STUD SIZE	DIMENSIONS (IN.)							DIE COLOR CODE
			A	B	C	D	L	W	T	
ATL102-38	1/0 Str.	%	1 1/2	2 1/8	3/8	1	3 1/2	7/8	3/16	TAN
ATL102			1 1/8	3	1/2	1 1/4	4 1/8	1 1/8	3/16	
ATL202	2/0 Str.	%	1 1/8	3 3/8	3/4	1 1/4	5	3 1/2	7/32	OLIVE
ATL302			1 1/2	3 3/8	3/4	1 1/4	5 1/2	1 1/8	7/32	RUBY
ATL402	4/0 Str.	%	1 1/8	3	1/2	1 1/4	5 5/8	1 1/8	1/4	WHITE
ATL2502			2 1/2	3	1/2	1 1/4	5 5/8	1 1/2	1/4	RED
ATL3002	300 kcmil	1/2	2	3	1/2	1 1/4	5 1/2	1 1/8	5/32	BLUE
ATL3502			2 1/8	3	1/2	1 1/4	6 1/8	1 1/2	5/16	BROWN
ATL4002	400 kcmil	%	2 1/8	3	1/2	1 1/4	6 1/8	1 1/8	3/8	GREEN
ATL5002			2 1/8	3	1/2	1 1/4	6 1/8	1 3/8	3/8	PINK
ATL6002	600 kcmil	%	2 1/8	3	1/2	1 1/4	6 3/8	1 3/8	1 1/32	BLACK
ATL7502			2 1/8	3	1/2	1 1/4	7 1/8	2 1/8	3/8	N/A

Chamfered barrels enable easier installation.

Type ASP – Aluminum Splices



- Specifically designed for use with aluminum conductor (concentric, compressed or compact)
- Also listed for use with copper conductor
- Made of high-conductivity seamless aluminum tubing
- Tin plated for corrosion resistance
- Chamfered barrels for ease of installation
- Can be used for high-voltage application up to 35 kV, provided high-voltage insulation techniques are used
- Color-coded for quick, easy die identification
- Prefilled with oxide inhibiting compound
- UL Listed when installed with Blackburn, Burndy, T&B or Anderson tools



CAT. NO.	CONDUCTOR SIZE (AL OR CU)	LENGTH L (IN.)	DIE COLOR CODE
ASP8	8 Str.	1 1/4	BLUE
ASP6	6 Str.	1	GRAY
ASP4	4 Str.	1	GREEN
ASP2	2 Str.	1	PINK
ASP1	1 Str.	2	GOLD
ASP10	1/0 Str.	2 1/2	TAN
ASP20	2/0 Str.	2 1/2	OLIVE
ASP30	3/0 Str.	2 1/2	RUBY
ASP40	4/0 Str.	3	WHITE
ASP250	250 kcmil	4	RED
ASP300	300 kcmil	4	BLUE
ASP350	350 kcmil	3	BROWN
ASP400	400 kcmil	4	GREEN
ASP500	500 kcmil	5	PINK
ASP600	600 kcmil	5	BLACK
ASP750	750 kcmil	5	N/A
ASP1000	1,000 kcmil	6	N/A

Thomas & Betts



Tool and Die Index for Color-Coded Compression Connectors

Short Barrel — Types CTL, CTL-2 and CSP

COPPER STRAND WIRE SIZE	DIE COLOR CODE	BLACKBURN TOOLS						BURNDY TOOLS				T&B TOOLS						ANDERSON TOOLS			
		MECH. OD58	CRIMPS PER END	MECH. NRG 2506	CRIMPS PER END	HYD. JB12B*	CRIMPS PER END	MECH. MY29-3	CRIMPS PER END	HYD. Y35, Y39, Y46	CRIMPS PER END	MECH. TBM5S	CRIMPS PER END	MECH. TBM8S	CRIMPS PER END	HYD. TBM15	CRIMPS PER END	CU WIRE RANGE	VC6 [†] VC6FT CRIMPS	VC7 [†] VC7FT CRIMPS	VC8C ^{††} VC8FT CRIMPS
8	RED	½	3	**	1	B71CH	1	**	1		13454	2	13461	2	21	2					
6	BLUE	J ¼	3	**	1	B73CH	1	**	1	U5CRT	2	13454	2	13461	2	24	2				
4	GRAY	⅝	3	**	1	B74CH	1	**	1	U4CRT	2	13454	2	13461	2	29	2				
3	WHITE			**	2			**	2	U3CRT	2										
2	BROWN	⅜	4	**	2	B75CH	1	**	2	U2CRT	2	13454	2	13461	2	33	2	6-2	1*	2	
1	GREEN	P	4	**	2	B05CH	1	**	2	U1CRT	2	13455	3	13462	3	37	2	6-1	1	2	
1/0	PINK	½	4	**	2	B06CH	1	**	2	U25RT	2	13455	3	13462	3	42H	3	6-1/0	1	2	
2/0	BLACK	⅞	4	**	2	B72CH	2	**	2	U26RT	2	13455	3	13462	3	45	2	4-2/0	1	2	
3/0	ORANGE	⅞	4	**	2	B08CH	1	**	2	U27RT	2	13455	4	13462	4	50	2	2-3/0	2	2	
4/0	PURPLE	¾-1	4	**	2	B09CH	2	**	2	U28RT	2	13456	4	13463	4	54H	3	1-4/0	2	2	
250	YELLOW	⅞	4	**	2	B26CH	2	**	2	U29RT	2	13456	4	13463	4	62	2	1/0-250 [†]	2	2	
300	WHITE					B10CH B10CH	2			U30RT	2			13465	4	66	2	2/0-300 [†]	2	2	
350	RED					B11CH	2			U31RT	2			13465	4	71H	3	3/0-350 [†]	2	3	
400	BLUE					B11CH	2			U32RT	3			13467	4	76	2	4/0-400 [†]	2	3	
500	BROWN					B12CH B12CH	2			U34RT	3			13468	5	87H	3	4/0-500V	2	3	
600	GREEN					B36CH [†]	3			U36RT [‡]	3					94H	3	250-600		3 VC7FT only	
750	BLACK					B39CH [†] 6039RT [‡]	3 1			U39RT [‡]	3					106H	3	500-750		4 VC7FT only	
1000	—					6044RT [‡]	1			P44RT [‡]	4					125H	4	750-1000		2	

Blackburn® Compression

Long Barrel — Types CTL-L, LCN and CU

COPPER STRAND WIRE SIZE	DIE COLOR CODE	BLACKBURN TOOLS						BURNDY TOOLS				T&B TOOLS						ANDERSON TOOLS			
		MECH. OD58	CRIMPS PER END	MECH. NRG 2506	CRIMPS PER END	HYD. JB12B*	CRIMPS PER END	MECH. MY29-3	CRIMPS PER END	HYD. Y35, Y39, Y46	CRIMPS PER END	MECH. TBM5S	CRIMPS PER END	MECH. TBM8S	CRIMPS PER END	HYD. TBM15	CRIMPS PER END	CU WIRE RANGE	VC6 [†] VC6FT CRIMPS	VC7 [†] VC7FT CRIMPS	VC8C ^{††} VC8FT CRIMPS
8	RED	½	4	**	2	B71CH	2	**	2		13454	2	13461	2	21	3					
6	BLUE	J ¼	4	**	2	B73CH	2	**	2	U5CRT	2	13454	2	13461	2	24	3				
4	GRAY	⅝	4	**	2	B74CH	2	**	2	U4CRT	2	13454	2	13461	2	29	3				
3	WHITE			**	3		**	2	U3CRT	2											
2	BROWN	⅜	5	**	3	B75CH	2	**	3	U2CRT	2	13454	2	13461	2	33	3	6-2	2	4	
1	GREEN	P	5	**	3	B05CH	2	**	3	U1CRT	2	13455	4	13462	3	37	3	6-1	2	5	
1/0	PINK	½	5	**	3	B06CH	2	**	3	U25RT	2	13455	4	13462	4	42H	4	6-1/0	2	5	
2/0	BLACK	⅞	5	**	3	B72CH	2	**	3	U26RT	2	13455	4	13462	4	45	3	4-2/0	2	5	
3/0	ORANGE	⅞	5	**	4	B08CH	2	**	4	U27RT	3	13455	6	13462	6	50	3	2-3/0	3	6	
4/0	PURPLE	¾-1	6	**	4	B09CH	3	**	4	U28RT	3	13456	6	13463	6	54H	5	1-4/0	3	6	
250	YELLOW	⅞	6	**	4	B26CH	3	**	4	U29RT	3	13456	6	13463	6	62	3	1/0-250	3	6	
300	WHITE					B10CH B10CH	3			U30RT	3			13465	6	66	3	2/0-300	3	6	
350	RED					B11CH	3			U31RT	4			13465	6	71H	4	3/0-350	3	6	
400	BLUE					B11CH	4			U32RT	4			13467	6	76	3	4/0-400	3	6	
500	BROWN					B12CH B12CH	4			U34RT	5			13468	8	87H	4	4/0-500	3	6	
600	GREEN					B36CH [†]	6			U36RT [‡]	5					94H	4	250-600		8 VC7FT only	
750	BLACK					B39CH [†] 6039RT [‡]	6 2			U39RT [‡]	6					106H	6	500-750		9 VC7FT only	
1000	—					6044RT [‡]	2			P44RT [‡]	6					125H	5	750-1000		2	

* CSA Listed range 4-2 with YC6 and VC6FT

[†] HCT7508-12, HCT1239, HCT7508H only

^{††} Users of VC6 and VC7 tools must strip off an extra 1/8" of insulation from end of cable to permit removal of tool over conductor sizes 250 MCM and larger on CU connectors

^{†††} Also use VC8 tool with aluminum nibs

** Adjustable Indent Tool. No insert dies required

[‡] JB60A, JB60B only

^{††††} VC8 tool crimps 500 MCM only

• JB12A, JB12B, HCT1239, HCT7508-12, HCT7508H

[‡] Y39, Y46 only

^{†††††} VC8 tool crimps 500-600 MCM only

[‡] Y46 only

For Flexible Rope Stranded or Flexible Stranded Tinned Copper Locomotive Conductor, Welding Cable and Portable Cord

Short Barrel — Types CTL, CTL-2 and CSP

CONDUCTOR TYPE					DIE COLOR CODE	BLACKBURN TOOLS		BURNDY TOOLS				T&B TOOLS		ANDERSON TOOLS			
LOCOMOTIVE SIZE	STANDING	WELDING CABLE	PORTABLE CORD	STRANDED CU AWG SIZE		HYD. JB12B*	CRIMPS PER END	MECH. MY29-11	CRIMPS PER END	HYD. Y35 Y39 Y46	CRIMPS PER END	HYD. TBM15	CRIMPS PER END	CU WIRE RANGE FOR LOCOMOTIVE CABLE	VC6†	VC7‡	VC8**
6	37/24	—	8	8	RED	B71CH	1	**	1	—	—	21	2				
6	61/24	6	6	6	BLUE	B73CH	1	**	1	U5CD-1 Y34PR ³	1	24	2				
5	91/24			4	GRAY	B74CH	1	**	1	U4CD-1 Y34PR	1	29	2				
4	105/24	4	4	3	WHITE			**	2	U3CD-1 Y34PR	1						
3	125/24	3	3	2	BROWN	B75CH	1	**	2	U2CD-1 Y34PR	1	33	2	4-3	1	2	
2	150/24	2	2	1	GREEN	B05CH	1	**	2	U1CD-1 Y34PR	1	37	2	4-2	1	2	
1	225/24	1	1	1/0	PINK	B06CHI	2	**	2	U250-1 Y34PR	1	42H	3	4-1	1	2	
1/0	275/24	1/0	1/0	2/0	BLACK	B72CH	1	**	2	U26CD-1 Y34PR	1	45	2	4-1/0	1	2	
2/0	325/24	2/0	2/0	3/0	ORANGE	B08CH	1	**	2	U270-1 Y34PR	2	50	2	2-2/0	2	2	
—	—	3/0	3/0	4/0	PURPLE	B09CH	2	**	2	U280-1 Y34PR	2	54H	3				
3/0	450/24	4/0		250	YELLOW	B26CH	2	**	2	U290-1 Y34PR ³	2	62	2	1/0-3/0 [†]	2	2	
4/0	550/24		4/0	300	WHITE	B12CHI B12CH	2			U300-1 Y34PR ³	2	66	2	2/0-4/0 [†]	2		
263	650/24			300	RED	B11CH	2			U310-1 Y34PR ³	2	71H	3	3/0-263 [†]	2	3	
313	775/24			400	BLUE	B11CH	2			Y320-1 Y34PR ³	2	76	2	4/0-313V	2	3	
373	925/24			500	BROWN	B10CHI B10CH	2			U340-1 Y34PRV		87H	3	4/0-373 [†]	2	3	2 ^{†††}
444	1100/24			600	GREEN	B36CH	3			C360 Y46PR ⁴	2	94H	3	262-444		3 VC7FT Only	2 ^{†††}
535	1325/24			750	BLACK	B39CH ¹ 6039RT ²	1			C390 Y46PR ⁴	2	106H	3	373-535		4 VC7FT Only	2
646 777	1600/24 1925/24			1000	—	6044RT ²	1			C440 Y46PR ⁴	2	125H	4	535-777			2

** Adjustable Indent Tool. No insert dies required

* JB12A, JB12B, HCT7508-12, HCT7508H, HCT1239

¹ HCT7508-12, HCT7508H, HCT1239 only

² JB60A, JB60B only

³ Y39 only

⁴ Y48B only

† User of VC6 and VC7 tools must strip off an extra 1/8" of insulation from end of cable to permit removal of tool over conductor sizes 250 MCML and larger on CSP connectors

†† Also use VC8 tool with aluminum nibs

††† VC8 tool crimps 500 KCML only

Tool and Die Index for Color-Coded Compression Connectors



For Flexible Rope Stranded or Flexible Stranded Tinned Copper Locomotive Conductor Welding Cable and Portable Cord

Long Barrel — Types CTL-L, LNC and CU

CONDUCTOR TYPE					DIE COLOR CODE	BLACKBURN TOOLS		BURNDY TOOLS				T&B TOOLS		ANDERSON TOOLS			
LOCOMOTIVE SIZE	STANDING	WELDING CABLE	PORTABLE CORD	STRANDED CU AWG SIZE		HYD. JB12B*	CRIMPS PER END	MECH. MY29-11	CRIMPS PER END	HYD. Y35 Y39 Y46	CRIMPS PER END	HYD. TBM15	CRIMPS PER END	CU WIRE RANGE FOR LOCOMOTIVE CABLE	VC6 [†] VC6FT	VC7 [†] VC7FT	VC8C ^{††} VC8CFT
8	37/24	—	8	8	RED	B71CH	2	**	2	—	—	21	3				
6	61/24	6	6	6	BLUE	B73CH	2	**	2	U5CD-1 Y34PR [‡]	2	24	3				
6	91/24			4	GRAY	B74CH	2	**	2	U4CD-1 Y34PR	2	29	3				
4	105/24	4	4	3	WHITE			**	3	U3CD-1 Y34PR	2						
3	125/24	3	3	2	BROWN	B75CH	2	**	3	U2CD-1 Y34PR	2	33	3	4-2	2	4	
2	150/24	2	2	1	GREEN	B05CH	2	**	3	U1CD-1 Y34PR	2	37	3	4-2	2	5	
1	225/24	1	1	1/0	PINK	B06CH	3	**	3	U250-1 Y34PR	2	42H	4	4-1	2	5	
1/0	275/24	1/0	1/0	2/0	BLACK	B72CH	2	**	3	U26CD-1 Y34PR	2	45	3	4-1/0	2	5	
2/0	325/24	2/0	2/0	3/0	ORANGE	B08CH	2	**	4	U270-1 Y34PR	2	50	3	2-2/0	3	6	
—	—	3/0	3/0	4/0	PURPLE	B09CH	3	**	4	U280-1 Y34PR	3	54H	5				
3/0	450/24	4/0		250	YELLOW	B26CH	3	**	4	U290-1 Y34PR [‡]	3	62	3	1/0-3/0 [†]	3	6	
4/0	550/24		4/0	300	WHITE	B12CHI B12CH	3			U300-1 Y34PR [‡]	3	66	3	2/0-4/0 [†]	3	6	
263	650/24			350	RED	B11CH	3			U310-1 Y34PR [‡]	3	71H	4	3/0-263 [†]	3	6	
313	775/24			400	BLUE	B11CH	2			Y320-1 Y34PR [‡]	3	76	3	4/0-313 [†]	3	6	
373	925/24			500	BROWN	B2CHI B12CH	4			U340-1 Y34PR [‡]		87H	3	4/0-373V	3	6	3 ^{††}
444	1100/24			600	GREEN	B36CH	6			C360 Y46PR [‡]	2	94H	4	262-444		8 VC7FT Only	3 ^{††}
535	1325/24			750	BLACK	B39CH [†] 6039RT [‡]	2			C390 Y48PR [‡]	2	106H	6	373-535		9 VC7FT Only	4
646	1600/24			1000	—	6044RT [‡]	2			C440 Y46PR [‡]	2	125H	5	535-777			4
777	1925/24			1000	—	6030AH [‡]	2			C460 Y46PR [‡]	2	—	—	1111	—	—	4
1111	2750/24			1500	—	6030AH [‡]	2			C460 Y46PR [‡]	2	—	—	1111	—	—	4

** Adjustable Indent Tool. No insert dies required

* JB12A, JB12B, HCT7508-12, HCT7508H, HCT1239

[†] HCT7508-12, HCT7508H, HCT1239 only

[‡] JB60A, JB60B only

[‡] Y39 only

[‡] Y48B only

† User of VC6 and VC7 tools must strip off an extra 1/8" of insulation from end of cable to permit removal of tool over conductor sizes 250 MCMIL and larger on CSP connectors

†† Also use VC8 tool with aluminum nibs

††† VC8 tool crimps 500 KCMIL only

One and Two Hole Lugs, Splices — Types ATL and ASP

AL OR CU STRAND WIRE SIZE	DIE COLOR CODE	BLACKBURN TOOLS						BURNDY TOOLS				T&B TOOLS					ANDERSON TOOLS			
		MECH. OD58	CRIMPS PER END	MECH. NRG 2506	CRIMPS PER END	HYD. JB12B*	CRIMPS PER END	MECH. MY29-3	CRIMPS PER END	HYD. Y35, Y39	CRIMPS PER END	MECH. TBM5S	CRIMPS PER END	MECH. TBM6S	CRIMPS PER END	HYD. TBM15	CRIMPS PER END	AL OR CU WIRE RANGE	VC6† VC6FT CRIMPS PER END	VC8C CRIMPS PER END
8	BLUE	1/4	2	**	1	B73CH	1	**	1	U8CABT	1	13454	2	13461	2	24	2			
6	GRAY	5/16	2	**	1	B74CH	1	**	1	U6CABT	2	13454	2	13461	2	29	2			
4	GREEN	P	3	**	2	B05CH	1	**	2	U4CABT	2	13455	2	13462	2	37	2			
2	PINK	1/2	4	**	2	B06CHI	2	**	2	U2CABT	2	13455	3	13462	3	42H	3	6-2	2	
1	GOLD	3/4-1	3	**	2	B06CHI	2	**	2	U1CABT	2	13455	3	13464	3	45	2	4-1	2	
1/0	TAN	5/8	4	**	2	B06CH	2	**	2	U25ART	2	13457	3	13464	3	50	2	6-1/0	2	
2/0	OLIVE	3/4-1	4	**	2	B09CH	2	**	2	U26ART	2	13457	3	13464	3	54H	3	4-2/0	2	
3/0	RUBY	688	5	**	2	B26CH	2	**	2	U27ART	2	13457	3	13464	3	60	2	4-3/0	2	
4/0	WHITE	781	5	**	2	B10CHI	2	**	2	U28ART	2	13457	3	13465	4	66	3	2-4/0	2	
250	RED	781	5	**		B11CH	3	**	2	U29ART	2	13473	4	13466	5	71H	4	1/0-250†	2	
300	BLUE	840				B11CH	3			U30ART	2					76	2	1/0-300†		
350	BROWN					B12CHI	4			U31ART	2			13468	7	87H	4	2/0-350†	2	
400	GREEN					B36CH	6			U32ART	4					94	2	3/0-400†	2	
500	PINK					B76CH	4			U34ART	4					99H	4	4/0-500†	2	
600	BLACK					6039RT ¹	2			U36ART	4					106	2	350-600 AL 350-600 CU	3 ^{††}	
750						6024AH ¹	1			U39RT2 ²	4					125H	5	500-750 AL 600 CU		2 ^{†††}
1000	—					6030AH ¹	2			P44ART ³	3					150H	5	750-1000 AL		2 ^{†††}

• JB12A, JB12B, HCT7508-12, HCT1239

** Adjustable Indent Tool. No insert dies required

¹ JB60A, JB60B only

² Y46 only

³ Y39 only

[†] Users of VC6 and VC7 tools must strip off an extra 1/8" of insulation from end of cable to permit removal of tool over conductor sizes 250 MCM and larger on CU connectors

^{††} VC6FT tool only

^{†††} With AL nibs for VC8C

Blackburn®

Blackburn® Mechanical



Mechanical Connectors — Quick Reference	C-16
Split-Bolt Connectors.....	C-17-C-19
Service Post Connectors.....	C-20-C-21
Parallel Groove Connectors.....	C-22
Insulated Conductor Connectors.....	C-23
Two-Bolt Connectors	C-24-C-25
AMT Connectors.....	C-26-C-31
Power Distribution Blocks.....	C-32-C-33
Anti-Rotational Connectors.....	C-34
Dual-Rated Mechanical Connectors.....	C-35-C-41
Copper Mechanical Connectors	C-42-C-43
LOCKTITE® Connectors — Code Copper Conductor (for 600V).....	C-44-C-50
Tap Connectors — Code Copper Conductor	C-50

Blackburn® Mechanical

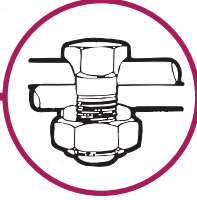
Thomas & Betts

United States
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

Technical Services
Tel: 888.862.3289

www.tnb.com

Type H, HPS, HPW



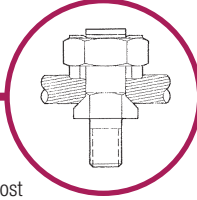
Copper
Split-Bolt Connectors
See Pages C-17–C-18

Type APS, AAW, CA



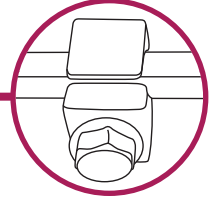
Aluminum
Split-Bolt Connectors
See Pages C-18–C-19

Type SP



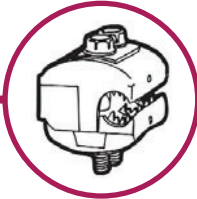
Service Post
Connectors
See Pages C-20–C-21

ViceLock™



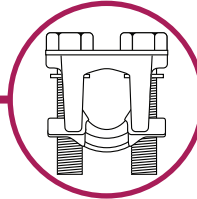
See Page C-22

Type IPC



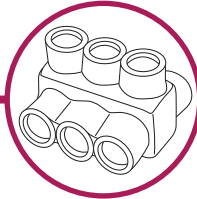
Insulation
Piercing Connectors
See Page C-23

Type 2B, 2BX, 2BW, 2BPW



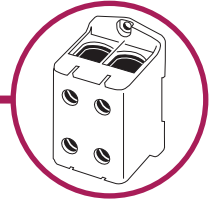
Two-Bolt Connectors
See Pages C-24–C-25

AMT



AMT Connectors
See Pages C-26–C-31

PDS



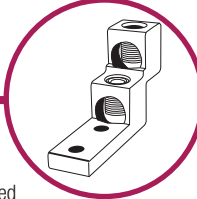
Power
Distribution Blocks
See Pages C-32–C-33

Type ADR



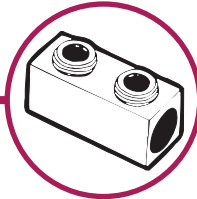
Dual-Rated
Mechanical Connectors
See Pages C-34–C-38

Type ASL



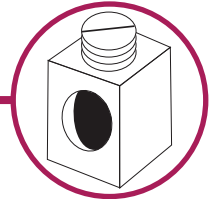
Dual-Rated
Mechanical Connectors
See Pages C-38–C-39

Type ASR



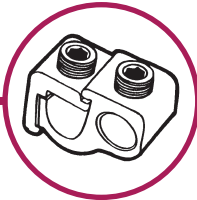
Splicer Reducer
See Page C-40

Type BX



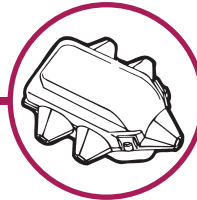
Rectangular Connectors
See Page C-40

Type GP, GT



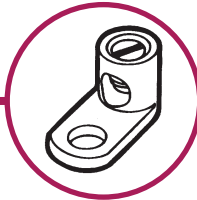
Aluminum
Parallel Tap Connectors
See Pages C-40–C-41

Type TC



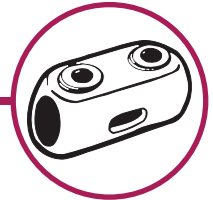
Insulating Covers
See Page C-41

Type L, TL



Copper
Mechanical Connectors
See Page C-42

Type S



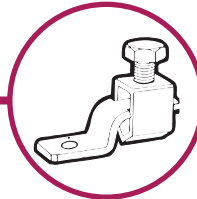
Copper Splice
See Page C-42

UFSK, DBSK



Direct-Burial
Splice Kits
See Page C-43

Type STC, BTC



Copper
Mechanical Connectors
See Page C-43

LOCKTITE®



LOCKTITE® Connectors
See Page C-44–C-50

Tap

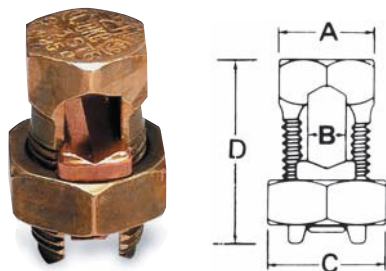


Tap Connectors
See Page C-50

For copper-to-copper connections.



Type H — High Strength Split-Bolt Connectors



- Bolt and nut of high-strength corrosion-resistant bronze alloy
- Pressure bar is copper through 40H, copper alloy for 350 kcmil and above
- Bolt and nut of hex design up to 350 kcmil
- Tested and Listed to UL486C, UL467 for grounding and for direct burial through Cat. No. 40H

CAT. NO.	CONDUCTOR RANGE (AWG OR KCMIL)		DIMENSIONS (IN.)			
	RANGE FOR EQUAL MAIN AND TAP	MIN. TAP WITH ONE MAX. MAIN	A	B	C	D
9H	10 Str.–12 Sol.	14 Sol.	3/8	.146	1/2	25/32
8H	8 Str.–10 Sol.	14 Sol.	3/8	.146	1/2	25/32
8H3*	8 Str.–12 Sol.	16 Str.	3/8	.146	1/2	25/32
6H	6 Sol.–8 Sol.	14 Sol.	15/32	.170	21/32	31/32
6H3*	6 Sol.–10 Sol.	16 Str.	15/32	.170	21/32	1 1/8
4H	4 Sol.–8 Sol.	14 Sol.	17/32	.235	23/32	1 1/16
4H3*	4 Sol.–8 Sol.	16 Str.	17/32	.235	23/32	1 1/16
3H	3 Sol.–8 Sol.	16 Str.	17/32	.235	23/32	1 1/16
3H3*	4 Str.–8 Sol.	16 Str.	17/32	.235	23/32	1 1/16
2H	2 Sol.–6 Sol.	14 Sol.	19/32	.271	25/32	1 1/4
2H3*	2 Sol.–6 Sol.	14 Sol.	19/32	.271	25/32	1 15/32
1H	2 Str.–6 Sol.	14 Sol.	1 1/16	.330	7/8	1 1 1/2
1H3**	2 Str.–6 Sol.	14 Sol.	1 1/16	.330	7/8	1 1/8
10H	1/0 Str.–4 Sol.	14 Sol.	3/4	.385	1 1/16	1 9/16
20H	2/0 Str.–2 Sol.	14 Sol.	7/8	.443	1 1/16	1 9/16
30H	4/0 Str.–2 Sol.	6 Sol.	1	.580	1 1/16	2 5/16
40H	250 kcmil–1 Str.	8 Sol.	1	.580	1 1/16	2 5/16
350M	350 kcmil–250 kcmil	1/0 Str.	1 1/16	.717	1 23/32	2 1 1/16
500M	500 kcmil–400 kcmil	2/0 Str.	1 1/2	.842	1 7/8	3 3/16
750M	750 kcmil–600 kcmil	4/0 Str.	1 15/16	1.029	2 1/4	3 3 1/2
1000M	1,000 kcmil–800 kcmil	4/0 Str.	2 1/4	1.185	2 27/32	4 1/2

* Will accommodate 3 wires of maximum size.

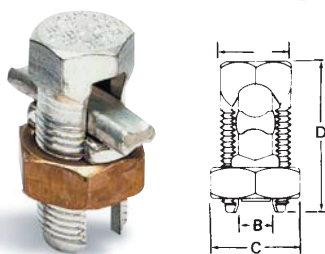
The H3 bolts are not UL Listed or CSA Certified.

** Will accommodate 3 #2 Stranded wires.

UL recognizes solid and stranded conductor configurations for sizes #8 and smaller and stranded configurations only for sizes #6 and larger.

For use on copper, aluminum and ACSR conductors.

Type HPS — Plated Split-Bolt Connectors with Spacer



- Bolt and pressure bar of copper alloy, completely tin plated for corrosion resistance
- Contoured spacer of electrolytic copper up through 4/0, bronze alloy for 350 kcmil and above, all tin plated
- Most connectors are UL Listed and CSA Certified for copper conductor only
- Blackburn Contax® paste recommended when used on aluminum conductor



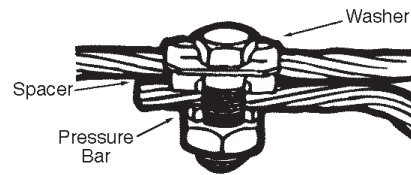
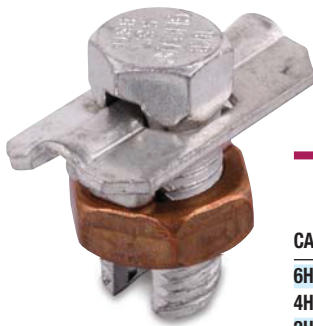
CAT. NO.	CONDUCTOR RANGE (AWG OR KCMIL)			DIMENSIONS (IN.)			
	RANGE FOR EQUAL MAIN AND TAP	RANGE FOR EQUAL MAIN AND TAP	MIN. TAP WITH ONE MAX. MAIN	A	B	C	D
9HPS	—	10 Str.–12 Sol.	12 Sol.	3/8	.146	1/2	25/32
8HPS	—	8 Str.–12 Sol.	12 Sol.	3/8	.146	1/2	25/32
6HPS	8	6 Sol.–12 Sol.	12 Sol.	15/32	.170	21/32	1 1/8
4HPS	6–8	4 Sol.–12 Sol.	12 Sol.	17/32	.235	23/32	1 1/16
2HPS	4–8	2 Sol.–8 Sol.	8 Sol.	19/32	.271	25/32	1 15/32
1HPS	2–8	1 Str.–8 Sol.	8 Sol.	1 1/16	.330	7/8	1 1/8
10HPS	1–6	1/0 Str.–6 Sol.	6 Sol.	3/4	.385	1 1/16	1 9/16
20HPS	1/0–6	2/0 Str.–6 Str.	6 Sol.	7/8	.443	1 1/16	1 9/16
40HPS	4/0–4	4/0 Str.–4 Sol.	4 Sol.	1	.580	1 1/16	2 1 1/16
350HPS	266.8–1/0	350 kcmil–1/0 Str.	2 Sol.	1 1/16	.717	1 23/32	2 1 1/16
500HPS*	397.5–1/0	500 kcmil–1/0 Str.	1/0 Str.	1 1/2	.842	1 7/8	3 3/16
750HPS*	666.6–4/0	750 kcmil–4/0 Str.	2/0 Str.	1 15/16	1.029	2 1/4	3 3 1/2
1000HPS*	900–477	1,000 kcmil–500 kcmil	4/0 Str.	2 1/4	1.185	2 27/32	4 1/2

* Not CSA Certified. UL 486A

For combinations of copper, aluminum and ACSR conductors.

Type HPW — Plated Split-Bolt Connectors with Spacer and Washer

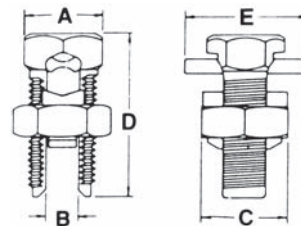
- Bolt and pressure bar of high-strength copper alloy completely tin plated
- Spacer and washer of electrolytic copper up through 4/0, bronze alloy 350 kcmil and above, all tin plated
- Contoured spacer and bell mouth washer distribute pressure over large area of conductor
- Large contoured spacer provides wide separation between copper and aluminum conductors
- Blackburn Contax® paste recommended when used with aluminum conductor



CAT. NO.	CONDUCTOR RANGE (AWG)			DIMENSIONS (IN.)			
	RANGE FOR EQUAL MAIN AND TAP	RANGE FOR EQUAL MAIN AND TAP	MIN. TAP WITH ONE MAX. MAIN	A	B	C	D
	ACSR	COPPER OR ALUMINUM					
6HPW	8	6 Sol.–12 Sol.	12 Sol.	1/2	.170	2 1/2	1 1/8
4HPW	6–8	4 Sol.–12 Sol.	12 Sol.	1/2	.235	2 3/2	1 3/2
2HPW	4–8	2 Sol.–8 Sol.	8 Sol.	1/2	.271	2 5/2	1 1/2
1HPW	2–8	1 Str.–8 Sol.	8 Sol.	1/6	.330	7/8	1 1/8
10HPW	1–6	1/0 Str.–6 Sol.	6 Sol.	3/4	.385	1 5/16	1 13/16
20HPW	1/0–6	2/0 Str.–6 Sol.	6 Sol.	3/4	.443	1 1/8	2 1/16
40HPW	4/0–4	4/0 Str.–4 Sol.	4 Sol.	1	.580	1 5/8	2 1/2

Accommodates all aluminum and copper conductor combinations.

Type APS — Aluminum Dual-Rated Split Bolts



- 6 bolts cover range from #10 to 4/0 AWG
- Install with standard wrenches
- Corrosion-resistant tin-plated aluminum
- Tested and Listed to UL® 486B, 90° C requirements

CAT. NO.	CONDUCTOR RANGE EQUAL MAIN & TAP	DIMENSIONS (IN.)				
		A	B	C	D	E
APS06	6–10 Str.	1 7/32	.21	2 3/32	1.27	1 1/4
APS04	4–10 Str.	1 9/32	.27	2 5/32	1.48	1 1/4
APS02	2–8 Str.	1 1/16	.33	7/8	1.63	1 1/4
APS11	1/0–4 Str.	7/8	.44	1 1/8	2.07	1 1/2
APS21	2/0–4 Str.	7/8	.44	1 1/8	2.07	1 1/2
APS41	4/0–2 Str.	1 1/8	.54	1 1/2	2.47	1.55
APS350*	350 kcmil–4 Str.	1 1/16	.70	1 1/16	3.36	2 1/4
APS500*	500 kcmil–2 Str.	1 1/16	.84	2	3.62	2 5/8

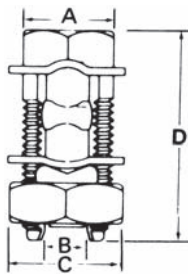
* Square head design not CSA certified



For all aluminum applications.

Type AAW — Aluminum Split-Bolt Connectors with Spacer and Washers

- Bolt, nut, pressure bar and contoured spacer of aluminum alloy
- Large contoured spacer provides wide separation
- Nut anodized to prevent thread galling
- Blackburn Contax® paste recommended when used on aluminum conductor

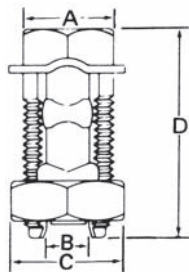


CAT. NO.	CONDUCTOR RANGE (AWG)			DIMENSIONS (IN.)			
	RANGE FOR EQUAL MAIN AND TAP	RANGE FOR EQUAL MAIN AND TAP	MIN. TAP WITH ONE MAX. MAIN	A	B	C	D
	ACSR	ALUMINUM					
6AAW	6-8	4 Sol.-8 Sol.	10 Sol.	17/32	.236	23/32	1 1/2
4AAW	4-8	2 Sol.-8 Sol.	8 Sol.	19/32	.272	25/32	1 1/2
2AAW	2-8	1 Str.-8 Sol.	8 Sol.	1 1/16	.330	7/8	1 1/2
1AAW	1-4	1/0 Str.-2 Sol.	4 Sol.	7/8	.443	1 1/8	2 1/16
10AAW	1/0-4	2/0 Str.-2 Sol.	4 Sol.	7/8	.443	1 1/8	2 1/16
40AAW	4/0-4	4/0 Str.-4 Sol.	4 Sol.	1	.580	1 1/4	2 1/2

Contoured spacer and bell-mouth washer distribute pressure over large area of conductor.

Type CA — Aluminum Split-Bolt Connectors with Spacer and Washer

- Bolt, nut and washer made of high-strength aluminum alloy
- Pressure bar and contoured spacer made of electrolytic copper
- Spacer is completely tin plated
- Bolt and nut are anodized to prevent seizing of threads and reduce galvanic corrosion when in contact with copper conductor
- Blackburn Contax® paste recommended with this connector



CAT. NO.	CONDUCTOR RANGE (AWG)		DIMENSIONS (IN.)			
	RANGE FOR EQUAL MAIN AND TAP	MIN. TAP WITH ONE MAX. MAIN	A	B	C	D
	COPPER OR ALUMINUM					
6CA	4 Sol.-6 Sol.	4 Sol.-12 Sol.	17/32	.236	23/32	1 1/2
4CA	2 Sol.-4 Sol.	2 Sol.-10 Sol.	19/32	.272	25/32	1 1/2
2CA	1 Str.-4 Sol.	1 Str.-8 Sol.	1 1/16	.330	7/8	1 1/2
1CA	1/0 Str.-2 Sol.	1/0 Str.-6 Sol.	7/8	.443	1 1/8	2 1/16
10CA	2/0 Str.-2 Sol.	2/0 Str.-6 Sol.	7/8	.443	1 1/8	2 1/16
40CA	4/0 Str.-2/0 Sol.	4/0 Str.-4 Sol.	1	.580	1 1/4	2 1/2

For grounding of steel structures, fence posts

Service Post Connectors



- For copper-to-copper connections
- For tapping one or two cables from bus bar
- Hex design bolts machined from high-conductivity bronze alloy
- Nuts and pressure bars cold-formed from high-strength copper or copper alloy

Blackburn® Mechanical

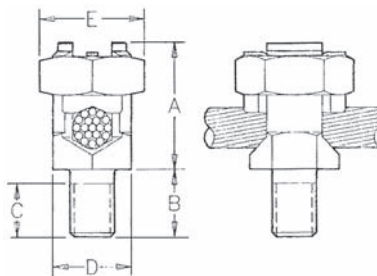
Single- and Double-Conductor Service Post Connectors, Short Stud



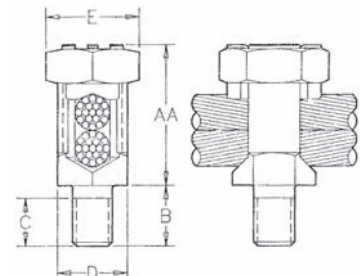
CAT. NO.		CONDUCTOR RANGE AWG MM ²				MAXIMUM DIAMETER RANGE (IN.)	STUD SIZE	DIMENSIONS (IN.)					
SP-D	SP-S	STRANDED		SOLID				A	AA	B	C	D	E
SP0DS	SP0SS	8	12	8	12	.146-.080 4mm ²	¼-20 x ½	1/16	13/16	½	55/64	15/32	½
SP1DS	SP1SS	7	10	6	10	.170-.102 6mm ²	¼-20 x ½	1/16	3/32	½	55/64	15/32	21/32
SP2DS	SP2SS	5	10	4	10	.217-.102 6mm ²	5/16-18 x 5/8	1/16	1 1/8	5/8	53/64	17/32	23/32
SP3DS	SP3SS	3	10	2	10	.271-.102 6mm ²	3/8-16 x 5/8	1/8	1 1/4	5/8	61/64	5/8	25/32
SP4DS	SP4SS	1	8	2	8	.332-.128 10mm ²	3/8-16 x 5/8	1/16	1 3/8	5/8	61/64	11/16	7/8
SP5DS	SP5SS	1/0	2	2	—	.385-.258 —	½-13 x 3/4	1/4	1 1/2	3/4	1 1/4	3/4	1 1/16
SP6DS	SP6SS	2/0	2	2	—	.443.258 —	½-13 x 3/4	1 1/2	1 1/16	3/4	1 1/4	7/8	1 1/16
SP8DS	SP8SS	4/0	1	—	—	.570-.289 —	5/8-11 x 1	1/16	2 1/16	1	1 1/4	1	1 1/16
SP9DS	SP9SS	350	1/0	—	—	.715-.373 —	5/8-11 x 1	2	2 3/4	1 1/4	1 1/4	1 1/16	1 1/16
SP10DS	SP10SS	500	3/0	—	—	.840-.464 —	5/8-10 x 1 1/4	2 1/4	3 3/8	1 1/4	1 3/4	1 1/2	1 1/8

Blackburn Service Post Connectors are designed for applications including steel structure, fence post or transformer grounding involving one or two cables. They can also be used to tap one or two cables from bus bar.

Bolts used in the Service Post Connectors are machined from high-conductivity bronze alloy while the nuts are cold-formed from high strength, corrosion-resistant copper alloy. Pressure bars are copper through 4/0 size, while copper alloy is used for 350 mcm size and above. Bolts and nuts are of the traditional Blackburn hex design for easy installation.



Single-Conductor Short Stud



Double-Conductors Short Stud

or transformers using one or two cables.

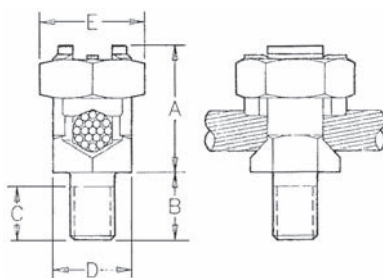
- Available in sizes for #12 – 500 kcmil stranded and #12 – #2 solid copper conductor
- Available in both single- and double-conductor versions
- UL 486A and UL 467 Listed



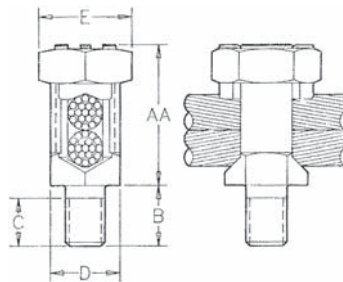
Single- and Double-Conductor Service Post Connectors, Long Stud



CAT NO.	CONDUCTOR RANGE AWG MM2	CONDUCTOR RANGE				MAXIMUM DIAMETER RANGE (IN.)	STUD SIZE	DIMENSIONS (IN.)					
		STRANDED		SOLID				A	AA	B	C	D	E
SP-S	SP-D	MAX.	MIN.	MAX.	MIN.								
SP0SL	SP0DL	8	12	8	12	.146-.080 4mm ²	¼-20 x 1	1 ¹ / ₁₆	1 ³ / ₁₆	1	5 ⁵ / ₆₄	1 ⁵ / ₃₂	½
SP1SL	SP1DL	7	10	6	10	.170-.102 6mm ²	¼-20 x 1	1 ³ / ₁₆	3 ¹ / ₂	1	5 ⁵ / ₆₄	1 ⁵ / ₃₂	2 ¹ / ₃₂
SP2SL	SP2DL	5	10	4	10	.217-.102 6mm ²	5 ¹ / ₁₆ -18 x 1	1 ⁵ / ₁₆	1 ¹ / ₂	1	5 ⁵ / ₆₄	1 ⁷ / ₃₂	2 ¹ / ₃₂
SP3SL	SP3DL	3	10	2	10	.271-.102 6mm ²	¾-16 x 1 ¹ / ₂	1	1 ¹ / ₄	1 ¹ / ₂	6 ¹ / ₆₄	5 ¹ / ₈	2 ⁵ / ₃₂
SP4SL	SP4DL	1	8	2	8	.332-.128 10mm ²	¾-16 x 1 ¹ / ₂	1 ¹ / ₁₆	1 ¹ / ₂	1 ¹ / ₂	6 ¹ / ₆₄	1 ¹ / ₁₆	¾
SP5SL	SP5DL	1/0	2	2	—	.385-.258 —	½-13 x 1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₂	1 ¹ / ₄	1 ¹ / ₄	¾	1 ⁵ / ₁₆
SP6SL	SP6DL	2/0	2	2	—	.443-.258 —	½-13 x 1 ¹ / ₄	1 ¹ / ₂	1 ³ / ₁₆	1 ¹ / ₄	1 ¹ / ₄	¾	1 ¹ / ₁₆
SP8SL	SP8DL	4/0	1	—	—	.570-.289 —	¾-11 x 1 ¹ / ₂	1 ¹ / ₁₆	2 ¹ / ₁₆	1 ¹ / ₂	1 ¹ / ₆₄	1	1 ¹ / ₁₆
SP9SL	SP9DL	350	1/0	—	—	.715-.373 —	¾-11 x 1 ¹ / ₂	2	2 ¹ / ₄	1 ¹ / ₂	1 ¹ / ₆₄	1 ¹ / ₁₆	1 ¹ / ₁₆
SP10SL	SP10DL	500	3/0	—	—	.840-.464 —	¾-10 x 1 ¹ / ₂	2 ¹ / ₄	3 ¹ / ₈	1 ¹ / ₂	1 ³ / ₆₄	1 ¹ / ₂	1 ¹ / ₈



Single-Conductor
Long Stud



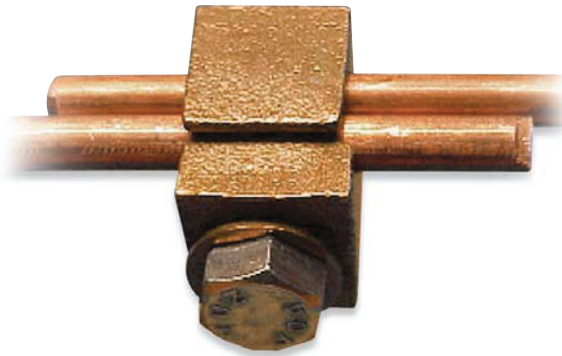
Double-Conductors
Long Stud

Blackburn®

Parallel Groove Connectors

Create a superior electrical connection — while saving time and money.

Blackburn® Bronze ViceLock® Connectors



Blackburn® Mechanical

- Offer superior electrical performance
- Make a permanent connection
- Vibration-resistant
- Install quickly and easily with no need for special or heavy tools
- Can be installed with live line tools
- V-grooves enable easy conductor alignment
- Simple to install without cross-threading
- Full thread engagement design increases bolt strength
- High-pressure/torque ratio ensures a low electrical resistance connection
- Helps reduce inventory by accepting a wide range of conductors

Specifications

- Silicon bronze material (CDA956000) for higher yield strength
- Large sizes include stainless steel hardware
- Bellcore approved

Typical Applications

- Distribution loads
- Service bonding
- Tap connections
- Ground connections
- Also has grounding capability with a variety of cable tray, channel and strut applications



CAT. NO.	2 CONDUCTORS WIRE RANGE*			INNER CTN. QTY.	MASTER CTN. QTY.	COMPETITOR CROSS REF.	
	MAX.	MIN.	DECIMAL (IN.)			FARGO	RELIABLE
VGC68	#6 Sol.	#10 Sol.	.162-.101	50	250	GC-5006	BVC-6
VGC68SH	#6 Sol.	#10 Sol.	.162-.101	50	250	GC-5006SH	—
VGC44	#4 Str.	#8 Sol.	.232-.128	50	250	GC-5004	BVC-4
VGC23	#2 Sol.	#6 Sol.	.286-.162	50	250	GC-5002	BVC-2
VGC12	#2 Str.	#5 Sol.	.320-.181	50	250	GC-5002S	BVC-2S
VGC2010	1/0 Str.	#4 Sol.	.390-.204	50	250	GC-5020	BVC-20
VGC3020	2/0 Str.	#3 Sol.	.438-.229	25	125	GC-5020S	BVC-20S
VGC4040	4/0 Str.	#1 Sol.	.552-.289	25	125	GC-5040	BVC-40

*Wire range indicates each connector's ability to accommodate two wires of the same size shown in the "MAX" or "MIN" columns.

Thomas & Betts

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No need to strip conductor insulation or use tape after installation.

Type IPC — Talon Insulation Piercing Connectors

- For copper-to-copper, copper-to-aluminum and aluminum-to-aluminum applications (insulated conductor only)
- Performs as splice or tap for non-tension applications up to 600 volts, depending on size of connector
- Self-insulated for hot line applications
- 6 sizes cover range from #10–500 kcmil
- UL 486B Listed AL9CU (90° C rated)



Blackburn® Mechanical

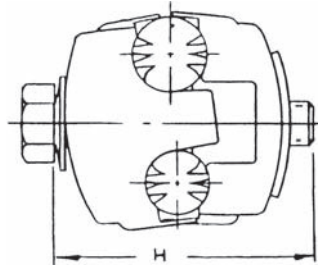
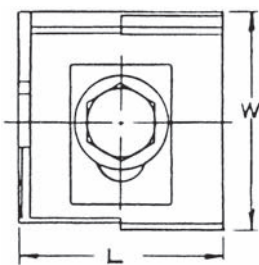


Fig. 1

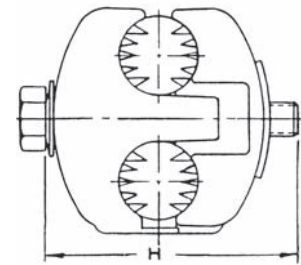
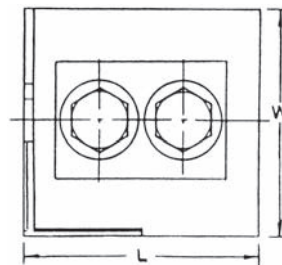


Fig. 2

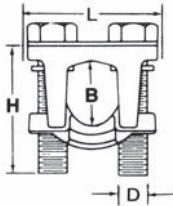


CAT. NO.	AL OR CU CONDUCTOR RANGE AWG/MM ²		NO. BOLTS	FIG.	DIMENSIONS (IN.)		
	MAIN	TAP			W	H	L
IPC1102*	1/0–8	2–8	1	1	2 ⁵ / ₁₆	2	1 ¹ / ₂
	50–6	35–6					
IPC4111	4/0–1/0	1/0–6	2	2	2 ¹ / ₂	3	1 ¹ / ₂
	95–50	50–16					
IPC4141	4/0–1/0	4/0–1/0	2	2	2 ⁵ / ₁₆	3 ³ / ₄	1 ² / ₁₆
	95–50	95–50					
IPC5041*	500–350	4/0–4	1	1	2	2 ¹ / ₂	2 ¹ / ₂
	240–185	90–25					
IPC3535	350–4/0	350–4/0	2	2	2 ¹ / ₁₆	2 ¹ / ₂	2 ¹ / ₂
	185–95	185–95					
IPC3541	350–4/0	4/0–10	1	1	2 ¹ / ₁₆	3	2 ¹ / ₂
	185–95	95–6					

* 600V Rating (All others 300V).

Neoprene washers capture bolts in bottom casting for easy installation.

Type 2B — Two-Bolt Connectors without Spacer



- Castings and bolts of high-strength copper alloy
- Removable cap
- UL 486A Listed for copper conductor only

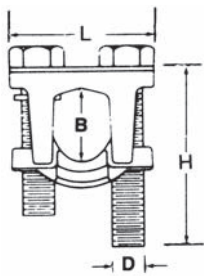


CAT. NO.	CONDUCTOR RANGE (AWG OR KCMIL)				CONDUCTOR DIAMETER (B)		BOLT HEAD	DIMENSIONS (IN.)		
	MAIN		TAP		MAX.	MIN.		L	H	D
	MAX.	MIN.	MAX.	MIN.						
2B10	1/0 Str.	2 Str.	1/0 Str.	10 Sol.	.746	.394	½	1⅞	1¼	⅝
2B20BB	2/0 Str.	2 Str.	2/0 Str.	8 Sol.	.838	.420	½	1⅞	1¼	⅝
2B40	4/0 Str.	1/0 Str.	4/0 Str.	6 Sol.	1.056	.530	⅝	12½	1¼	⅝
2B350	350 kcmil	4/0 Str.	350 kcmil	4 Sol.	1.362	.726	¾	2½	2	½
2B500	500 kcmil	350 kcmil	500 kcmil	4 Sol.	1.626	.883	¾	2¼	2½	½
2B800	800 kcmil	600 kcmil	800 kcmil	2 Sol.	2.062	1.149	¾	2½	2¾	½
2B1000	1000 kcmil	750 kcmil	1000 kcmil	2 Sol.	2.304	1.255	1⅝	2⅞	2¾	⅝

UL 486A

Extra-long bolt enables top casting to swing free over two conductors of maximum range.

Type 2BX — One-Piece Two-Bolt Connectors without Spacer



- Single-piece construction
- Castings and bolts of high-strength copper alloy
- Neoprene washer holds free bolt in place during installation
- UL 486A Listed for copper conductor only



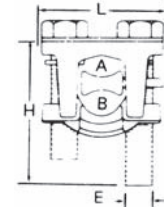
CAT. NO.	CONDUCTOR RANGE(AWG OR KCMIL)				CONDUCTOR DIAMETER (B)		BOLT HEAD	DIMENSIONS (IN.)		
	MAIN		TAP		MAX.	MIN.		L	H	D
	MAX.	MIN.	MAX.	MIN.						
2B10X	1/0 Str.	2 Str.	1/0 Str.	10 Sol.	.746	.394	½	1⅞	1½	⅝
2B20X	2/0 Str.	2 Str.	2/0 Str.	8 Sol.	.838	.420	½	1⅞	1½	⅝
2B40X	4/0 Str.	1/0 Str.	4/0 Str.	6 Sol.	1.056	.530	⅝	12½	1¼	⅝
2B350X	350 kcmil	4/0 Str.	350 kcmil	4 Sol.	1.362	.726	¾	2½	2¼	½
2B500X	500 kcmil	350 kcmil	500 kcmil	4 Sol.	1.626	.883	¾	2¼	2½	½
2B800X	800 kcmil	600 kcmil	800 kcmil	2 Sol.	2.062	1.149	¾	2½	2¾	½
2B1000X	1000 kcmil	750 kcmil	1000 kcmil	2 Sol.	2.304	1.255	1⅝	2⅞	3¼	⅝

UL 486A

Ringed, contoured spacer swings easily over conductor.

Type 2BW — Two-Bolt Connector with Spacer

- For use on copper conductors only
- Single-piece construction spacer
- Castings and bolts made of high-strength copper alloy
- Spacer made of ductile, high-conductivity copper alloy
- UL 486A Listed for copper conductor only

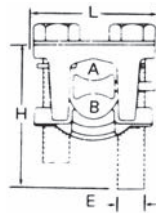


CAT. NO.	CONDUCTOR RANGE (AWG OR KCMIL)				CONDUCTOR DIAMETER				BOLT HEAD	DIMENSIONS (IN.)		
	MAIN		TAP		A		B			L	H	E
	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.				
2B10W	1/0 Str.	2 Str.	1/0 Str.	10 Sol.	.373	.292	.373	.102	½	1⅛	1⅞	⅝
2B20W	2/0 Str.	2 Str.	2/0 Str.	8 Sol.	.419	.292	.419	.128	½	1⅛	1⅞	⅝
2B40W	4/0 Str.	1/0 Str.	4/0 Str.	6 Sol.	.528	.368	.528	.162	⅝	1⅜	2⅞	⅞
2B350W	350 kcmil	4/0 Str.	350 kcmil	4 Sol.	.681	.522	.681	.204	¾	2⅞	2⅞	½
2B500W	500 kcmil	350 kcmil	500 kcmil	4 Sol.	.813	.679	.813	.204	¾	2⅞	2⅞	½
2B800W	800 kcmil	600 kcmil	800 kcmil	2 Sol.	1.031	.891	1.031	.258	¾	2⅞	3¼	½
2B1000W	1000 kcmil	750 kcmil	1000 kcmil	2 Sol.	1.152	.997	1.152	.258	1⅞	2⅞	3¼	⅝

For use on copper, aluminum and ACSR conductors.

Type 2BPW — Two-Bolt Connector with Spacer

- Single-piece construction spacer
- UL 486A Listed for copper conductor only



CAT. NO.	CONDUCTOR RANGE (AWG OR KCMIL)				CONDUCTOR DIAMETER				BOLT HEAD	DIMENSIONS (IN.)		
	MAIN		TAP		A		B			L	H	E
	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.				
2B10PW	1/0-2	1/0-6	1/0 Str.-2 Str.	1/0 Str.-2 Sol.	0.398	0.292	0.398	0.102	½	1⅛	1⅞	⅝
2B20PW	2/0-2	2/0-6	2/0 Str.-2 Str.	1/0 Str.-2 Sol.	0.447	0.292	0.447	0.128	½	1⅛	1⅞	⅝
2B40PW	4/0-1/0	4/0-6	4/0 Str.-1/0 Str.	4/0 Str.-1/0 Sol.	0.563	0.368	0.563	0.162	⅝	1⅜	2⅞	⅞
2B350PW	350-4/0	350-4	350-4/0	350-4 Sol.	0.680	0.522	0.680	0.204	¾	2⅞	2⅞	½
2B500PW	397.5-336.4	397.5-4	500-350	500-4 Sol.	0.813	0.679	0.813	0.204	¾	2⅞	2⅞	½
2B800PW	666.6-397.5	666.6-2	800-600	800-2 Sol.	1.031	0.891	1.031	0.258	¾	2⅞	3¼	½
2B1000PW	900-666.6	900-2	1000-750	1000-2 Sol.	1.162	0.997	1.162	0.258	1⅞	2⅞	3¼	⅝

Blackburn®

AMT Connectors

NEW!

Superior connections with lower installation costs.

AMT Connectors

- PVC insulation eliminates insulation failures and reduces outage costs
- UV-resistant material
- Compact design provides space efficiencies
- UL Listed

The high quality and built-in flexibility of Blackburn® AMT Connectors reduce the cost of field installations on splices, taps and terminations. They're easy and quick to install, and provide superior insulation that lasts the life of the connection.

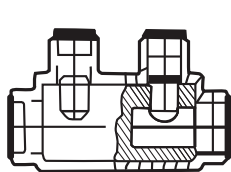


Fig. 1

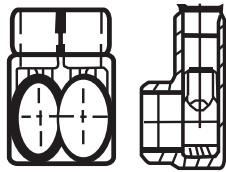


Fig. 2

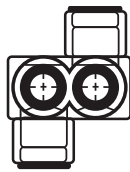


Fig. 3

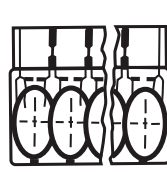


Fig. 4

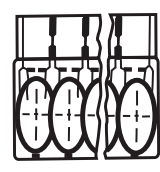
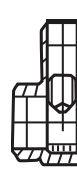


Fig. 5

AMT Aluminum Splice

CAT. NO.	FIGURE	NO. OF PORTS	WIRE RANGE	LENGTH	WIDTH	HEIGHT	HEX SIZE	STD. PKG. QTY.
AMTSR10	1	—	1/0–14 STR.	3.25	0.94	1.63	3/16	4
AMTSR250	1	—	250MCM–6 STR.	3.96	1.19	2.17	5/16	4
AMTSR350	1	—	350MCM–6 STR.	4.43	1.31	2.62	5/16	2
AMTSR500	1	—	500MCM–4 STR.	5.38	1.44	3.03	3/8	2
AMTSR750	1	—	750MCM–250MCM	7.25	1.75	3.16	1/2	2

AMT Splice Offset

CAT. NO.	FIGURE	NO. OF PORTS	WIRE RANGE	LENGTH	WIDTH	HEIGHT	HEX SIZE	STD. PKG. QTY.
AMTTC4	3	2	4–14 STR.	1.24	1.25	1.42	1/8	12
AMTT10	3	2	1/0–14 STR.	1.63	1.63	1.63	3/16	6
AMTT20	3	2	2/0–14 STR.	1.41	1.50	1.35	Slotted Screw	25
AMTT30	3	2	3/0–6 STR.	1.89	1.68	1.86	3/16	6
AMTT250	3	2	250MCM–10 STR.	2.03	2.63	2.2	5/16	25

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AMT Multi-Port Connector "Same Side"

CAT. NO.	FIG.	NO. OF PORTS	WIRE RANGE	LENGTH	WIDTH	HEIGHT	HEX SIZE	STD. PKG. QTY.
AMTC4	2	2	4-14 STR.	1.11	1.10	1.35	Slotted Screw	25
AMTS4142	2	2	4-14 STR.	1.24	1.22	1.42	1/8"	12
AMTS4143	4	3	4-14 STR.	1.7	1.22	1.42	1/8"	12
AMTS4144	4	4	4-14 STR.	2.16	1.22	1.42	1/8"	6
AMTS4145	4	5	4-14 STR.	2.61	1.22	1.42	1/8"	6
AMTS4146	4	6	4-14 STR.	3.07	1.22	1.42	1/8"	6
AMTS4147	4	7	4-14 STR.	3.53	1.22	1.42	1/8"	4
AMTS4148	4	8	4-14 STR.	3.99	1.22	1.42	1/8"	4
AMTS4149	4	9	4-14 STR.	4.45	1.22	1.42	1/8"	4
AMTS41410	4	10	4-14 STR.	4.9	1.22	1.42	1/8"	4
AMTS41411	4	11	4-14 STR.	5.36	1.22	1.42	1/8"	3
AMTS41412	4	12	4-14 STR.	5.82	1.22	1.42	1/8"	3
AMTS41413	4	13	4-14 STR.	6.28	1.22	1.42	1/8"	2
AMTS41414	4	14	4-14 STR.	6.74	1.22	1.42	1/8"	2
AMTS10142	2	2	1/0-14 STR.	1.67	1.53	1.63	3/16"	12
AMTS10143	4	3	1/0-14 STR.	2.29	1.53	1.63	3/16"	12
AMTS10144	4	4	1/0-14 STR.	2.92	1.53	1.63	3/16"	6
AMTS10145	4	5	1/0-14 STR.	3.54	1.53	1.63	3/16"	6
AMTS10146	4	6	1/0-14 STR.	4.17	1.53	1.63	3/16"	6
AMTS10147	4	7	1/0-14 STR.	4.79	1.53	1.63	3/16"	4
AMTS10148	4	8	1/0-14 STR.	5.42	1.53	1.63	3/16"	4
AMTS10149	4	9	1/0-14 STR.	6.04	1.53	1.63	3/16"	4
AMTS101410	4	10	1/0-14 STR.	6.67	1.53	1.63	3/16"	4
AMTS101411	4	11	1/0-14 STR.	7.29	1.53	1.63	3/16"	3
AMTS101412	4	12	1/0-14 STR.	7.92	1.53	1.63	3/16"	3
AMTS101413	4	13	1/0-14 STR.	8.54	1.53	1.63	3/16"	2
AMTS101414	4	14	1/0-14 STR.	9.17	1.53	1.63	3/16"	2
AMT20	2	2	2/0-14 STR.	1.41	1.10	1.35	1/16"	25
AMTS3062	2	2	3/0-6 STR.	1.89	1.58	1.86	3/16"	12
AMTS3063	4	3	3/0-6 STR.	2.65	1.58	1.86	3/16"	6
AMTS3064	4	4	3/0-6 STR.	3.42	1.58	1.86	3/16"	6
AMTS3065	4	5	3/0-6 STR.	4.18	1.58	1.86	3/16"	4
AMTS3066	4	6	3/0-6 STR.	4.95	1.58	1.86	3/16"	4
AMTS3067	4	7	3/0-6 STR.	5.71	1.58	1.86	3/16"	3
AMTS3068	4	8	3/0-6 STR.	6.48	1.58	1.86	3/16"	3
AMTS3069	4	9	3/0-6 STR.	7.24	1.58	1.86	3/16"	3
AMTS30610	4	10	3/0-6 STR.	8	1.58	1.86	3/16"	2
AMTS30611	4	11	3/0-6 STR.	8.77	1.58	1.86	3/16"	2
AMTS30612	4	12	3/0-6 STR.	9.54	1.58	1.86	3/16"	2
AMTS30613	4	13	3/0-6 STR.	10.3	1.58	1.86	3/16"	2
AMTS30614	4	14	3/0-6 STR.	11.07	1.58	1.86	3/16"	2
AMT250	2	2	250MCM-10 STR.	2.03	2.00	2.20	1/16"	25
AMTS25062	4	2	250MCM-6 STR.	2.17	1.91	2.17	3/16"	6
AMTS25063	4	3	250MCM-6 STR.	3.07	1.91	2.17	3/16"	6
AMTS25064	4	4	250MCM-6 STR.	3.96	1.91	2.17	3/16"	6
AMTS25065	4	5	250MCM-6 STR.	4.85	1.91	2.17	3/16"	4
AMTS25066	4	6	250MCM-6 STR.	5.75	1.91	2.17	3/16"	4
AMTS25067	4	7	250MCM-6 STR.	6.64	1.91	2.17	3/16"	3
AMTS25068	4	8	250MCM-6 STR.	7.53	1.91	2.17	3/16"	3
AMTS25069	4	9	250MCM-6 STR.	8.42	1.91	2.17	3/16"	3

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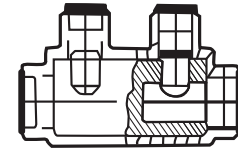


Fig. 1

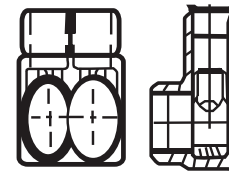


Fig. 2

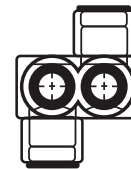


Fig. 3

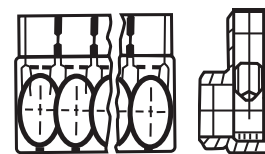


Fig. 4

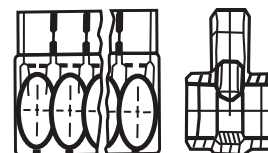


Fig. 5

AMT Multi-Port Connector "Same Side" (continued)

CAT. NO.	FIG.	NO. OF PORTS	WIRE RANGE	LENGTH	WIDTH	HEIGHT	HEX SIZE	STD. PKG. QTY.
AMTS250610	4	10	250MCM-6 STR.	9.32	1.91	2.17	5/16	2
AMTS250611	4	11	250MCM-6 STR.	10.21	1.91	2.17	5/16	2
AMTS250612	4	12	250MCM-6 STR.	11.1	1.91	2.17	5/16	2
AMTS250613	4	13	250MCM-6 STR.	12	1.91	2.17	5/16	1
AMTS250614	4	14	250MCM-6 STR.	12.89	1.91	2.17	5/16	1
AMT350	2	2	350MCM-10 STR.	2.35	2.13	2.63	5/16	25
AMTS35062	2	2	350MCM-6 STR.	2.51	2.03	2.62	5/16	4
AMTS35063	4	3	350MCM-6 STR.	3.56	2.03	2.62	5/16	4
AMTS35064	4	4	350MCM-6 STR.	4.61	2.03	2.62	5/16	3
AMTS35065	4	5	350MCM-6 STR.	5.66	2.03	2.62	5/16	3
AMTS35066	4	6	350MCM-6 STR.	6.71	2.03	2.62	5/16	2
AMTS35067	4	7	350MCM-6 STR.	7.76	2.03	2.62	5/16	2
AMTS35068	4	8	350MCM-6 STR.	8.81	2.03	2.62	5/16	2
AMTS35069	4	9	350MCM-6 STR.	9.86	2.03	2.62	5/16	2
AMTS350610	4	10	350MCM-6 STR.	10.91	2.03	2.62	5/16	2
AMTS350611	4	11	350MCM-6 STR.	11.96	2.03	2.62	5/16	1
AMTS350612	4	12	350MCM-6 STR.	13.01	2.03	2.62	5/16	1
AMTS350613	4	13	350MCM-6 STR.	14.06	2.03	2.62	5/16	1
AMTS350614	4	14	350MCM-6 STR.	15.11	2.03	2.62	5/16	1
AMT500	2	2	500MCM-6 STR.	2.62	2.16	2.91	3/8	25
AMTS50042	2	2	500MCM-4 STR.	2.97	2.28	3.04	3/8	3
AMTS50043	4	3	500MCM-4 STR.	4.12	2.28	3.04	3/8	3
AMTS50044	4	4	500MCM-4 STR.	5.28	2.28	3.04	3/8	3
AMTS50045	4	5	500MCM-4 STR.	6.44	2.28	3.04	3/8	2
AMTS50046	4	6	500MCM-4 STR.	7.59	2.28	3.04	3/8	2
AMTS50047	4	7	500MCM-4 STR.	8.75	2.28	3.04	3/8	2
AMTS50048	4	8	500MCM-4 STR.	9.9	2.28	3.04	3/8	2
AMTS50049	4	9	500MCM-4 STR.	11.06	2.28	3.04	3/8	2
AMTS500410	4	10	500MCM-4 STR.	12.22	2.28	3.04	3/8	1
AMTS500411	4	11	500MCM-4 STR.	13.37	2.28	3.04	3/8	1
AMTS500412	4	12	500MCM-4 STR.	14.53	2.28	3.04	3/8	1
AMTS500413	4	13	500MCM-4 STR.	15.68	2.28	3.04	3/8	1
AMTS500414	4	14	500MCM-4 STR.	16.84	2.28	3.04	3/8	1
AMTS7502502	4	2	750MCM-250MCM	3.47	2.75	3.31	1/2	3
AMTS7502503	4	3	750MCM-250MCM	4.89	2.75	3.31	1/2	3
AMTS7502504	4	4	750MCM-250MCM	6.32	2.75	3.31	1/2	2
AMTS7502505	4	5	750MCM-250MCM	7.74	2.75	3.31	1/2	1
AMTS7502506	4	6	750MCM-250MCM	9.16	2.75	3.31	1/2	1
AMTS7502507	4	7	750MCM-250MCM	10.58	2.75	3.31	1/2	1
AMTS7502508	4	8	750MCM-250MCM	12	2.75	3.31	1/2	1
AMTS7502509	4	9	750MCM-250MCM	13.43	2.75	3.31	1/2	1
AMTS75025010	4	10	750MCM-250MCM	14.85	2.75	3.31	1/2	1
AMTS75025011	4	11	750MCM-250MCM	16.27	2.75	3.31	1/2	1
AMTS75025012	4	12	750MCM-250MCM	17.69	2.75	3.31	1/2	1
AMTS75025013	4	13	750MCM-250MCM	19.11	2.75	3.31	1/2	1
AMTS75025014	4	14	750MCM-250MCM	20.54	2.75	3.31	1/2	1

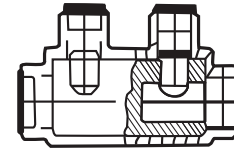


Fig. 1

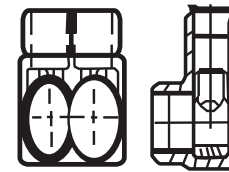


Fig. 2

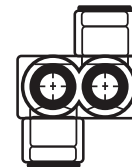


Fig. 3

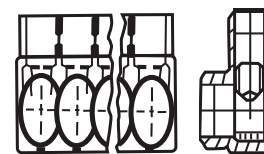


Fig. 4

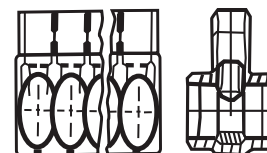


Fig. 5

AMT Multi-Port Connector "Double" Both Sides

CAT. NO.	FIG.	NO. OF PORTS	WIRE RANGE	LENGTH	WIDTH	HEIGHT	HEX SIZE	STD. PKG. QTY.
AMTD4142	5	2	4-14 STR.	1.24	1.25	1.42	1/8	12
AMTD4143	5	3	4-14 STR.	1.7	1.25	1.42	1/8	12
AMTD4144	5	4	4-14 STR.	2.16	1.25	1.42	1/8	6
AMTD4145	5	5	4-14 STR.	2.61	1.25	1.42	1/8	6
AMTD4146	5	6	4-14 STR.	3.07	1.24	1.42	1/8	6
AMTD4147	5	7	4-14 STR.	3.53	1.25	1.42	1/8	4
AMTD4148	5	8	4-14 STR.	3.99	1.25	1.42	1/8	4
AMTD4149	5	9	4-14 STR.	4.45	1.25	1.42	1/8	4
AMTD41410	5	10	4-14 STR.	4.9	1.25	1.42	1/8	4
AMTD41411	5	11	4-14 STR.	5.36	1.25	1.42	1/8	3
AMTD41412	5	12	4-14 STR.	5.82	1.25	1.42	1/8	3
AMTD41413	5	13	4-14 STR.	6.28	1.25	1.42	1/8	2
AMTD41414	5	14	4-14 STR.	6.74	1.25	1.42	3/16	2
AMTD10142	5	2	1/0-14 STR.	1.67	1.63	1.63	3/16	12
AMTD10143	5	3	1/0-14 STR.	2.29	1.63	1.63	3/16	12
AMTD10144	5	4	1/0-14 STR.	2.92	1.63	1.63	3/16	6
AMTD10145	5	5	1/0-14 STR.	3.54	1.63	1.63	3/16	6
AMTD10146	5	6	1/0-14 STR.	4.17	1.63	1.63	3/16	6
AMTD10147	5	7	1/0-14 STR.	4.79	1.63	1.63	3/16	4
AMTD10148	5	8	1/0-14 STR.	5.42	1.63	1.63	3/16	4
AMTD10149	5	9	1/0-14 STR.	6.04	1.63	1.63	3/16	4
AMTD101410	5	10	1/0-14 STR.	6.67	1.63	1.63	3/16	4
AMTD101411	5	11	1/0-14 STR.	7.29	1.63	1.63	3/16	3
AMTD101412	5	12	1/0-14 STR.	7.92	1.63	1.63	3/16	3
AMTD101413	5	13	1/0-14 STR.	8.54	1.63	1.63	3/16	2
AMTD101414	5	14	1/0-14 STR.	9.17	1.63	1.63	3/16	2
AMTD3062	5	2	3/0-6 STR.	1.89	1.68	1.86	3/16	6
AMTD3063	5	3	3/0-6 STR.	2.65	1.68	1.86	3/16	6
AMTD3064	5	4	3/0-6 STR.	3.42	1.68	1.86	3/16	6
AMTD3065	5	5	3/0-6 STR.	4.18	1.68	1.86	3/16	4
AMTD3066	5	6	3/0-6 STR.	4.95	1.68	1.86	3/16	4
AMTD3067	5	7	3/0-6 STR.	5.71	1.68	1.86	3/16	3
AMTD3068	5	8	3/0-6 STR.	6.48	1.68	1.86	3/16	3
AMTD3069	5	9	3/0-6 STR.	7.24	1.68	1.86	3/16	3
AMTD30610	5	10	3/0-6 STR.	8.01	1.68	1.86	3/16	2
AMTD30611	5	11	3/0-6 STR.	8.77	1.68	1.86	3/16	2
AMTD30612	5	12	3/0-6 STR.	9.54	1.68	1.86	3/16	2
AMTD30613	5	13	3/0-6 STR.	10.3	1.68	1.86	3/16	2
AMTD30614	5	14	3/0-6 STR.	11.07	1.68	1.86	3/16	2
AMTD25062	5	2	250MCM-6 STR.	2.17	2.13	2.17	3/16	6
AMTD25063	5	3	250MCM-6 STR.	3.07	2.13	2.17	3/16	6
AMTD25064	5	4	250MCM-6 STR.	3.96	2.13	2.17	3/16	6
AMTD25065	5	5	250MCM-6 STR.	4.85	2.13	2.17	3/16	4
AMTD25066	5	6	250MCM-6 STR.	5.75	2.13	2.17	3/16	4
AMTD25067	5	7	250MCM-6 STR.	6.64	2.13	2.17	3/16	3
AMTD25068	5	8	250MCM-6 STR.	7.53	2.13	2.17	3/16	3
AMTD25069	5	9	250MCM-6 STR.	8.42	2.13	2.17	3/16	3
AMTD250610	5	10	250MCM-6 STR.	9.32	2.13	2.17	3/16	2
AMTD250611	5	11	250MCM-6 STR.	10.21	2.13	2.17	3/16	2
AMTD250612	5	12	250MCM-6 STR.	11.1	2.13	2.17	3/16	2
AMTD250613	5	13	250MCM-6 STR.	12	2.13	2.17	3/16	1
AMTD250614	5	14	250MCM-6 STR.	12.89	2.13	2.17	3/16	1

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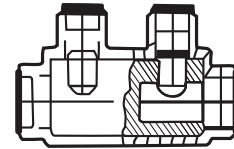


Fig. 1

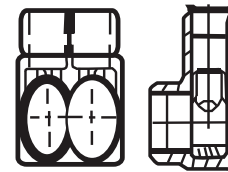


Fig. 2

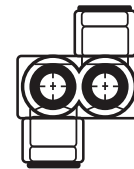


Fig. 3

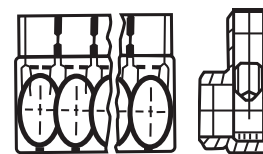


Fig. 4

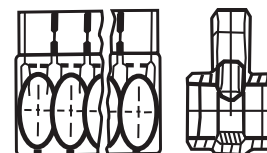


Fig. 5

AMT Multi-Port Connector "Double" Both Sides (continued)

CAT. NO.	FIG.	NO. OF PORTS	WIRE RANGE	LENGTH	WIDTH	HEIGHT	HEX SIZE	STD. PKG. QTY.
AMTD35062	5	2	350MCM-6 STR.	2.51	2.25	2.62	5/16	4
AMTD35063	5	3	350MCM-6 STR.	3.56	2.25	2.62	5/16	4
AMTD35064	5	4	350MCM-6 STR.	4.61	2.25	2.62	5/16	3
AMTD35065	5	5	350MCM-6 STR.	5.67	2.25	2.62	5/16	3
AMTD35066	5	6	350MCM-6 STR.	6.71	2.25	2.62	5/16	3
AMTD35067	5	7	350MCM-6 STR.	7.76	2.25	2.62	5/16	2
AMTD35068	5	8	350MCM-6 STR.	8.81	2.25	2.62	5/16	2
AMTD35069	5	9	350MCM-6 STR.	9.86	2.25	2.62	5/16	2
AMTD350610	5	10	350MCM-6 STR.	10.91	2.25	2.62	5/16	2
AMTD350611	5	11	350MCM-6 STR.	11.96	2.25	2.62	5/16	1
AMTD350612	5	12	350MCM-6 STR.	13.01	2.25	2.62	5/16	1
AMTD350613	5	13	350MCM-6 STR.	14.06	2.25	2.62	5/16	1
AMTD350614	5	14	350MCM-6 STR.	15.11	2.25	2.62	5/16	1
AMTD50042	5	2	500MCM-4 STR.	2.97	2.63	3.04	3/8	3
AMTD50043	5	3	500MCM-4 STR.	4.12	2.63	3.04	3/8	3
AMTD50044	5	4	500MCM-4 STR.	5.28	2.63	3.04	3/8	3
AMTD50045	5	5	500MCM-4 STR.	6.44	2.63	3.04	3/8	2
AMTD50046	5	6	500MCM-4 STR.	7.59	2.63	3.04	3/8	2
AMTD50047	5	7	500MCM-4 STR.	8.75	2.63	3.04	3/8	2
AMTD50048	5	8	500MCM-4 STR.	9.9	2.63	3.04	3/8	2
AMTD50049	5	9	500MCM-4 STR.	11.06	2.63	3.04	3/8	2
AMTD500410	5	10	500MCM-4 STR.	12.22	2.63	3.04	3/8	1
AMTD500411	5	11	500MCM-4 STR.	13.37	2.63	3.04	3/8	1
AMTD500412	5	12	500MCM-4 STR.	14.53	2.63	3.04	3/8	1
AMTD500413	5	13	500MCM-4 STR.	15.68	2.63	3.04	3/8	1
AMTD500414	5	14	500MCM-4 STR.	16.84	2.63	3.04	3/8	1
AMTD7502502	5	2	750MCM-250MCM	3.47	3.25	3.31	1/2	3
AMTD7502503	5	3	750MCM-250MCM	4.89	3.25	3.31	1/2	3
AMTD7502504	5	4	750MCM-250MCM	6.32	3.25	3.31	1/2	2
AMTD7502505	5	5	750MCM-250MCM	7.74	3.25	3.31	1/2	1
AMTD7502506	5	6	750MCM-250MCM	9.16	3.25	3.31	1/2	1
AMTD7502507	5	7	750MCM-250MCM	10.58	3.25	3.31	1/2	1
AMTD7502508	5	8	750MCM-250MCM	12	3.25	3.31	1/2	1
AMTD7502509	5	9	750MCM-250MCM	13.43	3.25	3.31	1/2	1
AMTD75025010	5	10	750MCM-250MCM	14.85	3.25	3.31	1/2	1
AMTD75025011	5	11	750MCM-250MCM	16.27	3.25	3.31	1/2	1
AMTD75025012	5	12	750MCM-250MCM	17.69	3.25	3.31	1/2	1
AMTD75025013	5	13	750MCM-250MCM	19.11	3.25	3.31	1/2	1
AMTD75025014	5	14	750MCM-250MCM	20.54	3.25	3.31	1/2	1

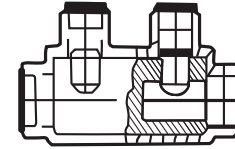


Fig. 1

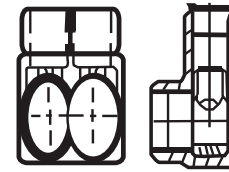


Fig. 2

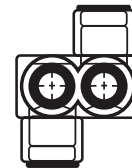


Fig. 3

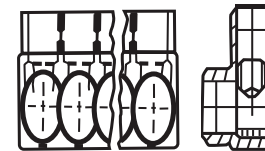


Fig. 4

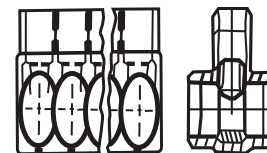


Fig. 5

AMT Mountable Multi-Port Connector "Double" Both Sides

CAT. NO.	FIG.	NO. OF PORTS	WIRE RANGE	LENGTH	WIDTH	HEIGHT	HEX SIZE	STD. PKG. QTY.
AMTDM3062	5	2	3/0-6 STR.	3.42	1.68	1.86	3/16	6
AMTDM3063	5	3	3/0-6 STR.	4.18	1.68	1.86	3/16	4
AMTDM3064	5	4	3/0-6 STR.	4.95	1.68	1.86	3/16	4
AMTDM3065	5	5	3/0-6 STR.	5.71	1.68	1.86	3/16	3
AMTDM3066	5	6	3/0-6 STR.	6.48	1.68	1.86	3/16	3
AMTDM3067	5	7	3/0-6 STR.	7.24	1.68	1.86	3/16	3
AMTDM3068	5	8	3/0-6 STR.	8.01	1.68	1.86	3/16	2
AMTDM3069	5	9	3/0-6 STR.	8.77	1.68	1.86	3/16	2
AMTDM30610	5	10	3/0-6 STR.	9.54	1.68	1.86	3/16	2
AMTDM30611	5	11	3/0-6 STR.	10.3	1.68	1.86	3/16	2
AMTDM30612	5	12	3/0-6 STR.	11.07	1.68	1.86	3/16	2
AMTDM25062	5	2	250MCM-6 STR.	3.96	2.13	2.17	3/16	6
AMTDM25063	5	3	250MCM-6 STR.	4.85	2.13	2.17	3/16	4
AMTDM25064	5	4	250MCM-6 STR.	5.73	2.13	2.17	3/16	4
AMTDM25065	5	5	250MCM-6 STR.	6.64	2.13	2.17	3/16	3
AMTDM25066	5	6	250MCM-6 STR.	7.53	2.13	2.17	3/16	3
AMTDM25067	5	7	250MCM-6 STR.	8.42	2.13	2.17	3/16	3
AMTDM25068	5	8	250MCM-6 STR.	9.32	2.13	2.17	3/16	2
AMTDM25069	5	9	250MCM-6 STR.	10.21	2.13	2.17	3/16	2
AMTDM250610	5	10	250MCM-6 STR.	11.1	2.13	2.17	3/16	2
AMTDM250611	5	11	250MCM-6 STR.	12	2.13	2.17	3/16	1
AMTDM250612	5	12	250MCM-6 STR.	12.89	2.13	2.17	3/16	1
AMTDM35062	5	2	350MCM-6 STR.	4.61	2.25	2.62	3/16	3
AMTDM35063	5	3	350MCM-6 STR.	5.67	2.25	2.62	3/16	3
AMTDM35064	5	4	350MCM-6 STR.	6.71	2.25	2.62	3/16	3
AMTDM35065	5	5	350MCM-6 STR.	7.76	2.25	2.62	3/16	2
AMTDM35066	5	6	350MCM-6 STR.	8.81	2.25	2.62	3/16	2
AMTDM35067	5	7	350MCM-6 STR.	9.86	2.25	2.62	3/16	2
AMTDM35068	5	8	350MCM-6 STR.	10.91	2.25	2.62	3/16	2
AMTDM35069	5	9	350MCM-6 STR.	11.96	2.25	2.62	3/16	1
AMTDM350610	5	10	350MCM-6 STR.	13.01	2.25	2.62	3/16	1
AMTDM350611	5	11	350MCM-6 STR.	14.06	2.25	2.62	3/16	1
AMTDM350612	5	12	350MCM-6 STR.	15.11	2.25	2.62	3/16	1
AMTDM50042	5	2	500MCM-4 STR.	5.25	2.63	3.04	1/2	3
AMTDM50043	5	3	500MCM-4 STR.	6.44	2.63	3.04	1/2	2
AMTDM50044	5	4	500MCM-4 STR.	7.59	2.63	3.04	1/2	2
AMTDM50045	5	5	500MCM-4 STR.	8.75	2.63	3.04	1/2	2
AMTDM50046	5	6	500MCM-4 STR.	9.9	2.63	3.04	1/2	2
AMTDM50047	5	7	500MCM-4 STR.	11.06	2.63	3.04	1/2	2
AMTDM50048	5	8	500MCM-4 STR.	12.22	2.63	3.04	1/2	1
AMTDM50049	5	9	500MCM-4 STR.	13.37	2.63	3.04	1/2	1
AMTDM500410	5	10	500MCM-4 STR.	14.53	2.63	3.04	1/2	1
AMTDM500411	5	11	500MCM-4 STR.	15.68	2.63	3.04	1/2	1
AMTDM500412	5	12	500MCM-4 STR.	16.84	2.63	3.04	1/2	1
AMTDM7502502	5	2	750MCM-250MCM	6.32	3.25	3.31	1/2	2
AMTDM7502503	5	3	750MCM-250MCM	7.74	3.25	3.31	1/2	1
AMTDM7502504	5	4	750MCM-250MCM	9.16	3.25	3.31	1/2	1
AMTDM7502505	5	5	750MCM-250MCM	10.58	3.25	3.31	1/2	1
AMTDM7502506	5	6	750MCM-250MCM	12	3.25	3.31	1/2	1
AMTDM7502507	5	7	750MCM-250MCM	13.43	3.25	3.31	1/2	1
AMTDM7502508	5	8	750MCM-250MCM	14.85	3.25	3.31	1/2	1
AMTDM7502509	5	9	750MCM-250MCM	16.27	3.25	3.31	1/2	1
AMTDM75025010	5	10	750MCM-250MCM	17.69	3.25	3.31	1/2	1
AMTDM75025011	5	11	750MCM-250MCM	19.11	3.25	3.31	1/2	1
AMTDM75025012	5	12	750MCM-250MCM	20.54	3.25	3.31	1/2	1

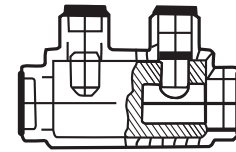


Fig. 1

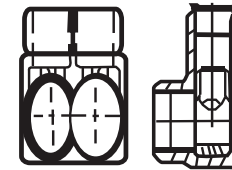


Fig. 2

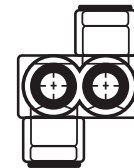


Fig. 3

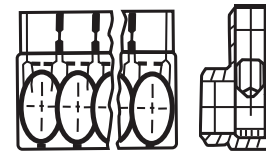


Fig. 4

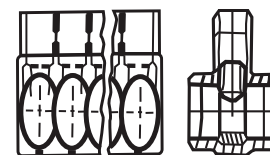
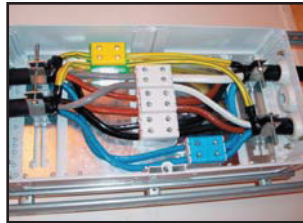


Fig. 5

Power Distribution Blocks

Features

- Insulated housing provides fast, clean, safe installation and controlled dielectric strength
- Grooved contact surfaces penetrate conductor oxides for best contact
- Easily installed and position-locked with DIN rail or screw mounting



Blackburn Power Distribution Blocks are suitable for all panel building applications and various terminal enclosure solutions; for extending or branching the cables or changing the conductor type.

Specifications

- Max. Voltage: 600V
- Max. Temperature: 80° C
- Flammability Rating: V-2 (UL94)
- Standards & Testing: UL1059, Category XCFR2, File Number E66436; SFS 2663; VDE 0220, Teil 1/11.71, Teil 2/11.71, SEN 241510, SEN 245012; IEC 61238 class B

Typical Applications

- Ideal for OEM use in electrical, electronics, panel, switchboard, switchgear, automation and control manufacturing
- Also suitable for industrial/commercial retrofit contractors, installation technicians, maintenance and service providers
- Use in distribution panels, control boxes, automation products, ESS centers and more



Terminal Blocks



Tapping Blocks

Terminal Blocks

- One-pole feedthrough terminal blocks
- Three-pole version (Cat. No. PDS3610) supports three-phase systems
- Designed for connecting or extending both aluminum and copper conductors

Tapping Blocks

- One pole, four identical terminals
- Suitable for extending or branching both aluminum and copper conductors

Conductor Table

Conductors that can be used with the Power Distribution Blocks — number, cross-section and type.

- Requirements of a specific apparatus may restrict the number of conductors
- Usually a maximum of three adjacent standard cross-sections in one space
- In general, the conductors connected to one conductor space of a connector must be of the same type
- Table values require careful installation
- We recommend use of ferrules when using fine-stranded conductors
- After installation, check that all conductors are pressed into a connection
- The nominal current of the power distribution blocks must not be exceeded
- According to some installation standards, each incoming and outgoing protection and neutral conductor in a panel must have its own separate power distribution blocks
- The conductor numbers below refer only to industrially installed power distribution blocks (internal connections in a panel)

Cross-sections of conductors (AWG/kcmil) and number of conductors/space
The conductor numbers below refer only to industrially installed

CAT. NO.	AWG/ KCMIL	8	6	4	3	2	1	1/0	2/0	3/0	4/0	250	300	350	400	500
PDS610	Al	1	1	1	1	1	1									
	Cu	1	1	1	1	1	1									
	Cu	2														
	Cu	3														
PDS3610	Al	1	1	1	1	1	1									
	Cu	1	1	1	1	1	1									
	Cu	2														
	Cu	3														
PDS440	Al			1	1	1	1	1	1	1	1					
	Cu			1	1	1	1	1	1	1	1					
	Cu			2	2	2	2									
	Cu			3												
PDS2300	Al					1	1	1	1	1	1	1	1	1	1	1
	Cu					1	1	1	1	1	1	1	1	1	1	1
	Cu					2	2	2								
	Cu					3										
PDS30500	Al									1	1	1	1	1	1	1
	Cu									1	1	1	1	1	1	1
	Cu					2	2	2	2							
	Cu					3	3	3								
PDS2610	Al	1	1	1	1	1	1									
	Cu	1	1	1	1	1	1									
	Cu	2														
	Cu	3														
PDS2440	Al			1	1	1	1	1	1	1	1					
	Cu			1	1	1	1	1	1	1	1					
	Cu			2	2	2	2									
	Cu			3												
PDS22300	Al					1	1	1	1	1	1	1	1	1	1	1
	Cu					1	1	1	1	1	1	1	1	1	1	1
	Cu					2	2	2								
	Cu					3										
PDS230500	Al									1	1	1	1	1	1	1
	Cu									1	1	1	1	1	1	1
	Cu					2	2	2	2							
	Cu					3	3	3								

Power Distribution Blocks (continued)



Blackburn® Mechanical

CAT. NO.	WIRE RANGE	MAX. CURRENT	TIGHTENING TORQUE	ALLEN HEX SOCKET HEAD TERMINAL SCREW	MOUNTING	OVERALL DIMENSIONS	COLOR	PKG. QTY.
Terminal Blocks								
PDS610	1/0 – 6 AWG Cu or Al	150A Cu/ 120A Al	90 lb.-in.	5mm	Top Hat rail	0.7"W x 1.9"H x 1.7"D	Gray	30
PDS610B	1/0 – 6 AWG Cu or Al	150A Cu/ 120A Al	90 lb.-in.	5mm	Top Hat rail	0.7"W x 1.9"H x 1.7"D	Blue	30
PDS610G	1/0 – 6 AWG Cu or Al	150A Cu/ 120A Al	90 lb.-in.	5mm	Top Hat rail	0.7"W x 1.9"H x 1.7"D	Yellow-Green	30
PDS3610	1/0 – 6 AWG Cu or Al	150A Cu/ 120A Al	90 lb.-in.	5mm	Top Hat rail	1.9"W x 1.9"H x 1.7"D	Gray	30
PDS440	4/0 – 4 AWG Cu or Al	230A Cu/ 180A Al	126 lb.-in.	5mm	Top Hat rail or screw	0.9"W x 3.4"H x 1.9"D	Gray	30
PDS440B	4/0 – 4 AWG Cu or Al	230A Cu/ 180A Al	126 lb.-in.	5mm	Top Hat rail or screw	0.9"W x 3.4"H x 1.9"D	Blue	30
PDS440G	4/0 – 4 AWG Cu or Al	230A Cu/ 180A Al	126 lb.-in.	5mm	Top Hat rail or screw	0.9"W x 3.4"H x 1.9"D	Yellow-Green	30
PDS2300	300 – 2 AWG Cu or Al	285A Cu/ 230A Al	216 lb.-in.	8mm	Top Hat rail or screw	1.2"W x 3.7"H x 2.3"D	Gray	30
PDS2300B	300 – 2 AWG Cu or Al	285A Cu/ 230A Al	216 lb.-in.	8mm	Top Hat rail or screw	1.2"W x 3.7"H x 2.3"D	Blue	30
PDS2300G	300 – 2 AWG Cu or Al	285A Cu/ 230A Al	216 lb.-in.	8mm	Top Hat rail or screw	1.2"W x 3.7"H x 2.3"D	Yellow-Green	30
PDS30500	500 – 3/0 AWG Cu or Al	380A Cu/ 310A Al	360 lb.-in.	8mm	Screw	1.5"W x 5.1"H x 2.6"D	Gray	30
PDS30500B	500 – 3/0 AWG Cu or Al	380A Cu/ 310A Al	360 lb.-in.	8mm	Screw	1.5"W x 5.1"H x 2.6"D	Blue	30
PDS30500G	500 – 3/0 AWG Cu or Al	380A Cu/ 310A Al	360 lb.-in.	8mm	Screw	1.5"W x 5.1"H x 2.6"D	Yellow-Green	30
Taping Blocks								
PDS2610	1/0 – 6 AWG Cu or Al	150A Cu/ 120A Al	90 lb.-in.	5mm	Top Hat Rail	1.2"W x 1.9"H x 1.7"D	Gray	30
PDS2610B	1/0 – 6 AWG Cu or Al	150A Cu/ 120A Al	90 lb.-in.	5mm	Top Hat Rail	1.2"W x 1.9"H x 1.7"D	Blue	30
PDS2610G	1/0 – 6 AWG Cu or Al	150A Cu/ 120A Al	90 lb.-in.	5mm	Top Hat Rail	1.2"W x 1.9"H x 1.7"D	Yellow-Green	30
PDS2440	4/0 – 4 AWG Cu or Al	230A Cu/ 180A Al	126 lb.-in.	5mm	Top Hat rail or screw	1.7"W x 3.4"H x 1.9"D	Gray	30
PDS2440B	4/0 – 4 AWG Cu or Al	230A Cu/ 180A Al	126 lb.-in.	5mm	Top Hat rail or screw	1.7"W x 3.4"H x 1.9"D	Blue	30
PDS2440G	4/0 – 4 AWG Cu or Al	230A Cu/ 180A Al	126 lb.-in.	5mm	Top Hat rail or screw	1.7"W x 3.4"H x 1.9"D	Yellow-Green	30
PDS22300	300 – 2 AWG Cu or Al	285A Cu/ 230A Al	216 lb.-in.	8mm	Top Hat rail or screw	2"W x 3.7"H x 2.3"D	Gray	30
PDS22300B	300 – 2 AWG Cu or Al	285A Cu/ 230A Al	216 lb.-in.	8mm	Top Hat rail or screw	2"W x 3.7"H x 2.3"D	Blue	30
PDS22300G	300 – 2 AWG Cu or Al	285A Cu/ 230A Al	216 lb.-in.	8mm	Top Hat rail or screw	2"W x 3.7"H x 2.3"D	Yellow-Green	30
PDS230500	500 – 3/0 AWG Cu or Al	380A Cu/ 310A Al	360 lb.-in.	8mm	Screw	2.5"W x 5.1"H x 2.6"D	Gray	30
PDS230500B	500 – 3/0 AWG Cu or Al	380A Cu/ 310A Al	360 lb.-in.	8mm	Screw	2.5"W x 5.1"H x 2.6"D	Blue	30
PDS230500G	500 – 3/0 AWG Cu or Al	380A Cu/ 310A Al	360 lb.-in.	8mm	Screw	2.5"W x 5.1"H x 2.6"D	Yellow-Green	30

Blackburn®

Anti-Rotational Connector

“No-turn” design keeps connector securely in place — even under vibration.

Anti-Rotational Connector

- Unique bottom rib keeps connector from turning
- Eliminates the need for excessive torque, which can damage large conductors
- Prevents connector loosening, even in heavy-vibration applications

Blackburn® Anti-Rotational Connectors are designed with a rib on the bottom that keeps the connectors from turning, so there's no need to apply excessive torque and there's no danger of loosening connectors.

The unique “no-turn” rib provides a secure connection that eliminates the conductor pinching that results from connector movement.

The “no-turn” design solves a unique problem for electricians and installers. Larger conductors tend

to get damaged in over-torque conditions, and connectors are prone to loosen in applications where there is vibration, such as motor loads.

Inspectors and local standards boards are requiring electricians and installers to make provisions to eliminate these conditions, and Blackburn® Anti-Rotational Connectors are the solution.

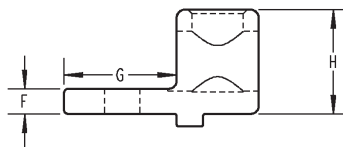
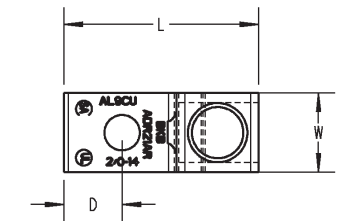


Fig. 1

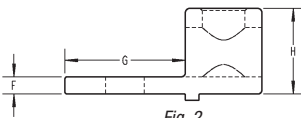
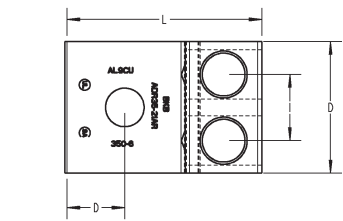


Fig. 2



CAT. NO.	WIRE RANGE	BOLT HOLE (IN.)	DIMENSIONS (IN.)										FIG.
			A	B	C	D	E	F	G	H	M	N	
ADR21-AR	2/0-14AWG	¼	1.470	0.600	0.790	0.190	0.200	0.438	0.094	0.620	0.267	0.453	1
ADR30-AR	300MCM-6AWG	⅜	2.000	1.000	1.120	0.250	0.200	0.468	0.094	1.000	0.330	0.656	1
ADR35-AR	350MCM-6AWG	⅝	2.250	1.120	1.125	0.250	0.200	0.485	0.094	1.120	0.408	0.719	1
ADR60-AR	600MCM-2AWG	½	3.120	1.500	1.560	0.440	0.200	0.720	0.094	1.380	0.408	0.938	1
ADR35-21-AR	350MCM-6AWG	⅜	2.880	1.500	1.250	0.250	0.200	0.875	0.094	1.120	0.563	0.719	2
ADR60-21-AR	600MCM-2AWG	½	3.120	2.400	1.560	0.440	0.200	0.555	0.094	1.380	0.531	0.938	2

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Dual-Rated Mechanical Connectors

All-aluminum-body lugs for use on copper and aluminum conductors.

Dual-Rated Mechanical Connectors

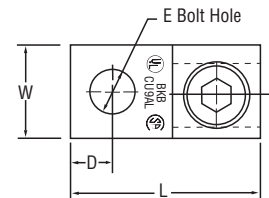
- Easy installation — no special tools required
- Tin plated for low contact resistance
- UL 486B tested, AL9CU rated
- Slotted screw on lugs up through 2/0 str.; 5/16" socket screw on sizes 250 through 350 kcmil; 3/8" hex socket on sizes 500 kcmil and above



Type ADR — ALCÜL™ Single-Conductor, One-Hole Mount

CAT. NO.	CONDUCTOR RANGE (AL OR CU)		DIMENSIONS (IN.)						
	MAX.	MIN.	L	W	H	D	E	F	G
<i>Slotted Screw</i>									
ADR6	6 Str.	14 AWG	1 3/4	1/2	3/8	1 1/4	1/4	3/8	3/4
ADR2	2 Str.	14 AWG	1 1/2	1/2	3/8	1 1/4	1/4	3/8	1 1/8
ADR11	1/0 Str.	14 AWG	1 1/2	5/8	25/32	7/16	1/4	3/8	27/32
ADR21	2/0 Str.	14 AWG	1 1/2	5/8	25/32	7/16	1/4	3/8	27/32
<i>Socket Screw</i>									
ADR25	250 kcmil	6 Str.	2	1	1 1/8	1 1/2	5/8	1/4	1
ADR30	300 kcmil	6 Str.	2	1	1 1/8	1 1/2	5/8	1/4	1
ADR35	350 kcmil	6 Str.	2 1/4	1 1/8	1 1/4	1 1/2	5/8	1/4	1 1/8
ADR50	500 kcmil	4 Str.	2 1/8	1 1/2	1 1/8	1 1/2	5/8	1/4	1 1/2
ADR60	600 kcmil	2 Str.	3 1/8	1 1/2	1 1/8	1 1/2	5/8	1/4	1 13/16
ADR6004*	600 kcmil (2) 250 kcmil	4 Str. (2) 1/0 Str.	2 1/8	1 3/8	1 1/8	1 1/2	5/8	1/4	1 1/2
ADR80	800 kcmil	300 kcmil	3 3/8	1 3/4	1 1/8	1 1/2	5/8	1/4	1 3/4
ADR99	1,000 kcmil	500 kcmil	3 3/8	1 3/4	1 1/8	1 1/2	5/8	1/4	1 3/4

* Not UL or CSA Listed.



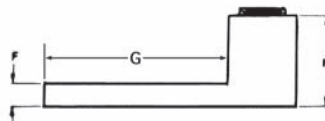
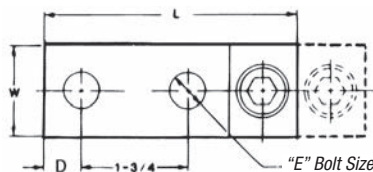
Type ADR — ALCÜL™ Single-Conductor, Two-Hole Mount*

CAT. NO.	CONDUCTOR RANGE (AL OR CU)		DIMENSIONS (IN.)						
	MAX.	MIN.	L	W	H	D	E	F	G
ADR35-12#	350 kcmil	6 Str.	4 1/4	1 1/4	1 1/8	1 1/2	5/8	1/4	3
ADR60-12D	600 kcmil	2 Str.	5 5/8	1 1/2	1 1/8	1 1/2	5/8	1/4	3 1/8
ADR80-12D	800 kcmil	300 kcmil	6 3/8	1 3/4	1 1/8	1 1/2	5/8	1/4	3 3/8
ADR99-12D	1,000 kcmil	500 kcmil	6 3/8	1 3/4	1 1/8	1 1/2	5/8	1/4	3 3/8

* NEMA spacing: 1 1/4" centers

UL Listed.

Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).



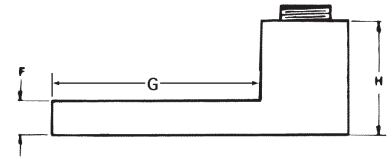
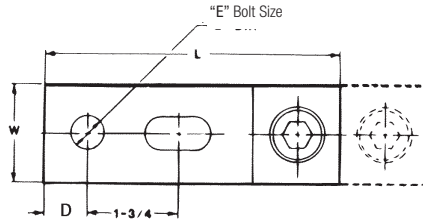
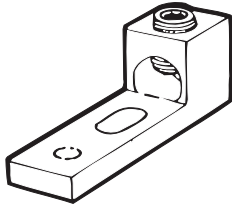
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Dual-Rated Mechanical Connectors

Type ADR — ALCÜL™ Single-Conductor, Switchgear Mount*

Blackburn® Mechanical

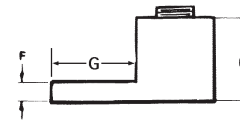
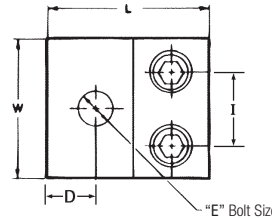


CAT. NO.	CONDUCTOR RANGE (AL OR CU)		DIMENSIONS (IN.)						
	MAX.	MIN.	L	W	H	D	E	F	G
ADR25-12S	250 kcmil	3/0 Str.	3	1	1 ³ / ₁₆	1/2	3/8	1/4	2
ADR35-12S	350 kcmil	4 Str.	4 ¹ / ₁₆	1 ¹ / ₄	1 ¹ / ₁₆	2 ³ / ₃₂	1/2	7/16	3 ³ / ₁₆
ADR50-12S	500 kcmil	400 kcmil	4 ¹ / ₁₆	1 ¹ / ₄	1 ¹ / ₁₆	2 ³ / ₃₂	1/2	7/16	3 ³ / ₁₆
ADR80-12DS	800 kcmil	300 kcmil	6 ³ / ₁₆	1 ¹ / ₈	1 ¹ / ₈	2 ³ / ₃₂	1/2	9/16	3 ³ / ₁₆
ADR99-12DS	1,000 kcmil	350 kcmil	6 ³ / ₁₆	1 ¹ / ₈	1 ¹ / ₈	2 ³ / ₃₂	1/2	9/16	3 ³ / ₁₆

* NEMA Spacing: 1¹/₄" centers except ADR25-12S: 1" centers.

Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).

Type ADR — ALCÜL™ Two-Conductor, One-Hole Mount



CAT. NO.	CONDUCTOR RANGE (AL OR CU)		DIMENSIONS (IN.)							
	MAX.	MIN.	L	W	H	D	E	F	G	I
ADR11-21	1/0 str.	14 AWG	1 ¹ / ₃₂	1 ¹ / ₃₂	2 ⁵ / ₃₂	7/16	1/4	3/16	2 ⁷ / ₃₂	3 ⁵ / ₆₄
ADR21-21*	2/0 str.	14 AWG	1 ¹ / ₃₂	1 ¹ / ₄	2 ⁵ / ₃₂	2 ⁷ / ₆₄	1/4	3/16	2 ⁷ / ₃₂	2 ¹ / ₃₂
ADR25-21	250 kcmil	6 Str.	2 ⁹ / ₁₆	1 ¹ / ₄	1 ¹ / ₁₆	7/8	3/8	1/4	1 ¹ / ₁₆	1 ³ / ₁₆
ADR35-21	350 kcmil	6 Str.	2 ⁷ / ₈	1 ⁵ / ₁₆	1 ¹ / ₄	7/8	1/2	1/4	1 ¹ / ₄	6 ¹ / ₆₄
ADR60-21	600 kcmil	2 Str.	3 ³ / ₁₆	2 ¹ / ₃₂	1 ¹ / ₁₆	5/8	1/2	7/16	1 ¹³ / ₁₆	1 ¹ / ₃₂
ADR80-21	800 kcmil	300 kcmil	3 ³ / ₁₆	3 ³ / ₁₆	1 ¹ / ₁₆	7/8	5/8	1/2	1 ³ / ₄	1 ¹ / ₈
ADR99-21	1,000 kcmil	500 kcmil	3 ³ / ₁₆	3 ³ / ₁₆	1 ¹ / ₁₆	7/8	5/8	1/2	1 ³ / ₄	1 ¹ / ₈

* Not CSA Listed.

UL 486B

AL9CU

Thomas & Betts

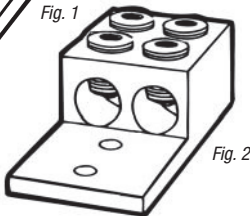
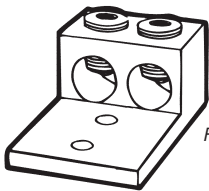
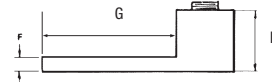
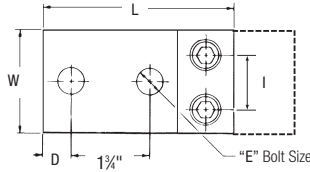
C-36

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Type ADR — ALCÜL™ Two-Conductor, Two-Hole Mount*



CAT. NO.	FIG.	CONDUCTOR RANGE (AL OR CU)		DIMENSIONS (IN.)							
		MAX.	MIN.	L	W	H	D	E	F	G	I
ADR35-22D	1	350 kcmil	6 Str.	4 1/4	2 1/4	1 1/2	5/8	1/2	3/8	3	1 1/2
ADR60-22D	2	600 kcmil	2 Str.	5 1/8	2 3/4	1 1/2	5/8	1/2	3/8	3 1/8	1 1/8
ADR80-22D	2	800 kcmil	300 kcmil	6 1/8	3 1/2	1 1/2	5/8	1/2	3/8	3 3/8	1 1/8
ADR99-22D	2	1,000 kcmil	500 kcmil	6 1/8	3 1/2	1 1/2	5/8	1/2	3/8	3 3/8	1 1/8

* NEMA Spacing: 1 1/4" centers.

Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).
UL 486B, AL9CU

Type ADR — ALCÜL™ Three-Conductor, Two-Hole Mount*

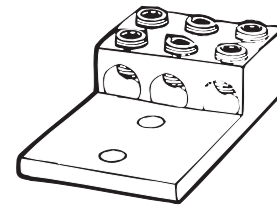
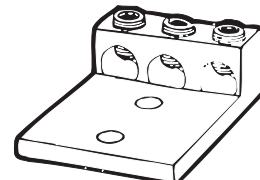
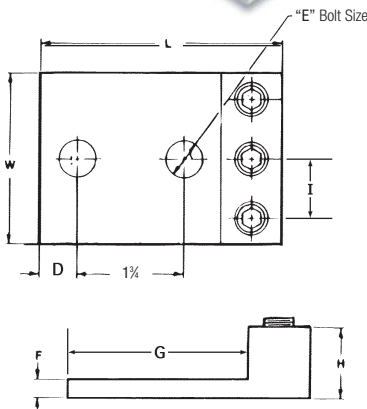


Fig. 1

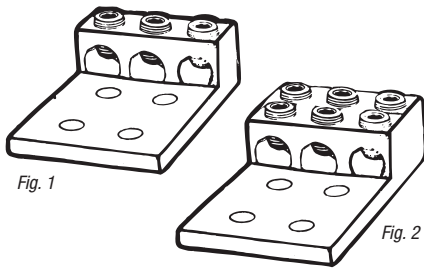
Fig. 2



CAT. NO.	FIG.	CONDUCTOR RANGE (AL OR CU)		DIMENSIONS (IN.)							
		MAX.	MIN.	L	W	H	D	E	F	G	I
ADR02-32	1	2 Str.	14 AWG	2 3/8	1 5/8	5/8	1 1/2	5/8	3/8	1 11/16	9/16
ADR11-32	1	1/0 Str.	14 AWG	2 9/16	2	7/8	1 1/2	3/8	1/4	2 1/2	4/8
ADR31-32	1	3/0 Str.	6 Str.	4	2 1/8	1 1/8	5/8	1/2	3/8	3	3/8
ADR25-32	1	250 kcmil	6 Str.	4 3/8	2 1/8	1 1/4	5/8	1/2	1/4	3 1/8	3/8
ADR35-32	1	350 kcmil	6 Str.	4 3/8	3 3/8	1 1/4	5/8	1/2	1/4	3 1/8	1 1/2
ADR50-32	1	500 kcmil	4 Str.	4 1/8	3 3/4	1 1/8	5/8	1/2	7/8	3 3/8	1 1/4
ADR60-32D	2	600 kcmil	2 Str.	5 1/8	4 3/8	1 1/2	5/8	1/2	3/8	3 1/8	1 1/8
ADR80-32	2	800 kcmil	300 kcmil	6 1/8	4 1/2	1 1/2	5/8	1/2	3/8	3 3/8	1 1/8
ADR99-32	2	1,000 kcmil	500 kcmil	6 1/8	4 1/2	1 1/2	5/8	1/2	3/8	3 3/8	1 1/8

* NEMA Spacing: 1 1/4" centers except ADR02-32; 7/8" centers and ADR11-32; 1" centers.

Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).
UL 486B, AL9CU



Type ADR—ALCÜL™ Three-Conductor, Four-Hole Mount**

CAT. NO.	FIG.	CONDUCTOR RANGE (AL OR CU)		DIMENSIONS (IN.)								
		MAX.	MIN.	L	W	H	D	E	F	G	I	
ADR02-34	1	2 Str.	14 AWG	2 ³ / ₁₆	1 ¹ / ₈	5 ¹ / ₈	1 ¹ / ₂	5 ¹ / ₁₆	3 ¹ / ₁₆	1 ¹ / ₁₆	3 ¹ / ₁₆	9 ¹ / ₁₆
ADR11-34	1	1/0 Str.	14 AWG	2 ³ / ₁₆	2	7 ¹ / ₈	1 ¹ / ₂	5 ¹ / ₁₆	3 ¹ / ₁₆	1 ¹ / ₁₆	2 ³ / ₁₆	5 ¹ / ₁₆
ADR31-34	1	3/0 Str.	6 Str.	4	2 ¹ / ₁₆	1 ³ / ₁₆	5 ¹ / ₈	1 ¹ / ₂	5 ¹ / ₁₆	3	3 ¹ / ₂	3 ¹ / ₂
ADR25-34*	1	250 kcmil	6 Str.	4 ³ / ₁₆	2 ¹ / ₁₆	1 ¹ / ₄	5 ¹ / ₈	1 ¹ / ₂	1 ¹ / ₄	3 ¹ / ₁₆	3 ¹ / ₂	3 ¹ / ₂
ADR35-34*	1	350 kcmil	6 Str.	4 ³ / ₁₆	3 ³ / ₁₆	1 ¹ / ₄	5 ¹ / ₈	1 ¹ / ₂	1 ¹ / ₄	3 ¹ / ₁₆	1 ¹ / ₂	1 ¹ / ₂
ADR50-34*	1	500 kcmil	2 Str.	4 ¹ / ₁₆	3 ³ / ₄	1 ¹ / ₁₆	5 ¹ / ₈	1 ¹ / ₂	7 ¹ / ₁₆	3 ¹ / ₁₆	1 ¹ / ₄	1 ¹ / ₄
ADR60-34D	2	600 kcmil	2 Str.	5 ⁵ / ₁₆	4 ³ / ₁₆	1 ¹ / ₂	5 ¹ / ₈	1 ¹ / ₂	3 ¹ / ₁₆	3 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆
ADR80-34*	2	800 kcmil	300 kcmil	6 ³ / ₁₆	4 ¹ / ₂	1 ¹ / ₂	5 ¹ / ₈	1 ¹ / ₂	3 ¹ / ₁₆	3 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆
ADR99-34*	2	1,000 kcmil	500 kcmil	6 ³ / ₁₆	4 ¹ / ₂	1 ¹ / ₂	5 ¹ / ₈	1 ¹ / ₂	3 ¹ / ₁₆	3 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆

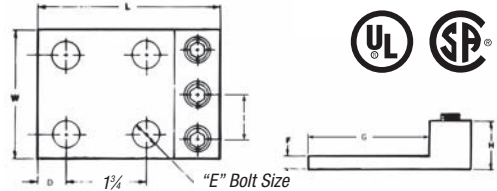
* UL Listed.

** NEMA Spacing: 1³/₄" centers except ADR02-34; 7¹/₈" centers and ADR11-34; 1" centers.

Connectors accommodating conductors 600 kcmil and larger have double row of set screws.

UL 486B

AL9CU

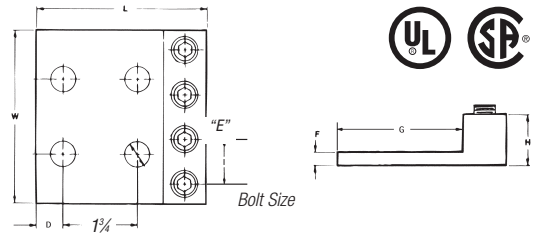


Type ADR—ALCÜL™ Four-Conductor, Four-Hole Mount*

CAT. NO.	FIG.	CONDUCTOR RANGE (AL OR CU)		DIMENSIONS (IN.)								
		MAX.	MIN.	L	W	H	D	E	F	G	I	
ADR25-44	1	250 kcmil	6 Str.	4	4 ¹ / ₁₆	1 ³ / ₁₆	5 ¹ / ₈	1 ¹ / ₂	5 ¹ / ₁₆	3	1 ¹ / ₄	1 ¹ / ₄
ADR35-44	1	350 kcmil	6 Str.	4 ¹ / ₄	4 ⁷ / ₁₆	1 ³ / ₈	5 ¹ / ₈	1 ¹ / ₂	5 ¹ / ₁₆	3	1 ¹ / ₂	1 ¹ / ₂
ADR60-44D	2	600 kcmil	2 Str.	5 ⁵ / ₁₆	5 ¹ / ₂	1 ¹ / ₂	5 ¹ / ₈	1 ¹ / ₂	3 ¹ / ₁₆	3 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆
ADR80-44D	2	800 kcmil	350 kcmil	6 ³ / ₁₆	7 ¹ / ₈	1 ¹ / ₂	5 ¹ / ₈	1 ¹ / ₂	3 ¹ / ₁₆	3 ¹ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₁₆

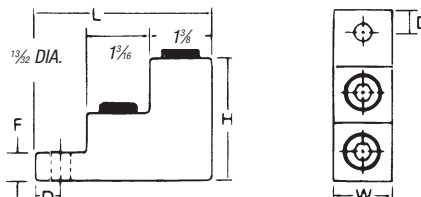
* NEMA Spacing: 1³/₄" centers.

Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).



Type ASL—ALCÜL™ Two-Conductor, One-Hole Mount

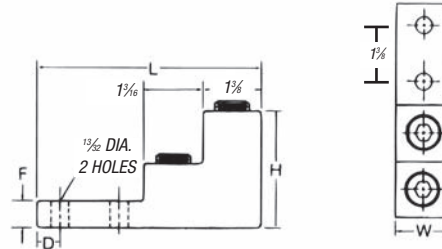
CAT. NO.	CONDUCTOR RANGE (AL OR CU)		DIMENSIONS (IN.)					MTG. HOLE DIA.
	MAX.	MIN.	L	W	H	D	F	
ASL30-21	300 kcmil	6 Str.	3	1 ¹ / ₈	2	1 ⁵ / ₁₆	1 ¹ / ₂	5 ¹ / ₁₆



Type ASL — ALCÜL™ Two-Conductor, Two-Hole Mount

CAT. NO.	CONDUCTOR RANGE (AL OR CU)		DIMENSIONS (IN.)				
	MAX.	MIN.	L	W	H	D	F
ASL60-22	600 kcmil	2 Str.	4 ²⁹ / ₃₂	1 ¹ / ₂	3	3/ ₄	3/ ₈
ASL75-22	750 kcmil	3/0 Str.	4 ²⁹ / ₃₂	1 ¹ / ₂	3	3/ ₄	3/ ₈

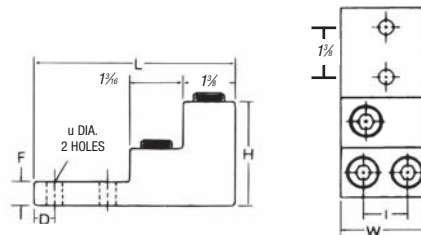
UL 486B
AL9CU



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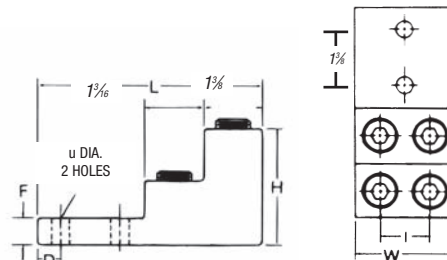
Type ASL — ALCÜL™ Three-Conductor, Two-Hole Mount

CAT. NO.	CONDUCTOR RANGE (AL OR CU)		DIMENSIONS (IN.)					
	MAX.	MIN.	L	W	H	F	D	I
ASL60-32	600 kcmil	2 Str.	4 ²⁹ / ₃₂	2 ¹ / ₂	3	3/ ₄	3/ ₈	1 ¹ / ₂
ASL75-32	750 kcmil	3/0 Str.	4 ²⁹ / ₃₂	2 ²⁷ / ₆₄	3	3/ ₄	3/ ₈	1 ¹ / ₈



Type ASL — ALCÜL™ Four-Conductor, Two-Hole Mount

CAT. NO.	CONDUCTOR RANGE (AL OR CU)		DIMENSIONS (IN.)					
	MAX.	MIN.	L	W	H	F	D	I
ASL60-42	600 kcmil	2 Str.	4 ²⁹ / ₃₂	2 ¹ / ₂	3	3/ ₄	3/ ₈	1 ¹ / ₂
ASL75-42	750 kcmil	3/0 Str.	4 ²⁹ / ₃₂	2 ²⁷ / ₆₄	3	3/ ₄	3/ ₈	1 ¹ / ₈

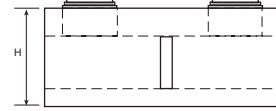
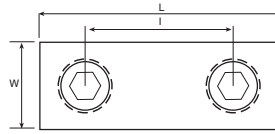


Blackburn®

Dual-Rated Mechanical Connectors

Blackburn® Mechanical

Type ASR — ALCÜL™ Splicer Reducer with Solid Barrier Wire Stop



CAT. NO.	CONDUCTOR RANGE (AL OR CU)		DIMENSIONS (IN.)			
	MAX.	MIN.	L	W	H	I
ASR0214*	2 Str.	14 AWG	1¼	3¼/64	3¼/64	2½/32
ASR1114*	1/0 Str.	14 AWG	1½	3¼/64	2½/32	5¼/64
ASR2506	250 kcmil	6 Str.	2½	55/64	3½/32	1¼/4
ASR3506	350 kcmil	6 Str.	2¾	1½/2	1½	1¼
ASR7525**	750 kcmil	250 kcmil	6¼	1¾	1¼	1¾

* Slotted screws

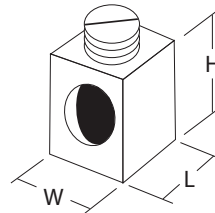
** Two set screws per end. Not CSA Certified.

UL 486B

AL9CU

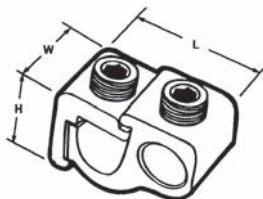
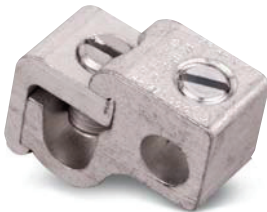
Type BX — ALCÜL™ Rectangular Connectors

- Features anti-rotational boss
- UL486B Recognized (90°C rating)



CAT. NO.	CONDUCTOR RANGE		STYLE & SIZE OF BOSS	BOSS HOLE TAPPED	DIMENSIONS (IN.)		
	MAX.	MIN.			L	W	H
BX0214	2	14CU 12AL	Square .229 in.	10-32	½	½	¾
BX1114	14CU 1/0	Square 12AL	.229 in.	10-32	¾	1½	¾

Type GP — Aluminum Dual-Rated Mechanical Parallel Tap Connectors



CAT. NO.	CONDUCTOR RANGE (AL OR CU)		DIMENSIONS (IN.)		
	MAIN	TAP	W	L	H
GP-2*	2-12 Str.	4-14	5/8	1¾	7/8
GP-0	1/0-2	1/0-14	¾	1¾	1
GP-250-0	250-1/0	1/0-14	1¼	2½	1¼
GP-250	250-1/0	250-6	1¼	2½	1¼
GP-350	350-4/0	350-6	1¼	2½	1¼
GP-500	500-350	500-2	1¾	3¾	1¾
GP-750	750-500	500-2	1½	3¾	2

* Slotted screw, tap side.

To include insulating cover, add suffix WC.

Thomas & Betts

C-40

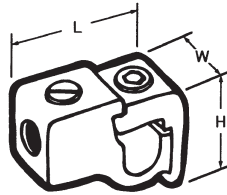
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Dual-Rated Mechanical Connectors

Type GT — Aluminum Dual-Rated Mechanical Parallel Tap Connectors



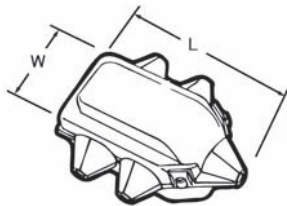
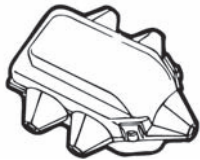
CAT. NO.	CONDUCTOR RANGE (AL OR CU)		DIMENSIONS (IN.)		
	MAIN	TAP	W	L	H
GT-2*	2-12 Str.	4-14	5/8	1 1/8	7/8
GT-0	1/0-2	1/0-14	3/4	1 1/4	1
GT-250-0	250-1/0	1/0-14	1 1/16	2 1/2	1 1/16
GT-250	250-1/0	250-6	1 1/16	2 1/2	1 1/16
GT-350	350-4/0	350-6	1 1/4	2 1/16	1 1/16
GT-500	500-350	500-2	1 1/2	3 1/8	1 1/4
GT-750	750-500	500-2	1 1/2	3 3/8	2

* Slotted screw, tap side.

To include insulating cover, add suffix WC.

Blackburn® Mechanical

Type TC — Insulating Covers for GP-GT

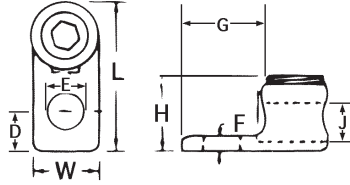


CAT. NO.	DIMENSIONS (IN.)			USE WITH CONNECTOR
	L	W	H	
TC-2	2 1/2	1 1/4	1 1/16	GP-2, GT-2
TC-10	2 1/2	2 1/2	1 1/4	GP-0, GT-0
TC250350	3 1/2	2 1/2	1 1/2	GP-250, GT-250, GP-350, GP-250-0, GT-250-0, GT-350
TC-500	4 1/4	3 1/8	2 1/16	GP-500, GT-500
TC-750	4 3/8	3 1/8	2 1/2	GP-750, GT-750

Color of all covers is black

Tightening Torque Values for Aluminum Dual-Rated Socket Screw Connectors

AWG OR CIRCULAR MIL SIZE	TIGHTENING TORQUE IN IN.-LB.		AWG OR CIRCULAR MIL SIZE	TIGHTENING TORQUE IN IN.-LB.	
	SCREW DRIVER	WRENCH		SCREW DRIVER	WRENCH
12	20	75	4/0	—	200
10	20	75	250	—	250
8	20	75	350	—	250
6	35	100	500	—	300
4	35	100	600	—	300
2	50	125	700	—	300
1	50	125	750	—	300
1/0	50	150	800	—	400
2/0	50	150	1,000	—	400
3/0	—	200			



- Cat. Nos. L400 and L650 cast from high-strength bronze alloy

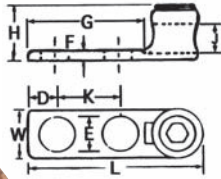
- Cat. Nos. L35, L70, L125 and L250 cold forged from pure electrolytic copper with 99% conductivity

Type L— Single-Conductor, One-Hole Mount



CAT. NO.	SOCKET	HEX	CONDUCTOR RANGE		DIMENSIONS (IN.)							
			MAX.	MIN.	L	W	H	F	D	J	E	G
L35*			8 Str.	14 Sol.	1 ³ / ₁₆	3 ⁷ / ₈	3 ⁷ / ₈	3 ³ / ₃₂	1 ³ / ₆₄	1 ¹ / ₆₄	1 ³ / ₆₄	1 ¹ / ₂
L70*			4 Str.	14 Sol.	1 ¹ / ₂	1 ⁷ / ₃₂	3 ³ / ₆₄	3 ³ / ₃₂	3 ³ / ₃₂	3 ³ / ₃₂	3 ³ / ₃₂	2 ¹ / ₃₂
L125	L125H		1/0 Str.	8 Sol.	1 ¹ / ₂	4 ⁷ / ₆₄	7 ³ / ₄	3 ³ / ₃₂	3 ³ / ₈	2 ⁷ / ₆₄	2 ¹ / ₆₄	2 ⁷ / ₃₂
L250	L250H		250 kcmil	6 Str.	1 ⁹ / ₆₄	1 ⁵ / ₁₆	1 ¹ / ₁₆	1 ¹ / ₈	2 ³ / ₆₄	5 ³ / ₈	1 ³ / ₃₂	1 ¹ / ₃₂
L400BB	L400H		500 kcmil	4/0 Str.	3	1 ¹ / ₃₂	1 ¹ / ₃₂	3 ³ / ₃₂	3 ³ / ₈	7 ³ / ₈	3 ¹ / ₁₆	1 ³ / ₂
L650	L650H		1,000 kcmil	500 kcmil	4	2	2 ³ / ₁₆	1 ⁷ / ₃₂	3 ³ / ₄	1 ¹ / ₄	3 ¹ / ₁₆	2

* Sizes L35 and L70 have screwdriver slot head screws only. UL 486A.



- For use where large contact area is required to provide more secure mounting

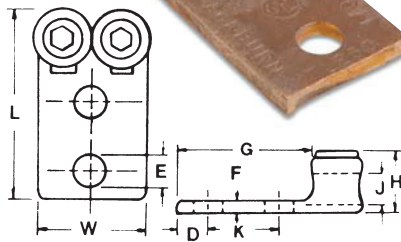
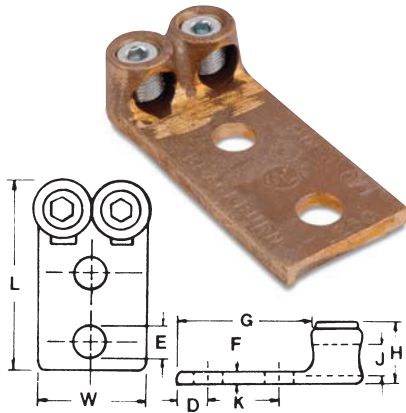
- Cast from high strength bronze alloy

Type L— Single-Conductor, Two-Hole Mount



CAT. NO.	SOCKET	HEX	CONDUCTOR RANGE		DIMENSIONS (IN.)								
			MAX.	MIN.	L	W	H	F	D	K	E	G	J
L1252	L1252H		1/0 Str.	4 Str.	2 ³ / ₁₆	2 ³ / ₃₂	1 ³ / ₁₆	3 ³ / ₁₆	7 ³ / ₁₆	1	1 ¹ / ₃₂	2	2 ³ / ₆₄
L2502	L2502H		250 kcmil	1/0 Str.	3	1 ¹ / ₁₆	1 ¹ / ₃₂	1 ³ / ₆₄	7 ³ / ₁₆	1	1 ¹ / ₃₂	1 ¹ / ₈	3 ³ / ₈
L4002	L4002H		500 kcmil	4/0 Str.	3 ³ / ₈	1 ¹ / ₃₂	1 ¹ / ₃₂	5 ³ / ₁₆	7 ³ / ₁₆	1	1 ¹ / ₃₂	1 ¹ / ₁₆	5 ³ / ₆₄
L6502	L6502H		1000 kcmil	500 kcmil	4 ¹ / ₁₆	2	2	3 ³ / ₈	3 ³ / ₈	1 ¹ / ₂	3 ¹ / ₁₆	2 ³ / ₄	1 ¹ / ₄

UL 486A.



- Conveniently terminates parallel conductors

Type TL— Two-Conductor, Two-Hole Mount



CAT. NO.	SOCKET	HEX	CONDUCTOR RANGE		DIMENSIONS (IN.)							
			MAX.	MIN.	L	W	H	F	K	D	E	G
TL250	TL250H		250 kcmil	1/0 Str.	4 ³ / ₁₆	1 ¹ / ₈	1 ¹ / ₁₆	3 ³ / ₃₂	1 ¹ / ₄	5 ³ / ₈	3 ¹ / ₁₆	3 ³ / ₈
TL400	TL400H		500 kcmil	4/0 Str.	4 ³ / ₈	2 ³ / ₁₆	1 ¹ / ₁₆	1 ³ / ₃₂	1 ¹ / ₄	1 ¹ / ₁₆	3 ¹ / ₁₆	3 ³ / ₈
TL650	TL650H		1,000 kcmil	500 kcmil	5 ³ / ₈	3 ³ / ₄	2 ³ / ₁₆	3 ³ / ₁₆	1 ³ / ₄	5 ³ / ₈	3 ³ / ₈	1 ¹ / ₄

Four hole NEMA tang on TL650.

UL 486A.

- Cast of high-strength copper alloy

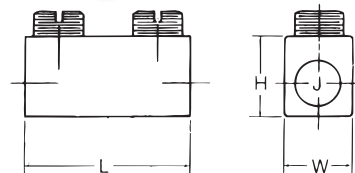
- Plated steel socket head set screws

Type S— Copper End-to-End Splice Connector



CAT. NO.	CONDUCTOR RANGE		DIMENSIONS (IN.)				
	MAX.	MIN.	L	W	H	J	I
S100BB	1 Str.	4 Sol.	1 ¹ / ₁₆	5 ³ / ₈	1 ¹ / ₁₆	3 ³ / ₈	1 ⁵ / ₁₆
S225BB*	4/0 Str.	1 Str.	2 ³ / ₁₆	2 ³ / ₃₂	3 ³ / ₃₂	3 ³ / ₁₆	1 ³ / ₁₆
S400BB	500 kcmil	4/0 Str.	2 ³ / ₈	1 ³ / ₁₆	1 ¹ / ₁₆	3 ³ / ₈	1 ³ / ₈

* Not UL Listed.



NEW!

Fast, easy installation.

Direct-Burial Splice Kits

- Includes outer heat-shrink tubing insulator with adhesive sealant for rugged, watertight protection
- For underground feeder (UF) cable, UFSK148DB's four-in-one connector supports four-conductor, three-phase-plus-neutral or single-phase wiring systems
- For non-UF cable, DBSK82 offers easy-to-install, one-piece, aluminum alloy connector



CAT. NO.	DESCRIPTION	WIRE RANGE	STD. PKG. QTY.
UFSK148DB	UF Direct-Burial Splice Kit	14-8 AWG	10
DBSK82	Direct-Burial Splice Kit (non-UF)	8-2 AWG	10

- Uniquely designed pressure bar and notched v-bottom collar provide vise-like grip between conductor and terminal
- Made of electrolytic seamless copper
- Screws are zinc-plated steel
- UL 486A tested for copper conductor

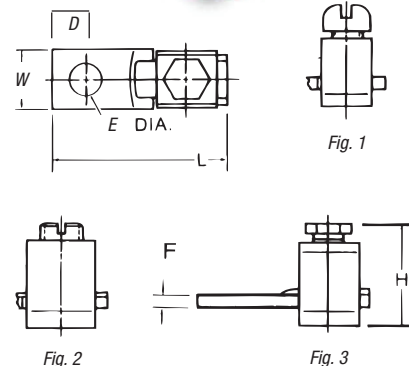


Type STC—

Copper Single-Conductor, One-Hole Mount (Straight Tang)

CAT. NO.	FIG. NO.	CONDUCTOR RANGE		DIMENSIONS (IN.)					
		MAX.	MIN.	L	W	H	F	E	D
STC1014*	1	10 AWG	14 AWG	1	3/16	1/2	5/64	3/32	3/16
STC0614	2	6 Str.	14 AWG	1 1/4	3/8	1 1/8	5/64	1 1/4	7/32
STC0414	2	4 Str.	14 AWG	1 1/4	1/2	2 1/32	3/32	1 1/4	1/4
STC0208	3	2 Str.	8 Str.	1 1/2	1/2	3 1/2	3/32	1 1/4	1/4
STC1102	3	1/0 Str.	2 Str.	1 1/2	3/8	1 1/4	1/8	1 1/4	7/16
STC3104	3	3/0 Str.	4 Str.	2 1/4	3/4	1 1/8	1/8	1 1/2	7/16
STC4102	3	4/0 Str.	2 Str.	2 3/8	1	1 21/32	1/8	1 1/2	1/2
STC3511	3	350 kcmil	1/0 Str.	3 1/4	1	1 1/2	3/16	1 3/32	5/8
STC5011	3	500 kcmil	1/0 Str.	3 3/8	1 1/2	1 13/16	3/16	1 3/32	1 1/16
STC9960	3	1,000 kcmil	600 kcmil	5	2	2 3/8	1/4	1 1/2	1 1/8

* Not CSA Listed.

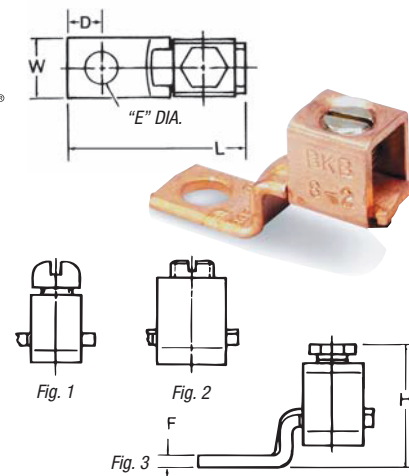


Type BTC—

Copper Single-Conductor, One-Hole Mount (Offset Tang)

CAT. NO.	FIG. NO.	CONDUCTOR RANGE		DIMENSIONS (IN.)					
		MAX.	MIN.	L	W	H	F	E	D
BTC1014*	1	10 AWG	14 AWG	1	3/16	3/4	5/64	3/32	3/16
BTC0614	2	6 Str.	14 AWG	1 1/2	3/8	2 1/2	5/64	1 1/4	7/32
BTC0208	2	2 Str.	8 Str.	1 1/2	1/2	2 1/2	3/32	1 1/4	1/4
BTC1102	3	1/0 Str.	2 Str.	1 25/32	3/8	1 13/32	1/8	1 1/4	7/16
BTC3104	3	3/0 Str.	4 Str.	2 3/4	3/4	1 1/8	1/8	1 1/2	7/16
BTC4102	3	4/0 Str.	2 Str.	2 5/8	1	1 61/64	1/8	1 1/2	1/2
BTC3511	3	350 kcmil	1/0 Str.	3 1/4	1	2 1/2	3/16	1 3/32	5/8
BTC5011	3	500 kcmil	1/0 Str.	4 1/4	1 1/2	2 21/32	3/16	1 3/32	1 1/16
BTC9960	3	1,000 kcmil	600 kcmil	4 3/4	2	3 3/8	1/4	1 1/2	1 1/8

* Not CSA Listed.

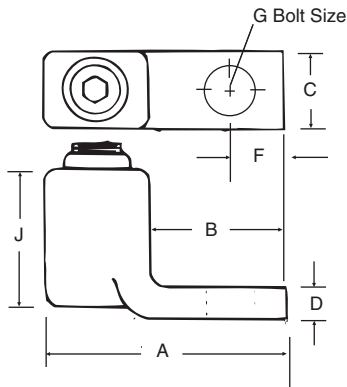


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Only nine lug sizes fit cables from #14 to 1,000 kcmil.

One-Hole Lugs

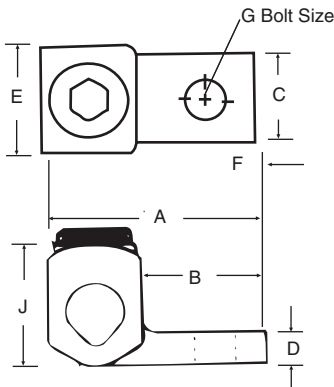
- Easily installed with key wrench
- Saddle and cable socket make direct, all-around, low-resistance contact with cable
- Convenient peephole permits easy inspection



CAT. NO.	CABLE SIZE	DIMENSIONS (IN.)							
		G	A	B	C	D	J	F	
31003 [†]	14 to 8	¼	1½	9/16	½	⅛	17/32	9/32	
31005-TB [†]	8 to 4	¼	1½	5/8	½	⅛	17/32	9/32	
31007	4 to 1	¼	1½	13/16	5/8	3/32	1	11/32	
31009	1 to 2/0	¾	1½	1	13/16	¼	1 1/16	7/16	
31011	2/0 to 4/0	¾	2¾	1¼	1	9/32	1 13/32	17/32	
31013	4/0 to 300	½	2¾	1½	1 1/16	5/16	1 17/32	5/8	
31015	300 to 500	½	3 1/16	1 1/16	1¾	11/32	1 19/16	¾	
31017	500 to 750	½	3 5/32	2 3/16	1¾	13/32	2 1/8	1	
31019	750 to 1000	5/8	4 5/16	2 19/32	1¾	15/32	2 11/32	1 1/16	

[†]With Filister Head Screw. All others, hex socket screws.

One-Hole Flag-Type Lugs



CAT. NO.	CABLE SIZE	DIMENSIONS (IN.)							
		G	A	B	C	D	J	F	E
31005-AL [†]	8 to 4	¼	1½	5/8	½	⅛	17/32	9/32	½

[†]With Filister Head Screw.

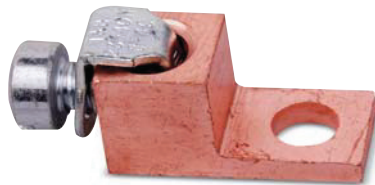
Bolt holes and spacings listed are standard, but lugs with blank tongues can be furnished.

For torque requirements, see **page C-49**.

LOCKTITE® Connectors — Code Copper Conductor (for 600V)

All the outstanding LOCKTITE® lug features — plus two-bolt capacity.

One-Hole 90° Upright Lugs



CAT. NO.	CABLE SIZE	DIMENSIONS (IN.)						
		G	A	B	C	D	J	F
31005-UAL†	8 to 4	¼	1½	¾	½	⅛	⅞	⅝
31007-UAL	4 to 1	¼	1½	13/16	¾	7/32	11/16	11/32
31009-UAL	1 to 2/0	¾	2½	1	13/16	¼	15/16	7/16
31011-UAL	2/0 to 4/0	¾	2½	1¼	1	¾	1½	17/32

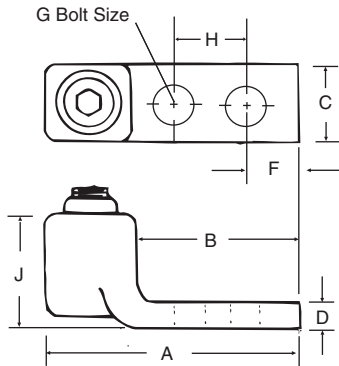
†With Filister Head Screw. All others, hex head screws.
Bolt holes and spacings listed are standard, but lugs with blank tongues can be furnished.

Two-Hole Lugs

- Easy installation
- High conductivity
- Wide cable range
- Long tongue adapted for 2 bolts



Blackburn® Mechanical

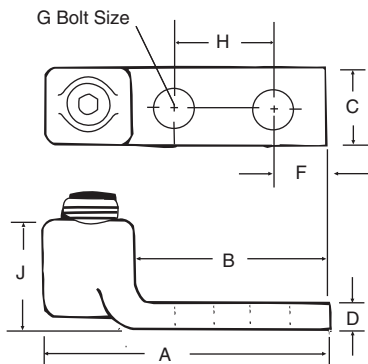


CAT. NO.	CABLE SIZE	DIMENSIONS (IN.)							
		G	A	B	C	D	J	F	H
32003†	14 to 8	¼	1½	1¼	½	⅛	15/32	9/32	5/8
32005†	8 to 4	¼	1¾	1¼	½	⅛	17/32	9/32	5/8
32007	4 to 1	¼	2¼	1½	¾	7/32	7/8	9/32	¾
32009	1 to 2/0	¾	2½	1½	13/16	¼	13/32	7/16	1
32011	2/0 to 4/0	¾	3½	2	1	9/32	15/16	7/16	1
32013	4/0 to 300	¾	3½	2½	1½	5/16	1½	7/16	1
32015	300 to 500	¾	3½	2½	1½	11/32	1½	7/16	1
32017	500 to 750	½	4½	3	1¾	13/32	2½	9/16	1½
32019	750 to 1,000	½	4½	3	1¾	15/32	2½	9/16	1½

†With Filister Head Screw. All others, hex head screws.
For torque requirements, see page C-49.

Two-Hole NEMA-Drilled Lugs

- Furnished with bolt holes and spacings to fit equipment with NEMA-type connector mounting pads



CAT. NO.	CABLE SIZE	DIMENSIONS (IN.)							
		G	A	B	C	D	J	F	H
32207	4 to 1	¾	2¾	2	¾	7/32	7/8	7/16	1
32209	1 to 2/0	½	3¾	3	1	¼	11/16	9/16	1¾
32211	2/0 to 4/0	½	4½	3	1	9/32	1¾	9/16	1¾
32213	4/0 to 300	½	4¾	3	1¾	5/16	1½	9/16	1¾
32215	300 to 500	½	4¾	3½	1¾	11/32	1½	9/16	1¾
32217	500 to 750	½	5¾	3½	1¾	13/32	2½	9/16	1¾
32219	750 to 1,000	½	5¾	3½	3	15/32	2½	9/16	1¾

For torque requirements, see page C-49.

Blackburn®

LOCKTITE® Connectors — Code Copper Conductor (for 600V)

All the same features as the standard LOCKTITE® lug — with two or three barrels.

Double-Barrel/Triple-Barrel NEMA-Drilled Lugs for 600V Applications

- Screw tightening
- Serrated saddle
- Built-in lockwasher

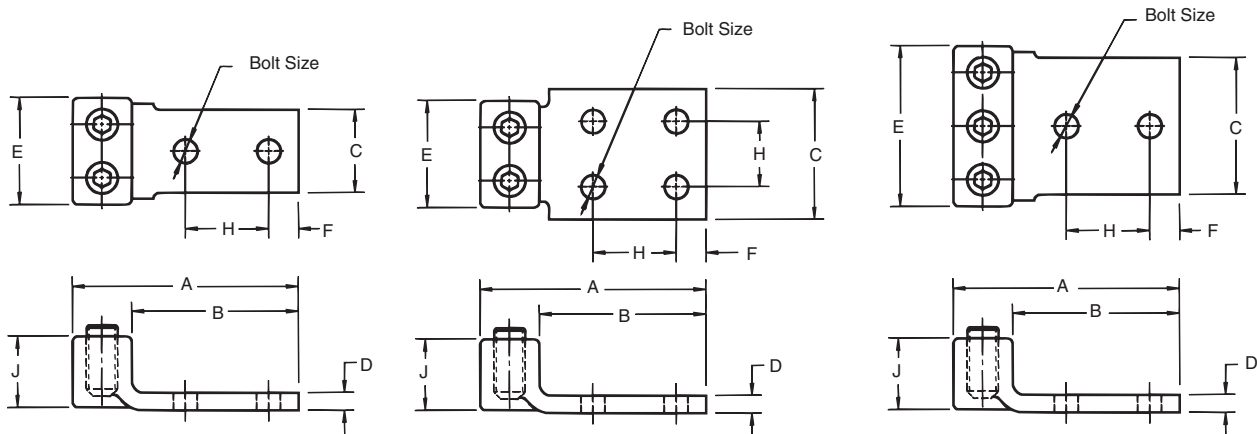
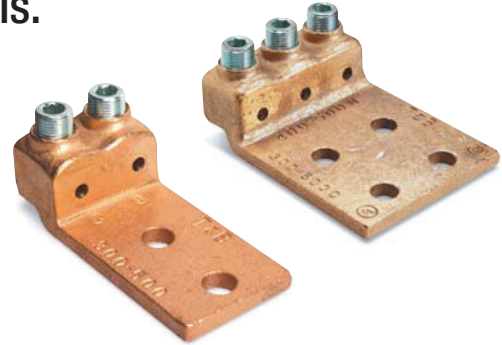


Fig. A

Fig. B

Fig. C

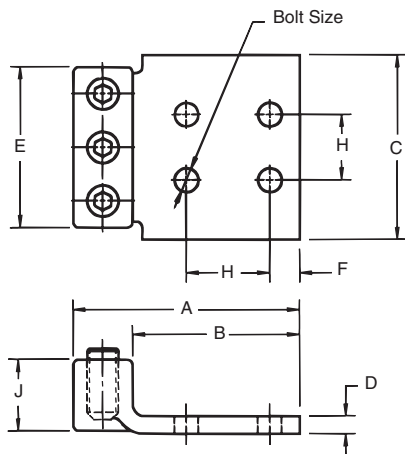


Fig. D



CAT. NO.	CABLE SIZE	FIG.	DIMENSIONS (IN.)								
			BOLT SIZE	A	B	C	D	E	F	H	J
32003BD [†]	14 to 8	A	1/4	2 3/16	1 1/4	3/8	7/8	1 1/16	5/32	3/8	1 1/32
32005BD [†]	8 to 4	A	1/4	2 1/2	2	1	7/8	1	5/32	5/8	1 1/32
32007BD	4 to 1	A	3/8	2 13/16	2	1 1/4	7/32	1 1/4	7/16	1	29/32
32009BD	1 to 2/0	A	1/2	4 1/16	3 1/2	1 1/2	1/4	1 1/16	5/8	1 1/4	1 1/32
32011BD	2/0 to 4/0	A	1/2	4%	3 3/4	1 3/4	5/32	1 3/4	5/8	1 3/4	1 5/16
32013BD	4/0 to 300	A	1/2	4 3/4	3 1/2	2	5/16	2 1/2	5/8	1 3/4	1 1/16
32015BD	300 to 500	A	1/2	5%	3 13/16	2 1/2	1 1/32	2 1/2	5/8	1 3/4	1 13/16
32017BD	500 to 700	B	1/2	5 13/32	4	4	1 1/32	2 13/16	5/8	1 3/4	2%
32019BD	750 to 1000	B	1/2	5 27/32	4	4	1 5/32	3%	5/8	1 3/4	2 11/32
32011TB	2/0 to 4/0	C	1/2	4%	3%	2 1/2	5/32	2%	5/8	1 1/4	1 9/16
32013TB	4/0 to 300	C	1/2	4%	3 3/4	3	5/16	3 3/4	5/8	1 3/4	1 17/32
32015TB	300 to 500	D	1/2	5%	4	4	1 1/32	3%	5/8	1 3/4	1 13/16
32017TB	500 to 750	D	1/2	5 1/2	4	4	1 1/32	4%	5/8	1 3/4	2%
32019TB	750 to 1,000	D	1/2	5 27/32	4	4	1 1/32	4 1/16	5/8	1 3/4	2 1/32

[†]With Filister Head Screw.

For torque requirements, see **page C-49**.

Blackburn® Mechanical

Thomas & Betts

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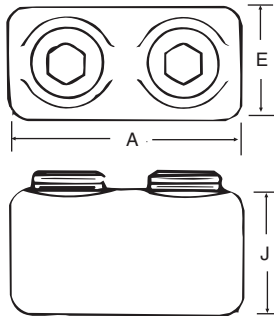
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Fax: 901.252.1354

Technical Services
Tel: 888.862.3289

LOCKTITE® Connectors — Code Copper Conductor (for 600V)

Join two cables end-to-end. Two-Way Connectors

- Cables held by saddle and tightened by screws
- Built-in lockwashers



CAT. NO.	CABLE SIZE	DIMENSIONS (IN.)		
		A	E	J
32503†	14 Sol. to 8 Sol.	1½	¾	1½
32505†	8 Sol. to 4 Str.	1½	½	1½
32507	4 Sol. to 1 Str.	1½	¾	2½
32509	1 sol. to 2/0	1½	¾	1½
32511	2/0 to 4/0	2½	1½	1¼
32513	4/0 to 300	2½	1½	1½
32515	300 to 500	2½	1¼	1¾
32517	500 to 750	3½	1½	2¼
32519	750 to 1,000	3½	1½	2½

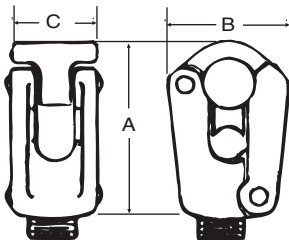
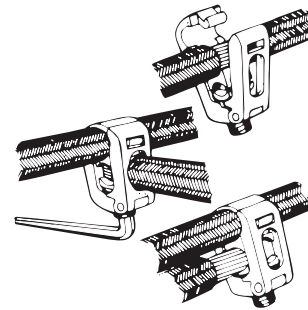
†With Filister Head Screw.

For torque requirements, see page C-49.

Blackburn® Mechanical

Designed for easy, one-person installation. Tee-Parallel Taps

- Tap hangs on main while branch is inserted
- Simply tighten screw to lock in place



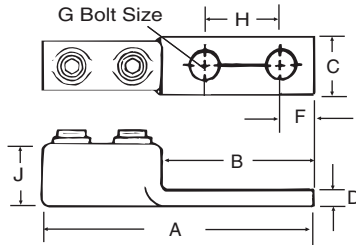
CAT. NO.	CABLE SIZE		DIMENSIONS (IN.)		
	MAIN	BRANCH	A	B	C
35011	300 to 500	2 to 3/0	2½	1¼	1¼
35013	300 to 500	4/0 to 500	3½	1½	1½
35015	500 to 750	2 to 3/0	2¾	1½	1¼
35017	500 to 750	4/0 to 500	3½	2¼	1½
35019	500 to 750	500 to 750	4	2¼	2¼

For torque requirements, see page C-49.

For stranded, solid, flexible and other types of cables.

Tandem-Type Two-Hole NEMA-Drilled Lugs

- Each lug takes a range of wire sizes
- Bolt holes and spacings listed are standard

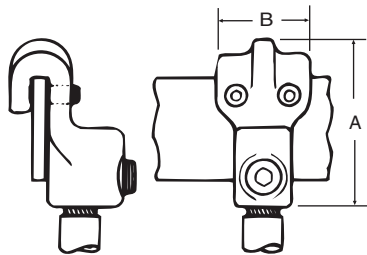


CAT. NO.	CABLE SIZE	DIMENSIONS (IN.)							
		G	A	B	C	D	J	F	H
32007TL	4 to 1	3/8	3 3/16	2	3/4	7/32	29/32	7/16	1
32009TL	1 to 2/0	1/2	4 1/16	3	1	1/4	1 1/32	5/16	1 1/4
32011TL	2/0 to 4/0	1/2	5 5/8	3	1	5/32	1 1/16	5/16	1 1/4
32013TL	4/0 to 300	1/2	5 5/8	3	1 3/16	5/16	1 1/16	5/16	1 1/4
32015TL	300 to 500	1/2	6 1/32	3 1/2	1 1/8	1 1/32	—	5/8	1 1/4
32017TL	500 to 750	1/2	6 3/32	3 1/2	1 1/4	1 1/32	2 1/8	5/8	1 1/4

For easy installation in hard-to-reach places.

Ground Bus Taps — for 1/4" Copper Bus Bar

- Eliminate the need to drill holes in the ground bus
- Can be placed quickly at any location
- Install with only a key wrench
- Standard LOCKTITE® lug grip securely holds tapping cable



CAT. NO.	WIRE SIZE (IN.)	DIMENSIONS (IN.)		BUS THICKNESS
		A	B	
31207	8 to 4	2 1/4	1 1/4	1/4
31208	4 to 1	2 3/16	1 1/4	1/4
31209	1 to 2/0	2 3/4	1 1/4	1/4
31210	2/0 to 4/0	2 3/4	1 1/4	1/4
31211	4/0 to 300	2 3/4	1 1/4	1/4
31212	300 to 500	3	1 1/4	1/4

For torque requirements, see page C-49.

Pigtail Connectors

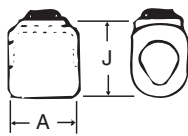


Fig. A



Fig. B



CAT. NO.	CABLE SIZE	FIG.	DIMENSIONS (IN.)	
			A	J
31305	10 to 8	A	1/2	1 1/32
31307	8 to 6	A	3/4	2 1/32
31309	6 to 4	B	7/8	1 1/32
31311	4 to 2	B	1 1/16	1 1/4
31313	1 to 2/0	B	1 3/16	1 1/2
31315	2/0 to 4/0	B	1 1/16	1 5/8

For torque requirements, see page C-49.

NOTE: To order with hex head screws (available on all except 14-10 and 10-8 code sizes), add prefix H to catalog number.

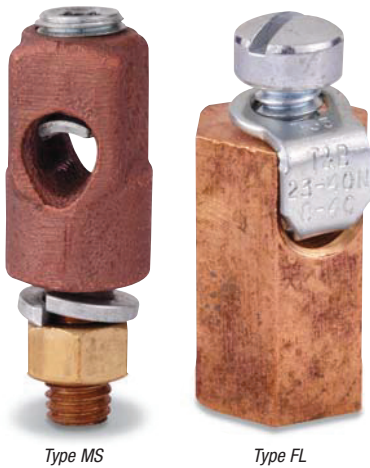
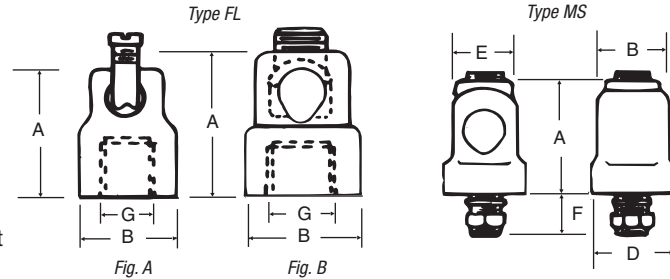
LOCKTITE® Connectors — Code Copper Conductor (for 600V)

Each connector accommodates a wide range of conductor sizes.



Stud Connectors

- Fast, simple installation
- Convenient pigtail is easy to tape
- To order with hex head screws (available on all except 14-10 and 10-8 code sizes), add prefix H to catalog number
- Standard tapping shown in diagrams
- Other tapping to meet specific requirements available on request



Type MS

Type FL

MALE — TYPE MS		DIMENSIONS (IN.)					STUD SIZE (IN.)
CAT. NO.	CABLE SIZE	A	B	D	E	F	
31007-T	4 to 1	1 $\frac{1}{8}$	$\frac{25}{32}$	$\frac{7}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{8}$ -16
31009-T	1 to 2/0	1 $\frac{1}{8}$	$\frac{3}{4}$	1	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{8}$ -16
31011-T	2/0 to 4/0	1 $\frac{1}{8}$	1 $\frac{1}{16}$	1 $\frac{1}{16}$	$\frac{7}{8}$	1	$\frac{1}{2}$ -13
31013-T	4/0 to 300	1 $\frac{1}{8}$	1 $\frac{1}{16}$	1 $\frac{1}{8}$	1 $\frac{1}{16}$	1	$\frac{1}{2}$ -13
31015-T	300 to 500	2 $\frac{1}{2}$	1 $\frac{1}{16}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	1	$\frac{1}{2}$ -13

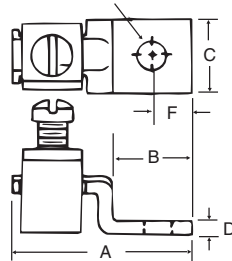
FEMALE — TYPE FL		FIG.	DIMENSIONS (IN.)		
CAT. NO.	CABLE SIZE		G	A	B
31262 [†]	8 to 4	A	$\frac{3}{8}$ -16	1 $\frac{1}{16}$	$\frac{5}{8}$
31263	4 to 1	B	$\frac{3}{8}$ -16	1 $\frac{15}{32}$	$\frac{3}{4}$
31265	4 to 1	B	$\frac{1}{2}$ -13	1 $\frac{15}{32}$	$\frac{3}{4}$
31267	2/0 to 4/0	B	$\frac{1}{2}$ -13	2 $\frac{1}{16}$	1 $\frac{15}{16}$

[†]With Filister Head Screw.

Designed to grip cable firmly between its strong body and serrated copper tongue.

LUG-IT One-Hole Lugs, Offset Tongue

- Double laps at top give greater thread strength and lock screw when tightened
- Copper tongue makes a low-resistance terminal



T&B Recommended Tightening Torque for Copper Connections

SIZE OF CONDUCTOR RANGES	WRENCH TORQUE IN.-LBS.	SCREW DRIVER TORQUE IN.-LBS.
14 to 8	—	20
8 to 4	—	35
4 to 1	125	—
1 to 2/0	150	—
2/0 to 4/0	200	—
4/0 to 300	250	—
300 to 500	300	—
500 to 750	300	—
750 to 1,000	400	—

CAT. NO.	CABLE SIZE	DIMENSIONS (IN.)					
		G	A	B	C	D	F
35301	14 to 6	#10	1 $\frac{3}{16}$	$\frac{1}{2}$	$\frac{3}{8}$.064	$\frac{1}{2}$
35401	8 to 2	$\frac{1}{4}$	1 $\frac{1}{16}$	$\frac{5}{8}$	$\frac{1}{2}$.081	$\frac{1}{4}$
*35501 [†]	4 to 2/0	$\frac{1}{4}$	1 $\frac{13}{16}$	1 $\frac{1}{16}$	$\frac{3}{4}$.101	$\frac{3}{8}$
*35601 [†]	1/0 to 4/0	$\frac{3}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	1	.128	$\frac{1}{2}$

* Aluminum body.

[†]Hex head bolt.

Add suffix G to above Cat. Nos. for lug connector with green screw for grounding identification.

For torque requirements, see **table at right**.

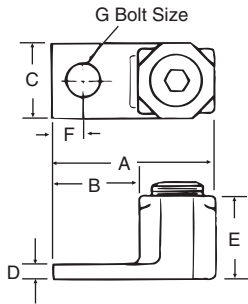
Blackburn®

LOCKTITE® and Tap Connectors — Code Copper Conductor

High pull-out strength and low resistance.

Cone Screw Lugs

- Conically shaped screw compresses copper conductor so each strand is forced to carry its share of the load
- Exerts equal pressure on each conductor strand



CAT. NO.	WIRE RANGE	DIMENSIONS (IN.)							TORQUE (IN.-LBS.)
		G	A	B	C	D	E	F	
71003	14-8	#10	13/16	7/16	3/8	3/32	3/8	3/16	20 *
71005	14-4	1/4	1 1/2	5/8	1/16	1/8	19/32	9/32	35 *
71010	4-2/0	3/8	1 23/32	27/32	23/32	3/16	25/32	3/8	150
71014	2-4/0	3/8	1 1/8	29/32	15/16	3/16	31/32	3/8	200
71015	1-250	3/8	2 1/2	29/32	1	7/32	1	3/8	250
71020	2/0-500	1/2	2 3/4	1 1/4	1 1/2	5/8	1 1/2	3/8	300

Add suffix G to lug Cat. No. 71003, 71005, 71010 and 71014 for lug with green screw for grounding identification.

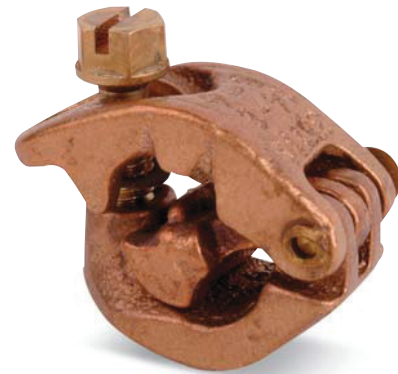
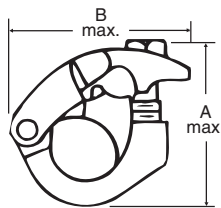
UL File No. E-9609.

*Indicates screwdriver torque; all others indicate torque wrench.

The most economical, easiest to install, approved connector for large to small branch taps.

HINJON Junior Tee-Parallel Taps

- All-around-grip jaws
- Automatically adjusts to size of main and branch
- Fast, simple installation with just a screwdriver or pliers
- Fitting can be easily taped



T&B Recommended Tightening Torque

SIZE OF CONDUCTOR RANGES	WRENCH TORQUE IN.-LBS.	SCREWDRIVER TORQUE IN.-LBS.
14 to 8	20	20
14 to 4	35	35
4 to 2/0	150	—
2 to 4/0	200	—
1 to 250	250	—
2/0 to 500	300	—

CAT. NO.	CABLE SIZE		DIMENSIONS (IN.)		
	MAIN	BRANCH	A	B	C
35107	8 to 4	14 to 8	1 1/16	7/8	5/8
35109	4 to 1/0	14 to 4	1 1/4	1	11/16
35111	1/0 to 4/0	14 to 4	1 3/4	1 3/8	27/32
35112	1/0 to 4/0	8 to 1	1 3/8	1 9/16	27/32
35115	300 to 500	14 to 4	1 3/8	1 1/16	1

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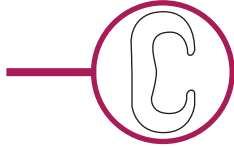
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Figure 6



See Page C-55

C-Taps



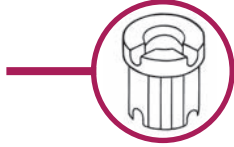
See Page C-60

I-Beam



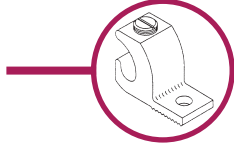
See Page C-63

Type DGC



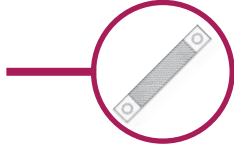
Drive-on
Ground Clamps
See Pages C-69

Type LL, CULL



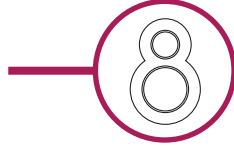
Lay-In
Lug Connectors
See Page C-74

Type FB



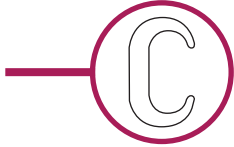
Flexible Braid
Connectors
See Page C-85

Figure 8



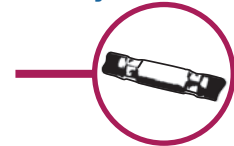
See Page C-55

C-Crimp



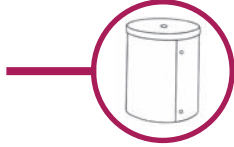
See Page C-60

Two-Way Connector



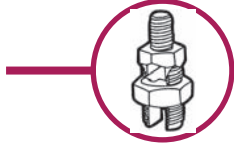
See Page C-63

Ground Electrode Boxes



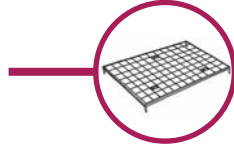
See Page C-70

Type SP



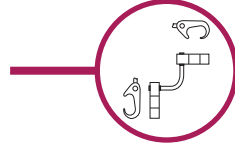
Service Post
Connectors
See Page C-75

Control Mat



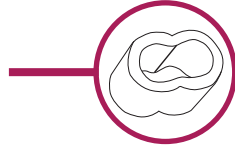
Metallic Gradient
Control Mat
See Page C-88

Figure 6-6



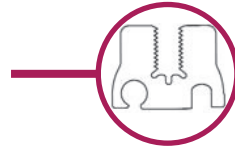
See Page C-56

Type GR



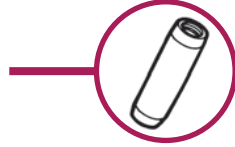
Pigtail
Connectors
See Page C-61

Bus Bar Connector



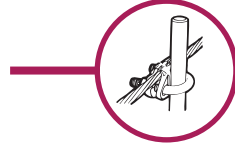
Ground Bus
Bar Connector
See Page C-65

Couplings



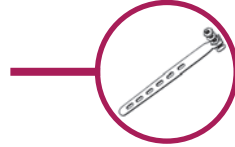
Sectional Ground Rod
Couplings
See Page C-71

Type GUV



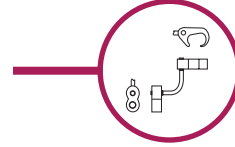
U-Bolt
Ground Clamps
See Page C-76

Type FJ



Flexible Ground
Clamp
See Page C-88

Figure 6-8



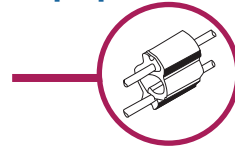
See Page C-56

Grounding Plate



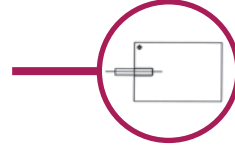
See Page C-61

Snap Tap Connector



See Page C-66

Ground Plate



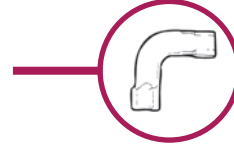
See Page C-72

Ground Clamp



Cast Bronze
Ground Clamp
See Pages C-77-C-83

Type GRD, GG



Ground Grid
Connectors
See Pages C-57-C-59

Grounding Studs



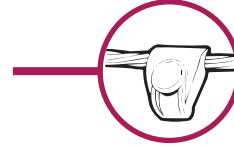
See Page C-62

Type GG, GGH, JAB, G



Ground Rod
Clamps
See Pages C-68-C-69

Type GTC



Tower Ground
Clamps
See Page C-73

Type CH



Conduit Hubs
See Page C-82



Compression Method Grounding Connectors save 50–75% in time and labor costs.

- Eliminates exothermic welding
- Reduces labor and labor costs
- Minimize possibility of poor connections

Thomas & Betts introduces a method of compression to replace exothermic welding and its associated disadvantages. This compression method is designed to provide quick, reliable connections for grid grounding at significantly lower installed costs because compression connectors install in less time, in any weather, and are unaffected by moisture, reducing downtime. In addition, our compression connectors for grid grounding require no special training for installation. They are made of high-conductivity wrought and cast copper, and are used for connecting and tapping cross grid, loop lines and ground rods for direct burial or concrete embedded ground grid systems. The Thomas & Betts compression system uses standard electrical connector installation tools.



Blackburn® Grounding

Meets all applicable specifications

Thomas & Betts grid and ground rod connectors satisfy the requirements of NEC 250-50 for connecting to the Grounding Electrode System. They also meet the requirements of UL Std. 467, UL Std. 486 CSA Std. C22.2 No. 41 and CSA Std. C22.2 No. 65 being acceptable as grounding and bonding equipment suitable for direct burial. Thomas & Betts grid and ground rod connectors also satisfy the recommended practice for the selection of grounding connector joints described in IEEE 837 standard for qualifying permanent connections used in substation grounding.

The connectors conform to the following IEEE Standard 837 requirements:

- 350° C current cycling
- Freeze-thaw test
- Accelerated aging — nitric acid/salt spray
- Mechanical, tensile and electromagnetic force (EMF) criteria
- Install in any weather — cut downtime
- Enhance safety
- Easy to install — no special training

This installation method results in a long-lasting low installed cost connection. You can install it and forget it.

Before compression, typical cable connector cross section of cable and connector consists of about 75% metal and 25% air. After Thomas & Betts method compression, the cross section shows 100% metal with virtually no air spaces.



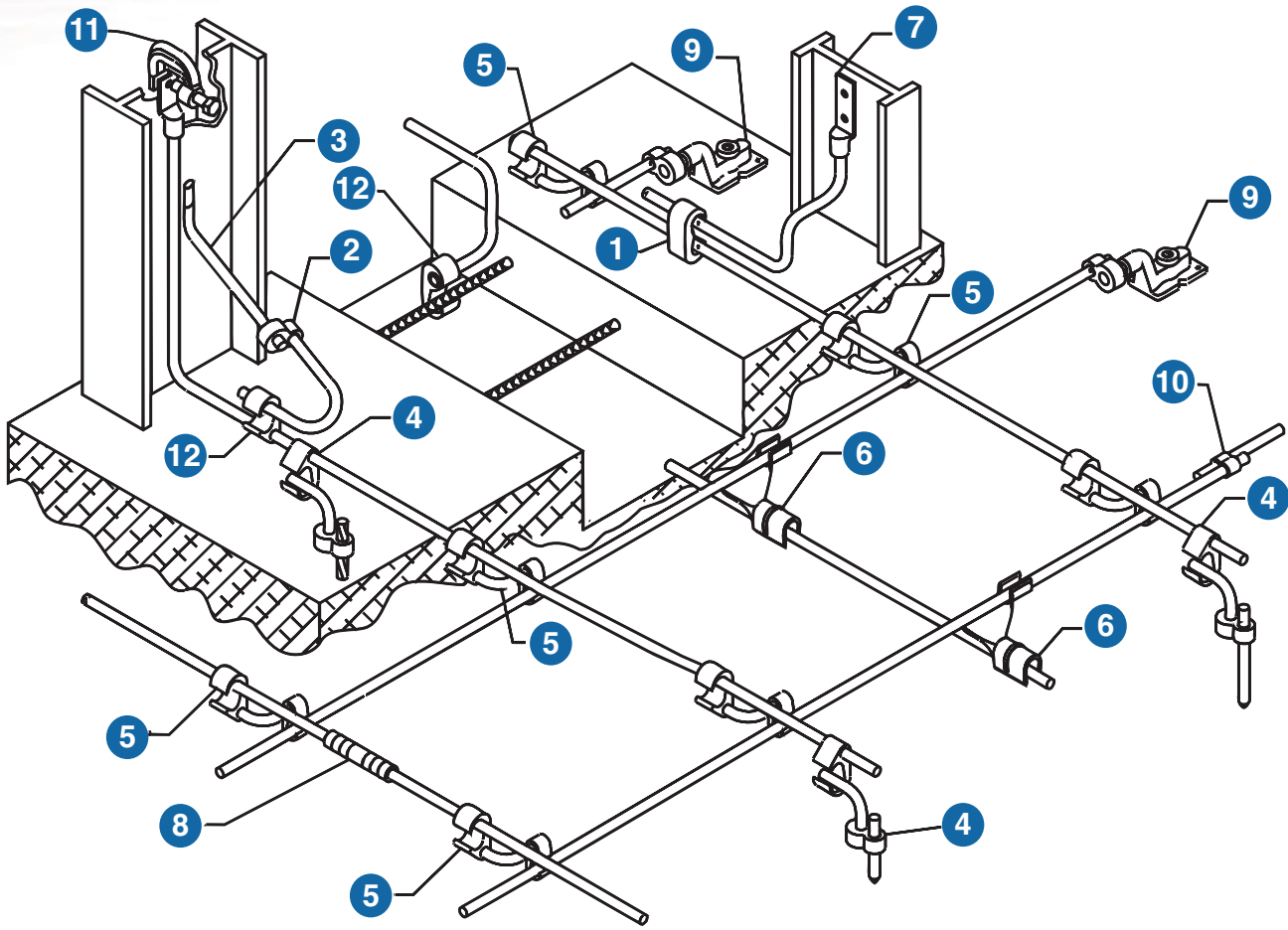
Reliable installations through compression connections

The Thomas & Betts method, utilizing compression tools with matching dies, forms the connector and conductor into a solid, homogeneous mass to provide an optimum electrical bond between connector and conductor. The dies are designed to produce a circumferential, hex-shaped compression rather than a simple indent. The circumferential compression creates a large area of high-pressure contact between cable and connector which, in turn, ensures high conductivity, low resistance and high pullout values exceeding all industry requirements.

Blackburn®

E-Z-Ground® Grounding Connectors

Blackburn® Grounding



Thomas & Betts offers its complete line of grid-ground compression connectors. Our E-Z-Ground® connectors are designed for direct burial and offer a safe, efficient alternative to exothermic welding products. Grid ground installations do not require explosive charges, and can be installed in various climate conditions. These range-taking products will reduce the number of connectors and dies needed for your installation.

Thomas & Betts E-Z-Ground® products meet all applicable standards (IEEE837, UL467, CSA 22.2). Connectors are pre-filled with oxide inhibitors and sealed.

- | | | |
|-----------------------------------|----------------------------|-----------------------|
| 1 C-Taps | 5 Figure 6-6 Connectors | 9 Grounding Plate |
| 2 Figure 8 Connector | 6 GG Connectors | 10 Pigtail Connectors |
| 3 Steel Grounding Stud TBG Series | 7 Lug | 11 I Beam Clamp |
| 4 Figure 6-8 Connectors | 8 Splice/Two-Way/Connector | 12 Figure 6 Connector |

Thomas & Betts

C-54

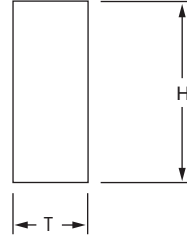
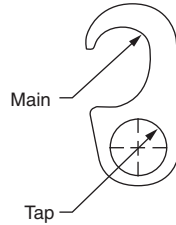
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Figure 6 Compression Ground Tap Connector



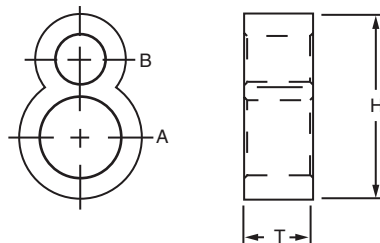
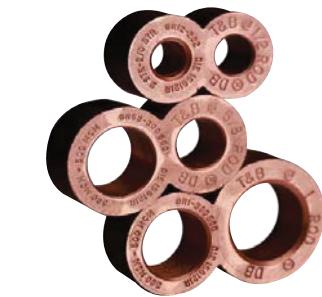

 MEETS
IEEE
 837 REQUIREMENTS

Blackburn® Grounding

CAT. NO.	APPLICATION		CABLE TO REBAR APPLICATION		DIMENSIONS (IN.)		DIES FOR TBM 14M, 13100A OR TBM15I
	MAIN	TAP	A GROUND ROD	B CABLE RANGE	T	H	
54855	1/0 Str.-250 kcmil or 1/2"-3/8" ROD	#4 Sol.-#2 Str.	#3 Rebar 3/8" thru 1/2" #4 Rebar	#4 Sol.-#2 Str.	3/4"	1 1/16"	15G86R
54860	1/0 Str.-250 kcmil or 1/2"-3/8" ROD	1/0 Str.-2/0 Str.	#3 Rebar 3/8" thru 1/2" #4 Rebar	1/0 Str.-2/0 Str.	3/4"	2 3/16"	15G86R
54865-CK	1/0 Str.-250 kcmil or 1/2"-3/8" ROD	3/0 Str.-250 kcmil	#3 Rebar 3/8" thru 1/2" #4 Rebar	3/0 Str.-250 kcmil	3/4"	2 3/16"	15G86R
54875	#6 Sol.-#2 Str.	#6 Sol.-#2 Str.	—	—	3/4"	2 3/16"	15501A
54885	250 kcmil-500 kcmil or 5/8"-3/4" ROD	#4 Sol.-#2 Str.	#5 Rebar 3/8" thru 3/4" #6 Rebar	#4 Sol.-#2 Str.	3/4"	1 1/16"	15G126R
54890	250 kcmil-500 kcmil or 5/8"-3/4" ROD	1/0 Str.-2/0 Str.	#5 Rebar 3/8" thru 3/4" #6 Rebar	1/0 Str.-2/0 Str.	3/4"	2 3/16"	15G126R
54895	250 kcmil-500 kcmil or 5/8"-3/4" ROD	3/0 Str.-250 kcmil	#5 Rebar 5/8" thru 3/4" #6 Rebar	3/0 Str.-250 kcmil	3/4"	2 3/16"	15G126R
54900	250 kcmil-500 kcmil or 5/8"-3/4" ROD	350 kcmil-500 kcmil	#5 REBAR 3/8" thru 3/4" #6 Rebar	350 kcmil-500 kcmil	1 3/8"	2 3/16"	15G121R

* Tin-plated version available of galvanized ground rods. Add suffix -TP

Figure 8 Compression Ground Rod Tap Connector




 MEETS
IEEE
 837 REQUIREMENTS

CAT. NO.	A GROUND ROD	B CABLE RANGE	DIMENSIONS (IN.)		DIES FOR TBM14M 13100A OR TBM15I
			T	H	
GR12-202	1/2"	2 AWG-2/0 AWG	3/8"	1 15/16"	15G121R
GR58-202	5/8"	2 AWG-2/0 AWG	3/8"	1 31/32"	15G121R
GR34-202	3/4"	2 AWG-2/0 AWG	3/8"	2 1/16"	15G121R
GR1-202	1"	2 AWG-2/0 AWG	3/8"	2 1/8"	15G121R
GR12-40250	1/2"	3/0 AWG-250 kcmil	3/8"	1 15/16"	15G121R
GR58-40250	5/8"	3/0 AWG-250 kcmil	3/8"	2 3/16"	15G121R
GR34-40250	3/4"	3/0 AWG-250 kcmil	3/8"	2 3/16"	15G121R
GR1-40250	1"	3/0 AWG-250 kcmil	3/8"	2 3/16"	15G121R
GR58-300500	5/8"	300-500 kcmil	3/8"	2 3/16"	15G121R
GR34-300500	3/4"	300-500 kcmil	3/8"	2 3/16"	15G121R
GR1-300500	1"	300-500 kcmil	3/8"	2 11/16"	15G121R

Tooling: p. B74-B90

Die Selector Chart: p. B92-B93

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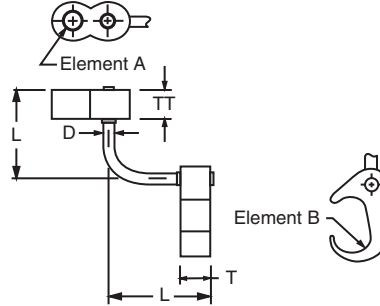
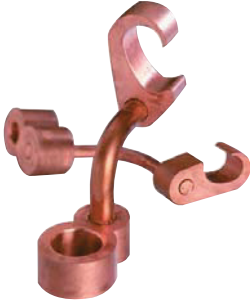
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Blackburn®

E-Z-Ground® Grounding Connectors

Figure 6 to 8 Compression Ground Rod to Grid Connectors

Blackburn® Grounding

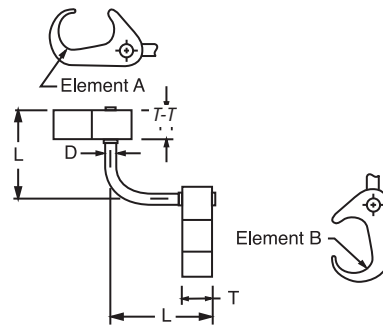
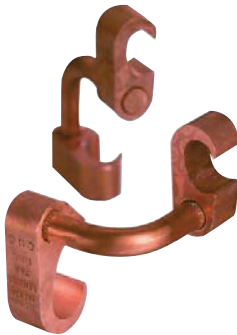



 MEETS
IEEE
 837 REQUIREMENTS

CAT. NO.	A GROUND ROD	B CABLE RANGE	DIMENSIONS (IN.)		DIES FOR TBM14M, 13100A OR TBM15I	
			D	L	ELEMENT A	ELEMENT B
54855LR12*	1/2"	2 AWG-250 kcmil	5/8"	2 1/2"	15G86R	15G121R
54885LR12*	1/2"	250 kcmil-500 kcmil	5/8"	2 1/2"	15G126R	15G121R
54865LR58*	5/8"	2 AWG-250 kcmil	5/8"	2 1/2"	15G86R	15G121R
54895LR58*	5/8"	250 kcmil-500 kcmil	5/8"	2 1/2"	15G126R	15G121R
54875LR34*	3/4"	2 AWG-250 kcmil	1/2"	2 3/4"	15G86R	15G121R
54900LR34*	3/4"	250 kcmil-500 kcmil	1/2"	2 3/4"	15G121R	15G121R
54910LR100	1"	2 AWG-250 kcmil	1/2"	2 3/4"	15G86R	15G121R
54920LR100	1"	250 kcmil-500 kcmil	1/2"	2 3/4"	15G126R	15G121R

*Tin-plated version available of galvanized ground rods. Add suffix -TP.

Figure 6 to 6 Compression Ground Grid Connectors




 MEETS
IEEE
 837 REQUIREMENTS

CAT. NO.	ELEMENT A	ELEMENT B	ELEMENT B TO GROUND ROD	ELEMENT B TO REBAR	DIMENSIONS (IN.)			DIE SELECTION FOR TBM14M, 13100A OR TBM15I	
	CABLE TO CABLE				D	T	T-T	A	B
54855L	#6 Sol.-#2 Str.	#6 Sol.-#2 Str.	—	—	7/8"	3/4"	3/4"	15501A	15501A
54865L	#1 Str.-250 kcmil	#6 Sol.-#2 Str.	1/2"-5/8"	3/8"-1/2" #3-#4 Rebar	7/8"	3/4"	3/4"	15G86R	15501A
54875L	#2 Str.-250 kcmil	#2 Str.-250 kcmil	1/2"-5/8"	3/8"-1/2" #3-#4 Rebar	7/8"	3/4"	3/4"	15G86R	15G86R
54885L	250 kcmil-500 kcmil	#6 Sol.-#2 Str.	3/8"-1/2"	3/8"-1/2" #5-#6 Rebar	7/8"	3/4"	3/4"	15G126R	15501A
54895L	250 kcmil-500 kcmil	#2 Str.-250 kcmil	5/8"-1/2"	5/8"-3/4" #5-#6 Rebar	7/8"	3/4"	3/4"	15G126R	15G86R
54900L	250 kcmil-500 kcmil	250 kcmil-500 kcmil	5/8"-1/2"	5/8"-3/4" #5-#6 Rebar	7/8"	1 1/8"	1 1/8"	15G121R15	G121R

Tooling: p. B74-B90

Die Selector Chart: p. B91-B93

Thomas & Betts

C-56

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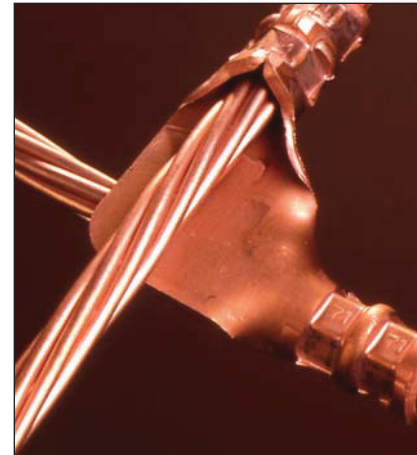
Technical Services
 Tel: 888.862.3289



One-piece construction for cable-to-cable, cable-to-rod, “T” and “X” connections.

Cable-to-Cable or Cable-to-Rod Connectors

- Suitable for direct burial or in concrete
- Replaces exothermic welds
- Made from high-conductivity wrought copper
- Conforms to IEEE 837 standard
- UL467



Blackburn® Grounding

CAT. NO.	CABLE TO CABLE RANGE				GROUND ROD	ROD TO CABLE		
	MAIN	DIE CODE	BRANCH	DIE CODE		DIE CODE	CABLE	DIE CODE
GG21-21	#2 or #1	45	#2 or #1	45	—	—	—	—
GG10-10	1/0	54	1/0	54	—	—	—	—
GG2030-21	2/0 or 3/0	60	#2	45	—	—	—	—
GG2030-10	2/0 or 3/0	60	1/0	54	—	—	—	—
GG2030-2030	2/0 or 3/0	60	#1	50	—	—	—	—
GG40250-21	4/0 or 250	71	#2	45	1/2"	71	#2 or #1	45
			#1	50	5/8"	80H	#2 or #1	50
GG40250-10	4/0 or 250	71	1/0	54	1/2"	71	1/0	65
					5/8"	80H	—	—
GG40250-2030	4/0 or 250	71	2/0 or 3/0	60	1/2"	71	2/0 or 3/0	60
					5/8"	80H	2/0 or 3/0	60
GG40250-40250	4/0 or 250	71	4/0 or 250	71	1/2"	71	4/0 or 250	71
					5/8"	80H	4/0 or 250	71
GG350-350	350 kcmil	80H	350	80H	—	—	—	—
GG500-40250	500 kcmil	87	4/0 or 250	71	5/8"	80H	500	87
					3/4"	87H	500	87
GG500-500	500 kcmil	87	500	87	3/4"	87	500	87
GG500-350	500 kcmil	87H	350	80	5/8"	87H	350	80H
					3/4"	—	—	—
GG500-2030	500 kcmil	87H	2/0 or 3/0	60	5/8"	87H	2/0 or 3/0	60

g: p. B74-B90

Die Selector Chart: p. B91-B93

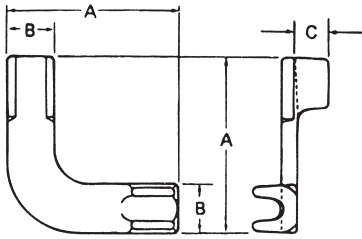
Blackburn®

E-Z-Ground® Grounding Connectors

For copper cable-to-cable ground-grid connections.

Type GRD — Cable-to-Cable Connector

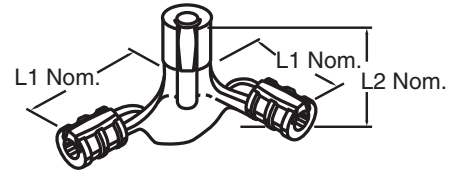
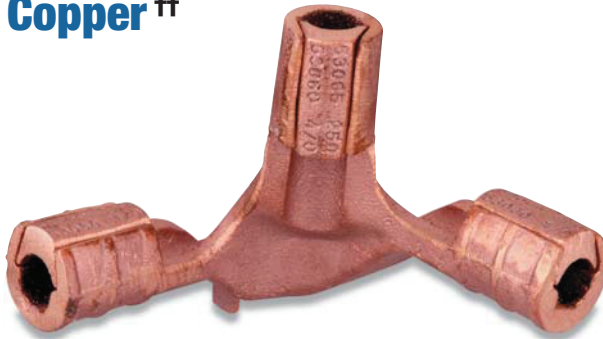
- Cast of high-conductivity bronze alloy
- Suitable for direct burial



CAT. NO.	CONDUCTOR SIZE								GROUND ROD	INSTALLATION INFORMATION			DIMENSIONS (IN.)		
	MAIN				TAP					HYD. TOOL	DIE	NO. CRIMPS	A	B	C
	MAX.	MIN.	MAX. (MM)	MIN. (MM)	MAX.	MIN.	MAX. (MM)	MIN. (MM)							
GRD2	1	2	42.4	33.6	1	2	42.4	33.6	—	TBM14M	B09CH	1	2½	1¼	1¼
GRD20	2/0	1/0	67.4	53	2/0	1/0	67.4	53	—	TBM14M	B10CH	1	3	1½	¾
GRD420	250 kcmil	4/0	126.6	107	2/0	1/0	67.4	53	¾	TBM14M	B12CH	2	3¾	1¼	1¾
GRD40	250 kcmil	4/0	126.6	107	250 kcmil	4/0	126.6	107	¾	TBM14M	B12CH	2	3¾	1¼	1¾

For connecting perpendicular runs of stranded copper cable to ground rod

Two Cables-to-Ground Rod Connector — Heavy-Duty Cast Copper^{††}



CAT. NO.	CABLE SIZE		GROUND ROD DIA.	TBM15I DIE FOR CABLE CODE	OVERALL DIM. (IN.)		TBM15I DIE FOR GROUND ROD CODE
	MAIN	TAP			L1	L2	
53065-58GR	250 or 4/0	250 or 4/0	¾" & ½"	87H	4¾	3¼	87H
53065-34GR	250 or 4/0	250 or 4/0	¾	87H	4¾	3¼	106H

Installs with Hydraulic Tools with hex crimp dies.

^{††} Does not meet IEEE837

Blackburn® Grounding

Thomas & Betts

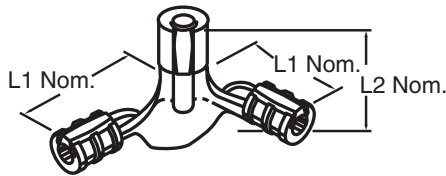
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Copperweld* Conductors & Rebar — for Use with Cast Copper Connectors



CABLE SIZE	REINFORCING ROD SIZE	COPPER WELD CONDUCTOR SIZE
2, 1 AWG	—	3 #8 or 3 #6
1/0, 2/0 AWG	#3	7/8 (7 #8) or 7/16 (7 #7)
4/0, 250 kcmil	#4	7/8 (19 #9) or 7/8 (7 #5)
300–350	#5	27/32 (19 #8) or 3/4 (7 #4)
500 kcmil	#6	13/16 (19 #6)

* Reg. Trademark Copperweld Corporation

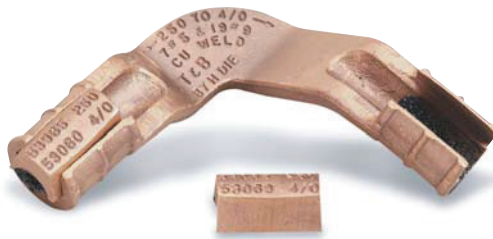
UL Listed for use with cast copper connectors.

Tooling: pp. B74-B90

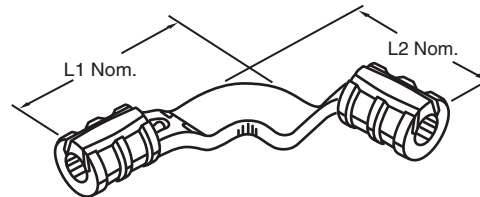
Die Selector Chart: pp. B91-B93

Blackburn® Grounding

Grounding Grid Connectors Heavy-Duty Cast Copper ††



53065



53055

CAT. NO.	ROD TO CABLE RANGE		CABLE TO CABLE RANGE		ROD TO CABLE INSTALLING DIE CODE FOR TBM14M, 13100A OR TBM15I		OVERALL DIMENSION (IN.)	
	ROD SIZE (IN.)	CABLE RANGE	MAIN	BRANCH	ROD BARREL	CABLE BARREL	L1	L2
	53055	—	—	1/0–2/0 AWG	1/0–2/0 AWG	—	66	3/8
53059†	1/2–3/4	2–1 AWG	4/0–250 kcmil	2–1 AWG	87H	54H	4 5/16	4 1/16
53060†	1/2–3/4	1/0–2/0 AWG	4/0–250 kcmil	1/0–2/0 AWG	87H	87H	4 1/16	4 1/16
53065†	1/2–3/4	4/0–250 kcmil	4/0–250 kcmil	4/0–250 kcmil	87H	87H	4 1/16	4 1/16
53069†	3/4	1/0–2/0 AWG	300–350 kcmil	1/0–2/0 AWG	106H	66	4 19/32	4 9/32
53071†	3/4	4/0–250 kcmil	300–350 kcmil	4/0–250 kcmil	106H	106H	5 1/4	4 29/32
53073†	3/4	1/0–2/0 AWG	500 kcmil	1/0–2/0 AWG	125H*	66	4 13/16	4 1/8
53075†	1	4/0–250 kcmil	500 kcmil	4/0–250 kcmil	125H*	87H	6 1/16	5
53080†	1	500 kcmil	500 kcmil	500 kcmil	125H*	125H*	5 1/16	5 1/16

Cat. No. 15500 adapter as required for all 15500 Series dies, not for 15600 Series.

† Ground rods 4/0–250 wire barrels suitable for 1/2" smf 3/8" rod

500 kcmil wire barrels suitable for 1" rods

300–500 kcmil wire barrels suitable for 3/4" rods

Hydraulic tools only

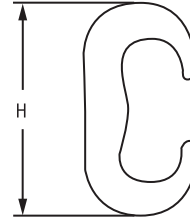
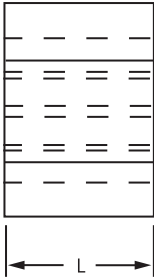
†† Does not meet IEE837

*125H die for 15-ton tool only

Blackburn®

E-Z-Ground® Grounding Connectors

C-Taps



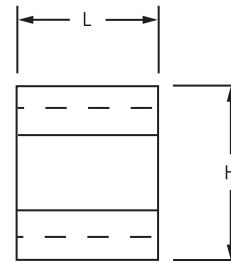
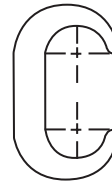
CAT. NO.	MAIN	TAP	DIMENSIONS (IN.)		DIES FOR TBM14M, 13100A OR TBM151 *	CRIMPS
			H	L		
CTP22	#6 Sol.-#2 Str.	#6 Sol.-#2 Str.**	1.16	.75	HBKC	1
CTP202	#1 Str.-2/0 Str.	#6 Sol.-#2 Str.**	1.41	.75	15501A	1
CTP2020	#1 Str.-2/0 Str.	#1 STR.-2/0 Str.	1.54	.75	15501A	1
CTP25020	3/0 Str.-250 kcmil	#6 Sol.-2/0 AWG**	1.97	.75	15G86R	1
CTP250250	3/0 Str.-250 kcmil	3/0 Str.-250 kcmil	2.06	.88	15G86R	1
CTP50020	300-500 kcmil	#6 Sol.-2/0 AWG**	2.42	.88	15G121R	2
CTP500250	300-500 kcmil	3/0 Str.-250 kcmil	2.67	.88	15G121R	2
CTP500500	300-500 kcmil	300-500 kcmil	2.91	1.10	15G121R	3

Material: High-Conductivity Copper.

*Cat. No. 15500 adapter required if using TBM151 and 155XX series dies.

**#6 AWG branch must be doubled.

Copper C-Crimps Wire Combinations^{††}



CAT. NO.	RUN	TAP	DIE INDEX	INSTALLING DIE TBM14M, 13100A, TBM151	DIMENSIONS (IN.)	
					L	H
BC48	6 Sol.-4 Str.	8 Sol.-8 Str.	BG OR ¾	B58CS	4 ¹ / ₄	3 ¹ / ₈
BC46-BB	6 Sol.-4 Str.	6 Sol.-6 Str.	BG OR ¾	B58CS	4 ¹ / ₄	¾
BC44	6 Sol.-4 Str.	4 Sol.-4 Str.	BG OR ¾	B58CS	4 ¹ / ₄	5 ¹ / ₄
BC24	2 Sol.-2 Str.	8 Sol.-4 Str.	C	HBKC	¾	6 ³ / ₄
BC22	2 Sol.-2 Str.	2 Sol.-2 Str.	C	HBKC	¾	1 ¹ / ₄
BC202	1/0 Sol.-2/0 Str.	8 Sol.-2 Str.	E or O	HO	1 ⁵ / ₁₆	1 ¹ / ₈
BC2020-BB	1/0 Sol.-2/0 Str.	1/0 STR.-2/0 Str.	E or O	HO	1 ⁵ / ₁₆	1 ¹¹ / ₃₂
BC402	3/0 Str.-4/0 Str.	6 Sol.-2 Str.	F or D3	HD	1 ¹ / ₈	1 ¹ / ₈
BC4020	3/0 Str.-4/0 Str.	1/0 Sol.-2/0 Str.	F or D3	HD	1 ¹ / ₈	1 ¹ / ₈
BC4040	3/0 Str.-4/0 Str.	3/0 Sol.-4/0 Str.	F or D3	HD	1 ¹ / ₈	1 ¹ / ₈

^{††} Does not meet IEE837

Tooling: p. B74-B90

Die Selector Chart: p. B91-B93

Blackburn® Grounding

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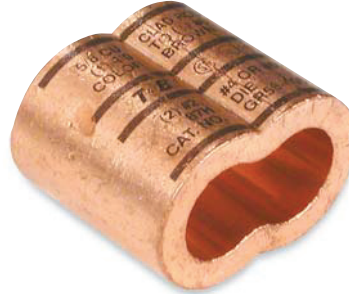


Hex compression intimately bonds cable directly to ground rod.

Pigtail Connectors

- Figure-8 connectors
- Conforms to IEEE 837 standard
- UL467 Listed

When connecting cable to ground rod for direct burial or in concrete, the connector shall be wrought copper with minimum conductivity of 99% I.A.C.S., such as Thomas & Betts series GR12-306. Hex compression with die code embossing shall be used.



MEETS
IEEE
837 REQUIREMENTS

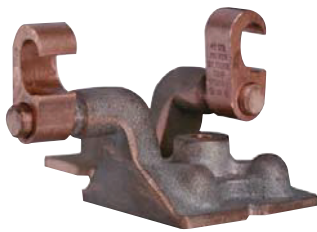
CAT. NO.	CABLE RANGE	GROUND ROD	DIE CODE FOR TBM14M, 13100A OR TBM15I
GR12-306	One Cable: 3/0 to 6 AWG	1/2"	87H
	Two Cables: 2 to 6 AWG		
GR58-406	One Cable: 4/0 to 6 AWG	5/8"	87H
	Two Cables: 2 to 6 AWG		
GR34-4010	One Cable: 4/0 to 1/0 AWG	3/4"	99H

Tooling: p. B74-B90

Die Selector Chart: p. B91-B93

Blackburn® Grounding

Ground Plates



MEETS
IEEE
837 REQUIREMENTS

CAT. NO.	FIG.	CABLE RANGE	H	DIES
GP2250-2	1	2-250 kcmil	3 7/8"	15G86R
GP2250-4	2	2-250 kcmil	4 1/2"	15G86R
GP250500-2	1	250-500 kcmil	3 7/8"	15G126R
GP250500-4	2	250-500 kcmil	4 1/2"	15G126R

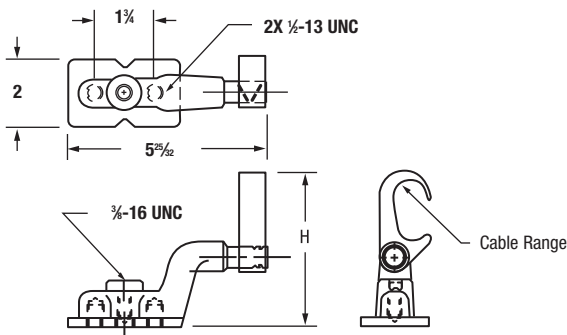


Fig. 1

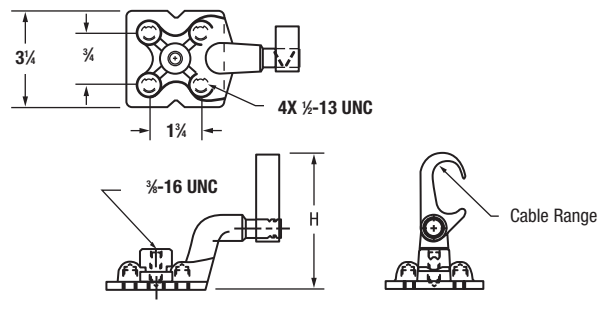


Fig. 2

Blackburn®

E-Z-Ground® Grounding Connectors

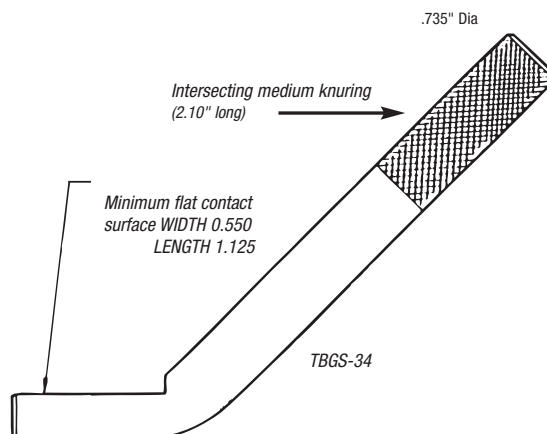
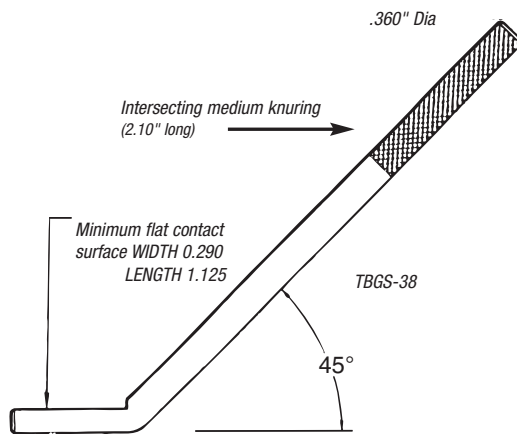
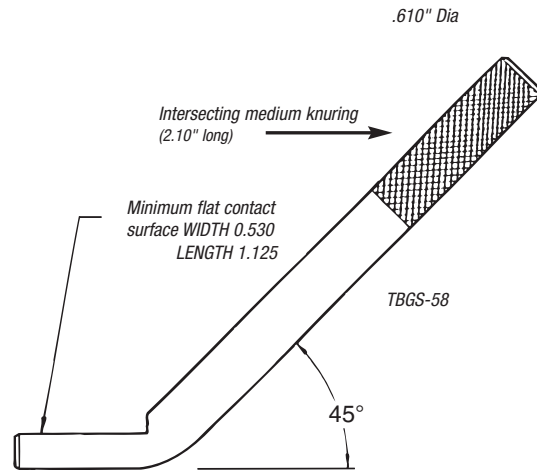
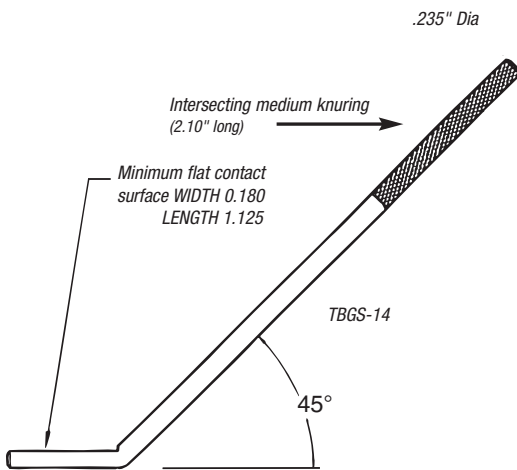
Knurling ensures excellent mechanical pull-out and electrical continuity.

Type TBGS — Structural Grounding Studs

- Easily welded to steel structures with minimal construction welding equipment
- Connect to grounding conductors with appropriate Thomas & Betts grounding connectors
- Knurled portion of stud resists pull-out and provides electrical continuity to ensure the integrity of the grounding circuit
- Constructed of high-strength steel and coated with corrosion-resistant copper cyanide

CAT. NO.	ROD SIZE
TBGS-14	1/4"
TBGS-38	3/8"
TBGS-58	5/8"
TBGS-34	3/4"

Blackburn® Grounding



Thomas & Betts

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Connect ground cable to I-beam or any 1" maximum structural steel member — without welding or drilling.

I-Beam Ground Clamp

- Breakaway bolt head shears at predetermined torque to ensure tight connection
- Heavy-duty compression lug provides excellent current carrying capabilities
- Surface of steel must be cleaned in accordance with installation instruction sheet provided with product
- Connector made of high-conductivity cast copper bright dip
- Clamp made of drop-forged high-grade steel, zinc plated



Blackburn® Grounding



CAT. NO.	WIRE RANGE	TBM151 INSTALLING TOOL, DIE CODE
IBG2-10	2 thru 1/0 AWG	71
IBG20-40	2/0 thru 4/0 AWG	87
IBG350-500	350MCM thru 500 MCM	115

Hydraulic tooling with hex crimp dies.

Satisfies requirements of NEC250-81 and 250-91 for connecting to grounding electrode system.

Cast Copper Two-Way Connector — Heavy-Duty



CAT. NO.	DIE SIZE	DIE CODE
53504	8AWG	29
53505	6AWG	29
53506	4AWG	29
53507	2AWG	45
53508	1AWG	45
53509	1/0AWG	45
53510	2/0AWG	66
53511	3/0AWG	66
53512	4/0AWG	66
53513	250 kcmil	76
53515	350 kcmil	99
53518	500 kcmil	99
53523	750 kcmil	112

Use hydraulic tools with hex dies.

- Made from high-conductivity cast copper
- Electro-tin-plated finish

Blackburn®

E-Z-Ground® Grounding Connectors

Blackburn® Grounding

Provides a permanent, reliable connection.

Ground Clamp

- Crimps to cable
- Clamps to ground rod and rebar
- Uses standard Color-Keyed® hand and hydraulic tools
- Color-coded for easy installation die selection
- Made from high-conductivity wrought copper
- Furnished with stainless steel hardware, ¼" washers, bolts and nuts
- UL467 — approved for direct burial



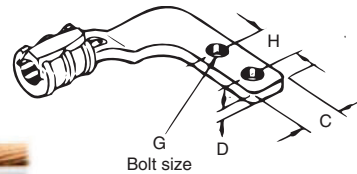
CAT. NO.	WIRE SIZE	GROUND ROD DIAMETER (IN.)	REBAR # (IN.)	BOLT SIZE (IN.)	DIE CODE
CC2C-45R	#2-#3 AWG	½ or ¾	¾	¼	33-BROWN
CC1C-45R	#1 AWG	½ or ¾	¾	¼	37-GREEN
CC10C-56R	1/0 AWG	¾ or 3¼	¾	¾	42-PINK
CC20C-56R	2/0 AWG	¾ or 3¼	¾	¾	45-BLACK
CC40C-56R	4/0 AWG	¾ or ¾	¾	¾	54-PURPLE

UL467 — Approved for direct burial.

Terminate or connect continuous runs of copper cable to flat surfaces.

Flat-Surface Ground Clamp

- Captivated "keeper bar" design extends cable range and helps hold cable prior to crimping, facilitating installation
- Saddles marked with conductor size and die code
- Conductor can be assembled to saddle with standard dies and hydraulic tools
- Made from high-conductivity cast copper



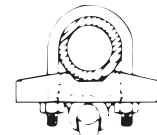
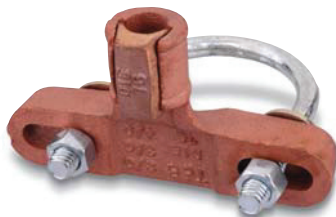
CAT. NO.	WIRE RANGE	BOLT HOLE	DIE CODE NO.*	UNIT QUAN.	STD. PKG.	WT. PER 100	HEX DIE		INCHES				
							CAT. NO.	DIE CODE NO.	L1	L2	D	C	H
53055FL	1/0-2/0 AWG	¾"	66	2	10	75	*15534	66	4½	3½	¾	1½	1
53065FL	4/0-250 kcmil	¾"	87H	2	10	112	**15506	87H	4½	4½	¾	1½	1

* TM14M, 13100A, TBM15I with hex crimp dies.

**TBM15I with hex crimp dies only.

Bond copper conductors to steel or aluminum fence post or top rail of round fence posts.

Grid-to-Fence Ground Clamp



- Provide quick, dependable installation at low installed cost
- Use no incendiary materials
- Body made from cast copper alloy with steel U-bolt

CAT. NO.	GROUND CABLE RANGE	DIE CODE	STEEL & ALUMINUM LINE POST RANGE (IN.)
FG2040R2	2/0-3/0-4/0	76	2
FG2040R25	2/0-3/0-4/0	76	2½
FG2040R3	2/0-3/0-4/0	76	3
FG210R2	2-1-1/0	66	2
FG210R25	2-1-1/0	66	2½
FG210F3	2-1-1/0	66	3

Install with hydraulic tooling with hex crimp dies.

Thomas & Betts

www.tnb.com

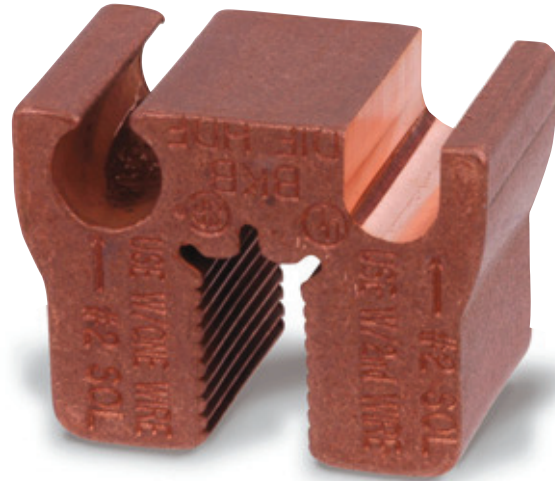
United States
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

Technical Services
Tel: 888.862.3289

Cuts installation time in half — with results superior to conventional connectors.

E-Z-Ground® Bus Bar Connector

- Unique design
- Fast and easy installation
- Superior low-resistance, high-conductivity connections
- Installs with conventional compression tools
- Produces a permanent connection with any combination of copper from #6 to #2 solid or stranded conductor, to ¼" copper bus bar
- Made from pure wrought copper and prefilled with oxide inhibitor
- UL Listed and CSA certified
- Insulated with die HDF

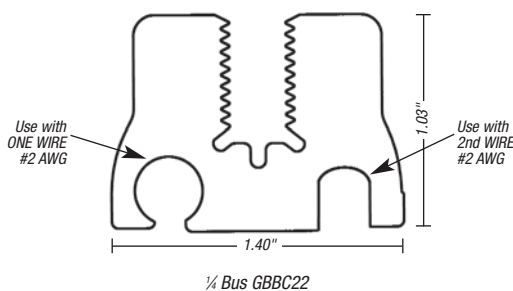


E-Z-Ground® Bus Bar Connectors install in less than 2 minutes with one easy crimp! The connector attaches directly to the bus, saving the labor-intensive process of drilling and tapping. The unique jaw interface of the E-Z-Ground® Bus Bar Connector grips the copper bus, resulting in a low-resistance, high-conductivity connection.

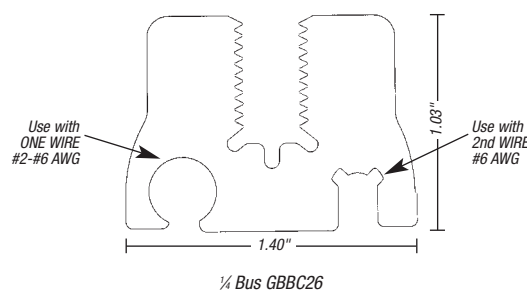
The E-Z-Ground® Bus Bar Connector can be used in OEM applications or telecom applications — cellular, PCS and others. It provides a continuous ground to the copper bus bar, making it ideal for hut and tower applications. The design enables installation in virtually any position, horizontal or vertical, and is suitable for inside and outside plant use. Installation can be completed using any T&B compression tool that accepts U-shaped die sets and is rated 12-ton or higher.

CAT. NO.	BUS BAR THICKNESS (IN.)	CONDUCTOR RANGE	STD. PKG. QTY.
GBBC22	¼	#2 AWG–#2AWG	1
GBBC26	¼	#6 AWG–#2AWG	1

Use this side of the connector when using only one wire.



Use this side of the connector only when using two wires.



Blackburn®

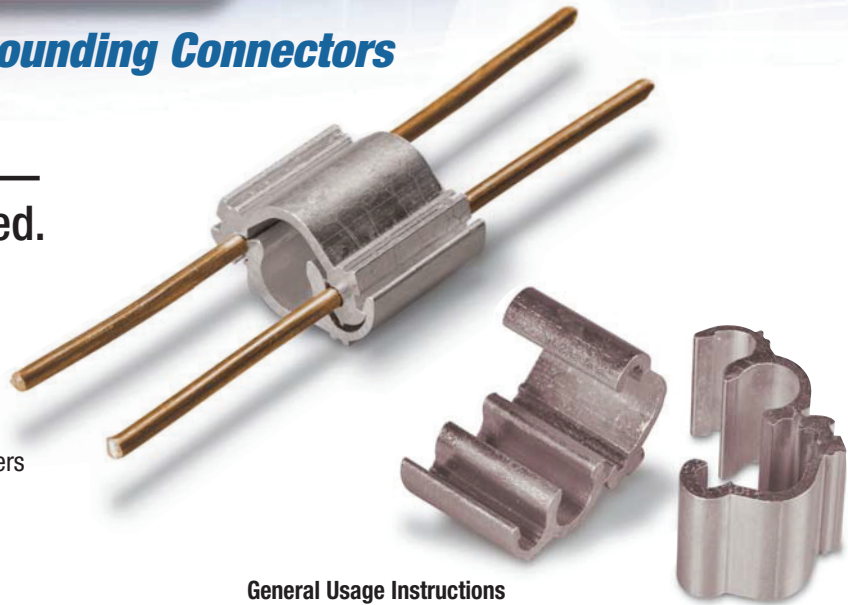
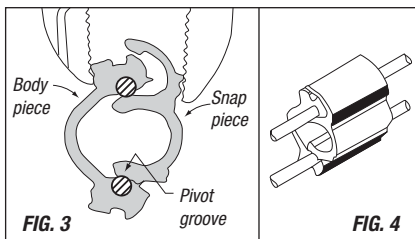
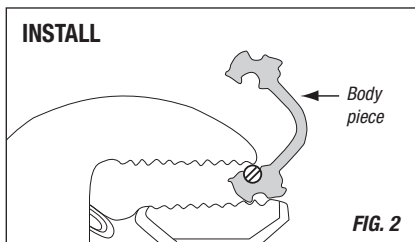
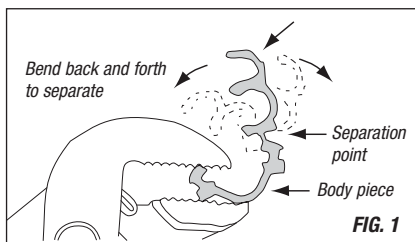
E-Z-Ground® Grounding Connectors

A “snap” to assemble —
no special tools required.

SnapTap® Connector

- Designed for bonding and grounding applications using copper, steel strand and ground rod
- Easily installed with channel locks or pliers
- Made from high-strength aluminum alloy with tin plating
- Offers excellent electrical and mechanical characteristics
- UL467 tested — exceed performance requirements

With the SnapTap® Connector, you can achieve an electrically superior, pressure-fit connection in seconds without expensive tooling. The connector is also easy to disassemble, requiring only a flat-head screwdriver to release the connected body. A one-piece design keeps parts together, minimizing loss of components prior to assembly. Simply separate the pieces and snap them in place for installation. An audible “snap” indicates that the connection is complete and properly installed.



General Usage Instructions

Separate

No special tools required. Use ordinary parallel jaw pliers to separate the connector into two parts. Hold one side of connector with pliers and bend opposite side back and forth until parts separate (see Fig. 1).

Caution: Be careful not to pinch fingers or thumb when separating parts. Keep fingers out of bend path when bending part against plier jaws.

Installation

1. Strip the insulation from each conductor. Be careful not to nick the conductor. Clean the conductor ends with a wire brush or emery cloth if necessary.
2. Place each conductor into the grooves in BODY piece. Press conductors with pliers to align and seat into grooves (see Fig. 2).
3. Hold the conductors and BODY piece until it stops. Use parallel jaw pliers and grip the SNAP and BODY pieces as shown (see Fig. 3). Apply pressure until connector “snaps” into place. Visually inspect snap to verify full insertion. The connection is now complete (see Fig. 4).

Removal

The connector can be disassembled using a flat-head screwdriver to pry the SNAP piece from BODY piece.

CAT. NO.	CONNECTOR DESCRIPTION		PACKAGING		STANDARD ORDER QUANTITY
	MAIN	BRANCH	INNER PACK	OUTER PACK	
JP62	#2 AWG Sol. Copper	No. 6 AWG Sol. Copper	20	200	200
JP66	#6 AWG Sol. Copper	No. 6 AWG Sol. Copper	20	200	200
JP146	1/4" Steel Strand	No. 6 AWG Sol. Copper	20	200	200
JP5166	5/16" Steel Strand	No. 6 AWG Sol. Copper	20	200	200
JP386	3/8" Steel Strand	No. 6 AWG Sol. Copper	20	200	200
JP126	1/2" Steel Strand	No. 6 AWG Sol. Copper	20	200	200
JP126G	1/2" Ground Rod	No. 6 AWG Sol. Copper	20	200	200
JP2614	1/4" Steel Strand	Two-No. 6 AWG Sol. Copper	20	200	200
JP26516	5/16" Steel Strand	Two-No. 6 AWG Sol. Copper	20	200	200
JP2638	3/8" Steel Strand	Two-No. 6 AWG Sol. Copper	20	200	200
JP2612G*	1/2" Ground Rod	Two-No. 6 AWG Sol. Copper	20	200	200

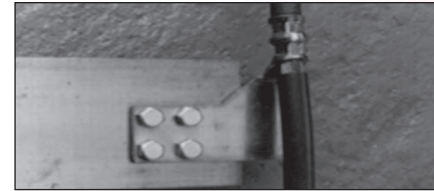
NOTE: All Toolless Connectors are UL listed. Only items with (*) are CSA listed.



A low-cost method of connecting directly to bus bar, eliminating an interface connection.

Riser Cable Flag Connectors for 600V Applications

- Made from high-conductivity wrought copper, plain finish
- All bolt holes are $\frac{3}{8}$ " on 1" centers



CAT. NO.	FIG. NO.	CABLE SIZE	COLOR KEY	DIE CODE	NO. OF CRIMPS	MATERIAL THK. (IN.)	DIMENSIONS (IN.)		
							A	B	C
GFL2-1	1	#2-#1 150/24 175/24	PINK	42	1	$\frac{3}{32}$	3 $\frac{3}{8}$	4	2 $\frac{1}{16}$
GFL10-20	1	1/0	BLACK	45	1	$\frac{3}{32}$	3 $\frac{3}{8}$	4	2 $\frac{1}{16}$
		2/0 AWG	ORANGE	50					
		225/24	BLACK	45					
		275/24		45					
GFL40-250	1	4/0-250 kcmil 325/24 450/24 550/24	RED	71	2	$\frac{5}{32}$	4 $\frac{1}{4}$	4 $\frac{1}{4}$	2 $\frac{1}{16}$
GFL350	1	350 kcmil 650/24 775/24	N/A	80	2	$\frac{5}{32}$	4 $\frac{1}{4}$	4 $\frac{1}{2}$	2 $\frac{3}{8}$
GFL500 ¹	1	500 kcmil 925/24	BROWN	94	2	$\frac{5}{32}$	5 $\frac{1}{4}$	4 $\frac{1}{8}$	2 $\frac{3}{8}$
GFL750 ^{1,2}	2	750 kcmil	BLACK	106	4	$\frac{5}{32}$	8 $\frac{3}{8}$	4 $\frac{1}{4}$	2 $\frac{3}{8}$
		1100/24							
		1325/24							
		1600/24							

NOTES:

¹TBM15I only.

²Both "U" barrels must be crimped to a single, continuous out length of conductor. It is not to be used as a splice.

Tooling: pp. B76-B92

Die Selector Chart: pp. B93-B95

Installing tools: T&B Cat. No. TBM15I, TBM15BSCR, 13100A, TBM14M, and TBM14BSCR hydraulic tools only.

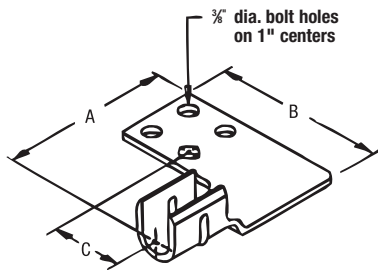


Fig. 1

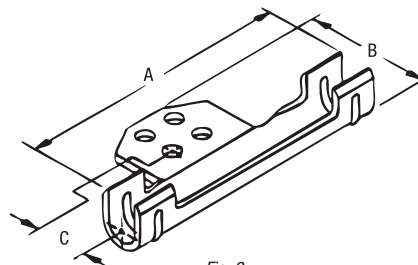


Fig. 2

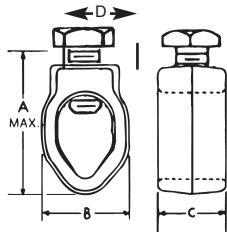
Blackburn®

Ground Rod Clamps

UL Listed for both copper-clad and galvanized ground rods.

Type JWR — Wide-Range Ground Rod Clamp

- UL Listed for direct burial in earth/concrete
- Constructed from bronze alloy and high-performance stainless steel bolt
- Provides wide range of connection sizes
- More than 300 lbs. torque capacity



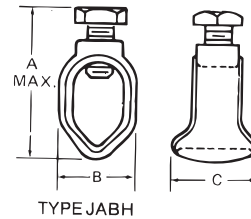
CAT. NO.	NOMINAL ROD DIA.		WIRE RANGE			DIMENSIONS (IN.)				
	(IN.)	(MM.)	MAX.	MIN.	MAX. (MM ²)	MIN. (MM ²)	A (MAX.) BOLT	B	C	D
JWR	3/8*	9.5	1/0 Str.	10 Sol.	53.4	5.2	1.535	1.050	.812	.652
	1/2	12.7	1/0 Str.	10 Sol.	53.4	5.2	1.535	1.050	.812	.652
	5/8	15.8	1/0 Str.	10 Sol.	53.4	5.2	1.535	1.050	.812	.652
	3/4	19.0	1/0 Str.	8 Sol.	53.4	8.3	1.535	1.050	.812	.652

*3/8" rod not recognized/listed by UL.

Long bearing surface of clamp on ground wire secures ground connection.

Type JAB — Ground Rod Clamps

- Cast of high-strength corrosion-resistant copper alloy
- Both hex head bolts and socket set screws available
- UL Listed for direct burial



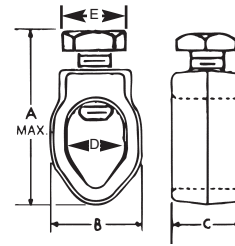
CAT. NO.	SOCKET SET SCREW	HEX HEAD BOLT	NOMINAL ROD DIA.		WIRE RANGE				DIMENSIONS (IN.)					
			(IN.)	(MM)	MAX.	MIN.	MAX. (MM ²)	MIN. (MM ²)	A (MAX.) SOCKET SCREW	A (MAX.) HEX BOLT	SCREW THREAD SIZE UNC-2A	B	C	D
JAB12*	JAB12H	1/2	12.7	2 Str.	10 Sol.	33.6	5.2	1 1/2	2 3/4	7/16-14	2 3/4	3/8	1 1/2	1 1/2
JAB58	JAB58H	5/8	15.8	1/0 Str.	8 Sol.	53.4	8.3	1 7/8	2 3/4	7/16-14	2 3/4	1	1 1/4	1 1/4
JAB34	JAB34H	3/4	19.0	1/0 Str.	8 Sol.	53.4	8.3	2	2 1/2	7/16-14	1 1/2	1	5 1/4	1 1/4
—	JAB34C	3/4 + 5/8	15.8 to 19.0	4/0 Str.	8 Sol.	95.0	8.3	—	2 1/2	7/16-14	1 1/2	1 1/2	1 1/4	1 1/4
JAB1	JAB1H	1	25.0	4/0 Str.	8 Sol.	107.1	8.3	2 1/4	3	7/16-14	1 1/2	1 1/4	1 1/4	1

* Not CSA listed Add suffix P to Cat. No. for tin-plated clamp.

A dependable ground connection offered at a substantial savings.

Type G — Budget-Line Ground Clamps

- Cast of high-strength corrosion-resistant copper alloy
- Furnished with hex head bolts
- Simplified, compact design makes lasting, trouble-free connection
- UL Listed for direct burial



CAT. NO.	NOMINAL ROD DIA.		WIRE RANGE				DIMENSIONS (IN.)					
	(IN.)	(MM.)	MAX.	MIN.	MAX. (MM ²)	MIN. (MM ²)	A (MAX.) BOLT	SCREW THREAD SIZE UNC-2A	B	C	D	E
G3*	3/8	9.5	4 Str.	10 Sol.	21.1	5.2	1 1/8	3/16-18	1 1/8	1/2	2 3/4	3/8
G4	1/2	12.7	2 Str.	10 Sol.	33.6	5.2	—	3/8-16	2 3/4	3/8	3 3/4	1/2
G5†	5/8	15.8	2 Str.	10 Sol.	33.6	5.2	—	3/8-16	2 3/4	3/8	4 3/4	1/2
G6	3/4	19.0	2 Str.	10 Sol.	33.6	5.2	—	3/8-16	1 1/8	3/8	1 3/8	1/2

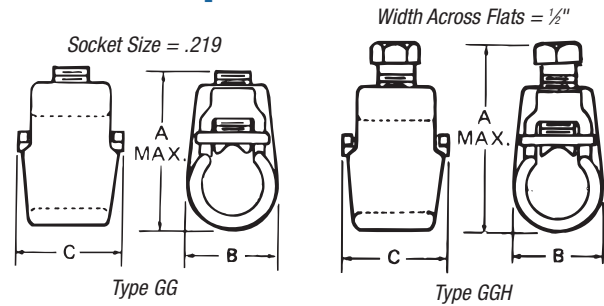
*Not UL Listed †RUS Listed Add suffix P to Cat. No. for tin-plated clamp.



Axial groove keeps wire and rod in perfect alignment.

Types GG and GGH — Heavy-Duty Ground Rod Clamps

- Cast of high-strength corrosion-resistant copper alloy
- Both hex head bolts and socket set screws available
- Floating pressure bar distributes pressure evenly over large area of ground wire



Blackburn® Grounding

CAT. NO.*		NOMINAL ROD DIA.		WIRE RANGE				DIMENSIONS (IN.)				
SOCKET SET SCREW	HEX HEAD BOLT	(IN.)	(MM)	MAX.	MIN.	MAX. (MM ²)	MIN. (MM ²)	A (MAX.)	A (MAX.)	SCREW THREAD SIZE UNC-2A	B	C
								SOCKET SCREW	HEX BOLT			
GG12	GG12H	1/2	12.7	2 Str.	8 Sol.	33.6	8.3	1 1/4	1 1/16	7/16-14	27/32	1 1/16
GG58	GG58H	3/4	15.8	2 Str.	8 Sol.	53.6	8.3	1 5/8	2 1/2	7/16-14	6 1/4	1 1/16
—	GG34H	3/4	19.0	4/0 Str.	8 Sol.	120.6	8.3	—	3	1/2-14	1 1/2	1 1/4

* Add suffix P to Cat. No. for tin-plated clamp.

GG34H has no pressure bar or axial groove.

Drive-on design provides easy, tool-free installation, high-reliability compression-fit connection and room for one or two ground leads.

Type DGC — Drive-On Ground Clamps

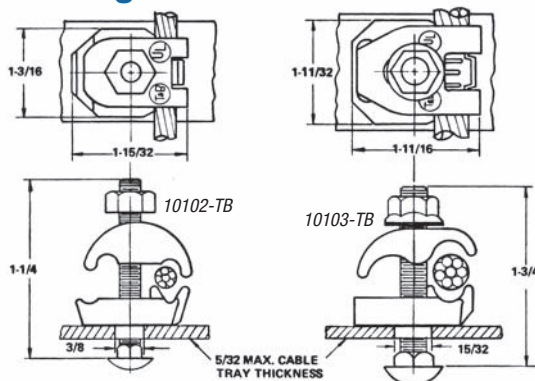
- High-strength copper alloy provides increased tensile strength and long-term corrosion resistance for direct burial applications
- UL486A and UL467 Listed
- RUS Listed



CAT. NO.	GROUND ROD SIZE	GROUND WIRE SIZE
DGC58-44 [†]	3/4 (.555-.565)	1 or 2-#4 Sol.
DGC58-66 [†]	3/4 (.555-.565)	1 or 2-#6 Sol.
DGC58-46	3/4 (.555-.565)	1-#4 Sol., 1-#6 Sol.

[†]RUS Listed

Grounding Connector



- Malleable iron construction
- For use on cable tray up to 5/32" thick



CAT. NO.	GROUND WIRE RANGE (AWG)	CARRIAGE BOLT SIZE
10102-TB	#8 Solid to #2 Stranded	5/16"-18
10103-TB	#4 Stranded to 4/0 Stranded	3/8"-16

Blackburn®

Ground Rod Clamps

Compresses #8 AWG through 4/0 AWG cable.

Signal Reference Grid Connector

- Clamps onto pedestal posts up to 1" diameter square and 1¼" round
- Can be used as an "X" or "T" configuration cable to post
- High-conductivity wrought-copper construction

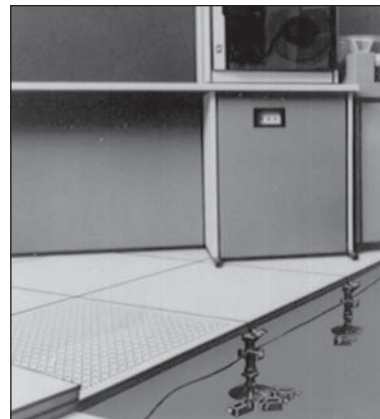


CAT. NO.	CONDUCTOR RANGE	INSTALLING TOOLS AND DIE CODES TBM14M AND TBM15I		
		DIE CAT. NO.	DIE CODE	COLOR CODE
SRG8-4	#8	15527	29	GRAY
	#6 to #4	15528	33	BROWN
SRG2-1	#2 & #1	15508	42	PINK
SRG10-20	1/0 & 2/0	15530	50	ORANGE
SRG30-40	3/0 & 4/0	15511	54	PURPLE

Secures signal reference grid wire to raised-floor support posts.

Signal Reference Grid Clamp

- Range-taking design accepts #8 to #4 AWG grid wire and fits 1" round and ¾" square trade size support posts
- Lay-in feature means no kinks or bends
- Quick, easy installation
- Only one screw to tighten
- Enables grid wire to make direct, low-resistance contact with support posts
- Stamped-steel construction, zinc plated



CAT. NO.	DESCRIPTION	WIRE RANGE
3900	¾" square to 1" round	#8-#4
3900BP (Bulk Pack)	¾" square to 1" round	#8-#4

UL File No. E-3060

Approved for grounding and bonding per UL 467.

Ground Electrode Boxes



CAT. NO.	DESCRIPTION	WT/ 100		STANDARD PACKAGE
		LB.	KGS.	
51628	Pregalvanized steel	1180	536.3	5
51629	Hot dip galvanized	1200	545.4	5

14 gauge steel. 10" diameter, 12" depth.

Blackburn® Grounding

Thomas & Betts

www.tnb.com

United States
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

Technical Services
Tel: 888.862.3289



Streamlined design reduces driving friction.

Type C — Sectional Ground Rod Couplings



- Threaded couplings of high strength, corrosion-resistant alloy
- Tapped for use on all standard threaded sectional rods



CAT. NO.	SIZE (NOMINAL DIAMETER)	THREAD SIZE
50C	½"	½"-13 UNS
50LC**	½" L	½"-12 UNS
60C**	¾"	¾"-11 UNS
70C*	¾"	¾"-10 UNS
80C*	1"	1"-8 UNS

*UL Listed 467 (425H).

†CSA lists rods ½" and larger, 10' and longer.

‡RUS Listed.

Use with all standard threaded couplings.

Type DS — Driving Studs



- Made of high-strength steel
- Compatible with all standard threaded couplings



CAT. NO.	SIZE (NOMINAL DIAMETER)	THREAD SIZE
50DS	½"	½"-13 UNS
50LDS**	½" L	½"-12 UNS
60DS**	¾"	¾"-11 UNS
70DS*	¾"	¾"-10 UNS
80DS*	1"	1"-8 UNS

*UL Listed 467 (425H).

†CSA lists rods ½" and larger, 10' and longer.

‡REA Listed.

For joining non-threaded, copper-bonded steel ground rods.

Threadless Couplings and Driving Cap

- Couplings manufactured of high-strength corrosion-resistant copper alloy
- High-strength hardened steel driving cap prevents "mushrooming" of ground rod while driving to ensure proper fit of coupling



CAT. NO.	DESCRIPTION	DIMENSIONS (IN.)	
		LENGTH	DIAMETER
50LCNT*	½" L threadless coupling	3.0	.78
60CNT2*	¾" threadless coupling	2.5	.69
70CNT*	¾" threadless coupling	3.0	.97
60DSNT	¾" threadless driving cap	4.0	.88

*UL Listed.

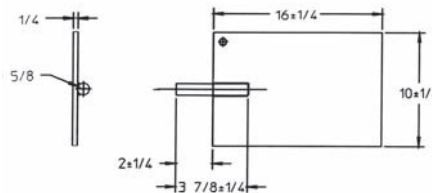
Blackburn®

Ground Plates

As efficient as two
10-ft. x 5/8" ground rods.

Galvanized Ground Plates

- 1/4" thick, hot-dipped galvanized
- Must be buried at least 600mm (24") below finish grade level, according to CEC Rule 10-702



CAT. NO.	DESCRIPTION	CONDUCTOR RANGE
1016TB	Galvanized ground plates	8 Sol. to 1/0 Str.
1016BTB	Galvanized ground plates with JAB58H connector	8 Sol. to 1/0 Str.

More efficient than butt-wrapping poles.

Type GP — Copper Pole Bottom Ground Plates for Multigrounded Neutral Construction

- Made of electrolytic sheet copper
- Built-in high-pressure connector for ground lead, or supplied with #6 AWG copper pigtail pre-attached
- Plates are grooved for trapping moisture



CAT. NO.	PIGTAIL WIRE RANGE				DIAMETER OF PLATE	
	MIN.	MAX.	MIN. (MM ²)	MAX. (MM ²)	(IN.)	(MM)
GP100	8	2 Sol.	6.3	25.6	7½	191
GP110	8	2 Sol.	6.3	25.6	10	254
GP114	8	2 Sol.	6.3	25.6	14	356
GP1003	#6 AWG solid CU Pigtail with 18" conductor		—	—	7½	191
GP1008	#6 AWG solid CU Pigtail with 8-ft. conductor		—	—	7½	191
GP1108	#6 AWG solid CU Pigtail with 8-ft. conductor		—	—	10	254

Installed cost considerably less than butt-wrapped poles.

Type PB — Copper Pole Ground Plates

- Installed on butt end of utility poles to provide an economical, low-resistance neutral ground
- Plate portion fabricated of .025" pure copper
- PBGW connector is eye-bolt type, cast of corrosion-resistant aluminum bronze alloy, with silicon bronze nut and lockwasher
- PBH connector features riveted all-copper terminal lug for connecting to grounding conductor



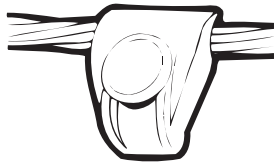
CAT. NO.	WIRE RANGE		FINISHED SIZE	SURFACE AREA SQ. IN.
	MAX.	MIN.		
PBGW	2/0 Str.	10 Sol.	7 x 7½	56
PBH*	4 Str.	14 Sol.	7 x 7½	56

*RUS Listed.

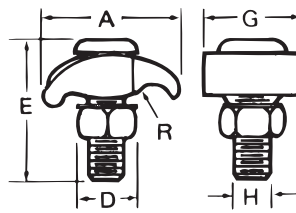


Bolt features square shank to prevent turning and enable clamp to be tightened with a single wrench.

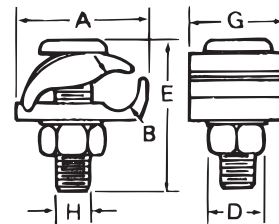
Type GTC — Tower Ground Clamps



- Castings of high-strength, corrosion-resistant copper alloy
- GTC23 and GTC24 are 2-piece clamps for connecting ground lead cable to flat metal surface — ideal for grounding substations on tower footings
- GTC13 and GTC14 are economical 1-piece clamps, which perform the same function as 2-piece clamps, except under-pad support is omitted and conductor connects directly to tower
- Add suffix L to catalog number for 1/2" channel thickness



Type GTC 13 and 14



Type GTC 23 and 24

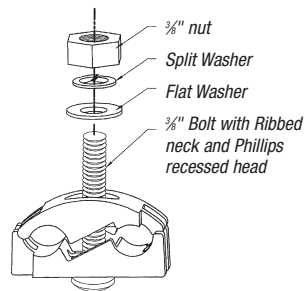


CAT. NO.	CONDUCTOR RANGE				CHANNEL THICKNESS	DIMENSION (IN.)						
	MAX.	MIN.	MAX. (MM)	MIN. (MM)		A	B	D	E	G	H	R
GTC13	2/0 Str.	4 Sol.	67.4	21.1	1/4	1 1/2	—	3/8	1 1/2	1 1/2	3/8	1/2
GTC14	250 kcmil	2/0 Str.	126.6	67.4	1/4	1 1/8	—	3/4	1 1/8	1 1/2	1/2	5/16
GTC23	2/0 Str.	4 Sol.	67.4	21.1	1/4	1 1/4	3/8	3/8	1 1/2	1 1/2	3/8	—
GTC24	250 kcmil	2/0 Str.	126.6	21.1	1/4	1 1/4	3/8	3/8	1 1/8	1 1/2	1/2	—

For use with aluminum or copper conductors.

CTG250 Wide-Range Tower Ground Clamp

- May be used in aluminum or galvanized-steel cable tray
- Ribbed neck on the bolt prevents rotation during tightening if .440" dia. hole is used



CAT. NO.	WIDE RANGE (2 SIDES)	HEIGHT	WIDTH	DEPTH	NUT (FLATS)
CTG250	#2 Sol. (.258 Dia.) 250 kcmil (.575 Dia.)	1.95	2.00	1.13	.560

Tin plate body
Galvanized hardware

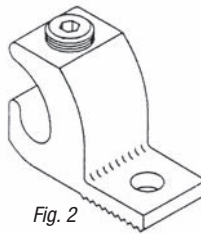
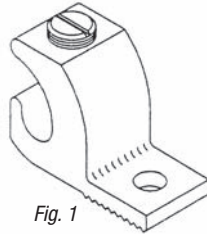
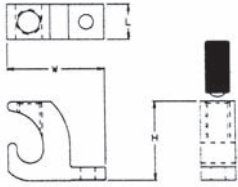
Blackburn®

Mechanical Grounding Connectors

Dual-rated for both copper and aluminum conductor.

Aluminum Lay-in Lug Connector

Blackburn® Grounding



- Manufactured from 6061-T6 aluminum alloy for maximum strength and conductivity
- Open-faced design enables installer to quickly lay-in grounding conductor as jumper to multiple conduits with no break in ground conductor

CAT. NO.	FIG. NO.	COND. RANGE AWG		STUD SIZE		DIMENSIONS					
		IN.	(MM ²)	IN.	(MM)	H (MM)		W (MM)		L (MM)	
LL414	1	4-14	16-1.5	.22	5.59	.78	19.81	.38	9.65	1.07	27.18
LL1014	1	1/0-14	50-1.5	.27	6.86	1.17	29.72	.60	15.24	1.50	38.10
LL306	2	3/0-6	70-16	.33	8.38	1.56	39.62	.80	20.32	2.00	50.80
LL2506	2	250-6	120-16	.33	8.38	1.79	45.47	.80	20.32	2.20	55.88

90° C Rating (486B Listed)

UL Listed for direct burial.

Copper Lay-In Lug Connector

- Ideal for swimming pool grounding applications
- Carries "DB" marking for direct burial
- Open-faced design enables installer to quickly lay-in grounding conductor as jumper to multiple conduits with no break in ground conductor



CAT. NO.	COND. RANGE AWG		STUD SIZE		DIMENSIONS					
	IN.	(MM ²)	IN.	(MM)	H (MM)		W (MM)		L (MM)	
CULL414	4-14	16-1.5	.22	5.59	.78	19.81	.38	9.65	1.07	27.18
CULL414-TP*	4-14	16-1.5	.22	5.59	.78	19.81	.38	9.65	1.07	27.18

90° C Rating (486B Listed)

*Tin Plated

Thomas & Betts

C-74

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Designed for grounding one or two cables to steel structure or transformer.

Service Post Connectors

- For copper-to-copper connections
- Can also be used to tap 1 or 2 cables from bus bar
- Bolts machined from high-conductivity bronze alloy
- Nuts cold-formed from high-strength, corrosion-resistant copper alloy
- Pressure bars copper through 4/0 and copper alloy for 350 kcmil and above
- Bolts and nuts of traditional Blackburn hex design for easy installation
- Available in sizes to accommodate AWG copper conductor ranges of #12–500 kcmil stranded and #12–#2 solid
- Both single- and double-conductor and short- and long-stud versions available
- UL486A and UL467 Listed

Type SP-S — Service Post Connectors, Short Stud

- For copper to copper connections
- For grounding of steel structures or transformers using one or two cables
- For tapping one or two cables from bus bar
- Hex design bolts are machined from high-conductivity bronze alloy
- Nuts and pressure bars are cold-formed from high-strength copper or copper alloy
- UL 486A and UL 467 Listed



Type SP-L — Service Post Connectors, Long Stud

- For copper to copper connections
- For grounding of steel structures or transformers using one or two cables
- For tapping one or two cables from bus bar
- Hex design bolts are machined from high-conductivity bronze alloy
- Nuts and pressure bars are cold-formed from high-strength copper or copper alloy
- UL 486A and UL 467 Listed
- Pressure bars are copper through 4/0 size; copper alloy is used for 350 kcmil size and above
- Available in sizes accommodating AWG copper conductor ranges of #12–500 kcmil stranded (4mm²–240mm²) and #12–#2 solid (4mm²–35mm²)
- Line includes single conductor and double conductor connectors



CAT. NO. CONDUCTOR		CONDUCTORS STRANDED		AWG MM ² SOLID		MAXIMUM DIAMETER RANGE (IN.)	STUD SIZE
DOUBLE	SINGLE	MAX.	MIN.	MAX.	MIN.		
SP0DS	SP0SS	8	12 6mm ²	8 4mm ²	12 10mm ²	.146–.080 4mm ²	¼–20 x ½
SP1DS	SP1SS	7	10 10mm ²	6 10mm ²	10 6mm ²	.170–.102	¼–20 x ½
SP2DS	SP2SS	5	10 16mm ²	4 16mm ²	10 6mm ²	.217–.102	⅝–18 x ⅝
SP3DS	SP3SS	3	10 25mm ²	2 35mm ²	10 6mm ²	.271–.102	⅝–16 x ⅝
SP4DS	SP4SS	1	8 35mm ²	2 35mm ²	8 10mm ²	.332–.128	⅝–16 x ⅝
SP5DS	SP5SS	1/0	2 50mm ²	2 35mm ²	—	.385–.259	⅝–13 x ⅜
SP6DS	SP6SS	2/0	2 70mm ²	2 35mm ²	—	.443–.258	⅝–13 x ⅜
SP8DS	SP8SS	4/0	1 95mm ²	—	—	.570–.289	⅝–11 x 1
SP9DS	SP9SS	350	1/0 150mm ²	—	—	.715–.373	⅝–11 x 1
SP10DS	SP10SS	500	3/0 240mm ²	—	—	.840–.464	⅝–10 x 1¼

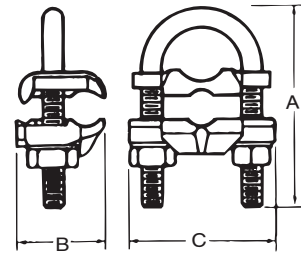
CAT. NO. CONDUCTOR		CONDUCTORS STRANDED		AWG MM ² SOLID		RANGE (IN.)	MAXIMUM DIAMETER STUD SIZE
DOUBLE	SINGLE	MAX.	MIN.	MAX.	MIN.		
SP0DL	SP0SL	8	12 6mm ²	8 4mm ²	12 4mm ²	.146–.080	¼–20 x 1
SP1DL	SP1SL	7	10 10mm ²	6 10mm ²	10 6mm ²	.170–.102	¼–20 x 1
SP2DL	SP2SL	5	10 16mm ²	4 16mm ²	10 6mm ²	.217–.102	⅝–18 x 1
SP3DL	SP3SL	3	10 25mm ²	2 35mm ²	10 6mm ²	.271–.102	⅝–16 x 1½
SP4DL	SP4SL	1	8 35mm ²	2 35mm ²	8 10mm ²	.332–.128	⅝–16 x 1½
SP5DL	SP5SL	1/0	2 50mm ²	2 35mm ²	—	.385–.259	⅝–13 x 1¼
SP6DL	SP6SL	2/0	2 70mm ²	2 35mm ²	—	.443–.258	⅝–13 x 1¼
SP8DL	SP8SL	4/0	1 95mm ²	—	—	.570–.289	⅝–11 x 1½
SP9DL	SP9SL	350	1/0 150mm ²	—	—	.715–.373	⅝–11 x 1½
SP10DL	SP10SL	500	3/0 240mm ²	—	—	.840–.464	⅝–10 x 1¼

Blackburn®

Ground Clamps

Excellent for connecting multiple electrodes with a single cable, such as in substation grounding.

U-Bolt Ground Clamps



- For connecting copper or copper-clad steel grounding conductor to ground rod or pipe
- Specially designed spacer provides proper alignment between cable and electrode and affords more positive contact area
- All components cast or forged from copper alloy
- UL467 Listed for direct burial

CAT. NO.*	CONDUCTOR RANGE (CU)		NOMINAL ROD SIZE (IN.)		IPS PIPE SIZE (IN.)		DIMENSIONS (IN.)		
	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	A	B	C
GUV584	4	8	3/4"	5/8"	3/8"	—	2 3/16	1 1/16	2 1/4
GUV5821	2/0	4	3/4"	5/8"	3/8"	—	2 3/16	1 1/16	2 1/4
GUV5825	250	2/0	3/4"	5/8"	3/8"	—	2 1 1/16	1 1/16	2 1/4
GUV784	4	8	1"	7/8"	3/4"	1/2"	2 3/4	1 1/16	2 3/8
GUV7821	2/0	4	1"	7/8"	3/4"	1/2"	2 3/4	1 1/16	2 3/8
GUV7825	250	2/0	1"	7/8"	3/4"	1/2"	2 3/4	1 1/16	2 3/8
GUV1184	4	8	1 1/4"	1 1/8"	1"	—	3 5/16	1 1/16	2 3/4
GUV11821	2/0	4	1 1/4"	1 1/8"	1"	—	3 5/16	1 1/16	2 3/4
GUV1384	4	8	1 1/2"	1 3/8"	1 1/4"	—	3 7/16	1 9/16	2 5/8
GUV13821	2/0	4	1 1/2"	1 3/8"	1 1/4"	—	3 7/16	1 1/16	2 5/8
GUV13825	250	2/0	1 1/2"	1 3/8"	1 1/4"	—	3 7/16	1 1/16	2 5/8
GUV1584	4	8	1 5/8"	1 5/8"	1 1/2"	—	3 7/16	1 9/16	3 1/8
GUV15821	2/0	4	1 5/8"	1 5/8"	1 1/2"	—	3 7/16	1 1/16	3 3/8
GUV15825	250	2/0	1 5/8"	1 5/8"	1 1/2"	—	3 7/16	1 1/16	3 3/8
GUV204	4	8	2 3/8"	2"	2"	—	4 7/16	1 1/16	3 1 1/8
GUV2021	2/0	4	2 3/8"	2"	2"	—	4 7/16	1 1/16	3 1 1/8
GUV2025	250	2/0	2 3/8"	2"	2"	—	4 7/16	1 1/16	3 1 1/8
GUV21221	2/0	4	2 5/8"	2 1/2"	2 1/2"	—	4 7/16	1 1/16	4 1/8
GUV21225	250	2/0	2 5/8"	2 1/2"	2 1/2"	—	4 7/16	1 9/16	4 1/8
GUV3021	2/0	4	3 1/2"	3"	3"	—	5 3/16	1 1/16	4 1 1/8
GUV3025	250	2/0	3 1/2"	3"	3"	—	5 3/16	1 1/16	4 1 1/8
GUV31221	2/0	4	4"	3 1/2"	3 1/2"	—	6 1/16	1 1/16	5 1/2
GUV4021	2/0	4	4 1/2"	4"	4"	—	6 5/16	1 1/16	5 1 1/8
GUV4025	250	2/0	4 1/2"	4"	4"	—	6 5/16	1 1/16	5 1 1/8

* For tin plating add suffix P to Cat. No. Contact factory for price and availability.

UL does not list tin-plated bronze grounding devices.

Blackburn® Grounding

Thomas & Betts

C-76

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Waterpipe Ground Clamps



CAT. NO.	GROUND WIRE SIZE	WATER PIPE SIZE
2-TB	#6, #4, #2	½", ¾", 1" or rebar 4-10
3-TB	#6, #4, #2	1¼", 1½" or 2"
4	#6, #4, #2	2½", 3" or 3½"
5-TB	#6, #4, #2	4", 4½" or 5"
6	#6, #4, #2	6"

Malleable iron. #6 – #2 AWG ground wire.

Blackburn® Grounding

Waterpipe Ground Clamps



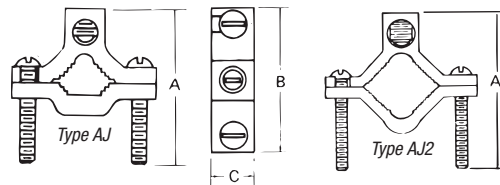
CAT. NO.	GROUND WIRE SIZE	WATER PIPE SIZE	CAT. NO.	GROUND WIRE SIZE	WATER PIPE SIZE
3902	#4-4/0 AWG	½"-1"	3902BU*	#4-4/0 AWG	½" to 1"
3903	#4-4/0 AWG	1¼"-2"	3903BU*	#4-4/0 AWG	1¼" to 2"
3904	#4-4/0 AWG	2½"-3½"	3904BU*	#4-4/0 AWG	2½" to 3½"
3905-TB	#4-4/0 AWG	4"-5"	3905BU*	#4-4/0 AWG	4" to 5"
3906-TB	#4-4/0 AWG	6"	3906BU*	#4-4/0 AWG	6"
3907	#4-4/0 AWG	8"	3907BU*	#4-4/0 AWG	8"
3908	#4-4/0 AWG	10"	3908BU*	#4-4/0 AWG	10"
3909-TB	#4-4/0 AWG	12"	3909BU*	#4-4/0 AWG	12"

*UL Listed for Direct Burial

For connecting grounding conductor to either steel or copper pipe, rod or tubing.

Aluminum Water Pipe Clamp

- For use with copper or aluminum conductor
- Tin plated for corrosion resistance



CAT. NO.	WATER PIPE SIZE	CONDUCTOR RANGE		DIMENSIONS (IN.)			STEEL CLAMP SCREW	ALUMINUM WIRE SCREW
		MAX.	MIN.	A	B	C		
AJ	½-1	1/0 Str.	#14 Sol.	2½	2¼	¾	¼-20	¾-20 slot
AJ-2	1½-2	250 kcmil	#6	3¾	3¾	¾	¾-18	1½-20 socket
AJ-2124	2½-4	250 kcmil	#6	5¾	6¾	¾	¾-16	1½-20 socket

UL listed for both copper and aluminum conductors to steel pipe and copper water tubing

Blackburn®

Ground Clamps

Economically priced clamps.

Die-Cast Clamps

Blackburn® Grounding



- Made of die-cast zinc alloy with zinc-plated screws
- Model BJA for use with armored cable



CAT. NO.	WATER PIPE SIZE	CONDUCTOR RANGE	
		MAX.	MIN.
BJ-1	½"-1"	#2 Str.	#10 Sol.
BJA*	½"-1"	#6 AWG	#8 AWG

* Not UL Listed

Flexible copper strap makes alignment easy.

- For grounding rigid conduit systems
- Same features as "JP" clamp plus flexible copper strap
- Strap helps protect conduit system from water system vibrations
- Furnished with zinc-plated screws

Cast Bronze Clamps with Copper Strap

CAT. NO.	CONDUIT SIZE	WATER PIPE SIZE	CONDUCTOR RANGE	
			MAX.	MIN.
JPS-12	½"	½"-1"	6 sol.	10 sol.
JPS-34	¾"	½"-1"	2/0 str.	10 sol.
JPS-1	1"	½"-1"	3/0 str.	10 sol.

Add suffix C to Cat. No. to specify plating.



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Connects copper ground wire to water pipe, copper tubing or ground rods.

- High strength, high conductivity copper alloy (over 80% copper)
- UL467 Listed for direct burial

Cast Bronze Ground Clamps



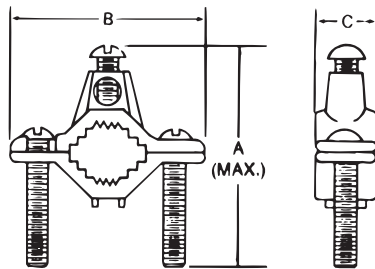
CAT. NO.	WATER PIPE SIZE	CONDUCTOR RANGE
JD	½"-1"	#2 str.-#10 str.
J2D	1¼"-2"	#2 str.-#10 str.



Blackburn® Grounding

For connecting grounding conductor to water pipe or copper tube.

- Cast of high-strength, highly conductive copper alloy
- Screws plated for corrosion resistance
- UL Listed



Type J — Cast Bronze Ground Clamps

CAT. NO.	WATER PIPE SIZE	CONDUCTOR RANGE		DIMENSIONS (IN.)		
		MAX.	MIN.	A (MAX.)	B	C
J	½ to 1	2 str.	10 sol.	2¾	2½	¾
J2BB	1¼ to 2	2 str.	10 sol.	3¾	3	1¼
J2124	2½ to 4	4 str.	10 sol.	6	6¾	1
J6	4¾ to 6	4 str.	10 sol.	7¾	8	1

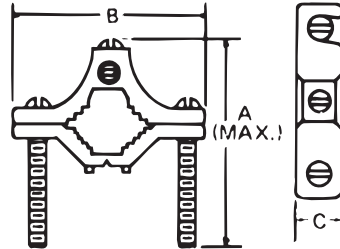
Blackburn®

Ground Clamps

Similar to aluminum water pipe clamp but lighter in construction.

Budget Price Cast Bronze Clamp

Blackburn® Grounding



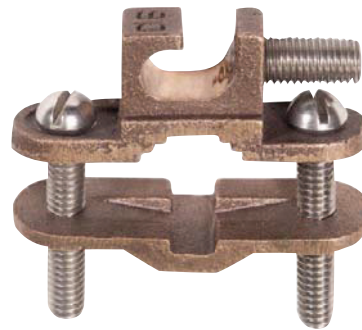
CAT. NO.	WATER PIPE SIZE	CONDUCTOR RANGE		DIMENSIONS (IN.)		
		MAX.	MIN.	A	B	C
JJR	½ to 1	#4 Str.	#10 Sol.	2½	¾	1½

Add suffix C to Cat. No. to specify plating.

Lay-in feature reduces installation time for difficult bends or continuous loops of ground wire.

Type JDLI — Direct-Burial Ground Clamp

- UL Listed for direct burial in earth/concrete
- UL Listed for connection to ground rod, pipe or rebar up to 1"
- Constructed from bronze alloy and high performance stainless steel bolts
- Designed for easy installation of difficult bends or continuous loops



CAT. NO.	PIPE SIZE	REBAR SIZE	GROUND ROD SIZE	CONDUCTOR RANGE	MECH. CONN./ SPLICE (UL LISTED)
JDLI	½"-1"	¾"-1"	¼"-1"	#10 Sol.-#2 Str.	(2) #8 Sol.

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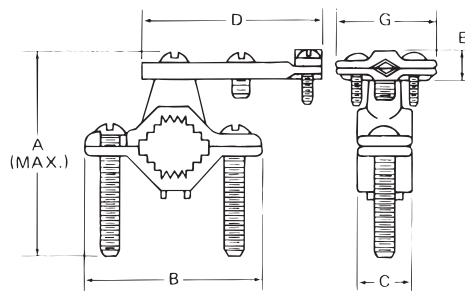
For connecting armored cable to water pipe.



Cast Bronze Clamps

CAT. NO.	WATER PIPE SIZE	CONDUCTOR RANGE		DIMENSIONS (IN.)					
		MAX.	MIN.	A	B	C	D	E	G
JA	½ to 1	#6 sol.	#10 sol.	2½	2½ ³²	2 ⁵ / ₃₂	2 ⁷ / ₃₂	1 ¹⁵ / ₃₂	1 ¹ / ₈
JA-2	1¼ to 2	#6 sol.	#10 sol.	3¾	3½	1 ¹ / ₁₆	2 ⁷ / ₃₂	1 ¹⁵ / ₃₂	1 ¹ / ₈
JA-2124	2½ to 4	#6 sol.	#10 sol.	6	6 ⁵ / ₁₆	1	2 ⁷ / ₃₂	1 ¹⁵ / ₃₂	1 ¹ / ₈

Add suffix C to Cat. No. to specify plating.



- Clamping portion similar to standard “J” clamp
- Special pressure bar grips armor or outer cable insulation to reduce chance of grounding conductor being pulled out
- Furnished with zinc-plated screws

For grounding rigid conduit systems.

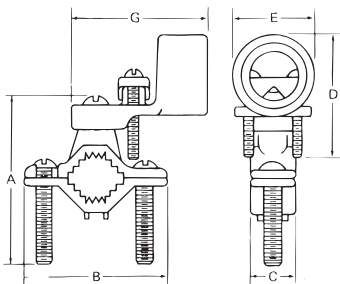


- Continuity from rigid conduit system to ground provided by cast bronze threaded conduit hub
- Hub swings 360° for easy alignment
- Heavy brass washer protects clamped grounding conductor
- Furnished with zinc-plated screws
- Cast bronze pipe clamping portion identical to that used in “JA” clamp

Cast Bronze Clamps for Conduit

CAT. NO.	CONDUIT SIZE	WATER PIPE SIZE	CONDUCTOR RANGE		DIMENSIONS (IN.)					
			MAX.	MIN.	A	B	C	D	E	G
JP-12	½	½ to 1	#6 sol.	#10 sol.	2¾	2½ ³²	2 ³ / ₃₂	1 ¹ / ₄	1	2½
JP-212	½	1¼ to 2	#6 sol.	#10 sol.	3¾	3½	1 ¹ / ₁₆	1 ¹ / ₄	1	2½
JP-212412	½	2½ to 4	#6 sol.	#10 sol.	6	6 ⁵ / ₁₆	1	1 ¹ / ₄	1	2½
JP-34	¾	½ to 1	#2/0 str.	#10 sol.	2¾	2½ ³²	2 ³ / ₃₂	2 ¹ / ₁₆	1¼	2 ³ / ₁₆
JP-234	¾	1¼ to 2	#2/0 str.	#10 sol.	3¾	3½	1 ¹ / ₁₆	2 ⁷ / ₁₆	1¼	2 ³ / ₁₆
JP-212434	¾	2½ to 4	#2/0 str.	#10 sol.	6	6 ⁵ / ₁₆	1	2 ⁷ / ₁₆	1¼	2 ³ / ₁₆
JP-1	1	½ to 1	#3/0 str.	#10 sol.	2¾	2½ ³²	2 ³ / ₃₂	2 ⁷ / ₁₆	1½	2¾
JP-21	1	1¼ to 2	#3/0 str.	#10 sol.	3¾	3½	1 ¹ / ₁₆	2 ⁷ / ₁₆	1½	2¾
JP-21241	1	2½ to 4	#3/0 str.	#10 sol.	6	6 ⁵ / ₁₆	1	2 ⁷ / ₁₆	1½	2¾

Add suffix C to Cat. No. to specify plating.



Blackburn®

Ground Clamps

Hub swings 360° for ease of alignment.

Blackburn® Grounding



- Pipe clamping portion identical to “JA” clamp
- Pressure-bar type conduit hub adjusts to fit ½" or ¾" EMT or ½" rigid conduit
- Brass washer provides positive contact with grounding conductor
- Furnished with zinc-plated screws

Type JPT — Cast Bronze Clamps for Conduit

CAT. NO.	CONDUIT SIZE	WATER PIPE SIZE	CONDUCTOR RANGE	
			MAX.	MIN.
JPT		½" to 1"		
JPT2	½" or ¾" EMT ½" Rigid	1¼" to 2"	6 Sol.	10 Sol.
JPT4		2½" to 4"		



Conduit Hubs

CAT. NO.	GROUND WIRE SIZE AWG	CONDUIT SIZE
3930	#8 to #2	½" Conduit
3940	#8 to #2	¾" Conduit
3950	#8 to #3/0	1" Conduit
3951	#8 to #4/0	1¼" Conduit

Material: Malleable iron

Provides positive connection between rigid conduit and water system.



- Used in conjunction with “J” clamp
- Rugged cast-bronze threaded hub

Type CH — Bronze Conduit Hubs

CAT. NO.	CONDUIT SIZE (IN.)	CONDUCTOR RANGE	
		MAX.	MIN.
CH12	½	6 Sol.	10 Sol.
CH34	¾	2/0 Str.	10 Sol.
CH1BB	1	3/0 Str.	10 Sol.

Thomas & Betts

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Ground Clamp



CAT. NO.	MATERIAL	WATER PIPE, COPPER TUBING SIZE	GRD. ROD SIZE
3826†	M.I.	½", ¾"	½"-1"
3846†	Bronze	½", ¾"	½"-1"
3849•	Brass	½"-1" O.D.	
3840-TB*	M.I.	½", ¾" or 1"	

†For unarmored copper wire #6, #4.

• For copper and aluminum conductors; for 14 thru 2 cu. unarmored copper wire — corrosive and outdoor use. UL approved for direct burial.

* #8 thru #4 AWG. Not CSA Certified



3849



3826

Ground Clamps for K&L Grade Copper Tubing Only

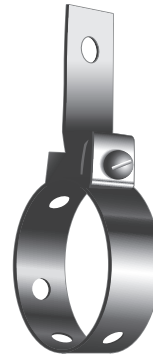


CAT. NO.	GROUND WIRE RANGE	WATER PIPE & GROUND ROD SIZE/DESC.
3844*	#8-#4	½"-1"
3888†	#8-#4	½"-1" also rebar 4-10
961	#8	¾" - 1"
962**	#8	¾" - 2"
963**	#8	¾" - 3"

CAT. NO.	DESCRIPTION/CABLE SIZE
31215	Strain Relief Grounding Lug, #6 - 2
31216	Grounding Clamp, 1" Hook-Type, #6 - 2
31253	Grounding Clamp, 1-½" Hook-Type, #6 - 2
31217	Ground Clamp, 1" Straight-Type, #6 - 2
31224	Grounding Clamp, 1-½" Straight-Type, #6 - 2
31230	Wing Screw only

* With Steel Screws ** With Bronze Screws, Not CSA Certified — or UL Listed

†UL approved for direct burial. Silicon Bronze Screws.



961

For radio, motor frame and equipment grounding

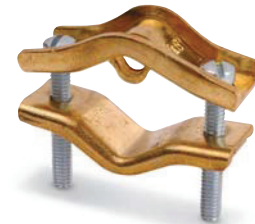


3840-TB



31215

Disconnect static ground clamp and lug, straight-type (cable not supplied), UL not applicable



3844

For armored and unarmored wire

Cable Tray Ground Clamp



Material: Malleable iron

Standard Finish: Zinc plated



CAT. NO.	DESCRIPTION
10105*	For Single Conductors #4 sol. to 2/0 str.
10109**	For Single Conductors 2/0 sol. to 4/0 str.

* UL Listed #4 to 2/0 AWG copper

** UL Listed 2/0 to 4/0 AWG copper/aluminum

CSA File No. 2884

Blackburn®

Ground Clamps

For aluminum and steel cable trays with regular or reinforced flanges.

- Serrations and biting teeth on clamping saddle provide a high-quality bond between conduit and clamp
- Can be clamped to any position in a 90° arc
- Hardened steel screws bite into tray and provide positive bond
- Malleable iron hub and steel U-bolt accept conduit from any angle

Swivel Tray Clamp



CAT. NO.	CONDUIT SIZE
6209	½"–¾"
6210	½" – ¾"
6211	1"–1¼"
6212	1" – 1¼"
6214	1½"–2"
6216	2½"–3"
6218	3½"–4"



Efficiently grounds trailer frames, cable trays, CATV and telephone pedestals.

Beam Grounding Clamp

- Connects #6 to #14 solid copper conductor to metal frames where continuity of grounding can be assured
- 7/16" silicon bronze hex-head bolt installs with cam-wrench, socket or crescent wrench
- Tin-plated square-head bolt enables installation with pliers when tighter ground connection is needed
- Ground wire hole access from four directions minimizes need to bend ground wire
- Designed so ground wire may be installed on clamp prior to mounting clamp on metal frame, reducing installation time
- Beam and ground wire connection can be tightened separately with disconnecting integrity of ground circuit



- High-strength copper alloy (91% nom.) provides greater conductivity, durability and corrosion resistance without the need for plating
- High-strength anchoring bolt penetrates paint or metal oxide



CAT. NO.	DESCRIPTION	CONDUCTOR SIZE (AWG)
TGC	Square-Head Tin-Plated Steel Bolt	#6 to #14 sol.

Listed to UL467

Blackburn® Grounding

Thomas & Betts

www.tnb.com

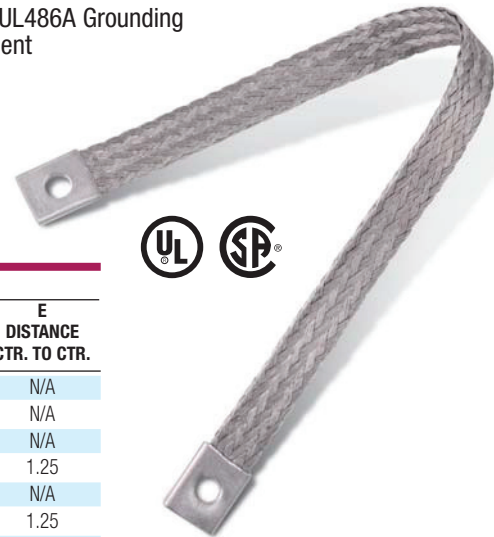
United States
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

Technical Services
Tel: 888.862.3289



Flexible copper braids for use in substation and grounding applications.

- Tin-plated copper braids and ferrules for high conductivity and corrosion resistance
- Enables linear expansion, equipment vibration and offset connections
- Certified C22.2 No. 41 Grounding & Bonding Equipment
- Listed UL467 and UL486A Grounding & Bonding Equipment



Blackburn® Grounding

Type FB — Flexible Braids

CAT. NO.†	CIRCULAR MILS	BOLT HOLE	NO. OF BRAIDS IN FERRULE	THICKNESS	DIMENSIONS		
					C WIDTH	D FERRULE LENGTH	E DISTANCE CTR. TO CTR.
FBB12-1*	24000	1/4	1	0.140	0.625	0.750	N/A
FBC12-1*	48000	1/8	1	0.148	1.000	1.300	N/A
FBD12-1*	76800	1/8	1	0.200	1.000	1.300	N/A
FBD12*	76800	1/8	1	0.200	1.000	2.500	1.25
FB2D12-1*	153600	1/8	2	0.250	1.250	1.500	N/A
FB2D12*	153600	1/8	2	0.250	1.250	2.500	1.25
FB3D12-1*	230400	1/8	3	0.350	1.250	1.500	N/A
FB3D12*	230400	1/8	3	0.350	1.250	2.500	1.25
FBXD12-1*	105600	1/8	1	0.250	1.250	1.500	N/A
FBXD12*	105600	1/8	1	0.250	1.250	2.500	1.25
FB2XD12-1*	211200	1/8	2	0.350	1.250	1.500	N/A
FB2XD12	211200	1/8	2	0.350	1.250	2.500	1.25
FB3XD12-1*	316800	1/8	3	0.400	1.250	1.500	N/A
FB3XD12*	316800	1/8	3	0.400	1.250	2.500	1.25
FBE12-1*	168000	1/8	1	0.500	1.250	2.500	N/A
FBE12*	168000	1/8	1	0.250	1.250	3.500	1.75
FB2E12-1*	336000	1/8	1	0.500	1.250	2.500	N/A
FB2E12*	336000	1/8	2	0.500	1.250	3.500	1.75
FB3E12	504000	1/8	3	0.750	1.250	3.500	1.75
FB4E12	672000	1/8	4	1.000	1.250	3.500	1.75
FBF12	230400	1/8	1	0.300	1.500	3.500	1.75
FB2F12	460800	1/8	2	0.450	1.500	3.500	1.75
FB3F12	691200	1/8	3	0.600	1.625	3.500	1.75
FB4F12	921600	1/8	4	0.750	1.625	3.500	1.75
FBG12	307200	1/8	1	0.380	1.500	3.500	1.75
FB2G12	614400	1/8	2	0.630	1.625	3.500	1.75
FB3G12	921600	1/8	3	0.850	1.625	3.500	1.75
FB4G12	1228800	1/8	4	1.000	1.880	3.500	1.75

† Catalog number shown in 12" lengths. Standard lengths offered in 6, 12, 18, 24, 30 and 36 inches (end to end).
Change the 12 in the above catalog numbers to the desired length. (-1) indicates 1 bolt hole per ferrule.

See amperage tables on next page as a reference for grounding and bonding, or continuous current applications.

FB4 series is not listed/certified.

For custom flexible braids, contact Customer Service.

Flexible Braid in a Roll — 10-Foot Minimum

CAT. NO.	CIRCULAR MILS.	THICKNESS (IN.)	WIDTH (IN.)
FBBRL	24000	0.140	0.625
FBCRL	48000	0.148	1.000
FBDRL	76800	0.200	1.000
FBXDRL	105600	0.250	1.250

Ferrules or lugs not included.



Minimum Size Flexible Braid for Continuous Current Applications

CAT. NO.	CIRCULAR MILS	AMPERAGE CAPACITY	CAT. NO.	CIRCULAR MILS	AMPERAGE CAPACITY
FBB12-1	24000	95	FBE12-1	16800	340
FBC12-1	48000	145	FBE12	16800	340
FBD12-1	76800	190	FB2E12-1	336000	530
FBD12	76800	190	FB2E12	336000	530
FB2D12-1	153600	330	FB3E12	504000	700
FB2D12	153600	630	FB4E12	672000	805
FB3D12-1	230400	470	FBF12	230400	360
FB312	230400	470	FB2F12	460800	600
FBXD12-1	105600	235	FB3F12	691200	820
FBXD12	105600	235	FB4F12	921600	1000
FB2XD12-1	211200	400	FBG12	307200	415
FB2XD12	211200	400	FB2G12	614400	700
FB3XD12-1	316800	600	FB3G12	921600	960
FB3XD12	316800	600	FB4G12	1228800	1200

Grounding and Bonding Applications

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 (6 AWG)
300	41 740 (4 AWG)
400	52 620 (3 AWG)
500	66 360 (2 AWG)
600	83 690 (1 AWG)
800	105 600 (1/0)
1 000	133 100 (2/0)
1 200	167 800 (3/0)
1 600	211 600 (4/0)
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
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.

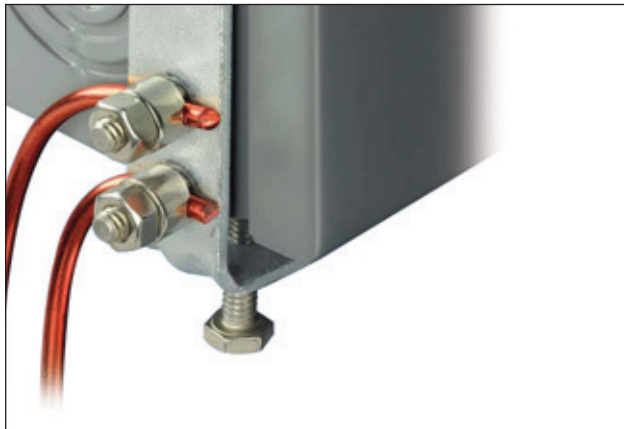
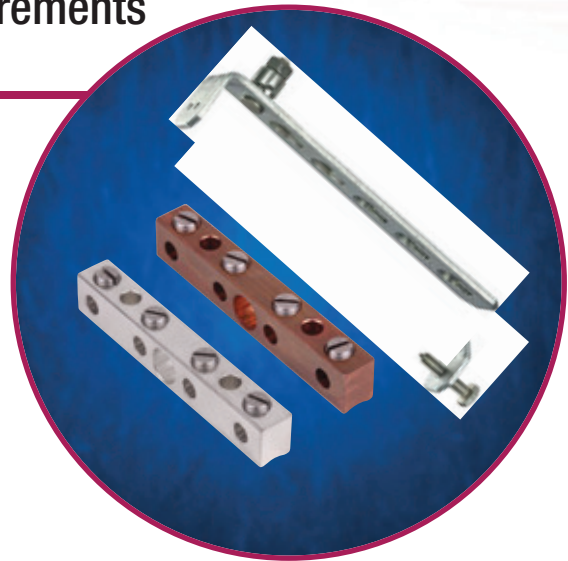
Size calculated in accordance with IEEE No. 80.

Meets 2008 NEC® Section 250.94 requirements for intersystem bonding termination!

Intersystem Bonding Termination Ground Clamps



- Convenient, reliable grounding for communications, satellite, CATV and utility services
- Accepts the full range of #14 to #6 AWG ground wire commonly used in the CATV and telephone industries
- Meets or exceeds industry requirements, Bellcore standards and 2008 NEC Section 250.94 requirements
- UL Listed to UL467, CSA Certified to C22.2 No. 41-07

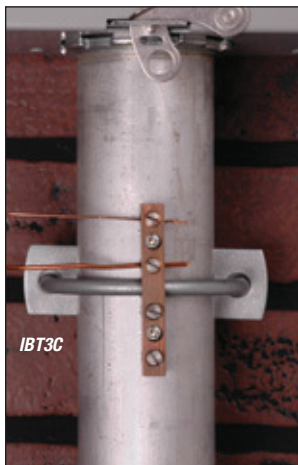


Meter Box Clamps

- Two-piece clamp mounts vertically on the side or horizontally across the top of a meter box – without interfering with cover removal
- Steel clamp brackets mechanically galvanized to ASTM B695 with stainless steel hardware for superior corrosion resistance
- Single, shallow, pointed bolt enables fast and easy installation and positive ground connection
- Dual steel points on slotted bracket penetrate painted surfaces, also ensuring a positive ground connection
- Available in two adjustable sizes to fit any meter box

Wall/Pipe Clamps

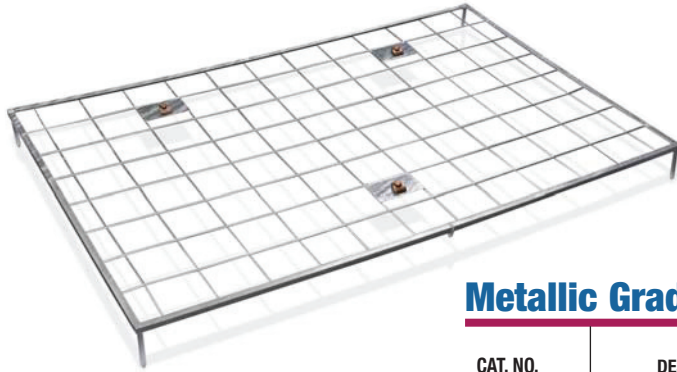
- Mounts easily on walls (wood, aluminum, brick, mortar or composite material), water pipes or conduit (metallic or plastic) for versatility
- Design enables form fit and alignment with wall or pipe for effective ground and neat, clean appearance to finished installation
- Available in two versions: tin-plated aluminum or bare copper, both with stainless steel screws



CAT. NO.	DESCRIPTION	GROUND WIRE RANGE (AWG)
Intersystem Bonding Termination Ground Clamps for Meter Boxes		
IBT1	Meter Box Clamp, 7" – 10¼" Adjustment Range	#14 – #6
IBT2	Meter Box Clamp, 11-½" – 15¼" Adjustment Range	#14 – #6
Intersystem Bonding Termination Ground Clamps for Wall or Pipe Mounting (includes U-bolt clamp for pipe mounting)		
IBT3A	Wall or Pipe Clamp, Aluminum	#14 – #6
IBT3C	Wall or Pipe Clamp, Copper	#14 – #6
Intersystem Bonding Termination Ground Bars for Wall Mounting		
IBT3AB	Bar only, Aluminum	#14 – #6
IBT3CB	Bar only, Copper	#14 – #6

Avoid ground potential differences.

Blackburn® Grounding



- Reduces risk and prevents build-up of dangerous potential differences between high-voltage equipment or structures and user standing on ground surface
- CEC Rule 36-308 compliant

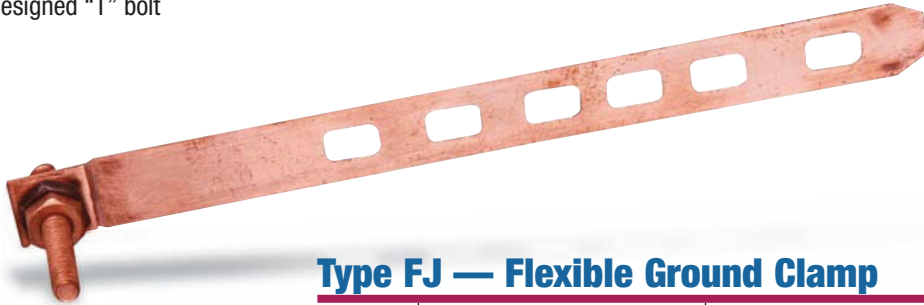
Metallic Gradient Control Mat

CAT. NO.	DESCRIPTION	WT/100		STD. PKG. QTY.
		LB	KG	
64663	Mat with connectors	3,000	1,363	1
64660	Mat without connectors	2,900	1,318	1

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

For connecting to steel pipe or copper water tube.

- Accommodates 3/8", 1/2", 3/4", 1" and 1 1/4" pipe sizes
- Accommodates 1/2", 3/4", 1 and 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	3/4	1 1/4	1/2



In This Section...

Blackburn® Exothermic Welding System

Overview	C90-C92
Earth Points	C93
Cable to Cable	C94-C102
Cable to Ground Rod	C103-C106
Cable to Re-Bar	C107-C109
Cable to Steel Surface & Pipe	C110-C120
Cable to Bar	C121-C124
Bar to Bar	C125-C128
Bar to Steel Surface	C129-C132
Handle Clamps, Tools, and Accessories	C133
Sure Shot® Welding Mold	C134-C135
Cross Reference	C136-C147
Sure Shot® Cross Reference	C148-C149
Additional Tables	C150-C154

Blackburn® Exothermic Welding System

Thomas & Betts

United States
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

Technical Services
Tel: 888.862.3289

www.tnb.com

Blackburn®

Overview

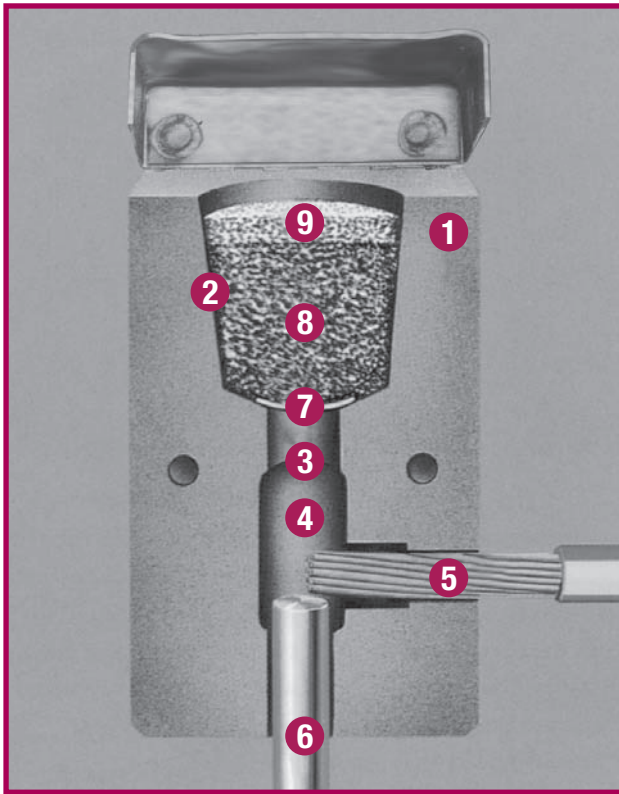
The Blackburn Process

The Blackburn Exothermic Welding process is a simple, self-contained method of forming high quality electrical connections. The compact process requires no external power or heat source, making it completely portable.

Connections are made inside a semi-permanent graphite mold using the high temperature reaction of powdered copper oxide and aluminum.



Exothermic Welding Equipment is used by some of the world's most demanding customers. T&B is the only manufacturer that can offer exothermic welding, as well as compression and bolted connectors for grounding applications.



This is how it works

The Mold (1) features a Crucible (2), a Tap Hole (3) and a Weld Cavity (4). The Conductors (5) and (6) to be joined, are located in the Weld Cavity as shown, and the Mold is closed. A steel Retaining Disc (7) is located in the bottom of the crucible, to retain the Weld Powder (8) and Starting Powder (9) which are poured in on top.

Ignited with a spark gun, the starting powder sets off an exothermic reaction in the weld powder, reducing it to molten copper alloy. This instantaneously melts the retaining disc, and flows down the tap hole, to the weld cavity, where it partially melts the conductors, before cooling to leave a fusion weld of great mechanical and electrical integrity.

How to use this catalog

Refer to the pictorial index at the beginning of each catalog section to determine the type of connection that you wish to make. Turn to the relevant page, and study the table. There is an illustration for each connection type, and each table provides the following information:

- **The Weld Powder size required:** Unless otherwise stated, one weld powder is required for each connection made.
- **The Mold required:** The mold part number to the left shows precisely what the mold can do, and indicates its cost.
- **The Handle Clamp required:** Handle clamps relate directly to mold price keys. For example, handle clamp HCPK4 is for use with price key 4 molds.
- **Mold Price Key:** This relates to the size of graphite block used to manufacture the mold, and determines its price. The simplest and smallest molds have the lowest price key numbers.
- **Sleeves required:** Stranded conductors of #6 AWG or less require sleeves, which prevent burning of the strands, and improve the mechanical strength of the connection.
- **Packing:** Molds for connecting stranded conductors to reinforcing bar (CRE type) require sealing with packing.
- **Mold Sealing Compound:** Required when making connections to steel surfaces and pipes. Requirement is indicated by a statement at the foot of the table.

Mold Part Number

EXAMPLE: **CC2 - 4 - 250K4/0**

CC2 – A 'Tee' connection for stranded/solid circular conductor

4 – Price Key 4

250K4/0 – For a 250K strand run with a 4/0 strand tap

Thomas & Betts

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Technical Services
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Overview

The Blackburn Connection

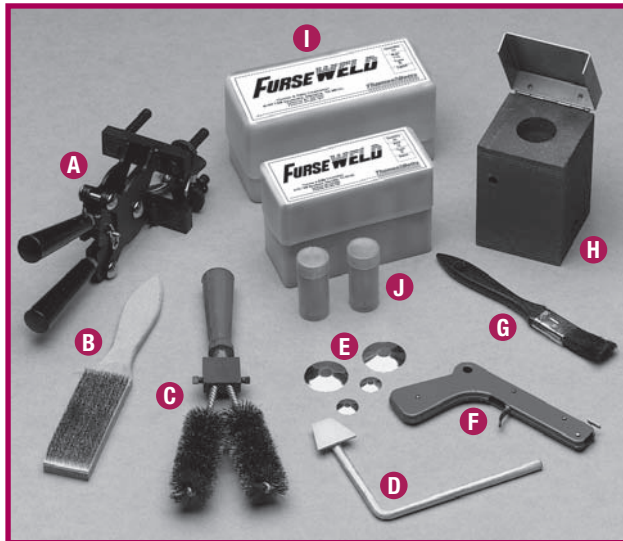
The majority of Blackburn connections have at least twice the cross sectional area of the conductors being joined, and an equivalent or greater current carrying capacity.

Because the connection is a fusion of high conductivity, high copper content alloy, it will withstand repeated fault currents, and will not loosen in the way that mechanical connectors can.

Corrosion resistance is exceptional, too, due to the alloy's very high copper content (in excess of 90%).



Blackburn® Exothermic Welding System



- | | |
|--------------------------|-----------------------|
| A Handle Clamp | F Flint Gun |
| B File Card Brush | G Mold Brush |
| C Cable Brush | H Mold |
| D Mold Scraper | I Powder Boxes |
| E Retaining Discs | J Cartridges |

Standards Compliance

A representative range of Blackburn connections has been successfully tested in accordance with the requirements of IEEE 837-1989 — Standard for Qualifying Permanent Connections Used in Substation Grounding.

Testing in accordance with UL and CSA. Contact T&B Technical Services at 888-862-3289 for listings and certificates.

Blackburn Equipment and Accessories

Weld Powders

Blackburn weld powders are contained in plastic cartridges, and are packed in plastic boxes of 10 or 20, depending on their size. Different joints require different powder sizes, and the size relates to the powder's nominal weight in grams.

The weld powder packaging also contains retaining discs and starting powder. The retaining discs are contained in a separate bag within the box. The starting powder is compacted into the bottom of the cartridge, underneath the weld powder, and is released by tapping the cartridge base firmly.

Blackburn weld powders are suitable for making connections from copper to copper and from copper to steel.

Molds

Blackburn graphite molds are dedicated to producing one type of connection. With care, they should be capable of producing up to 75 connections each. Mold size and complexity varies, and is denoted by a price key, from one upwards.

Each mold carries a tag which gives the mold part number, the weld powder size for use with the mold and the conductor sizes for which it is intended.

Handle Clamps

Handle clamps provide a means of both handling the mold, and also of clamping the mold halves together (or of clamping the mold to the surface to which a connection is to be made).

Standard Tools

A flint gun is required to start the reaction.

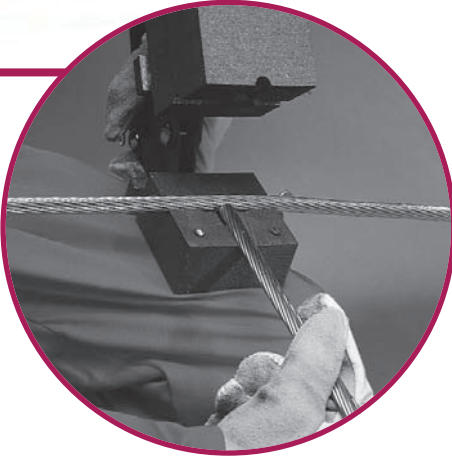
Cleaning tools for conductors, surfaces and molds include:

- Cable Brush** — for cleaning cables and other circular conductors such as rods.
- Mold Scraper** — for removing slag from the mold crucible, after firing.
- Mold Brush** — for final mold cleaning.
- File Card Brush** — for cleaning conductors and surfaces.

How to Make a Blackburn Connection

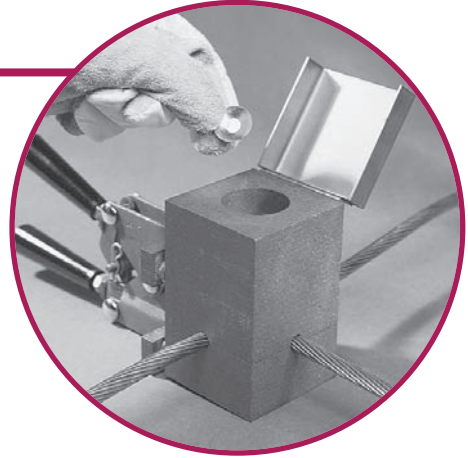
1

Position the clean conductors in the mold after making sure the mold is dry, by pre-heating or making a test joint.



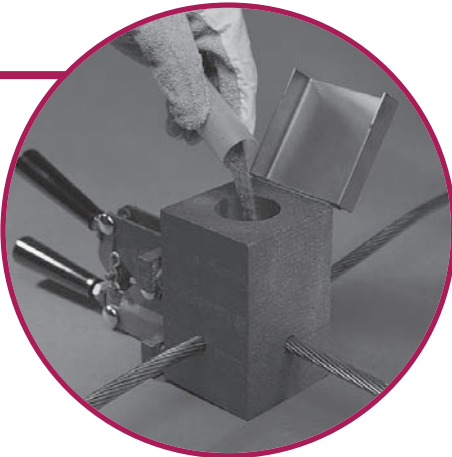
2

Place the metal retaining disc in the bottom of the mold crucible.



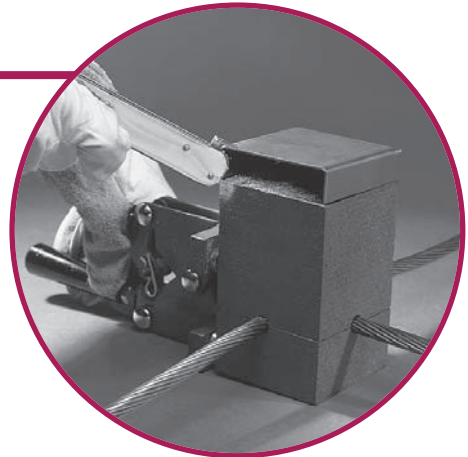
3

Pour the powder into the crucible, spreading some starting powder onto the mold edge.



4

Close the lid, and ignite with the flint gun from the side, firing the spark onto the starting powder.



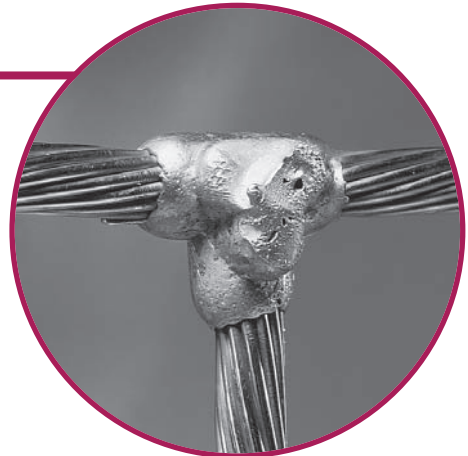
5

The reaction takes place safely inside the mold.



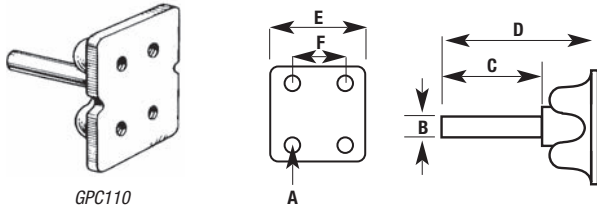
6

Once the joint is finished, the mold should be cleaned using a mold scraper and brush ready for the next joint.



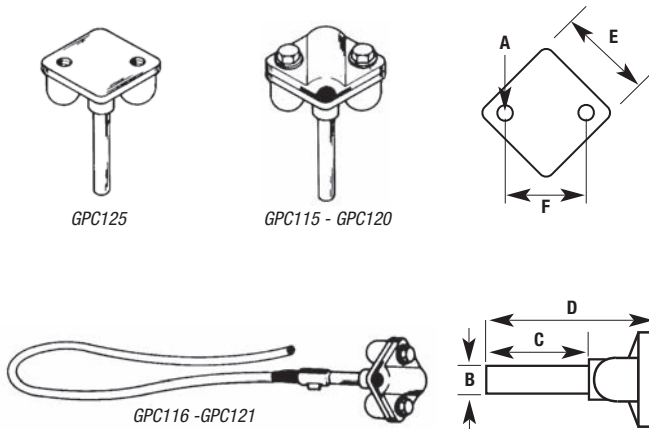


Four-Hole Earth Points



CAT. NO.	A HOLE SIZE	B IN. DIA	C IN.	D IN.	E IN.	F IN.
GPC110	4 x 3/16 UNC x 3/16"	27/64"	2"	3"	2 1/2"	1 1/2"
GPC111	As GPC110 with a pre-welded 20" long tail of 2/0 AWG PVC-insulated cable.					

Two-Hole Earth Points



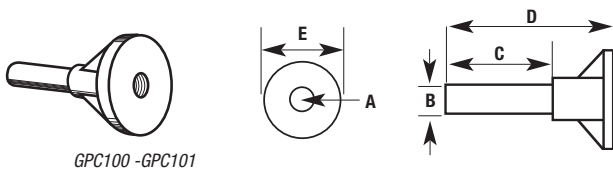
Complete with front plate

CAT. NO.	CONDUCTOR TYPE	B IN. DIA	C IN.	D IN.	E IN.	F IN.
GPC115	1" x 1/8" Tape or 2/0 AWG Cable	27/64"	2"	3 3/8"	2 3/16"	1 3/4"
GPC116	As GPC115 with a pre-welded 20" long tail of 2/0 AWG PVC-insulated cable.					
GPC120	1" x 1/8" Tape or 3/16" dia Solid	27/64"	2"	3 3/8"	2 3/16"	1 3/4"
GPC121	As GPC120 with a pre-welded 20" long tail of 2/0 AWG PVC-insulated cable.					

Without front plate

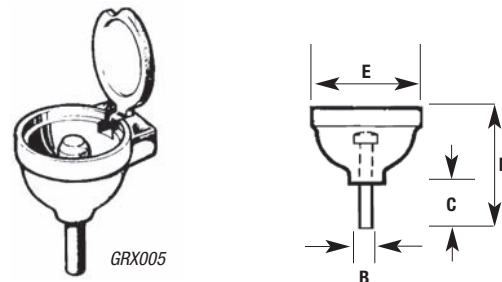
CAT. NO.	A HOLE SIZE	B IN. DIA	C IN.	D IN.	E IN.	F IN.
GPC125	2 x 3/16 UNC x 1/2"	23/64"	2"	3 3/8"	2 3/16"	1 3/4"
GPC126	As GPC125 with a pre-welded 20" long tail of 2/0 AWG PVC-insulated cable.					

One-Hole Earth Points



CAT. NO.	A HOLE SIZE	B IN. DIA	C IN.	D IN.	E IN.
GPC100	1 x 3/16 UNC x 3/16"	27/64"	2 3/8"	3 3/8"	1 3/8"
GPC101	1 x 3/16 UNC x 3/16"	27/64"	2 3/8"	3 3/8"	1 3/8"
GPC105	As GPC100 with a pre-welded 20" long tail of 2/0 AWG PVC-insulated cable.				
GPC106	As GPC101 with a pre-welded 20" long tail of 2/0 AWG PVC-insulated cable.				

Static Earth Receptacle

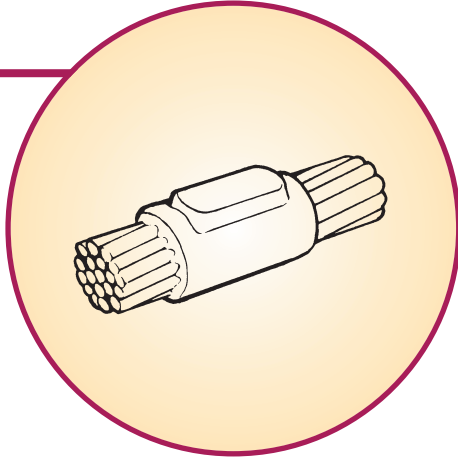


CAT. NO.	B IN. DIA	C IN.	D IN.	E IN.
GRX005	27/64"	1 1/2"	3 3/8"	2 11/16"

Below represents our standard range. Other types can be produced to order.

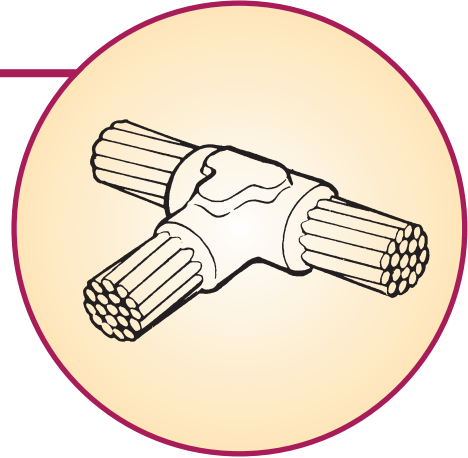
CC1

See Page C-95



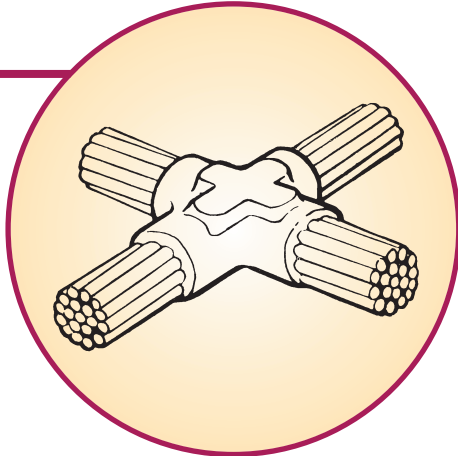
CC2

See Pages C-96-C-97



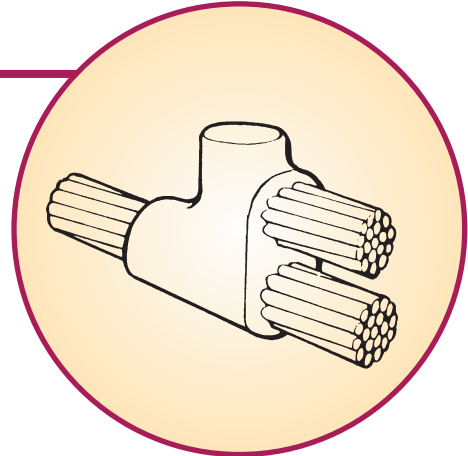
CC4

See Page C-98



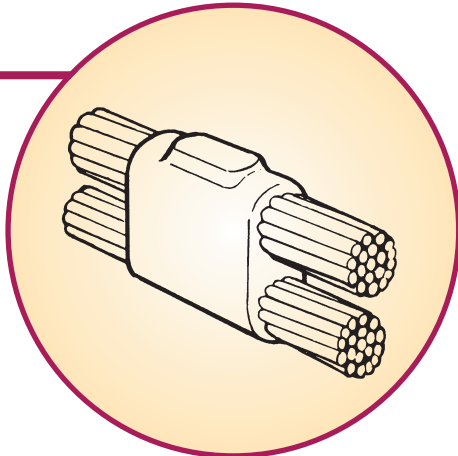
CC6

See Page C-99



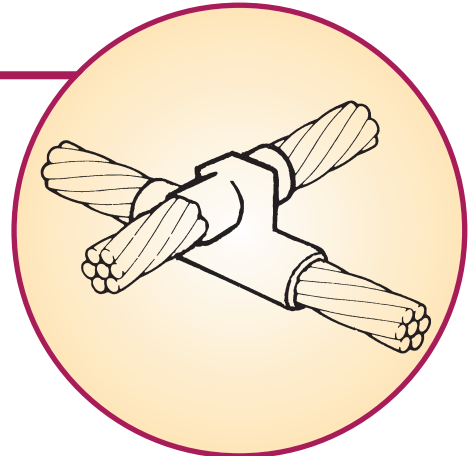
CC7

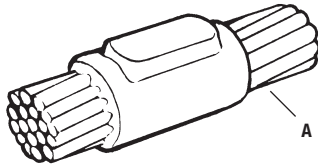
See Pages C-100-C-101



CC11

See Page C-102





- Stranded Conductor
- Solid Circular Conductor

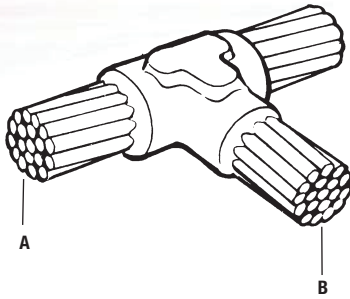
CC1

CAT. NO.	WIRE SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CC1-3-#3	3	32BKB	HCPK3	—	1
CC1-3-#2	2	32BKB	HCPK3	—	1
CC1-3-#2S	2 solid	32BKB	HCPK3	—	1
CC1-3-#1	1	32BKB	HCPK3	—	1
CC1-3-#1S	1 solid	32BKB	HCPK3	—	1
CC1-4-1/0	1/0	45BKB	HCPK4	—	1
CC1-4-1/0S	1/0 solid	45BKB	HCPK4	—	1
CC1-4-2/0	2/0	65BKB	HCPK4	—	1
CC1-4-3/0	3/0	90BKB	HCPK4	—	1
CC1-4-4/0	4/0	90BKB	HCPK4	—	1
CC1-4-4/0S	4/0 solid	90BKB	HCPK4	—	1
CC1-4-250K	250	115BKB	HCPK4	—	1
CC1-4-300K	300	115BKB	HCPK4	—	1
CC1-4-350K	350	150BKB	HCPK4	—	1
CC1-4-500K	500	200BKB	HCPK4	—	1
CC1-5-750K	750	2 X 150BKB	HCPK5	—	1
CC1-5-1000K	1000	2 X 200BKB	HCPK5	—	1

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CC2

CAT. NO.	WIRE SIZE (A)	WIRE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CC2-4-#4#4	4	4	32BKB	HCPK4	—	1
CC2-4-#2S#2	2 solid	2	45BKB	HCPK4	—	1
CC2-4-#2S#2S		2 solid	45BKB	HCPK4	—	1
CC2-4-#2S#4		4	45BKB	HCPK4	—	1
CC2-4-#2#2	2	2	45BKB	HCPK4	—	1
CC2-4-#2#2S		2 solid	45BKB	HCPK4	—	1
CC2-4-#2#4		4	45BKB	HCPK4	—	1
CC2-4-#1#1	1	1	45BKB	HCPK4	—	1
CC2-4-#1#2		2	45BKB	HCPK4	—	1
CC2-4-#1#2S		2 solid	45BKB	HCPK4	—	1
CC2-4-#1#4		4	45BKB	HCPK4	—	1
CC2-4-1/0#1/0	1/0	1/0	90BKB	HCPK4	—	1
CC2-4-1/0#1		1	45BKB	HCPK4	—	1
CC2-4-1/0#2		2	45BKB	HCPK4	—	1
CC2-4-1/0#2S		2 solid	45BKB	HCPK4	—	1
CC2-4-1/0#4		4	45BKB	HCPK4	—	1
CC2-4-2/0#2/0	2/0	2/0	90BKB	HCPK4	—	1
CC2-4-2/0#1/0		1/0	90BKB	HCPK4	—	1
CC2-4-2/0#1		1	45BKB	HCPK4	—	1
CC2-4-2/0#2		2	45BKB	HCPK4	—	1
CC2-4-2/0#2S		2 solid	45BKB	HCPK4	—	1
CC2-4-2/0#4		4	45BKB	HCPK4	—	1
CC2-4-3/0#3/0	3/0	3/0	115BKB	HCPK4	—	1
CC2-4-3/0#2/0		2/0	90BKB	HCPK4	—	1
CC2-4-3/0#1/0		1/0	90BKB	HCPK4	—	1
CC2-4-3/0#1		1	45BKB	HCPK4	—	1
CC2-4-3/0#2		2	45BKB	HCPK4	—	1
CC2-4-3/0#2S		2 solid	45BKB	HCPK4	—	1
CC2-4-3/0#4		4	45BKB	HCPK4	—	1
CC2-4-4/0#4/0	4/0	4/0	150BKB	HCPK4	—	1
CC2-4-4/0#3/0		3/0	115BKB	HCPK4	—	1
CC2-4-4/0#2/0		2/0	90BKB	HCPK4	—	1
CC2-4-4/0#1/0		1/0	90BKB	HCPK4	—	1
CC2-4-4/0#1		1	90BKB	HCPK4	—	1
CC2-4-4/0#2		2	90BKB	HCPK4	—	1
CC2-4-4/0#2S		2 solid	90BKB	HCPK4	—	1
CC2-4-4/0#4		4	90BKB	HCPK4	—	1
CC2-4-250K250K	250	250	150BKB	HCPK4	—	1
CC2-4-250K4/0		4/0	150BKB	HCPK4	—	1
CC2-4-250K4/0		3/0	150BKB	HCPK4	—	1
CC2-4-250K2/0		2/0	90BKB	HCPK4	—	1
CC2-4-250K1/0		1/0	90BKB	HCPK4	—	1
CC2-4-250K#1		1	90BKB	HCPK4	—	1
CC2-4-250K#2		2	90BKB	HCPK4	—	1
CC2-4-250K#2S		2 solid	90BKB	HCPK4	—	1
CC2-4-250K#4		4	90BKB	HCPK4	—	1

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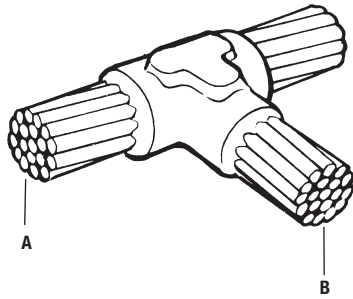
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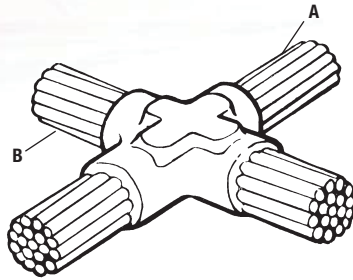
CC2 – Continued

CAT. NO	WIRE SIZE (A)	WIRE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CC2-4-300K300K	300	300	200BKB	HCPK4	—	1
CC2-4-300K250K		250	150BKB	HCPK4	—	1
CC2-4-300K4/0		4/0	150BKB	HCPK4	—	1
CC2-4-300K3/0		3/0	150BKB	HCPK4	—	1
CC2-4-300K2/0		2/0	90BKB	HCPK4	—	1
CC2-4-300K1/0		1/0	90BKB	HCPK4	—	1
CC2-4-300K#1		1	90BKB	HCPK4	—	1
CC2-4-300K#2		2	90BKB	HCPK4	—	1
CC2-4-300K#2S		2 solid	90BKB	HCPK4	—	1
CC2-4-300K#4		4	90BKB	HCPK4	—	1
CC2-4-350K350K	350	350	200BKB	HCPK4	—	1
CC2-4-350K300K		300	200BKB	HCPK4	—	1
CC2-4-350K250K		250	200BKB	HCPK4	—	1
CC2-4-350K4/0		4/0	150BKB	HCPK4	—	1
CC2-4-350K3/0		3/0	150BKB	HCPK4	—	1
CC2-4-350K2/0		2/0	90BKB	HCPK4	—	1
CC2-4-350K1/0		1/0	90BKB	HCPK4	—	1
CC2-4-350K#1		1	90BKB	HCPK4	—	1
CC2-4-350K#2		2	90BKB	HCPK4	—	1
CC2-4-350K#4		4	90BKB	HCPK4	—	1
CC2-4-500K500K	500	500	2 X 150BKB	HCPK4	—	1
CC2-4-500K350K		350	200BKB	HCPK4	—	1
CC2-4-500K300K		300	200BKB	HCPK4	—	1
CC2-4-500K250K		250	200BKB	HCPK4	—	1
CC2-4-500K4/0		4/0	150BKB	HCPK4	—	1
CC2-4-500K2/0		2/0	90BKB	HCPK4	—	1
CC2-4-500K1/0		1/0	90BKB	HCPK4	—	1
CC2-4-500K#1		1	90BKB	HCPK4	—	1
CC2-4-500K#2		2	90BKB	HCPK4	—	1
CC2-4-500K#4		4	90BKB	HCPK4	—	1
CC2-5-750K750K	750	750	2 X 250BKB	HCPK5	—	1
CC2-5-750K500K		500	2 X 200BKB	HCPK5	—	1
CC2-4-750K350K		350	250BKB	HCPK4	—	1
CC2-4-750K300K		300	200BKB	HCPK4	—	1
CC2-4-750K250K		250	200BKB	HCPK4	—	1
CC2-4-750K4/0		4/0	150BKB	HCPK4	—	1
CC2-4-750K2/0		2/0	150BKB	HCPK4	—	1
CC2-4-750K1/0		1/0	150BKB	HCPK4	—	1
CC2-5-1000K1000K	1000	1000	2 X 250BKB	HCPK5	—	1
CC2-5-1000K750K		750	2 X 250BKB	HCPK5	—	1
CC2-5-1000K500K		500	2 X 200BKB	HCPK5	—	1
CC2-4-1000K350K		350	250BKB	HCPK4	—	1
CC2-4-1000K300K		300	200BKB	HCPK4	—	1
CC2-4-1000K250K		250	200BKB	HCPK4	—	1
CC2-4-1000K4/0		4/0	150BKB	HCPK4	—	1
CC2-4-1000K2/0		2/0	150BKB	HCPK4	—	1
CC2-4-1000K1/0		1/0	150BKB	HCPK4	—	1

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CC4

CAT. NO.	WIRE SIZE (A)	WIRE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CC4-4-#4#4	4	4	45BKB	HCPK4	—	1
CC4-4-#2#2	2	2	65BKB	HCPK4	—	1
CC4-4-#2#4		4	65BKB	HCPK4	—	1
CC4-4-#2S#2S	2 solid	2 solid	65BKB	HCPK4	—	1
CC4-4-#1#1	1	1	65BKB	HCPK4	—	1
CC4-4-#1#2		2	65BKB	HCPK4	—	1
CC4-4-#1#4		4	65BKB	HCPK4	—	1
CC4-4-1/0#1/0	1/0	1/0	90BKB	HCPK4	—	1
CC4-4-1/0#1		1	90BKB	HCPK4	—	1
CC4-4-1/0#2		2	90BKB	HCPK4	—	1
CC4-4-1/0#4		4	90BKB	HCPK4	—	1
CC4-4-2/0#2/0	2/0	2/0	115BKB	HCPK4	—	1
CC4-42/0#1/0		1/0	115BKB	HCPK4	—	1
CC4-4-2/0#1		1	115BKB	HCPK4	—	1
CC4-4-2/0#2		2	115BKB	HCPK4	—	1
CC4-4-3/0#3/0	3/0	3/0	115BKB	HCPK4	—	1
CC4-4-3/0#2/0		2/0	150BKB	HCPK4	—	1
CC4-4-3/0#1/0		1/0	115BKB	HCPK4	—	1
CC4-4-3/0#1		1	115BKB	HCPK4	—	1
CC4-4-3/0#2		2	115BKB	HCPK4	—	1
CC4-4-4/0#4/0	4/0	4/0	200BKB	HCPK4	—	1
CC4-4-4/0#3/0		3/0	200BKB	HCPK4	—	1
CC4-4-4/0#2/0		2/0	150BKB	HCPK4	—	1
CC4-4-4/0#1/0		1/0	150BKB	HCPK4	—	1
CC4-4-4/0#1		1	115BKB	HCPK4	—	1
CC4-4-4/0#2		2	115BKB	HCPK4	—	1
CC4-4-250K250K	250	250	200BKB	HCPK4	—	1
CC4-4-250K4/0		4/0	200BKB	HCPK4	—	1
CC4-4-250K3/0		3/0	200BKB	HCPK4	—	1
CC4-4-250K2/0		2/0	150BKB	HCPK4	—	1
CC4-4-250K1/0		1/0	150BKB	HCPK4	—	1
CC4-4-250K#1		1	115BKB	HCPK4	—	1
CC4-4-250K#2		2	115BKB	HCPK4	—	1
CC4-4-300K300K	300	300	250BKB	HCPK4	—	1
CC4-4-300K250K		250	250BKB	HCPK4	—	1
CC4-4-300K4/0		4/0	200BKB	HCPK4	—	1
CC4-4-300K3/0		3/0	200BKB	HCPK4	—	1
CC4-4-300K2/0		2/0	150BKB	HCPK4	—	1
CC4-4-300K1/0		1/0	150BKB	HCPK4	—	1
CC4-4300K#1		1	115BKB	HCPK4	—	1
CC4-4-300K#2		2	115BKB	HCPK4	—	1
CC4-4-350K350K	350	350	250BKB	HCPK4	—	1
CC4-4-350K300K		300	250BKB	HCPK4	—	1
CC4-4-4350K250K		250	250BKB	HCPK4	—	1
CC4-4-350K4/0		4/0	200BKB	HCPK4	—	1
CC4-4-350K3/0		3/0	200BKB	HCPK4	—	1
CC4-350K2/0		2/0	200BKB	HCPK4	—	1
CC4-4-350K1/0		1/0	200BKB	HCPK4	—	1
CC4-4-350K#1		1	150BKB	HCPK4	—	1
CC4-4-350K#2		2	150BKB	HCPK4	—	1
CC4-5-500K500K	500	500	2 X 250BKB	HCPK5	—	1
CC4-5-500K350K		350	2 X 200BKB	HCPK5	—	1
CC4-5-500K300K		300	2 X 200BKB	HCPK5	—	1
CC4-5-500K250K		250	2 X 150BKB	HCPK5	—	1
CC4-5-500K4/0		4/0	2 X 150BKB	HCPK5	—	1
CC4-5-500K3/0		3/0	2 X 150BKB	HCPK5	—	1
CC4-4-500K2/0		2/0	250BKB	HCPK4	—	1
CC4-4-500K1/0		1/0	250BKB	HCPK4	—	14

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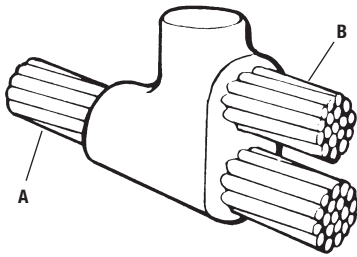
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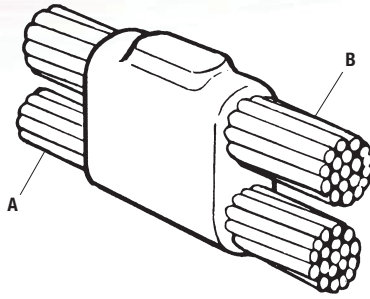
CC6

CAT. NO.	WIRE SIZE (A)	WIRE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CC6-4-#4#4	4	4	45BKB	HCPK4	—	1
CC6-4-#2#2	2	2	65BKB	HCPK4	—	1
CC6-4-#2#4		4	65BKB	HCPK4	—	1
CC6-4-#2S#2S	2 solid	2 solid	65BKB	HCPK4	—	
CC6-4-#1#1	1	1	65BKB	HCPK4	—	
CC6-4-#1#2		2	65BKB	HCPK4	—	1
CC6-4-#1#4		4	65BKB	HCPK4	—	1
CC6-4-1/01/0	1/0	1/0	90BKB	HCPK4	—	1
CC6-4-1/0#1		1	90BKB	HCPK4	—	1
CC6-4-1/0#2		2	90BKB	HCPK4	—	1
CC6-4-1/0#4		4	90BKB	HCPK4	—	1
CC6-4-2/02/0	2/0	2/0	115BKB	HCPK4	—	1
CC6-4-2/01/0		1/0	115BKB	HCPK4	—	1
CC6-4-2/0#1		1	115BKB	HCPK4	—	1
CC6-4-2/0#2		2	115BKB	HCPK4	—	1
CC6-4-3/03/0	3/0	3/0	115BKB	HCPK4	—	1
CC6-4-3/02/0		2/0	150BKB	HCPK4	—	1
CC6-4-3/01/0		1/0	115BKB	HCPK4	—	1
CC6-4-3/0#1		1	115BKB	HCPK4	—	1
CC6-4-3/0#2		2	115BKB	HCPK4	—	1
CC6-4-4/04/0	4/0	4/0	200BKB	HCPK4	—	1
CC6-4-4/03/0		3/0	200BKB	HCPK4	—	1
CC6-4-4/02/0		2/0	150BKB	HCPK4	—	1
CC6-4-4/01/0		1/0	150BKB	HCPK4	—	1
CC6-4-4/0#1		1	115BKB	HCPK4	—	1
CC6-4-4/0#2		2	115BKB	HCPK4	—	1
CC6-4-250K250K	250	250	200BKB	HCPK4	—	1
CC6-4-250K4/0		4/0	200BKB	HCPK4	—	1
CC6-4-250K3/0		3/0	200BKB	HCPK4	—	1
CC6-4-250K2/0		2/0	150BKB	HCPK4	—	1
CC6-4-250K1/0		1/0	150BKB	HCPK4	—	1
CC6-4-250K#1		1	115BKB	HCPK4	—	1
CC6-4-250K#2		2	115BKB	HCPK4	—	1
CC6-4-300K300K	300	300	250BKB	HCPK4	—	1
CC6-4-300K250K		250	250BKB	HCPK4	—	1
CC6-4-300K4/0		4/0	200BKB	HCPK4	—	1
CC6-4-300K3/0		3/0	200BKB	HCPK4	—	1
CC6-4-300K2/0		2/0	150BKB	HCPK4	—	1
CC6-4-300K1/0		1/0	150BKB	HCPK4	—	1
CC6-4300K#1		1	115BKB	HCPK4	—	1
CC6-4-300K#2		2	115BKB	HCPK4	—	1
CC6-4-350K350K	350	350	250BKB	HCPK4	—	1
CC6-4-350K300K		300	250BKB	HCPK4	—	1
CC6-4-4350K250K		250	250BKB	HCPK4	—	1
CC6-4-350K4/0		4/0	200BKB	HCPK4	—	1
CC6-4-350K3/0		3/0	200BKB	HCPK4	—	1
CC6-4-350K2/0		2/0	200BKB	HCPK4	—	1

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CC7

CAT. NO.	WIRE SIZE (A)	WIRE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CC7-4-#4#4	4	4	32BKB	HCPK4	—	1
CC7-4-#4#6		6	32BKB	HCPK4	2 X SLEEVE#6	1
CC7-4-#4#6S		6 solid	32BKB	HCPK4	2 X SLEEVE#6S	1
CC7-4-#4#8		8	32BKB	HCPK4	2 X SLEEVE#8	1
CC7-4-#2S#2	2 solid	2	65BKB	HCPK4	—	1
CC7-4-#2S#2S		2 solid	65BKB	HCPK4	—	1
CC7-4-#2S#4		4	65BKB	HCPK4	—	1
CC7-4-#2S#6		6	45BKB	HCPK4	2 X SLEEVE#6	1
CC7-4-#2S#6S		6 solid	45BKB	HCPK4	2 X SLEEVE#6S	1
CC7-4-#2S#8		8	45BKB	HCPK4	2 X SLEEVE#8	1
CC7-4-#2S#8S		8 solid	45BKB	HCPK4	2 X SLEEVE#8S	1
CC7-4-#2#2	2	2	65BKB	HCPK4	—	1
CC7-4-#2#4		4	65BKB	HCPK4	—	1
CC7-4-#2#6		6	45BKB	HCPK4	2 X SLEEVE#6	1
CC7-4-#2#6S		6 solid	45BKB	HCPK4	2 X SLEEVE#6S	1
CC7-4-#2#8		8	45BKB	HCPK4	2 X SLEEVE#8	1
CC7-4-#2#8S		8 solid	45BKB	HCPK4	2 X SLEEVE#8S	1
CC7-4-#1S#1	1 solid	1	65BKB	HCPK4	—	1
CC7-4-#1S#2		2	65BKB	HCPK4	—	1
CC7-4-#1S#2S		2 solid	65BKB	HCPK4	—	1
CC7-4-#1S#4		4	65BKB	HCPK4	—	1
CC7-4-#1S#6		6	65BKB	HCPK4	2 X SLEEVE#6	1
CC7-4-#1S#6S		6 solid	65BKB	HCPK4	2 X SLEEVE#6S	1
CC7-4-#1S#8		8	45BKB	HCPK4	2 X SLEEVE#8	1
CC7-4-#1S#8S		8 solid	45BKB	HCPK4	2 X SLEEVE#8S	1
CC7-4-#1#1	1	1	65BKB	HCPK4	—	1
CC7-4-#1#1S		1 solid	65BKB	HCPK4	—	1
CC7-4-#1#2		2	65BKB	HCPK4	—	1
CC7-4-#1#2S		2 solid	65BKB	HCPK4	—	1
CC7-4-#1#4		4	65BKB	HCPK4	—	1
CC7-4-#1#6		6	65BKB	HCPK4	2 X SLEEVE#6	1
CC7-4-#1#6S		6 solid	65BKB	HCPK4	2 X SLEEVE#6S	1
CC7-4-#1#8		8	45BKB	HCPK4	2 X SLEEVE#8	1
CC7-4-#1#8S		8 solid	45BKB	HCPK4	2 X SLEEVE#8S	1
CC7-4-1/OS1/0	1/0 solid	1/0	90BKB	HCPK4	—	1
CC7-4-1/OS1/OS		1/0 solid	90BKB	HCPK4	—	1
CC7-4-1/OS#1		1	65BKB	HCPK4	—	1
CC7-4-1/OS#1S		1 solid	65BKB	HCPK4	—	1
CC7-4-1/OS#2		2	65BKB	HCPK4	—	1
CC7-4-1/OS#2S		2 solid	65BKB	HCPK4	—	1
CC7-4-1/OS#4		4	65BKB	HCPK4	—	1
CC7-4-1/OS#6		6	65BKB	HCPK4	2 X SLEEVE#6	1
CC7-4-1/OS#6S		6 solid	65BKB	HCPK4	2 X SLEEVE#6S	1
CC7-4-1/OS#8		8	65BKB	HCPK4	2 X SLEEVE#8	1
CC7-4-1/OS#8S		8 solid	65BKB	HCPK4	2 X SLEEVE#8S	1
CC7-4-1/01/0	1/0	1/0	90BKB	HCPK4	—	1
CC7-4-1/01/OS		1/0 solid	90BKB	HCPK4	—	1
CC7-4-1/0#1		1	65BKB	HCPK4	—	1
CC7-4-1/0#1S		1 solid	65BKB	HCPK4	—	1
CC7-4-1/0#2		2	65BKB	HCPK4	—	1
CC7-4-1/0#2S		2 solid	65BKB	HCPK4	—	1
CC7-4-1/0#4		4	65BKB	HCPK4	—	1
CC7-4-1/0#6		6	65BKB	HCPK4	2 X SLEEVE#6	1
CC7-4-1/0#6S		6 solid	65BKB	HCPK4	2 X SLEEVE#6S	1
CC7-4-1/0#8		8	65BKB	HCPK4	2 X SLEEVE#8	1

Thomas & Betts

C-100

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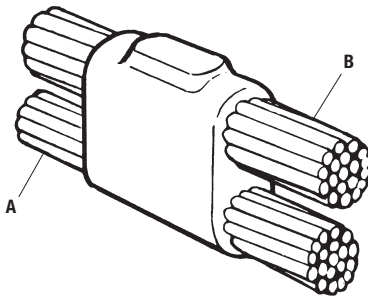
Tel: 901.252.8000

800.816.7809

Fax: 901.252.1354

Technical Services

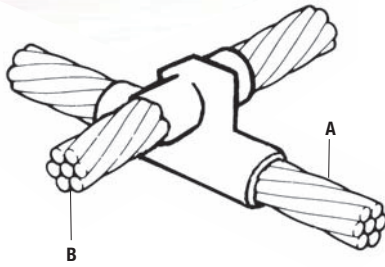
Tel: 888.862.3289



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CC7 - Continued

CAT. NO.	WIRE SIZE (A)	WIRE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CC7-4-1/0#8S	1/0	8 solid	65BKB	HCPK4	2 X SLEEVE#8S	1
CC7-4-2/02/0	2/0	2/0	115BKB	HCPK4	—	1
CC7-4-2/01/0		1/0	115BKB	HCPK4	—	1
CC7-4-2/01/0S		1/0 solid	115BKB	HCPK4	—	1
CC7-4-2/0#1		1	90BKB	HCPK4	—	1
CC7-4-2/0#1S		1 solid	90BKB	HCPK4	—	1
CC7-4-2/0#2		2	90BKB	HCPK4	—	1
CC7-4-2/0#4		4	90BKB	HCPK4	—	1
CC7-4-2/0#6		6	90BKB	HCPK4	2 X SLEEVE#6	1
CC7-4-2/0#6S		6 solid	90BKB	HCPK4	2 X SLEEVE#6S	1
CC7-4-2/0#8		8	65BKB	HCPK4	2 X SLEEVE#8	1
CC7-4-2/0#8S		8 solid	65BKB	HCPK4	2 X SLEEVE#8S	1
CC7-4-3/03/0	3/0	3/0	150BKB	HCPK4	—	1
CC7-4-3/02/0		2/0	150BKB	HCPK4	—	1
CC7-4-3/01/0		1/0	115BKB	HCPK4	—	1
CC7-4-3/01/0S		1/0 solid	115BKB	HCPK4	—	1
CC7-4-3/0#1		1	115BKB	HCPK4	—	1
CC7-4-3/0#1S		1 solid	115BKB	HCPK4	—	1
CC7-4-3/0#2		2	115BKB	HCPK4	—	1
CC7-4-3/0#2S		2 solid	115BKB	HCPK4	—	1
CC7-4-3/0#4		4	115BKB	HCPK4	—	1
CC7-4-3/0#6		6	90BKB	HCPK4	2 X SLEEVE#6	1
CC7-4-3/0#6S		6 solid	90BKB	HCPK4	2 X SLEEVE#6S	1
CC7-4-3/0#8		8	90BKB	HCPK4	2 X SLEEVE#8	1
CC7-4-3/0#8S		8 solid	90BKB	HCPK4	2 X SLEEVE#8S	1
CC7-4-4/0S4/0	4/0 solid	4/0	200BKB	HCPK4	—	1
CC7-4-4/0S4/0S		4/0 solid	200BKB	HCPK4	—	1
CC7-4-4/0S3/0		3/0	200BKB	HCPK4	—	1
CC7-4-4/0S2/0		2/0	150BKB	HCPK4	—	1
CC7-4-4/0S1/0		1/0	150BKB	HCPK4	—	1
CC7-4-4/0S1/0S		1/0 solid	150BKB	HCPK4	—	1
CC7-4-4/0S#1		1	150BKB	HCPK4	—	1
CC7-4-4/0S#1S		1 solid	150BKB	HCPK4	—	1
CC7-4-4/0S#2		2	150BKB	HCPK4	—	1
CC7-4-4/0S#2S		2 solid	150BKB	HCPK4	—	1
CC7-4-4/0S#4		4	150BKB	HCPK4	—	1
CC7-4-4/0S#6		6	90BKB	HCPK4	2 X SLEEVE#6	1
CC7-4-4/0S#6S		6 solid	90BKB	HCPK4	2 X SLEEVE#6S	1
CC7-4-4/0S#8		8	90BKB	HCPK4	2 X SLEEVE#8	1
CC7-4-4/0S#8S		8 solid	90BKB	HCPK4	2 X SLEEVE#8S	1
CC7-4-4/04/0	4/0	4/0	200BKB	HCPK4	—	1
CC7-4-4/04/0S		4/0 solid	200BKB	HCPK4	—	1
CC7-4-4/03/0		3/0	200BKB	HCPK4	—	1
CC7-4-4/02/0		2/0	150BKB	HCPK4	—	1
CC7-4-4/01/0		1/0	150BKB	HCPK4	—	1
CC7-4-4/01/0S		1/0 solid	150BKB	HCPK4	—	1
CC7-4-4/0#1		1	150BKB	HCPK4	—	1
CC7-4-4/0#1S		1 solid	150BKB	HCPK4	—	1
CC7-4-4/0#2		2	150BKB	HCPK4	—	1
CC7-4-4/0#2S		2 solid	150BKB	HCPK4	—	1
CC7-4-4/0#4		4	150BKB	HCPK4	—	1
CC7-4-4/0#6		6	90BKB	HCPK4	2 X SLEEVE#6	1
CC7-4-4/0#6S		6 solid	90BKB	HCPK4	2 X SLEEVE#6S	1
CC7-4-4/0#8		8	90BKB	HCPK4	2 X SLEEVE#8	1
CC7-4-4/0#8S		8 solid	90BKB	HCPK4	2 X SLEEVE#8S	1



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CC11

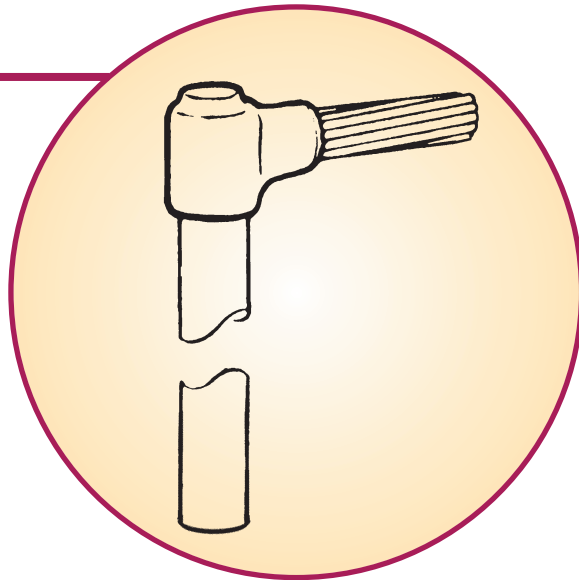
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CC11-7-#6S#6S	6 solid	6 solid	32BKB	HCPK7	4 X SLEEVE#6S	1
CC11-7-#6#6	6	6	45BKB	HCPK7	4 X SLEEVE#6	1
CC11-7-#4#4	4	4	65BKB	HCPK7	—	1
CC11-7-#2#2	2	2	90BKB	HCPK7	—	1
CC11-7-#2#4		4	65BKB	HCPK7	—	1
CC11-7-#2S#2S	2 solid	2 solid	90BKB	HCPK7	—	1
CC11-7-#1#1	1	1	115BKB	HCPK7	—	1
CC11-7-#1#2		2	90BKB	HCPK7	—	1
CC11-7-#1#4		4	90BKB	HCPK7	—	1
CC11-7-1/01/0	1/0	1/0	150BKB	HCPK7	—	1
CC11-7-1/0#1		1	150BKB	HCPK7	—	1
CC11-7-1/0#2		2	115BKB	HCPK7	—	1
CC11-7-1/0#4		4	115BKB	HCPK7	—	1
CC11-7-2/02/0	2/0	2/0	200BKB	HCPK7	—	1
CC11-7-2/01/0		1/0	200BKB	HCPK7	—	1
CC11-7-2/0#1		1	150BKB	HCPK7	—	1
CC11-7-2/0#2		2	150BKB	HCPK7	—	1
CC11-7-3/03/0	3/0	3/0	250BKB	HCPK7	—	1
CC11-7-3/02/0		2/0	200BKB	HCPK7	—	1
CC11-7-3/01/0		1/0	200BKB	HCPK7	—	1
CC11-7-3/0#1		1	150BKB	HCPK7	—	1
CC11-7-3/0#2		2	150BKB	HCPK7	—	1
CC11-7-4/04/0	4/0	4/0	250BKB	HCPK7	—	1
CC11-7-4/03/0		3/0	250BKB	HCPK7	—	1
CC11-7-4/02/0		2/0	200BKB	HCPK7	—	1
CC11-7-4/01/0		1/0	200BKB	HCPK7	—	1
CC11-7-4/0#1		1	150BKB	HCPK7	—	1
CC11-7-4/0#2		2	150BKB	HCPK7	—	1
CC11-7-250K250K	250	250	2 X 150BKB	HCPK7	—	1
CC11-7-250K4/0		4/0	2 X 150BKB	HCPK7	—	1
CC11-7-250K3/0		3/0	2 X 150BKB	HCPK7	—	1
CC11-7-250K2/0		2/0	250BKB	HCPK7	—	1
CC11-7-250K1/0		1/0	250BKB	HCPK7	—	1
CC11-7-250K#1		1	200BKB	HCPK7	—	1
CC11-7-250K#2		2	150BKB	HCPK7	—	1
CC11-8-300K300K	300	300	2 X 200BKB	HCPK8	—	1
CC11-8-300K250K		250	2 X 200BKB	HCPK8	—	1
CC11-7-300K4/0		4/0	2 X 150BKB	HCPK7	—	1
CC11-7-300K3/0		3/0	2 X 150BKB	HCPK7	—	1
CC11-7-300K2/0		2/0	250BKB	HCPK7	—	1
CC11-7-300K1/0		1/0	250BKB	HCPK7	—	1
CC11-7-300K#1		1	200BKB	HCPK7	—	1
CC11-7-300K#2		2	150BKB	HCPK7	—	1
CC11-8-350K350K	350	350	2 X 250BKB	HCPK8	—	1
CC11-8-350K300K		300	2 X 250BKB	HCPK8	—	1
CC11-8-350K250K		250	2 X 250BKB	HCPK8	—	1
CC11-8-350K4/0		4/0	2 X 200BKB	HCPK8	—	1
CC11-8-350K3/0		3/0	2 X 200BKB	HCPK8	—	1
CC11-7-350K2/0		2/0	2 X 150BKB	HCPK7	—	1
CC11-7-350K1/0		1/0	250BKB	HCPK7	—	1
CC11-7-350K#1		1	200BKB	HCPK7	—	1
CC11-7-350K#2		2	200BKB	HCPK7	—	1
CC11-8-500K500K	500	500	3 X 250BKB	HCPK8	—	1
CC11-8-500K350K		350	3 X 200BKB	HCPK8	—	1
CC11-8-500K300K		300	3 X 200BKB	HCPK8	—	1
CC11-8-500K250K		250K	2 X 250BKB	HCPK8	—	1
CC11-8-500K4/0		4/0	2 X 250BKB	HCPK8	—	1
CC11-8-500K3/0		3/0	2 X 250BKB	HCPK8	—	1
CC11-8-500K2/0		2/0	2 X 200BKB	HCPK8	—	1
CC11-8-500K1/0		1/0	2 X 150BKB	HCPK8	—	1

Cable to Ground Rod - Quick Reference



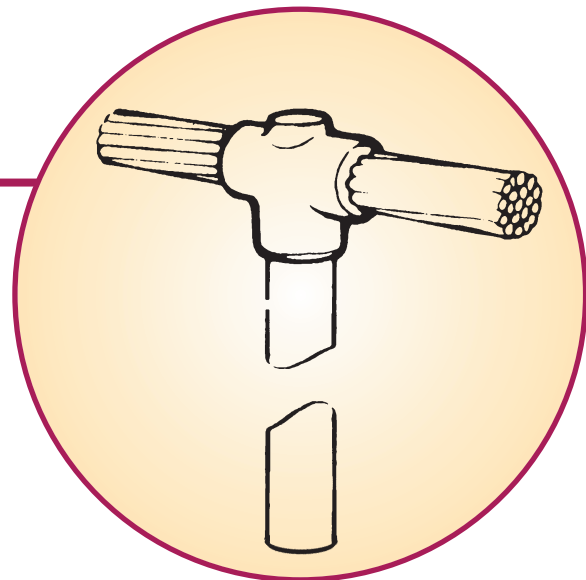
CR1

See Page C-104



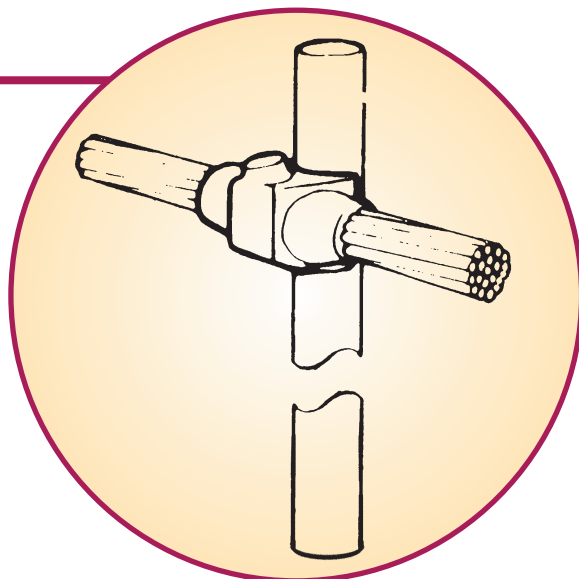
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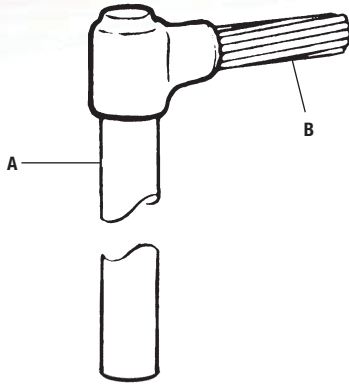
See Page C-105



CR3

See Page C-106



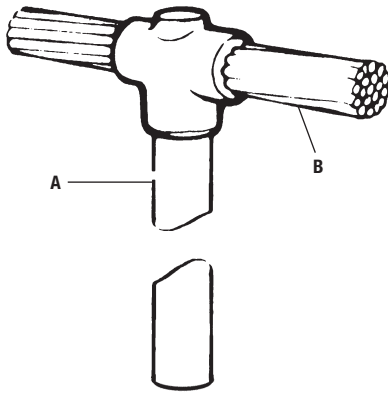


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CR1

CAT. NO.	ROD SIZE (A)	WIRE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CR1-3-500#6	½" Nominal Diameter	6	65BKB	HCPK3	SLEEVE#6	1
CR1-3-500#6S	Actual Shank Dia. 0.476"	6 solid	65BKB	HCPK3	SLEEVE#6S	1
CR1-3-500#4	(Non UL Rod)	4	65BKB	HCPK3	—	1
CR1-3-500#4S		4 solid	45BKB	HCPK3	—	1
CR1-3-500#2		2	65BKB	HCPK3	—	1
CR1-3-500#2S		2 solid	65BKB	HCPK3	—	1
CR1-4-500#1		1	65BKB	HCPK4	—	1
CR1-4-5001/0		1/0	90BKB	HCPK4	—	1
CR1-4-5001/0S		1/0 solid	90BKB	HCPK4	—	1
CR1-4-5002/0		2/0	90BKB	HCPK4	—	1
CR1-4-5003/0		3/0	90BKB	HCPK4	—	1
CR1-4-5004/0		4/0	90BKB	HCPK4	—	1
CR1-4-500250K		250	90BKB	HCPK4	—	1
CR1-4-500300K		300	90BKB	HCPK4	—	1
CR1-3-500L#6	½" True Diameter	6	45BKB	HCPK3	1 X SLEEVE#6	1
CR1-3-500L#6S	Actual Shank Dia. 0.502"	6 solid	45BKB	HCPK3	1 X SLEEVE#6S	1
CR1-3-500L#4	(UL Rod)	4	45BKB	HCPK3	—	1
CR1-3-500L#4S		4 solid	45BKB	HCPK3	—	1
CR1-3-500L#2		2	65BKB	HCPK3	—	1
CR1-3-500L#2S		2 solid	65BKB	HCPK3	—	1
CR1-4-500L#1		1	65BKB	HCPK4	—	1
CR1-4-500L1/0		1/0	90BKB	HCPK4	—	1
CR1-4-500L1/0S		1/0 solid	90BKB	HCPK4	—	1
CR1-4-500L2/0		2/0	90BKB	HCPK4	—	1
CR1-4-500L3/0		3/0	90BKB	HCPK4	—	1
CR1-4-500L4/0		4/0	90BKB	HCPK4	—	1
CR1-4-500L250K		250	90BKB	HCPK4	—	1
CR1-4-500L300K		300	90BKB	HCPK4	—	1
CR1-3-625#6	¾" Nominal Diameter	6	65BKB	HCPK3	1 X SLEEVE#6	1
CR1-3-625#6S	Actual Shank Dia. 0.560"	6 solid	65BKB	HCPK3	1 X SLEEVE#6S	1
CR1-3-625#4		4	65BKB	HCPK3	—	1
CR1-3-625#4S		4 solid	65BKB	HCPK3	—	1
CR1-4-625#2		2	65BKB	HCPK4	—	1
CR1-4-625#2S		2 solid	65BKB	HCPK4	—	1
CR1-4-625#1		1	65BKB	HCPK4	—	1
CR1-4-6251/0		1/0	90BKB	HCPK4	—	1
CR1-4-6251/0S		1/0 solid	90BKB	HCPK4	—	1
CR1-4-6252/0		2/0	90BKB	HCPK4	—	1
CR1-4-6253/0		3/0	90BKB	HCPK4	—	1
CR1-4-6254/0		4/0	90BKB	HCPK4	—	1
CR1-4-625250K		250	90BKB	HCPK4	—	1
CR1-4-625300K		300	115BKB	HCPK4	—	1
CR1-4-625350K		350	115BKB	HCPK4	—	1
CR1-4-625500K		500	150BKB	HCPK4	—	1
CR1-3-750#6	¾" Nominal Diameter	6	32BKB	HCPK3	1 X SLEEVE#6	1
CR1-3-750#6S	Actual Shank Dia. 0.678"	6 solid	32BKB	HCPK3	1 X SLEEVE#6S	1
CR1-3-750#4		4	45BKB	HCPK3	—	1
CR1-3-750#4S		4 solid	45BKB	HCPK3	—	1
CR1-4-750#2		2	90BKB	HCPK4	—	1
CR1-4-750#2S		2 solid	90BKB	HCPK4	—	1
CR1-4-750#1		1	90BKB	HCPK4	—	1
CR1-4-7501/0		1/0	90BKB	HCPK4	—	1
CR1-4-7501/0S		1/0 solid	90BKB	HCPK4	—	1
CR1-4-7502/0		2/0	90BKB	HCPK4	—	1
CR1-4-7503/0		3/0	90BKB	HCPK4	—	1
CR1-4-7504/0		4/0	90BKB	HCPK4	—	1
CR1-4-750250K		250	90BKB	HCPK4	—	1
CR1-4-750300K		300	115BKB	HCPK4	—	1
CR1-4-750350K		350	115BKB	HCPK4	—	1
CR1-4-750500K		500	150BKB	HCPK4	—	1

For Connections to Threaded Rods - Remove Top Threaded Section



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CR2

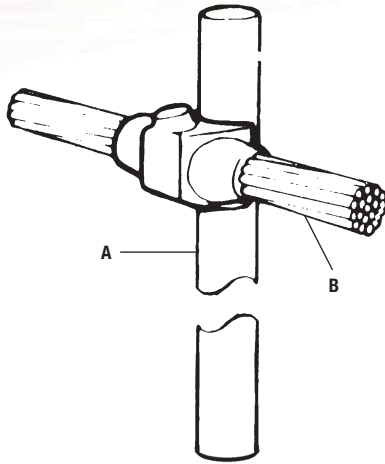
CAT. NO.	ROD SIZE (A)	WIRE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CR2-3-500#6	½" Nominal Diameter	6	65BKB	HCPK3	SLEEVE#6	1
CR2-3-500#6S	Actual Shank Dia. 0.476"	6 solid	65BKB	HCPK3	SLEEVE#6S	1
CR2-3-500#4	(Non UL Rod)	4	65BKB	HCPK3	—	1
CR2-3-500#4S		4 solid	65BKB	HCPK3	—	1
CR2-4-500#2		2	90BKB	HCPK3	—	1
CR2-4-500#2S		2 solid	90BKB	HCPK3	—	1
CR2-4-500#1		1	90BKB	HCPK4	—	1
CR2-4-5001/0		1/0	90BKB	HCPK4	—	1
CR2-4-5001/0S		1/0 solid	90BKB	HCPK4	—	1
CR2-4-5002/0		2/0	90BKB	HCPK4	—	1
CR2-4-5003/0		3/0	115BKB	HCPK4	—	1
CR2-4-5004/0		4/0	115BKB	HCPK4	—	1
CR2-4-500250K		250	150BKB	HCPK4	—	1
CR2-4-500300K		300	200BKB	HCPK4	—	1
CR2-3-500L#6	½" True Diameter	6	65BKB	HCPK3	SLEEVE#6	1
CR2-3-500L#6S	Actual Shank Dia. 0.502"	6 solid	65BKB	HCPK3	SLEEVE#6S	1
CR2-3-500L#4	(UL Rod)	4	65BKB	HCPK3	—	1
CR2-3-500L#4S		4 solid	65BKB	HCPK3	—	1
CR2-4-500L#2		2	90BKB	HCPK3	—	1
CR2-4-500L#2S		2 solid	90BKB	HCPK3	—	1
CR2-4-500L#1		1	90BKB	HCPK4	—	1
CR2-4-500L1/0		1/0	90BKB	HCPK4	—	1
CR2-4-500L1/0S		1/0 solid	90BKB	HCPK4	—	1
CR2-4-500L2/0		2/0	90BKB	HCPK4	—	1
CR2-4-500L3/0		3/0	115BKB	HCPK4	—	1
CR2-4-500L4/0		4/0	115BKB	HCPK4	—	1
CR2-4-500L250K		250	150BKB	HCPK4	—	1
CR2-4-500L300K		300	200BKB	HCPK4	—	1
CR2-3-625#6	¾" Nominal Diameter	6	32BKB	HCPK3	SLEEVE#6	1
CR2-3-625#6S	Actual Shank Dia. 0.560"	6 solid	32BKB	HCPK3	SLEEVE#6S	1
CR2-3-625#4		4	32BKB	HCPK3	—	1
CR2-3-625#4S		4 solid	32BKB	HCPK3	—	1
CR2-4-625#2		2	90BKB	HCPK4	—	1
CR2-4-625#2S		2 solid	90BKB	HCPK4	—	1
CR2-4-625#1		1	90BKB	HCPK4	—	1
CR2-4-6251/0		1/0	90BKB	HCPK4	—	1
CR2-4-6251/0S		1/0 solid	115BKB	HCPK4	—	1
CR2-4-6252/0		2/0	115BKB	HCPK4	—	1
CR2-4-6253/0		3/0	115BKB	HCPK4	—	1
CR2-4-6254/0		4/0	115BKB	HCPK4	—	1
CR2-4-625250K		250	150BKB	HCPK4	—	1
CR2-4-625300K		300	200BKB	HCPK4	—	1
CR2-4-625350K		350	200BKB	HCPK4	—	1
CR2-4-625500K		500	250BKB	HCPK4	—	1
CR2-3-750#6	¾" Nominal Diameter	6	65BKB	HCPK3	SLEEVE#6	1
CR2-3-750#6S	Actual Shank Dia. 0.678"	6 solid	65BKB	HCPK3	SLEEVE#6S	1
CR2-3-750#4		4	65BKB	HCPK3	—	1
CR2-3-750#4S		4 solid	65BKB	HCPK3	—	1
CR2-4-750#2		2	90BKB	HCPK4	—	1
CR2-4-750#2S		2 solid	90BKB	HCPK4	—	1
CR2-4-750#1		1	90BKB	HCPK4	—	1
CR2-4-7501/0		1/0	115BKB	HCPK4	—	1
CR2-4-7501/0S		1/0 solid	115BKB	HCPK4	—	1
CR2-4-7502/0		2/0	115BKB	HCPK4	—	1
CR2-4-7503/0		3/0	115BKB	HCPK4	—	1
CR2-4-7504/0		4/0	115BKB	HCPK4	—	1
CR2-4-750250K		250	150BKB	HCPK4	—	1
CR2-4-750300K		300	200BKB	HCPK4	—	1
CR2-4-750350K		350	200BKB	HCPK4	—	1
CR2-4-750500K		500	250BKB	HCPK4	—	1

For Connections to Threaded Rods - Remove Top Threaded Section

Blackburn®

Cable to Ground Rod

Blackburn Exothermic Welding System



- Stranded Conductor
- Solid Circular Conductor

CR3

CAT. NO.	ROD SIZE (A)	WIRE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CR3-9-5001/O	½" Nominal Diameter	1/0	115BKB	HCPK4 and FRAME1	—	1
CR3-9-5001/OS	Actual Shank Dia. 0.476"	1/0 solid	115BKB	HCPK4 and FRAME1	—	1
CR3-9-5002/O	(Non UL Rod)	2/0	115BKB	HCPK4 and FRAME1	—	1
CR3-9-5003/O		3/0	150BKB	HCPK4 and FRAME1	—	1
CR3-9-5004/O		4/0	150BKB	HCPK4 and FRAME1	—	1
CR3-9-500250K		250	150BKB	HCPK4 and FRAME1	—	1
CR3-9-500300K		300	200BKB	HCPK4 and FRAME1	—	1
CR3-9-500L1/O	½" Nominal Diameter	1/0	115BKB	HCPK4 and FRAME1	—	1
CR3-9-500L1/OS	Actual Shank Dia. 0.502"	1/0 solid	115BKB	HCPK4 and FRAME1	—	1
CR3-9-500L2/O	(UL Rod)	2/0	115BKB	HCPK4 and FRAME1	—	1
CR3-9-500L3/O		3/0	150BKB	HCPK4 and FRAME1	—	1
CR3-9-500L4/O		4/0	150BKB	HCPK4 and FRAME1	—	1
CR3-9-500L250K		250	150BKB	HCPK4 and FRAME1	—	1
CR3-9-500300K		300	200BKB	HCPK4 and FRAME1	—	1
CR3-9-6251/O	¾" Nominal Diameter	1/0	115BKB	HCPK4 and FRAME1	—	1
CR3-9-6251/OS	Actual Shank Dia. 0.560"	1/0 solid	115BKB	HCPK4 and FRAME1	—	1
CR3-9-6252/O		2/0	115BKB	HCPK4 and FRAME1	—	1
CR3-9-6253/O		3/0	150BKB	HCPK4 and FRAME1	—	1
CR3-9-6254/O		4/0	150BKB	HCPK4 and FRAME1	—	1
CR3-9-625250K		250	150BKB	HCPK4 and FRAME1	—	1
CR3-9-625300K		300	200BKB	HCPK4 and FRAME1	—	1
CR3-9-625350K		350	250BKB	HCPK4 and FRAME1	—	1
CR3-10-625500K		500	2 X 200BKB	HCPK5 and FRAME2	—	1
CR3-9-7501/O	¾" Nominal Diameter	1/0	115BKB	HCPK5 and FRAME2	—	1
CR3-9-7501/OS	Actual Shank Dia. 0.678"	1/0 solid	115BKB	HCPK4 and FRAME1	—	1
CR3-9-7502/O		2/0	115BKB	HCPK4 and FRAME1	—	1
CR3-9-7503/O		3/0	115BKB	HCPK4 and FRAME1	—	1
CR3-9-7504/O		4/0	115BKB	HCPK4 and FRAME1	—	1
CR3-9-750250K		250	200BKB	HCPK4 and FRAME1	—	1
CR3-9-750300K		300	200BKB	HCPK4 and FRAME1	—	1
CR3-10-750350K		350	2 X 150BKB	HCPK5 and FRAME2	—	1
CR3-10-750500K		500	2 X 250BKB	HCPK5 and FRAME2	—	1

For Connections to Threaded Rods - Remove Top Threaded Section

Thomas & Betts

C-106

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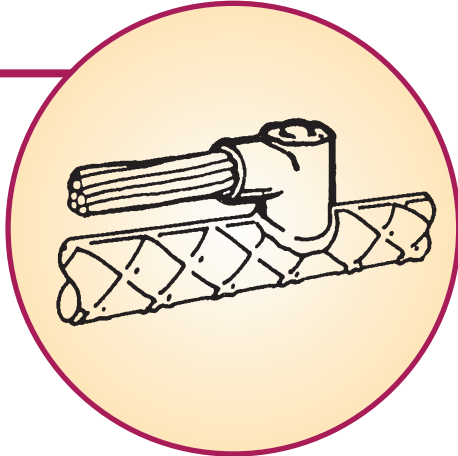
United States
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

Technical Services
Tel: 888.862.3289



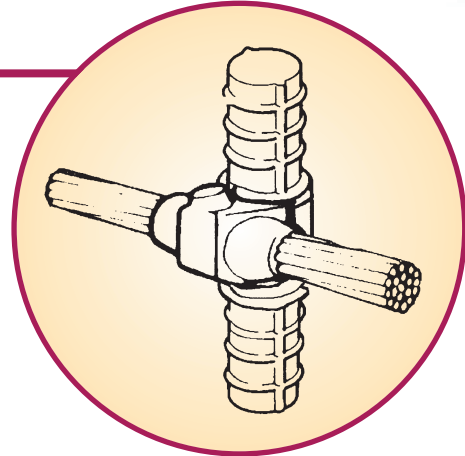
CRE1

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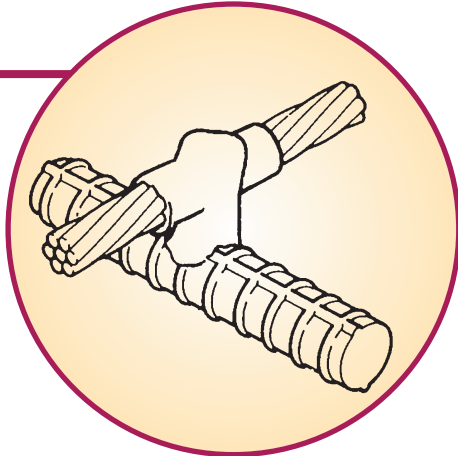
CRE3

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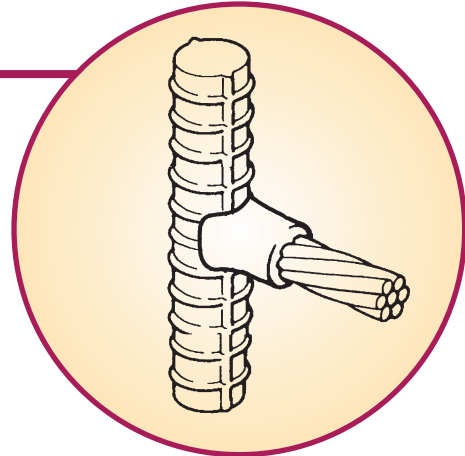
CRE4

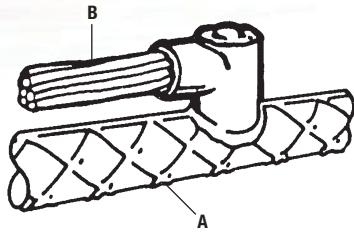
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CRE6

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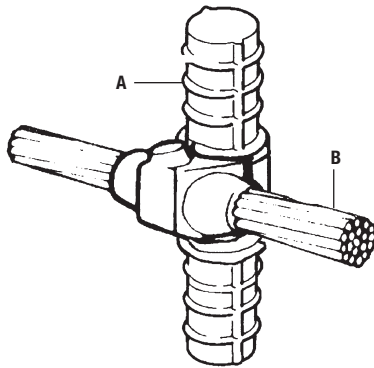




- Stranded Conductor
- Solid Circular Conductor

CRE1

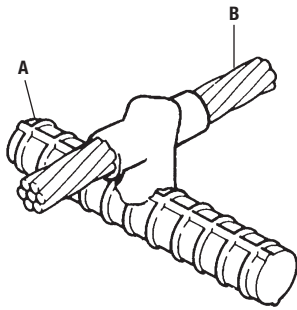
CAT. NO.	REBAR SIZE (A)	WIRE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	PACKING	STD. CTN.
CRE1-4-#43R	3	4	32BKB	HCPK4	—	None	1
CRE1-4-#2S3R		2 solid	45BKB	HCPK4	—	None	1
CRE1-4-#23R		2	45BKB	HCPK4	—	None	1
CRE1-4-#13R		1	65BKB	HCPK4	—	None	1
CRE1-4-1/03R		1/0	90BKB	HCPK4	—	None	1
CRE1-4-2/03R		2/0	90BKB	HCPK4	—	None	1
CRE1-4-3/03R		3/0	115BKB	HCPK4	—	None	1
CRE1-3-#4Z	4 TO 7	4	32BKB	HCPK3B	—	Pack-A	1
CRE1-3-#2SZ		2 solid	45BKB	HCPK3B	—	Pack-A	1
CRE1-3-#2Z		2	45BKB	HCPK3B	—	Pack-A	1
CRE1-3-#1Z		1	65BKB	HCPK3B	—	Pack-A	1
CRE1-3-1/0Z		1/0	90BKB	HCPK3B	—	Pack-A	1
CRE1-3-2/0Z		2/0	90BKB	HCPK3B	—	Pack-A	1
CRE1-3-3/0Z		3/0	115BKB	HCPK3B	—	Pack-A	1
CRE1-3-4/0Z		4/0	115BKB	HCPK3B	—	Pack-A	1
CRE1-3-#4Y	8 TO 11	4	32BKB	HCPK3B	—	Pack-A	1
CRE1-3-#2SY		2 solid	45BKB	HCPK3B	—	Pack-A	1
CRE1-3-#2Y		2	45BKB	HCPK3B	—	Pack-A	1
CRE1-3-#1Y		1	65BKB	HCPK3B	—	Pack-A	1
CRE1-3-1/0Y		1/0	90BKB	HCPK3B	—	Pack-A	1
CRE1-3-2/0Y		2/0	90BKB	HCPK3B	—	Pack-A	1
CRE1-3-3/0Y		3/0	115BKB	HCPK3B	—	Pack-A	1
CRE1-3-4/0Y		4/0	115BKB	HCPK3B	—	Pack-A	1



- Stranded Conductor
- Solid Circular Conductor

CRE3

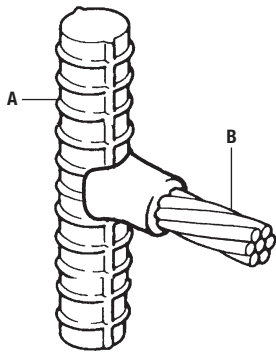
CAT. NO.	REBAR SIZE (A)	WIRE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	PACKING	STD. CTN.
CRE3-3-#4Z	4 TO 7	4	90BKB	HCPK3A	—	Pack-A	1
CRE3-3-#2SZ		2 solid	90BKB	HCPK3A	—	Pack-A	1
CRE3-3-#2Z		2	90BKB	HCPK3A	—	Pack-A	1
CRE3-4-#1Z		1	115BKB	HCPK3A	—	Pack-A	1
CRE3-4-1/0Z		1/0	115BKB	HCPK3A	—	Pack-A	1
CRE3-4-2/0Z		2/0	115BKB	HCPK3A	—	Pack-A	1
CRE3-4-3/0Z		3/0	150BKB	HCPK3A	—	Pack-A	1
CRE3-4-4/0Z		4/0	150BKB	HCPK3A	—	Pack-A	1
CRE3-3-#4Y	8 TO 11	4	90BKB	HCPK3A	—	Pack-A	1
CRE3-3-#2SY		2 solid	90BKB	HCPK3A	—	Pack-A	1
CRE3-3-#2Y		2	90BKB	HCPK3A	—	Pack-A	1
CRE3-4-#1Y		1	115BKB	HCPK3A	—	Pack-A	1
CRE3-4-1/0Y		1/0	115BKB	HCPK3A	—	Pack-A	1
CRE3-4-2/0Y		2/0	115BKB	HCPK3A	—	Pack-A	1
CRE3-4-3/0Y		3/0	150BKB	HCPK3A	—	Pack-A	1
CRE3-4-4/0Y		4/0	150BKB	HCPK3A	—	Pack-A	1



- Stranded Conductor
- Solid Circular Conductor

CRE4

CAT. NO.	REBAR SIZE (A)	WIRE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	CRADLE	SLEEVE	PACKING	STD. CTN.
CRE4-3-#4Z	4 TO 7	4	65BKB	HCPK3B	HCPK3BMOD	—	Pack-A	1
CRE4-3-#2SZ		2 solid	90BKB	HCPK3B	HCPK3BMOD	—	Pack-A	1
CRE4-3-#2Z		2	90BKB	HCPK3B	HCPK3BMOD	—	Pack-A	1
CRE4-3-#1Z		1	90BKB	HCPK3B	HCPK3BMOD	—	Pack-A	1
CRE4-3-1/OZ		1/0	115BKB	HCPK3B	HCPK3BMOD	—	Pack-A	1
CRE4-3-2/OZ		2/0	115BKB	HCPK3B	HCPK3BMOD	—	Pack-A	1
CRE4-3-3/OZ		3/0	115BKB	HCPK3B	HCPK3BMOD	—	Pack-A	1
CRE4-3-4/OZ		4/0	115BKB	HCPK3B	HCPK3BMOD	—	Pack-A	1
CRE4-3-#4Y	8 TO 11	4	65BKB	HCPK3B	HCPK3BMOD	—	Pack-A	1
CRE4-3-#2SY		2 solid	90BKB	HCPK3B	HCPK3BMOD	—	Pack-A	1
CRE4-3-#2Y		2	90BKB	HCPK3B	HCPK3BMOD	—	Pack-A	1
CRE4-3-#1Y		1	90BKB	HCPK3B	HCPK3BMOD	—	Pack-A	1
CRE4-3-1/OY		1/0	115BKB	HCPK3B	HCPK3BMOD	—	Pack-A	1
CRE4-3-2/OY		2/0	115BKB	HCPK3B	HCPK3BMOD	—	Pack-A	1
CRE4-3-3/OY		3/0	115BKB	HCPK3B	HCPK3BMOD	—	Pack-A	1
CRE4-3-4/OY		4/0	115BKB	HCPK3B	HCPK3BMOD	—	Pack-A	1



- Stranded Conductor
- Solid Circular Conductor

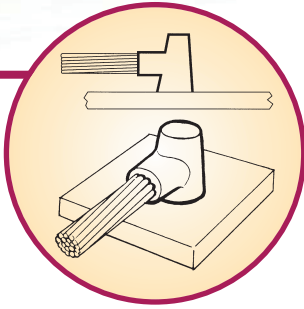
CRE6

CAT. NO.	REBAR SIZE (A)	WIRE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	PACKING	STD. CTN.
CRE6-3-#4Z	4 TO 7	4	65BKB	HCPK3A	—	Pack-A	1
CRE6-3-#2SZ		2 solid	65BKB	HCPK3A	—	Pack-A	1
CRE6-3-#2Z		2	65BKB	HCPK3A	—	Pack-A	1
CRE6-3-#1Z		1	90BKB	HCPK3A	—	Pack-A	1
CRE6-4-1/OZ		1/0	115BKB	HCPK3A	—	Pack-A	1
CRE6-4-2/OZ		2/0	115BKB	HCPK3A	—	Pack-A	1
CRE6-4-3/OZ		3/0	150BKB	HCPK3A	—	Pack-A	1
CRE6-4-4/OZ		4/0	150BKB	HCPK3A	—	Pack-A	1
CRE6-3-#4Y	8 TO 11	4	65BKB	HCPK3A	—	Pack-A	1
CRE6-3-#2SY		2 solid	65BKB	HCPK3A	—	Pack-A	1
CRE6-3-#2Y		2	65BKB	HCPK3A	—	Pack-A	1
CRE6-3-#1Y		1	90BKB	HCPK3A	—	Pack-A	1
CRE6-4-1/OY		1/0	115BKB	HCPK3A	—	Pack-A	1
CRE6-4-2/OY		2/0	115BKB	HCPK3A	—	Pack-A	1
CRE6-4-3/OY		3/0	150BKB	HCPK3A	—	Pack-A	1
CRE6-4-4/OY		4/0	150BKB	HCPK3A	—	Pack-A	1

Cable to Steel Surface and Pipe - Quick Reference

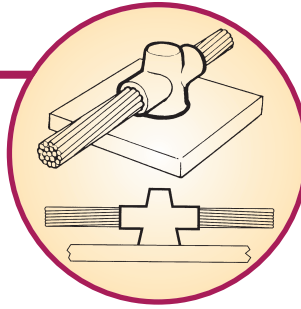
CS1

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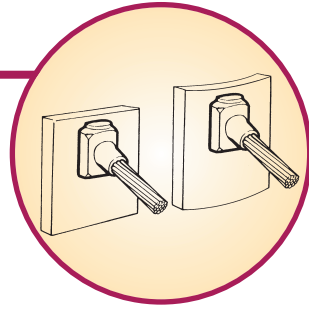
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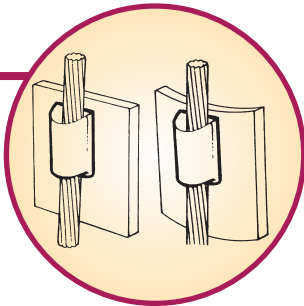
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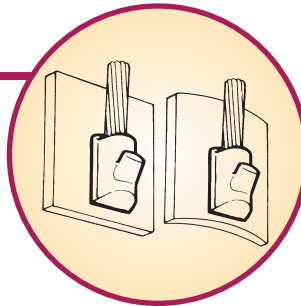
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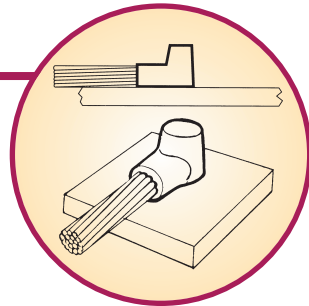
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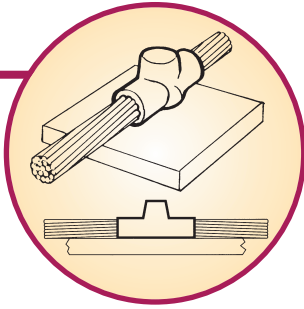
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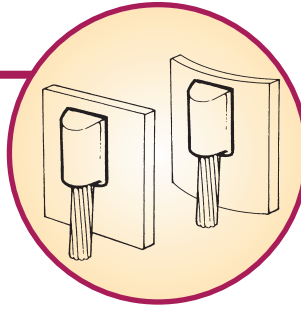
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C-115



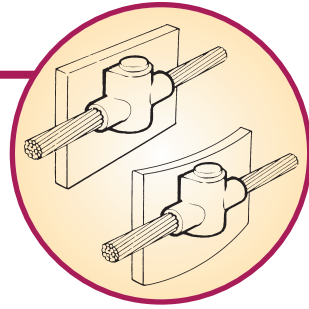
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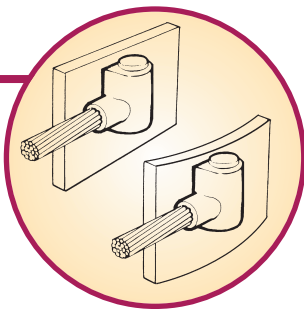
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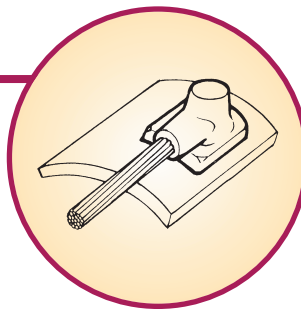
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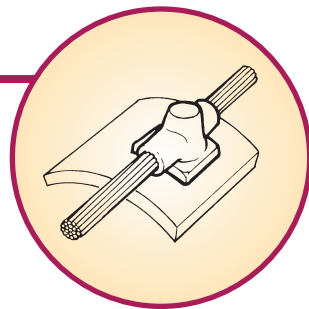
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CS34

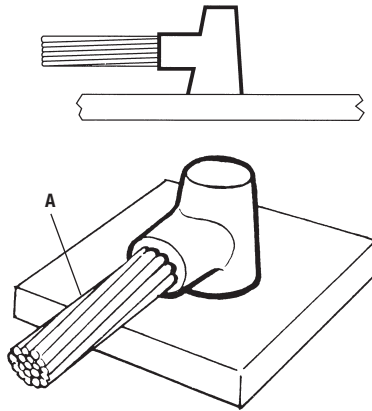
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Cable to Steel Surface and Pipe



Blackburn® Exothermic Welding System

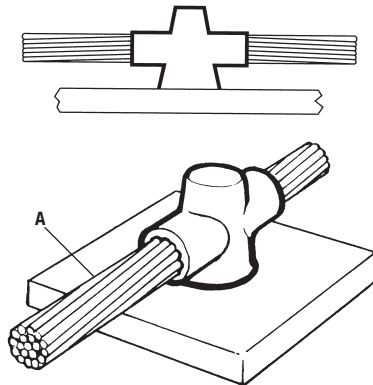


CS1 – For Flat Surfaces

CAT. NO.	WIRE SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS1-4-1/0	1/0	90BKB	HCPK4	—	1
CS1-4-2/0	2/0	90BKB	HCPK4	—	1
CS1-4-3/0	3/0	115BKB	HCPK4	—	1
CS1-4-4/0	4/0	115BKB	HCPK4	—	1
CS1-4-250K	250	115BKB	HCPK4	—	1
CS1-4-300K	300	150BKB	HCPK4	—	1
CS1-4-350K	350	200BKB	HCPK4	—	1
CS1-4-500K	500	200BKB	HCPK4	—	1
CS1-4-750K	750	2 X 150BKB	HCPK4	—	1
CS1-4-1000K	1000	2 X 200BKB	HCPK4	—	1

Mold Sealing Compound (MSC) will be required if surface is uneven.

- Stranded Conductor
- Solid Circular Conductor



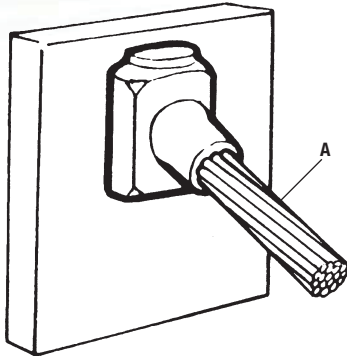
CS2 – For Flat Surfaces

CAT. NO.	WIRE SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS2-4-1/0	1/0	90BKB	HCPK4	—	1
CS2-4-2/0	2/0	115BKB	HCPK4	—	1
CS2-4-3/0	3/0	115BKB	HCPK4	—	1
CS2-4-4/0	4/0	150BKB	HCPK4	—	1
CS2-4-250K	250	150BKB	HCPK4	—	1
CS2-4-300K	300	200BKB	HCPK4	—	1
CS2-4-350K	350	250BKB	HCPK4	—	1
CS2-5-500K	500	2 X 150BKB	HCPK4	—	1

Mold Sealing Compound (MSC) will be required if surface is uneven.

- Stranded Conductor
- Solid Circular Conductor

Cable to Steel Surface and Pipe

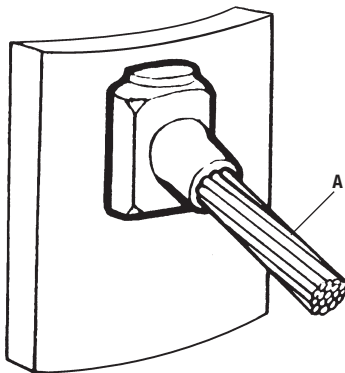


- Stranded Conductor
- Solid Circular Conductor

CS3 – For Flat Surfaces

CAT. NO.	WIRE SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS3-4-#6	#6	45BKB	HCPK4	SLEEVE#6	1
CS3-4-#4	#4	45BKB	HCPK4	—	1
CS3-4-#2S	#2 solid	45BKB	HCPK4	—	1
CS3-4-#2	#2	45BKB	HCPK4	—	1
CS3-4-#1	#1	65BKB	HCPK4	—	1
CS3-4-1/0	1/0	90BKB	HCPK4	—	1
CS3-4-2/0	2/0	90BKB	HCPK4	—	1
CS3-4-3/0	3/0	115BKB	HCPK4	—	1
CS3-4-4/0	4/0	115BKB	HCPK4	—	1
CS3-4-250K	250	115BKB	HCPK4	—	1
CS3-4-300K	300	150BKB	HCPK4	—	1
CS3-4-350K	350	200BKB	HCPK4	—	1
CS3-4-500K	500	200BKB	HCPK4	—	1
CS3-5-750K	750	2 X 150BKB	HCPK5	—	1
CS3-5-1000K	1000	2 X 200BKB	HCPK5	—	1

Mold Sealing Compound (MSC) will be required if surface is uneven.



- Stranded Conductor
- Solid Circular Conductor

CS3 – For Pipes

CAT. NO.	WIRE SIZE (A)	PIPE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS3-4-#4C	#4	1½" to 2¾"	45BKB	HCPK4	—	1
CS3-4-#4D		2¾" to 6½"	45BKB	HCPK4	—	1
CS3-4-#4F		6½" to 10"	45BKB	HCPK4	—	1
CS3-4-#4G		10" to 14"	45BKB	HCPK4	—	1
CS3-4-#2SC	#2 solid	1½" to 2¾"	45BKB	HCPK4	—	1
CS3-4-#2SD		2¾" to 6½"	45BKB	HCPK4	—	1
CS3-4-#2SF		6½" to 10"	45BKB	HCPK4	—	1
CS3-4-#2SG		10" to 14"	45BKB	HCPK4	—	1
CS3-4-#2C	#2	1½" to 2¾"	45BKB	HCPK4	—	1
CS3-4-#2D		2¾" to 6½"	45BKB	HCPK4	—	1
CS3-4-#2F		6½" to 10"	45BKB	HCPK4	—	1
CS3-4-#2G		10" to 14"	45BKB	HCPK4	—	1
CS3-4-#1C	#1	1½" to 2¾"	65BKB	HCPK4	—	1
CS3-4-#1D		2¾" to 6½"	65BKB	HCPK4	—	1
CS3-4-#1F		6½" to 10"	65BKB	HCPK4	—	1
CS3-4-#1G		10" to 14"	65BKB	HCPK4	—	1
CS3-4-#1/0C	1/0	1½" to 2¾"	90BKB	HCPK4	—	1
CS3-4-#1/0D		2¾" to 6½"	90BKB	HCPK4	—	1
CS3-4-#1/0F		6½" to 10"	90BKB	HCPK4	—	1
CS3-4-#1/0G		10" to 14"	90BKB	HCPK4	—	1
CS3-4-#2/0C	2/0	1½" to 2¾"	90BKB	HCPK4	—	1
CS3-4-#2/0D		2¾" to 6½"	90BKB	HCPK4	—	1
CS3-4-#2/0F		6½" to 10"	90BKB	HCPK4	—	1
CS3-4-#2/0G		10" to 14"	90BKB	HCPK4	—	1
CS3-4-#3/0C	3/0	1½" to 2¾"	115BKB	HCPK4	—	1
CS3-4-#3/0D		2¾" to 6½"	115BKB	HCPK4	—	1
CS3-4-#3/0F		6½" to 10"	115BKB	HCPK4	—	1
CS3-4-#3/0G		10" to 14"	115BKB	HCPK4	—	1
CS3-4-#4/0C	4/0	1½" to 2¾"	115BKB	HCPK4	—	1
CS3-4-#4/0D		2¾" to 6½"	115BKB	HCPK4	—	1
CS3-4-#4/0F		6½" to 10"	115BKB	HCPK4	—	1
CS3-4-#4/0G		10" to 14"	115BKB	HCPK4	—	1

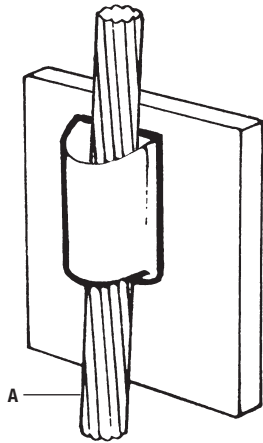
OVER 14" USE CS3 FOR FLAT SURFACE

Use Mold Sealing Compound (MSC) to ensure effective sealing.

Cable to Steel Surface and Pipe

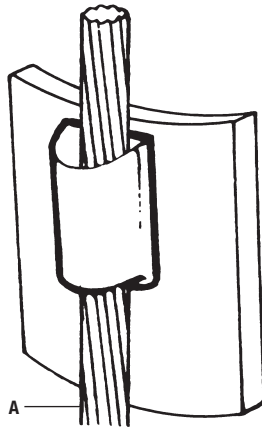


CS4 – For Flat Surfaces



- Stranded Conductor
- Solid Circular Conductor

CS4 – For Pipes



- Stranded Conductor
- Solid Circular Conductor

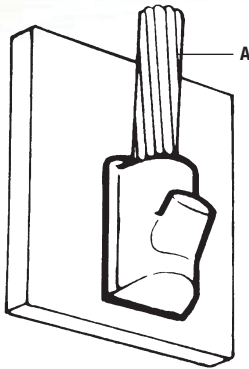
CAT. NO.	WIRE SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS4-4-#6	#6	90BKB	HCPK4	SLEEVE#6	1
CS4-4-#4	#4	90BKB	HCPK4	—	1
CS4-4-#2S	#2 solid	115BKB	HCPK4	—	1
CS4-4-#2	#2	115BKB	HCPK4	—	1
CS4-4-#1	#1	115BKB	HCPK4	—	1
CS4-5-1/0	1/0	200BKB	HCPK5	—	1
CS4-5-2/0	2/0	200BKB	HCPK5	—	1
CS4-5-3/0	3/0	250BKB	HCPK5	—	1
CS4-5-4/0	4/0	250BKB	HCPK5	—	1
CS4-5-250K	250	250BKB	HCPK5	—	1

Mold Sealing Compound (MSC) will be required if surface is uneven.

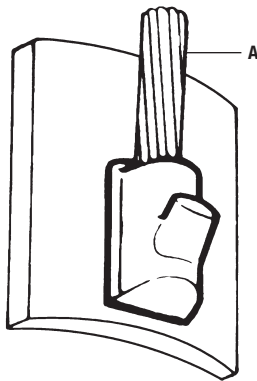
CAT. NO.	WIRE SIZE (A)	PIPE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS4-4-#4C	#4	1½" to 2¼"	90BKB	HCPK4	—	1
CS4-4-#4D		2¼" to 6½"	90BKB	HCPK4	—	1
CS4-4-#4F		6½" to 10"	90BKB	HCPK4	—	1
CS4-4-#4G		10" to 14"	90BKB	HCPK4	—	1
CS4-4-#2SC	#2 solid	1½" to 2¼"	115BKB	HCPK4	—	1
CS4-4-#2SD		2¼" to 6½"	115BKB	HCPK4	—	1
CS4-4-#2SF		6½" to 10"	115BKB	HCPK4	—	1
CS4-4-#2SG		10" to 14"	115BKB	HCPK4	—	1
CS4-4-#2C	#2	1½" to 2¼"	115BKB	HCPK4	—	1
CS4-4-#2D		2¼" to 6½"	115BKB	HCPK4	—	1
CS4-4-#2F		6½" to 10"	115BKB	HCPK4	—	1
CS4-4-#2G		10" to 14"	115BKB	HCPK4	—	1
CS4-4-#1C	#1	1½" to 2¼"	115BKB	HCPK4	—	1
CS4-4-#1D		2¼" to 6½"	115BKB	HCPK4	—	1
CS4-4-#1F		6½" to 10"	115BKB	HCPK4	—	1
CS4-4-#1G		10" to 14"	115BKB	HCPK4	—	1
CS4-5-1/0C	1/0	1½" to 2¼"	200BKB	HCPK5	—	1
CS4-5-1/0D		2¼" to 6½"	200BKB	HCPK5	—	1
CS4-5-1/0F		6½" to 10"	200BKB	HCPK5	—	1
CS4-5-1/0G		10" to 14"	200BKB	HCPK5	—	1
CS4-5-2/0C	2/0	1½" to 2¼"	200BKB	HCPK5	—	1
CS4-5-2/0D		2¼" to 6½"	200BKB	HCPK5	—	1
CS4-5-2/0F		6½" to 10"	200BKB	HCPK5	—	1
CS4-5-2/0G		10" to 14"	200BKB	HCPK5	—	1
CS4-5-3/0C	3/0	1½" to 2¼"	250BKB	HCPK5	—	1
CS4-5-3/0D		2¼" to 6½"	250BKB	HCPK5	—	1
CS4-5-3/0F		6½" to 10"	250BKB	HCPK5	—	1
CS4-5-3/0G		10" to 14"	250BKB	HCPK5	—	1
CS4-5-4/0C	4/0	1½" to 2¼"	250BKB	HCPK5	—	1
CS4-5-4/0D		2¼" to 6½"	250BKB	HCPK5	—	1
CS4-5-4/0F		6½" to 10"	250BKB	HCPK5	—	1
CS4-5-4/0G		10" to 14"	250BKB	HCPK5	—	1

OVER 14" USE CS4 FOR FLAT SURFACE

Use Mold Sealing Compound (MSC) to ensure effective sealing.



- Stranded Conductor
- Solid Circular Conductor



- Stranded Conductor
- Solid Circular Conductor

CS7 – For Flat Surfaces

CAT. NO.	WIRE SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS7-4-#4	#4	65BKB	HCPK4	—	1
CS7-4-#2S	#2 solid	65BKB	HCPK4	—	1
CS7-4-#2	#2	65BKB	HCPK4	—	1
CS7-4-#1	#1	90BKB	HCPK4	—	1
CS7-4-1/0	1/0	90BKB	HCPK4	—	1
CS7-4-2/0	2/0	150BKB	HCPK4	—	1
CS7-5-3/0	3/0	200BKB	HCPK4	—	1
CS7-5-4/0	4/0	200BKB	HCPK4	—	1
CS7-5-250K	250	200BKB	HCPK4	—	1
CS7-5-300K	300	250BKB	HCPK4	—	1
CS7-6-350K	350	2 X 150BKB	HCPK5	—	1
CS7-6-500K	500	2 X 200BKB	HCPK5	—	1

Use Mold Sealing Compound (MSC) to ensure effective sealing.

CS7 – For Pipes

CAT. NO.	WIRE SIZE (A)	PIPE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS7-4-#4C	#4	1½" to 2¼"	65BKB	HCPK4	—	1
CS7-4-#4D		2¼" to 6½"	65BKB	HCPK4	—	1
CS7-4-#4F		6½" to 10"	65BKB	HCPK4	—	1
CS7-4-#4G		10" to 14"	65BKB	HCPK4	—	1
CS7-4-#2SC	#2 solid	1½" to 2¼"	65BKB	HCPK4	—	1
CS7-4-#2SD		2¼" to 6½"	65BKB	HCPK4	—	1
CS7-4-#2SF		6½" to 10"	65BKB	HCPK4	—	1
CS7-4-#2SG		10" to 14"	65BKB	HCPK4	—	1
CS7-4-#2C	#2	1½" to 2¼"	65BKB	HCPK4	—	1
CS7-4-#2D		2¼" to 6½"	65BKB	HCPK4	—	1
CS7-4-#2F		6½" to 10"	65BKB	HCPK4	—	1
CS7-4-#2G		10" to 14"	65BKB	HCPK4	—	1
CS7-4-#1C	#1	1½" to 2¼"	90BKB	HCPK4	—	1
CS7-4-#1D		2¼" to 6½"	90BKB	HCPK4	—	1
CS7-4-#1F		6½" to 10"	90BKB	HCPK4	—	1
CS7-4-#1G		10" to 14"	90BKB	HCPK4	—	1
CS7-4-1/0C	1/0	1½" to 2¼"	90BKB	HCPK4	—	1
CS7-4-1/0D		2¼" to 6½"	90BKB	HCPK4	—	1
CS7-4-1/0F		6½" to 10"	90BKB	HCPK4	—	1
CS7-4-1/0G		10" to 14"	90BKB	HCPK4	—	1
CS7-4-2/0C	2/0	1½" to 2¼"	150BKB	HCPK4	—	1
CS7-4-2/0D		2¼" to 6½"	150BKB	HCPK4	—	1
CS7-4-2/0F		6½" to 10"	150BKB	HCPK4	—	1
CS7-4-2/0G		10" to 14"	150BKB	HCPK4	—	1
CS7-5-3/0C	3/0	1½" to 2¼"	200BKB	HCPK4	—	1
CS7-5-3/0D		2¼" to 6½"	200BKB	HCPK4	—	1
CS7-5-3/0F		6½" to 10"	200BKB	HCPK4	—	1
CS7-5-3/0G		10" to 14"	200BKB	HCPK4	—	1
CS7-5-4/0C	4/0	1½" to 2¼"	200BKB	HCPK4	—	1
CS7-5-4/0D		2¼" to 6½"	200BKB	HCPK4	—	1
CS7-5-4/0F		6½" to 10"	200BKB	HCPK4	—	1
CS7-5-4/0G		10" to 14"	200BKB	HCPK4	—	1

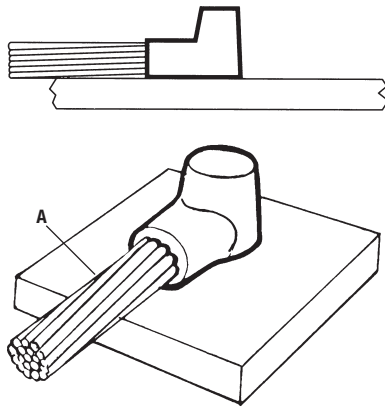
OVER 14" USE CS7 FOR FLAT SURFACE

Use Mold Sealing Compound (MSC) to ensure effective sealing.

Cable to Steel Surface and Pipe



CS8 – For Flat Surfaces

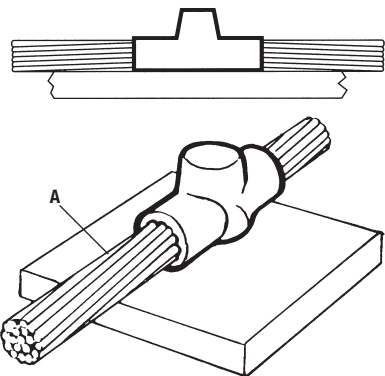


CAT. NO.	WIRE SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS8-2-#6	#6	45BKB	HCPK2	SLEEVE#6	1
CS8-2-#4	#4	45BKB	HCPK2	—	1
CS8-2-#2S	#2 solid	45BKB	HCPK2	—	1
CS8-2-#2	#2	45BKB	HCPK2	—	1
CS8-2-#1	#1	65BKB	HCPK2	—	1

Use Mold Sealing Compound (MSC) to ensure effective sealing.

- Stranded Conductor
- Solid Circular Conductor

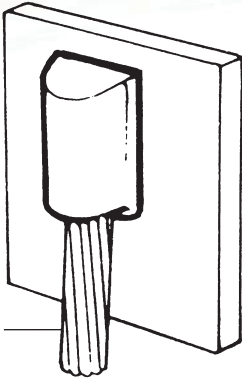
CS9 – For Flat Surfaces



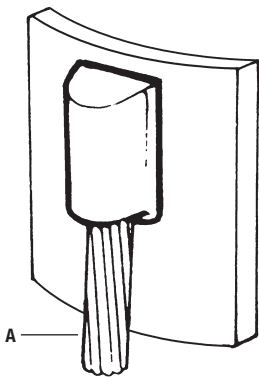
CAT. NO.	WIRE SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS9-2-#6	#6	45BKB	HCPK2	SLEEVE#6	1
CS9-2-#4	#4	45BKB	HCPK2	—	1
CS9-2-#2S	#2 solid	45BKB	HCPK2	—	1
CS9-2-#2	#2	45BKB	HCPK2	—	1
CS9-2-#1	#1	65BKB	HCPK2	—	1

Use Mold Sealing Compound (MSC) to ensure effective sealing.

- Stranded Conductor
- Solid Circular Conductor



- Stranded Conductor
- Solid Circular Conductor



- Stranded Conductor
- Solid Circular Conductor

CS25 – For Flat Surfaces

CAT. NO.	WIRE SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS25-4-#4	#4	65BKB	HCPK4	—	1
CS25-4-#2S	#2 solid	65BKB	HCPK4	—	1
CS25-4-#2	#2	65BKB	HCPK4	—	1
CS25-4-#1	#1	90BKB	HCPK4	—	1
CS25-4-1/0	1/0	115BKB	HCPK4	—	1
CS25-4-2/0	2/0	115BKB	HCPK4	—	1
CS25-4-3/0	3/0	150BKB	HCPK4	—	1
CS25-4-4/0	4/0	150BKB	HCPK4	—	1
CS25-4-250K	250	200BKB	HCPK4	—	1
CS25-4-300K	300	200BKB	HCPK4	—	1
CS25-4-350K	350	250BKB	HCPK4	—	1
CS25-4-500K	500	250BKB	HCPK4	—	1

Use Mold Sealing Compound (MSC) to ensure effective sealing.

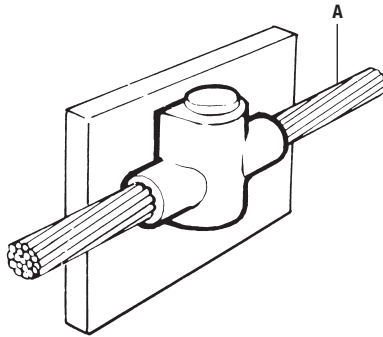
CS25 – For Pipes

CAT. NO.	WIRE SIZE (A)	PIPE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS25-4-#4C	#4	1½" to 2¼"	65BKB	HCPK4	—	1
CS25-4-#4D		2¼" to 6½"	65BKB	HCPK4	—	1
CS25-4-#4F		6½" to 10"	65BKB	HCPK4	—	1
CS25-4-#4G		10" to 14"	65BKB	HCPK4	—	1
CS25-4-#2SC	#2 solid	1½" to 2¼"	65BKB	HCPK4	—	1
CS25-4-#2SD		2¼" to 6½"	65BKB	HCPK4	—	1
CS25-4-#2SF		6½" to 10"	65BKB	HCPK4	—	1
CS25-4-#2SG		10" to 14"	65BKB	HCPK4	—	1
CS25-4-#2C	#2	1½" to 2¼"	65BKB	HCPK4	—	1
CS25-4-#2D		2¼" to 6½"	65BKB	HCPK4	—	1
CS25-4-#2F		6½" to 10"	65BKB	HCPK4	—	1
CS25-4-#2G		10" to 14"	65BKB	HCPK4	—	1
CS25-4-#1C	#1	1½" to 2¼"	90BKB	HCPK4	—	1
CS25-4-#1D		2¼" to 6½"	90BKB	HCPK4	—	1
CS25-4-#1F		6½" to 10"	90BKB	HCPK4	—	1
CS25-4-#1G		10" to 14"	90BKB	HCPK4	—	1
CS25-4-1/0C	1/0	1½" to 2¼"	90BKB	HCPK4	—	1
CS25-4-1/0D		2¼" to 6½"	90BKB	HCPK4	—	1
CS25-4-1/0F		6½" to 10"	90BKB	HCPK4	—	1
CS25-4-1/0G		10" to 14"	90BKB	HCPK4	—	1
CS25-4-2/0C	2/0	1½" to 2¼"	150BKB	HCPK4	—	1
CS25-4-2/0D		2¼" to 6½"	150BKB	HCPK4	—	1
CS25-4-2/0F		6½" to 10"	150BKB	HCPK4	—	1
CS25-4-2/0G		10" to 14"	150BKB	HCPK4	—	1
CS25-4-3/0C	3/0	1½" to 2¼"	200BKB	HCPK4	—	1
CS25-4-3/0D		2¼" to 6½"	200BKB	HCPK4	—	1
CS25-4-3/0F		6½" to 10"	200BKB	HCPK4	—	1
CS25-4-3/0G		10" to 14"	200BKB	HCPK4	—	1
CS25-4-4/0C	4/0	1½" to 2¼"	200BKB	HCPK4	—	1
CS25-4-4/0D		2¼" to 6½"	200BKB	HCPK4	—	1
CS25-4-4/0F		6½" to 10"	200BKB	HCPK4	—	1
CS25-4-4/0G		10" to 14"	200BKB	HCPK4	—	1

OVER 14" USE CS7 FOR FLAT SURFACE

Use Mold Sealing Compound (MSC) to ensure effective sealing.

Cable to Steel Surface and Pipe

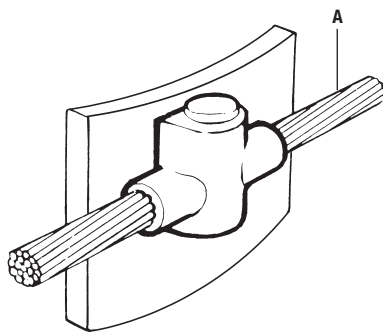


- Stranded Conductor
- Solid Circular Conductor

CS27 – For Flat Surfaces

CAT. NO.	WIRE SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS27-4-#6	#6	45BKB	HCPK4	SLEEVE:#6	1
CS27-4-#4	#4	45BKB	HCPK4	—	1
CS27-4-#2S	#2 solid	45BKB	HCPK4	—	1
CS27-4-#2	#2	45BKB	HCPK4	—	1
CS27-4-#1	#1	65BKB	HCPK4	—	1
CS27-4-1/0	1/0	115BKB	HCPK4	—	1
CS27-4-2/0	2/0	115BKB	HCPK4	—	1
CS27-4-3/0	3/0	150BKB	HCPK4	—	1
CS27-4-4/0	4/0	150BKB	HCPK4	—	1
CS27-4-250K	250	150BKB	HCPK4	—	1

Use Mold Sealing Compound (MSC) to ensure effective sealing.



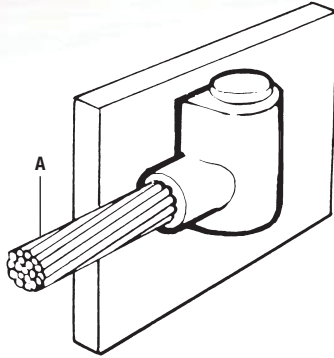
- Stranded Conductor
- Solid Circular Conductor

CS27 – For Pipes

CAT. NO.	WIRE SIZE (A)	PIPE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS27-4-#4C	#4	1½" to 2¼"	45BKB	HCPK4	—	1
CS27-4-#4D		2¾" to 6½"	45BKB	HCPK4	—	1
CS27-4-#4F		6½" to 10"	45BKB	HCPK4	—	1
CS27-4-#4G		10" to 14"	45BKB	HCPK4	—	1
CS27-4-#2SC	#2 solid	1½" to 2¼"	45BKB	HCPK4	—	1
CS27-4-#2SD		2¾" to 6½"	45BKB	HCPK4	—	1
CS27-4-#2SF		6½" to 10"	45BKB	HCPK4	—	1
CS27-4-#2SG		10" to 14"	45BKB	HCPK4	—	1
CS27-4-#2C	#2	1½" to 2¼"	45BKB	HCPK4	—	1
CS27-4-#2D		2¾" to 6½"	45BKB	HCPK4	—	1
CS27-4-#2F		6½" to 10"	45BKB	HCPK4	—	1
CS27-4-#2G		10" to 14"	45BKB	HCPK4	—	1
CS27-4-#1C	#1	1½" to 2¼"	65BKB	HCPK4	—	1
CS27-4-#1D		2¾" to 6½"	65BKB	HCPK4	—	1
CS27-4-#1F		6½" to 10"	65BKB	HCPK4	—	1
CS27-4-#1G		10" to 14"	65BKB	HCPK4	—	1
CS27-4-110C	1/0	1½" to 2¼"	115BKB	HCPK4	—	1
CS27-4-110D		2¾" to 6½"	115BKB	HCPK4	—	1
CS27-4-110F		6½" to 10"	115BKB	HCPK4	—	1
CS27-4-110G		10" to 14"	115BKB	HCPK4	—	1
CS27-4-210C	2/0	1½" to 2¼"	115BKB	HCPK4	—	1
CS27-4-210D		2¾" to 6½"	115BKB	HCPK4	—	1
CS27-4-210F		6½" to 10"	115BKB	HCPK4	—	1
CS27-4-210G		10" to 14"	115BKB	HCPK4	—	1
CS27-4-310C	3/0	1½" to 2¼"	150BKB	HCPK4	—	1
CS27-4-310D		2¾" to 6½"	150BKB	HCPK4	—	1
CS27-4-310F		6½" to 10"	150BKB	HCPK4	—	1
CS27-4-310G		10" to 14"	150BKB	HCPK4	—	1
CS27-4-410C	4/0	1½" to 2¼"	150BKB	HCPK4	—	1
CS27-4-410D		2¾" to 6½"	150BKB	HCPK4	—	1
CS27-4-410F		6½" to 10"	150BKB	HCPK4	—	1
CS27-4-410G		10" to 14"	150BKB	HCPK4	—	1

OVER 14" USE CS7 FOR FLAT SURFACE

Use Mold Sealing Compound (MSC) to ensure effective sealing.

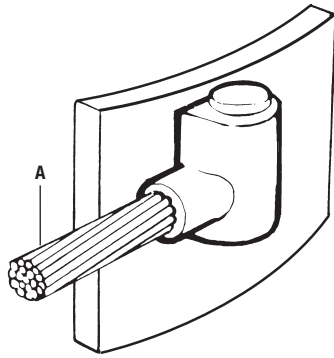


- Stranded Conductor
- Solid Circular Conductor

CS31 – For Flat Surfaces

CAT. NO.	WIRE SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS31-4-#6	#6	45BKB	HCPK4	SLEEVE#6	1
CS31-4-#4	#4	45BKB	HCPK4	—	1
CS31-4-#2S	#2 solid	45BKB	HCPK4	—	1
CS31-4-#2	#2	45BKB	HCPK4	—	1
CS31-4-#1	#1	65BKB	HCPK4	—	1
CS31-4-1/0	1/0	90BKB	HCPK4	—	1
CS31-4-2/0	2/0	90BKB	HCPK4	—	1
CS31-4-3/0	3/0	115BKB	HCPK4	—	1
CS31-4-4/0	4/0	115BKB	HCPK4	—	1
CS31-4-250K	250	115BKB	HCPK4	—	1
CS31-4-300K	300	150BKB	HCPK4	—	1
CS31-4-350K	350	200BKB	HCPK4	—	1
CS31-4-500K	500	200BKB	HCPK4	—	1

Add "R" or "L" to denote wire exiting left or right. (Example: CS31-6-#6R for #6 wire exiting on the right.)
Use Mold Sealing Compound (MSC) to ensure effective sealing.



- Stranded Conductor
- Solid Circular Conductor

CS31 – For Pipes

CAT. NO.	WIRE SIZE (A)	PIPE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS31-4-#4C	#4	1 1/2" to 2 3/4"	45BKB	HCPK4	—	1
CS31-4-#4D		2 3/4" to 6 1/2"	45BKB	HCPK4	—	1
CS31-4-#4F		6 1/2" to 10"	45BKB	HCPK4	—	1
CS31-4-#4G		10" to 14"	45BKB	HCPK4	—	1
CS31-4-#2SC	#2 solid	1 1/2" to 2 3/4"	45BKB	HCPK4	—	1
CS31-4-#2SD		2 3/4" to 6 1/2"	45BKB	HCPK4	—	1
CS31-4-#2SF		6 1/2" to 10"	45BKB	HCPK4	—	1
CS31-4-#2SG		10" to 14"	45BKB	HCPK4	—	1
CS31-4-#2C	#2	1 1/2" to 2 3/4"	45BKB	HCPK4	—	1
CS31-4-#2D		2 3/4" to 6 1/2"	45BKB	HCPK4	—	1
CS31-4-#2F		6 1/2" to 10"	45BKB	HCPK4	—	1
CS31-4-#2G		10" to 14"	45BKB	HCPK4	—	1
CS31-4-#1C	#1	1 1/2" to 2 3/4"	65BKB	HCPK4	—	1
CS31-4-#1D		2 3/4" to 6 1/2"	65BKB	HCPK4	—	1
CS31-4-#1F		6 1/2" to 10"	65BKB	HCPK4	—	1
CS31-4-#1G		10" to 14"	65BKB	HCPK4	—	1
CS31-4-1/0C	1/0	1 1/2" to 2 3/4"	90BKB	HCPK4	—	1
CS31-4-1/0D		2 3/4" to 6 1/2"	90BKB	HCPK4	—	1
CS31-4-1/0F		6 1/2" to 10"	90BKB	HCPK4	—	1
CS31-4-1/0G		10" to 14"	90BKB	HCPK4	—	1
CS31-4-2/0C	2/0	1 1/2" to 2 3/4"	90BKB	HCPK4	—	1
CS31-4-2/0D		2 3/4" to 6 1/2"	90BKB	HCPK4	—	1
CS31-4-2/0F		6 1/2" to 10"	90BKB	HCPK4	—	1
CS31-4-2/0G		10" to 14"	90BKB	HCPK4	—	1
CS31-4-3/0C	3/0	1 1/2" to 2 3/4"	115BKB	HCPK4	—	1
CS31-4-3/0D		2 3/4" to 6 1/2"	115BKB	HCPK4	—	1
CS31-4-3/0F		6 1/2" to 10"	115BKB	HCPK4	—	1
CS31-4-3/0G		10" to 14"	115BKB	HCPK4	—	1
CS31-4-4/0C	4/0	1 1/2" to 2 3/4"	115BKB	HCPK4	—	1
CS31-4-4/0D		2 3/4" to 6 1/2"	115BKB	HCPK4	—	1
CS31-4-4/0F		6 1/2" to 10"	115BKB	HCPK4	—	1
CS31-4-4/0G		10" to 14"	115BKB	HCPK4	—	1

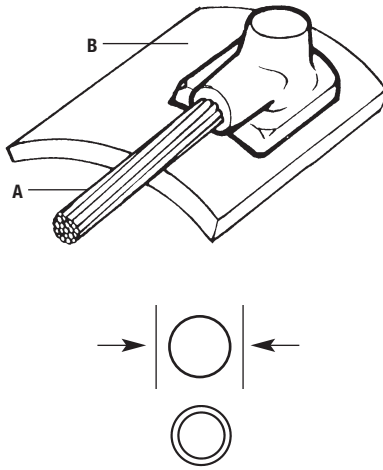
OVER 14" USE CS31 FOR FLAT SURFACE

Add "R" or "L" to denote wire exiting left or right. (Example: CS31-6-#6R for #6 wire exiting on the right.)
Use Mold Sealing Compound (MSC) to ensure effective sealing.

Cable to Steel Surface and Pipe



CS32 – For Pipes



- Stranded Conductor

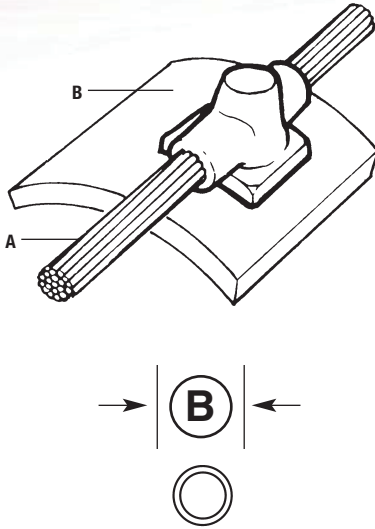
CAT. NO.	WIRE SIZE (A)	PIPE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS32-2-#4C	#4	1½" to 2¾"	45BKB	HCPK2	—	1
CS32-2-#4D		2¾" to 6½"	45BKB	HCPK2	—	1
CS32-2-#4F		6½" to 10"	45BKB	HCPK2	—	1
CS32-2-#4G		10" to 14"	45BKB	HCPK2	—	1
CS32-2-#2SC	#2 solid	1½" to 2¾"	45BKB	HCPK2	—	1
CS32-2-#2SD		2¾" to 6½"	45BKB	HCPK2	—	1
CS32-2-#2SF		6½" to 10"	45BKB	HCPK2	—	1
CS32-2-#2SG		10" to 14"	45BKB	HCPK2	—	1
CS32-2-#2C	#2	1½" to 2¾"	45BKB	HCPK2	—	1
CS32-2-#2D		2¾" to 6½"	45BKB	HCPK2	—	1
CS32-2-#2F		6½" to 10"	45BKB	HCPK2	—	1
CS32-2-#2G		10" to 14"	45BKB	HCPK2	—	1
CS32-2-#1D	#1	2¾" to 6½"	65BKB	HCPK2	—	1
CS32-2-#1F		6½" to 10"	65BKB	HCPK2	—	1
CS32-2-#1G		10" to 14"	65BKB	HCPK2	—	1

OVER 14" USE CS8 FOR FLAT SURFACE

CS32-4-#1/OD	1/0	2¾" to 6½"	90BKB	HCPK4	—	1
CS32-4-#1/OF		6½" to 10"	90BKB	HCPK4	—	1
CS32-4-#1/OG		10" to 14"	90BKB	HCPK4	—	1
CS32-4-#2/OD	2/0	2¾" to 6½"	90BKB	HCPK4	—	1
CS32-4-#2/OF		6½" to 10"	90BKB	HCPK4	—	1
CS32-4-#2/OG		10" to 14"	90BKB	HCPK4	—	1
CS32-4-#3/OD	3/0	2¾" to 6½"	90BKB	HCPK4	—	1
CS32-4-#3/OF		6½" to 10"	90BKB	HCPK4	—	1
CS32-4-#3/OG		10" to 14"	90BKB	HCPK4	—	1
CS32-4-#4/OD	4/0	2¾" to 6½"	90BKB	HCPK4	—	1
CS32-4-#4/OF		6½" to 10"	90BKB	HCPK4	—	1
CS32-4-#4/OG		10" to 14"	90BKB	HCPK4	—	1

OVER 14" USE CS1 FOR FLAT SURFACE

Add "R" or "L" to denote wire exiting left or right. (Example: CS31-6-#6R for #6 wire exiting on the right.)
Use Mold Sealing Compound (MSC) to ensure effective sealing.



- Stranded Conductor

CS34 – For Pipes

CAT. NO.	WIRE SIZE (A)	PIPE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CS34-2-#4C	#4	1½" to 2¾"	45BKB	HCPK2	—	1
CS34-2-#4D		2¾" to 6½"	45BKB	HCPK2	—	1
CS34-2-#4F		6½" to 10"	45BKB	HCPK2	—	1
CS34-2-#4G		10" to 14"	45BKB	HCPK2	—	1
CS34-2-#2SC	#2S	1½" to 2¾"	45BKB	HCPK2	—	1
CS34-2-#2SD		2¾" to 6½"	45BKB	HCPK2	—	1
CS34-2-#2SF		6½" to 10"	45BKB	HCPK2	—	1
CS34-2-#2SG		10" to 14"	45BKB	HCPK2	—	1
CS34-2-#2C	#2	1½" to 2¾"	45BKB	HCPK2	—	1
CS34-2-#2D		2¾" to 6½"	45BKB	HCPK2	—	1
CS34-2-#2F		6½" to 10"	45BKB	HCPK2	—	1
CS34-2-#2G		10" to 14"	45BKB	HCPK2	—	1
CS34-2-#1D	#1	2¾" to 6½"	65BKB	HCPK2	—	1
CS34-2-#1F		6½" to 10"	65BKB	HCPK2	—	1
CS34-2-#1G		10" to 14"	65BKB	HCPK2	—	1

OVER 14" USE CS8 FOR FLAT SURFACE

CS34-4-#1/OD	1/0	2¾" to 6½"	90BKB	HCPK4	—	1
CS34-4-#1/OF		6½" to 10"	90BKB	HCPK4	—	1
CS34-4-#1/OG		10" to 14"	90BKB	HCPK4	—	1
CS34-4-#2/OD	2/0	2¾" to 6½"	115BKB	HCPK4	—	1
CS34-4-#2/OF		6½" to 10"	115BKB	HCPK4	—	1
CS34-4-#2/OG		10" to 14"	115BKB	HCPK4	—	1
CS34-4-#3/OD	3/0	2¾" to 6½"	115BKB	HCPK4	—	1
CS34-4-#3/OF		6½" to 10"	115BKB	HCPK4	—	1
CS34-4-#3/OG		10" to 14"	115BKB	HCPK4	—	1
CS34-4-#4/OD	4/0	2¾" to 6½"	150BKB	HCPK4	—	1
CS34-4-#4/OF		6½" to 10"	150BKB	HCPK4	—	1
CS34-4-#4/OG		10" to 14"	150BKB	HCPK4	—	1

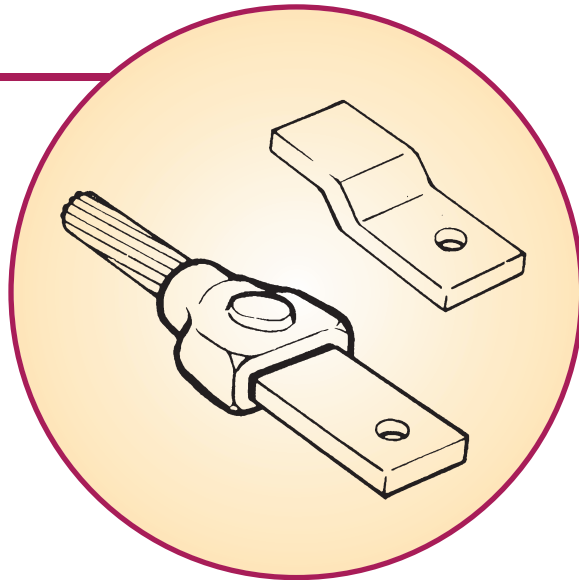
OVER 14" USE CS1 FOR FLAT SURFACE

Use Mold Sealing Compound (MSC) to ensure effective sealing.



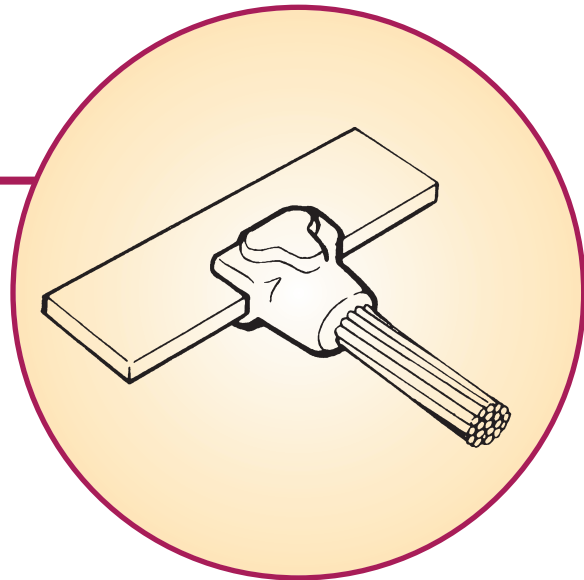
CB1

See Page C-122



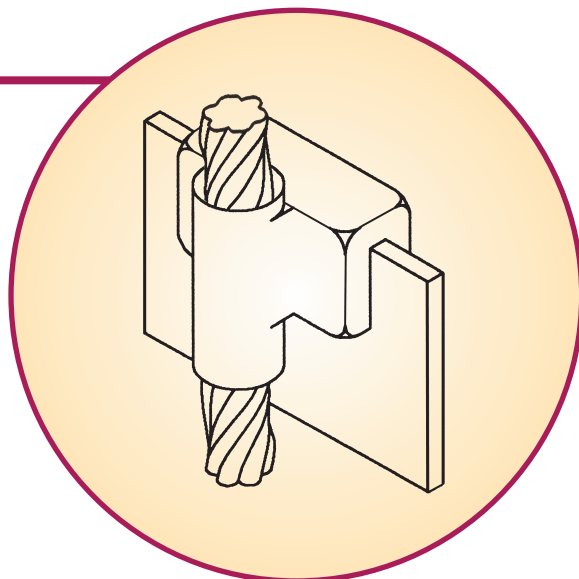
CB4

See Page C-123



CB29

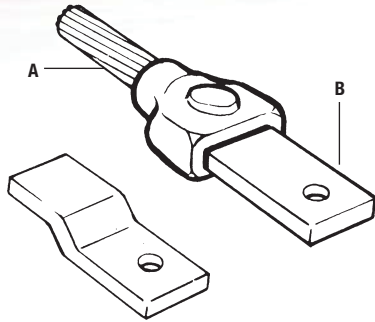
See Page C-124



Blackburn®

Cable to Bar

Blackburn Exothermic Welding System



- Stranded Conductor
- Solid Circular Conductor
- Rectangular Tape or Bar

CB1 – For Pipes

CAT. NO.	WIRE SIZE (A)	BAR SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CB1-4-#4181	#4	¼" X 1"	45BKB	HCPK4	—	1
CB1-4-#2181	#2 solid	¼" X 1"	45BKB	HCPK4	—	1
CB1-4-#2181	#2	¼" X 1"	45BKB	HCPK4	—	1
CB1-4-#1181	#1	¼" X 1"	45BKB	HCPK4	—	1
CB1-4-1/0181	1/0	¼" X 1"	45BKB	HCPK4	—	1
CB1-4-1/03161		⅜" X 1"	65BKB	HCPK4	—	1
CB1-4-1/0141		¼" X 1"	65BKB	HCPK4	—	1
CB1-4-2/0181	2/0	¼" X 1"	65BKB	HCPK4	—	1
CB1-4-2/03161		⅜" X 1"	65BKB	HCPK4	—	1
CB1-4-2/0141		¼" X 1"	65BKB	HCPK4	—	1
CB1-4-3/018	3/0	¼" X 1"	65BKB	HCPK4	—	1
CB1-4-3/0161		⅜" X 1"	90BKB	HCPK4	—	1
CB1-4-3/0141		¼" X 1"	90BKB	HCPK4	—	1
CB1-4-4/03161	4/0	⅜" X 1"	90BKB	HCPK4	—	1
CB1-4-4/0141		¼" X 1"	90BKB	HCPK4	—	1
CB1-4-4/014112		¼" X 1½"	90BKB	HCPK4	—	1
CB1-4-4/0142		¼" X 2"	90BKB	HCPK4	—	1
CB1-4-4/0143		¼" X 3"	90BKB	HCPK4	—	1
CB1-4-250K3161	250	⅜" X 1"	90BKB	HCPK4	—	1
CB1-4-250K141		¼" X 1"	90BKB	HCPK4	—	1
CB1-4-250K14112		¼" X 1½"	90BKB	HCPK4	—	1
CB1-4-250K142		¼" X 2"	90BKB	HCPK4	—	1
CB1-4-250K143		¼" X 3"	90BKB	HCPK4	—	1
CB1-4-300K141	300	¼" X 1"	90BKB	HCPK4	—	1
CB1-4-300K14112		¼" X 1½"	90BKB	HCPK4	—	1
CB1-4-300K142		¼" X 2"	90BKB	HCPK4	—	1
CB1-4-300K143		¼" X 3"	90BKB	HCPK4	—	1
CB1-4-350K141	350	¼" X 1"	115BKB	HCPK4	—	1
CB1-4-350K14112		¼" X 1½"	115BKB	HCPK4	—	1
CB1-4-350K142		¼" X 2"	115BKB	HCPK4	—	1
CB1-4-350K143		¼" X 3"	115BKB	HCPK4	—	1
CB1-4-500K14112	500	¼" X 1½"	200BKB	HCPK4	—	1
CB1-4-500K142		¼" X 2"	200BKB	HCPK4	—	1
CB1-4-500K143		¼" X 3"	200BKB	HCPK4	—	1
CB1-4-500K38112		⅜" X 1½"	200BKB	HCPK4	—	1
CB1-5-750K142	750	¼" X 2"	2 X 150BKB	HCPK5	—	1
CB1-5-750K143		¼" X 3"	2 X 150BKB	HCPK5	—	1
CB1-5-750K38112		⅜" X 1½"	2 X 150BKB	HCPK5	—	1
CB1-5-750K382		⅜" X 2"	2 X 150BKB	HCPK5	—	1
CB1-5-750K383		⅜" X 3"	2 X 150BKB	HCPK5	—	1
CB1-5-1000K143	1000	¼" X 3"	2 X 200BKB	HCPK5	—	1
CB1-5-1000K382		⅜" X 2"	2 X 200BKB	HCPK5	—	1
CB1-5-1000K383		⅜" X 3"	2 X 200BKB	HCPK5	—	1
CB1-5-1000K122		½" X 2"	2 X 200BKB	HCPK5	—	1
CB1-5-1000K123		½" X 3"	2 X 200BKB	HCPK5	—	1

Thomas & Betts

C-122

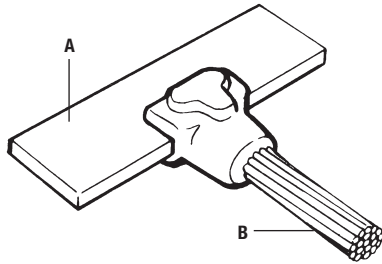
www.tnb.com

United States
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

Technical Services
Tel: 888.862.3289



CB4 – For Flat Surfaces



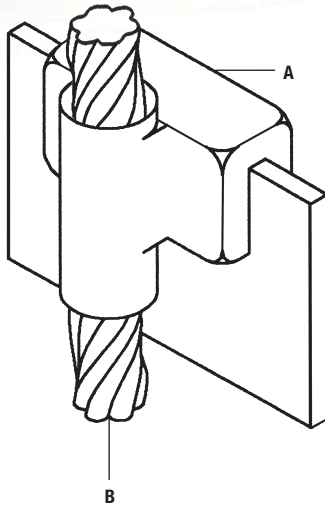
- Stranded Conductor
- Solid Circular Conductor
- Rectangular Tape or Bar

CAT. NO.	BAR SIZE (A)	WIRE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CB4-4-#2S14112	3/8" X 1 1/2" and wider	#2 solid	45BKB	HCPK4	—	1
CB4-4-214112		#2	45BKB	HCPK4	—	1
CB4-4-1/014112		1/0	90BKB	HCPK4	—	1
CB4-4-2/014112		2/0	90BKB	HCPK4	—	1
CB4-4-3/014112		3/0	90BKB	HCPK4	—	1
CB4-4-4/014112		4/0	90BKB	HCPK4	—	1
CB4-4-250K14112		250	115BKB	HCPK4	—	1
CB4-4-300K14112		300	115BKB	HCPK4	—	1
CB4-4-350K14112		350	150BKB	HCPK4	—	1
CB4-4-500K1411		500	200BKB	HCPK4	—	1
CB4-4-#2S38112	3/8" X 1 1/2" and wider	#2 solid	65BKB	HCPK4	—	1
CB4-4-#238112		#2	65BKB	HCPK4	—	1
CB4-4-1/038112		1/0	90BKB	HCPK4	—	1
CB4-4-2/038112		2/0	90BKB	HCPK4	—	1
CB4-4-4/038112		4/0	115BKB	HCPK4	—	1
CB4-4-250K38112		250	150BKB	HCPK4	—	1
CB4-4-300K38112		300	150BKB	HCPK4	—	1
CB4-4-350K38112		350	200BKB	HCPK4	—	1
CB4-4-500K38112		500	250BKB	HCPK4	—	1
CB4-5-750K38112		750	2 X 150BKB	HCPK5	—	1
CB4-5-1000K38112		1000	2 X 200BKB	HCPK5	—	1
CB4-4-#2S12112	3/8" X 1 1/2" and wider	#2 solid	90BKB	HCPK4	—	1
CB4-4-#212112		#2	90BKB	HCPK4	—	1
CB4-4-1/012112		1/0	115BKB	HCPK4	—	1
CB4-4-2/012112		2/0	115BKB	HCPK4	—	1
CB4-4-3/012112		3/0	150BKB	HCPK4	—	1
CB4-4-4/012112		4/0	150BKB	HCPK4	—	1
CB4-4-250K12112		250	200BKB	HCPK4	—	1
CB4-4-300K12112		300	200BKB	HCPK4	—	1
CB4-4-350K12112		350	250BKB	HCPK4	—	1
CB4-5-500K12112		500	2 X 150BKB	HCPK5	—	1
CB4-5-750K12112		750	2 X 200BKB	HCPK5	—	1
CB4-5-1000K12112		1000	2 X 250BKB	HCPK5	—	1

Blackburn®

Cable to Bar

Blackburn Exothermic Welding System



CB29 – For Flat Surfaces

CAT. NO.	BAR SIZE (A)	WIRE SIZE (B)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
CB29-9-#2S142	¼" X 2" and wider	#2 solid	250BKB	HCPK4	—	1
CB29-9-#2142		#2	250BKB	HCPK4	—	1
CB29-10-#1142		#1	2 X 150BKB	HCPK5	—	1
CB29-10-1/0142		1/0	2 X 200BKB	HCPK5	—	1
CB29-10-2/0142		2/0	2 X 200BKB	HCPK5	—	1
CB29-10-4/0142		4/0	2 X 250BKB	HCPK5	—	1
CB29-10-250K142		250	2 X 250BKB	HCPK5	—	1
CB29-10-500K142		500	2 X 250BKB	HCPK5	—	1
CB29-10-750K142		750	3 X 200BKB	HCPK5	—	1
CB29-9-#2S382	¾" X 2" and wider	#2 solid	250BKB	HCPK4	—	1
CB29-9-#2382		#2 solid	250BKB	HCPK4	—	1
CB29-10-#1382		#1	2 X 150BKB	HCPK5	—	1
CB29-10-1/0382		1/0	2 X 200BKB	HCPK5	—	1
CB29-102/0382		2/0	2 X 200BKB	HCPK5	—	1
CB29-104/0382		4/0	2 X 250BKB	HCPK5	—	1
CB29-10-250K382		250	2 X 250BKB	HCPK5	—	1
CB29-10-500K382		500	2 X 250BKB	HCPK5	—	1
CB29-10-750K382		750	3 X 200BKB	HCPK5	—	1
CB29-10-#2S122	½" X 2" and wider	#2 solid	2 X 150BKB	HCPK5	—	1
CB29-10-#2122		#2	2 X 150BKB	HCPK5	—	1
CB29-10-#1122		#1	2 X 200BKB	HCPK5	—	1
CB29-10-1/0122		1/0	2 X 250BKB	HCPK5	—	1
CB29-10-2/0122		2/0	2 X 250BKB	HCPK5	—	1
CB29-10-4/0122		4/0	3 X 200BKB	HCPK5	—	1
CB29-10-250K122		250	3 X 200BKB	HCPK5	—	1
CB29-10-500K122		500	3 X 200BKB	HCPK5	—	1
CB29-10-750K		750	3 X 250BKB	HCPK5	—	1

Use Mold Sealing Compound (MSC) to ensure effective sealing.

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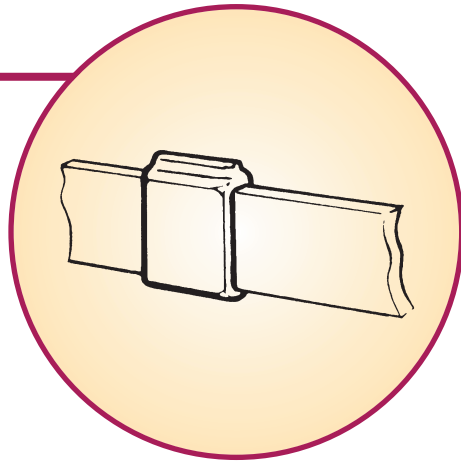
United States
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

Technical Services
Tel: 888.862.3289



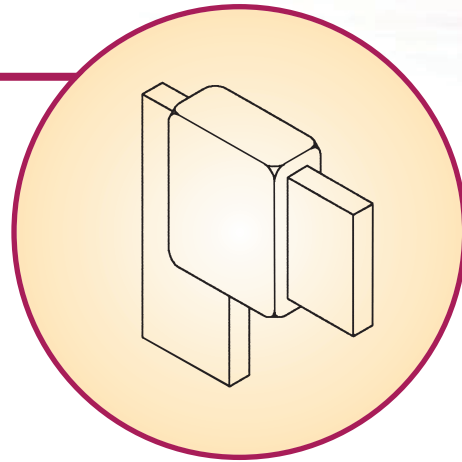
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See Page C-126



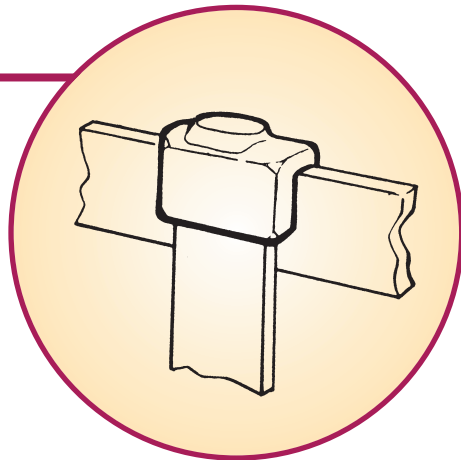
BB2

See Page C-126



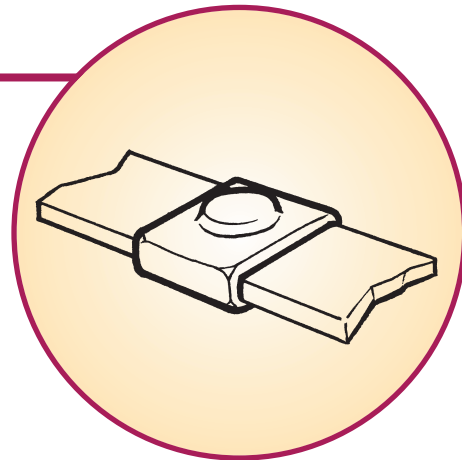
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See Page C-127



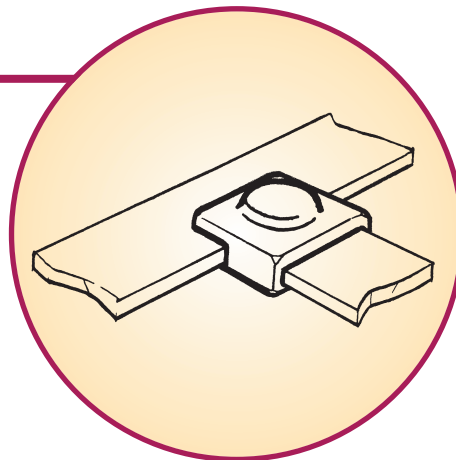
BB7

See Page C-127



BB14

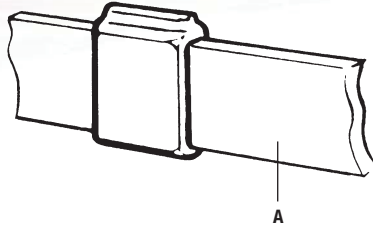
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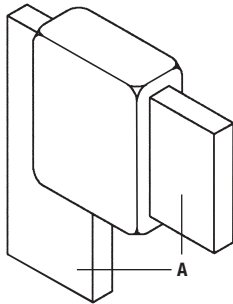
Bar to Bar

Blackburn Exothermic Welding System



BB1 – For Flat Surfaces

CAT. NO.	BAR SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
BB1-4-181	1/8" X 1"	45BKB	HCPK4	—	1
BB1-4-18112	1/8" X 1 1/2"	65BKB	HCPK4	—	1
BB1-4-182	1/8" X 2"	90BKB	HCPK4	—	1
BB1-4-183	1/8" X 3"	200BKB	HCPK4	—	1
BB1-4-184	1/8" X 4"	250BKB	HCPK4	—	1
BB1-4-3161	3/16" X 1"	65BKB	HCPK4	—	1
BB1-4-3162	3/16" X 2"	115BKB	HCPK4	—	1
BB1-4-141	1/4" X 1"	90BKB	HCPK4	—	1
BB1-4-14114	1/4" X 1 1/4"	115BKB	HCPK4	—	1
BB1-4-14112	1/4" X 1 1/2"	150BKB	HCPK4	—	1
BB1-4-142	1/4" X 2"	200BKB	HCPK4	—	1
BB1-4-14212	1/4" X 2 1/2"	250BKB	HCPK4	—	1
BB1-5-143	1/4" X 3"	2 X 200BKB	HCPK5	—	1
BB1-5-144	1/4" X 4"	2 X 250BKB	HCPK5	—	1
BB1-4-381	3/8" X 1"	150BKB	HCPK5	—	1
BB1-4-38112	3/8" X 1 1/2"	250BKB	HCPK4	—	1
BB1-5-382	3/8" X 2"	2 X 150BKB	HCPK5	—	1
BB1-5-383	3/8" X 3"	2 X 250BKB	HCPK5	—	1
BB1-5-384	3/8" X 4"	3 X 200BKB	HCPK5	—	1
BB1-4-121	1/2" X 1"	200BKB	HCPK4	—	1
BB1-5-122	1/2" X 2"	2 X 200BKB	HCPK5	—	1



BB2 – For Flat Surfaces

CAT. NO.	BAR SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
BB2-4-181	1/8" X 1"	45BKB	HCPK4	—	1
BB2-4-18112	1/8" X 1 1/2"	65BKB	HCPK4	—	1
BB2-4-182	1/8" X 2"	90BKB	HCPK4	—	1
BB2-4-183	1/8" X 3"	200BKB	HCPK4	—	1
BB2-4-184	1/8" X 4"	250BKB	HCPK4	—	1
BB2-4-3161	3/16" X 1"	65BKB	HCPK4	—	1
BB2-4-3162	3/16" X 2"	115BKB	HCPK4	—	1
BB2-4-141	1/4" X 1"	90BKB	HCPK4	—	1
BB2-4-14114	1/4" X 1 1/4"	115BKB	HCPK4	—	1
BB2-4-14112	1/4" X 1 1/2"	150BKB	HCPK4	—	1
BB2-4-142	1/4" X 2"	200BKB	HCPK4	—	1
BB2-4-14212	1/4" X 2 1/2"	250BKB	HCPK4	—	1
BB2-5-143	1/4" X 3"	2 X 200BKB	HCPK5	—	1
BB2-5-144	1/4" X 4"	2 X 250BKB	HCPK5	—	1
BB2-4-381	3/8" X 1"	150BKB	HCPK5	—	1
BB2-4-38112	3/8" X 1 1/2"	250BKB	HCPK4	—	1
BB2-5-382	3/8" X 2"	2 X 150BKB	HCPK5	—	1
BB2-5-383	3/8" X 3"	2 X 250BKB	HCPK5	—	1
BB2-5-384	3/8" X 4"	3 X 200BKB	HCPK5	—	1
BB2-4-121	1/2" X 1"	200BKB	HCPK4	—	1
BB2-5-122	1/2" X 2"	2 X 200BKB	HCPK5	—	1

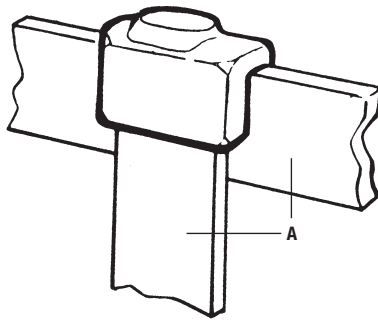
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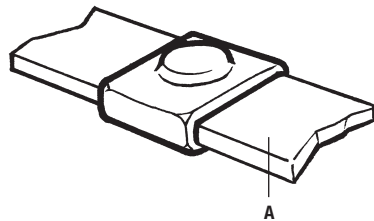
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800.816.7809
Fax: 901.252.1354

Technical Services
Tel: 888.862.3289



BB3 – For Flat Surfaces

CAT. NO.	BAR SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
BB3-4-181	1/8" X 1"	45BKB	HCPK4	—	1
BB3-4-18112	1/8" X 1 1/2"	65BKB	HCPK4	—	1
BB3-4-182	1/8" X 2"	90BKB	HCPK4	—	1
BB3-4-183	1/8" X 3"	200BKB	HCPK4	—	1
BB3-4-184	1/8" X 4"	250BKB	HCPK4	—	1
BB3-4-3161	3/16" X 1"	65BKB	HCPK4	—	1
BB3-4-3162	3/16" X 2"	115BKB	HCPK4	—	1
BB3-4-141	1/4" X 1"	90BKB	HCPK4	—	1
BB3-4-14114	1/4" X 1 1/4"	115BKB	HCPK4	—	1
BB3-4-14112	1/4" X 1 1/2"	150BKB	HCPK4	—	1
BB3-4-142	1/4" X 2"	200BKB	HCPK4	—	1
BB3-4-14212	1/4" X 2 1/2"	250BKB	HCPK4	—	1
BB3-5-143	1/4" X 3"	2 X 200BKB	HCPK5	—	1
BB3-5-144	1/4" X 4"	2 X 250BKB	HCPK5	—	1
BB3-4-381	3/8" X 1"	150BKB	HCPK5	—	1
BB3-4-38112	3/8" X 1 1/2"	250BKB	HCPK4	—	1
BB3-5-382	3/8" X 2"	2 X 150BKB	HCPK5	—	1
BB3-5-383	3/8" X 3"	2 X 250BKB	HCPK5	—	1
BB3-5-384	3/8" X 4"	3 X 200BKB	HCPK5	—	1
BB3-4-121	1/2" X 1"	200BKB	HCPK4	—	1
BB3-5-122	1/2" X 2"	2 X 200BKB	HCPK5	—	1

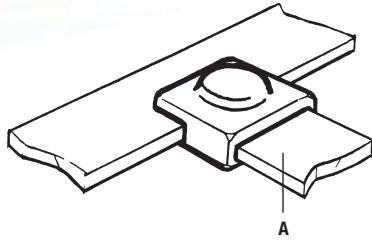


BB7 – For Flat Surfaces

CAT. NO.	BAR SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
BB7-4-181	1/8" X 1"	45BKB	HCPK4	—	1
BB7-4-18112	1/8" X 1 1/2"	65BKB	HCPK4	—	1
BB7-4-182	1/8" X 2"	90BKB	HCPK4	—	1
BB7-4-183	1/8" X 3"	200BKB	HCPK4	—	1
BB7-4-184	1/8" X 4"	250BKB	HCPK4	—	1
BB7-4-3161	3/16" X 1"	65BKB	HCPK4	—	1
BB7-4-3162	3/16" X 2"	115BKB	HCPK4	—	1
BB7-4-141	1/4" X 1"	90BKB	HCPK4	—	1
BB7-4-14114	1/4" X 1 1/4"	115BKB	HCPK4	—	1
BB7-4-14112	1/4" X 1 1/2"	150BKB	HCPK4	—	1
BB7-4-142	1/4" X 2"	200BKB	HCPK4	—	1
BB7-4-14212	1/4" X 2 1/2"	250BKB	HCPK4	—	1
BB7-5-143	1/4" X 3"	2 X 200BKB	HCPK5	—	1
BB7-5-144	1/4" X 4"	2 X 250BKB	HCPK5	—	1
BB7-4-381	3/8" X 1"	150BKB	HCPK5	—	1
BB7-4-38112	3/8" X 1 1/2"	250BKB	HCPK4	—	1
BB7-5-382	3/8" X 2"	2 X 150BKB	HCPK5	—	1
BB7-5-383	3/8" X 3"	2 X 250BKB	HCPK5	—	1
BB7-5-384	3/8" X 4"	3 X 200BKB	HCPK5	—	1
BB7-4-121	1/2" X 1"	200BKB	HCPK4	—	1
BB7-5-122	1/2" X 2"	2 X 200BKB	HCPK5	—	1

Blackburn®

Bar to Bar



BB14 – For Flat Surfaces

CAT. NO.	BAR SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
BB14-4-181	1/8" X 1"	45BKB	HCPK4	—	1
BB14-4-18112	1/8" X 1 1/2"	65BKB	HCPK4	—	1
BB14-4-182	1/8" X 2"	90BKB	HCPK4	—	1
BB14-4-183	1/8" X 3"	200BKB	HCPK4	—	1
BB14-4-184	1/8" X 4"	250BKB	HCPK4	—	1
BB14-4-3161	3/16" X 1"	65BKB	HCPK4	—	1
BB14-4-3162	3/16" X 2"	115BKB	HCPK4	—	1
BB14-4-141	1/4" X 1"	90BKB	HCPK4	—	1
BB14-4-14114	1/4" X 1 1/4"	115BKB	HCPK4	—	1
BB14-4-14112	1/4" X 1 1/2"	150BKB	HCPK4	—	1
BB14-4-142	1/4" X 2"	200BKB	HCPK4	—	1
BB14-4-14212	1/4" X 2 1/2"	250BKB	HCPK4	—	1
BB14-5-143	1/4" X 3"	2 X 200BKB	HCPK5	—	1
BB14-5-144	1/4" X 4"	2 X 250BKB	HCPK5	—	1
BB14-4-381	3/8" X 1"	150BKB	HCPK5	—	1
BB14-4-38112	3/8" X 1 1/2"	250BKB	HCPK4	—	1
BB14-5-382	3/8" X 2"	2 X 150BKB	HCPK5	—	1
BB14-5-383	3/8" X 3"	2 X 250BKB	HCPK5	—	1
BB14-5-384	3/8" X 4"	3 X 200BKB	HCPK5	—	1
BB14-4-121	1/2" X 1"	200BKB	HCPK4	—	1
BB14-5-122	1/2" X 2"	2 X 200BKB	HCPK5	—	1

Blackburn Exothermic Welding System

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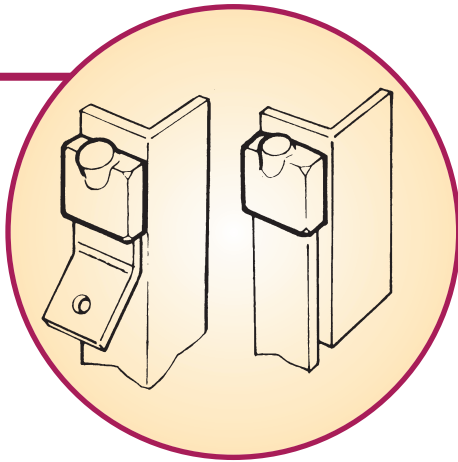
Tel: 888.862.3289

Bar to Steel Surface - Quick Reference



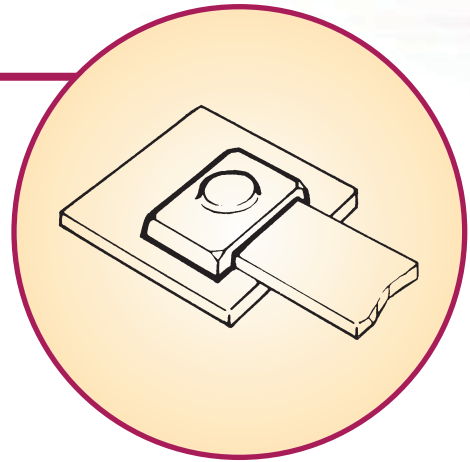
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See Page C-130



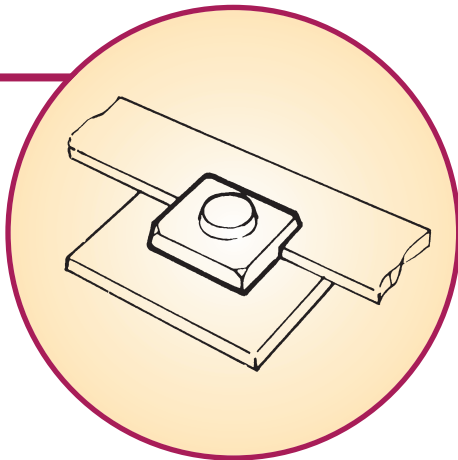
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See Page C-130



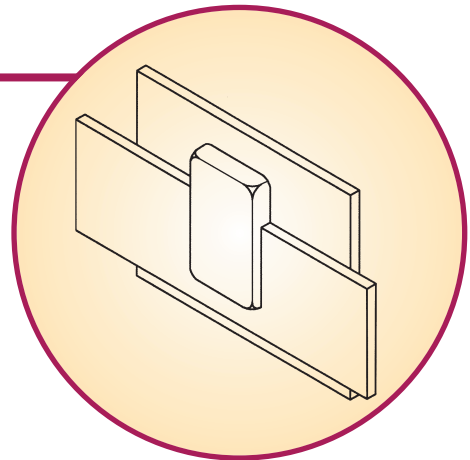
BS3

See Page C-131



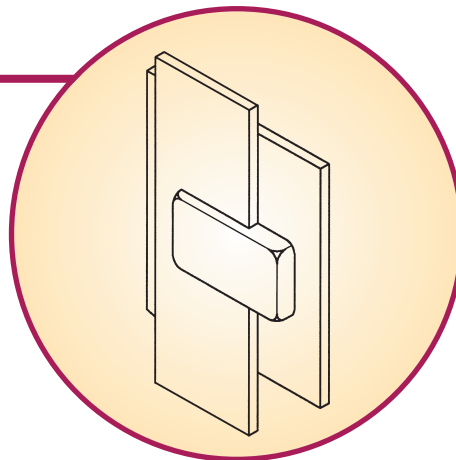
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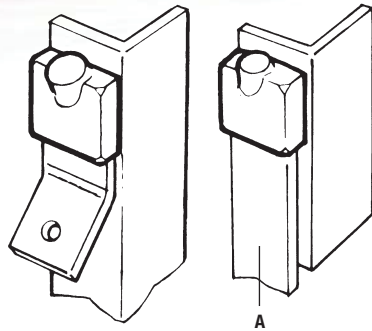
See Page C-131



BS5

See Page C-132



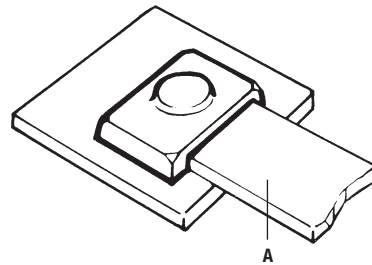


- Rectangular Tape or Bar

BS1 – For Flat Surfaces

CAT. NO.	BAR SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
BS1-4-181	1/8" X 1"	115BKB	HCPK4	4	1
BS1-4-18112	1/8" X 1 1/2"	150BKB	HCPK4	4	1
BS1-4-182	1/8" X 2"	200BKB	HCPK4	4	1
BS1-4-3161	3/16" X 1"	150BKB	HCPK4	4	1
BS1-4-316112	3/16" X 1 1/2"	200BKB	HCPK4	4	1
BS1-4-3162	3/16" X 2"	250BKB	HCPK4	4	1
BS1-4-141	1/4" X 1"	150BKB	HCPK4	4	1
BS1-4-14114	1/4" X 1 1/4"	200BKB	HCPK4	4	1
BS1-4-14112	1/4" X 1 1/2"	250BKB	HCPK4	4	1
BS1-5-142	1/4" X 2"	2 X 150BKB	HCPK4	4	1
BS1-4-381	3/8" X 1"	200BKB	HCPK5	4	1
BS1-4-38112	3/8" X 1 1/2"	250BKB	HCPK4	4	1
BS1-5-382	3/8" X 2"	2 X 200BKB	HCPK5	5	1
BS1-4-121	1/2" X 1"	250BKB	HCPK4	4	1
BS1-5-12112	1/2" X 1 1/2"	2 X 200BKB	HCPK5	5	1
BS1-5-122	1/2" X 2"	2 X 250BKB	HCPK5	5	1

Mold Sealing Compound (MSC) will be required if surface is uneven.

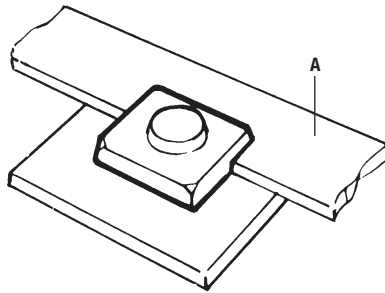


- Rectangular Tape or Bar

BS2 – For Flat Surfaces

CAT. NO.	BAR SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
BS2-4-181	1/8" X 1"	115BKB	HCPK4	—	1
BS2-4-18112	1/8" X 1 1/2"	150BKB	HCPK4	—	1
BS2-4-182	1/8" X 2"	200BKB	HCPK4	—	1
BS2-4-3161	3/16" X 1"	150BKB	HCPK4	—	1
BS2-4-316112	3/16" X 1 1/2"	200BKB	HCPK4	—	1
BS2-4-3162	3/16" X 2"	250BKB	HCPK4	—	1
BS2-4-141	1/4" X 1"	150BKB	HCPK4	—	1
BS2-4-14114	1/4" X 1 1/4"	200BKB	HCPK4	—	1
BS2-4-14112	1/4" X 1 1/2"	250BKB	HCPK4	—	1
BS2-5-142	1/4" X 2"	2 X 150BKB	HCPK4	—	1
BS2-4-381	3/8" X 1"	200BKB	HCPK5	—	1
BS2-4-38112	3/8" X 1 1/2"	250BKB	HCPK4	—	1
BS2-5-382	3/8" X 2"	2 X 200BKB	HCPK5	—	1
BS2-4-121	1/2" X 1"	250BKB	HCPK4	—	1
BS2-5-12112	1/2" X 1 1/2"	2 X 200BKB	HCPK5	—	1
BS2-5-122	1/2" X 2"	2 X 250BKB	HCPK5	—	1

Mold Sealing Compound (MSC) will be required if surface is uneven.



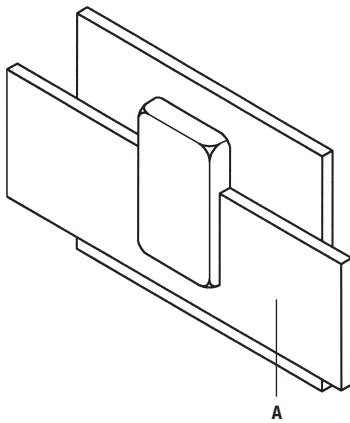
- Rectangular Tape or Bar

BS3 – For Flat Surfaces

CAT. NO.	BAR SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
BS3-4-181	1/8" X 1"	115BKB	HCPK4	—	1
BS3-4-18112	1/8" X 1 1/2" and wider	150BKB	HCPK4	—	1
BS3-4-3161	3/16" X 1"	150BKB	HCPK4	—	1
BS3-4-316112	3/16" X 1 1/2" and wider	200BKB	HCPK4	—	1
BS3-4-141	1/4" X 1"	150BKB	HCPK4	—	1
BS3-4-14114	1/4" X 1 1/4"	200BKB	HCPK4	—	1
BS3-4-14112	1/4" X 1 1/2" and wider	250BKB	HCPK4	—	1
BS3-4-381	3/8" X 1"	200BKB	HCPK5	—	1
BS3-4-38112	3/8" X 1 1/2" and wider	250BKB	HCPK4	—	1
BS3-4-121	1/2" X 1"	250BKB	HCPK4	—	1
BS3-5-12112	1/2" X 1 1/2" and wider	2 X 200BKB	HCPK5	—	1

Mold Sealing Compound (MSC) will be required if surface is uneven.

BS4 – For Flat Surfaces



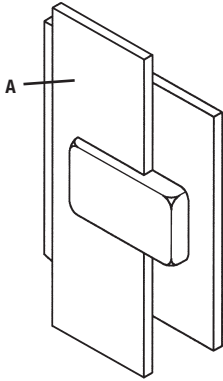
CAT. NO.	BAR SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
BS4-4-181	1/8" X 1"	115BKB	HCPK4	—	1
BS4-4-18112	1/8" X 1 1/2"	150BKB	HCPK4	—	1
BS4-4-182	1/8" X 2"	200BKB	HCPK4	—	1
BS4-4-3161	3/16" X 1"	150BKB	HCPK4	—	1
BS4-4-316112	3/16" X 1 1/2"	200BKB	HCPK4	—	1
BS4-4-3162	3/16" X 2"	250BKB	HCPK4	—	1
BS4-4-141	1/4" X 1"	150BKB	HCPK4	—	1
BS4-4-14114	1/4" X 1 1/4"	200BKB	HCPK4	—	1
BS4-4-14112	1/4" X 1 1/2"	250BKB	HCPK4	—	1
BS4-5-142	1/4" X 2"	2 X 150BKB	HCPK4	—	1
BS4-4-381	3/8" X 1"	200BKB	HCPK5	—	1
BS4-4-38112	3/8" X 1 1/2"	250BKB	HCPK4	—	1
BS4-5-382	3/8" X 2"	2 X 200BKB	HCPK5	—	1
BS4-4-121	1/2" X 1"	250BKB	HCPK4	—	1
BS4-5-12112	1/2" X 1 1/2"	2 X 200BKB	HCPK5	—	1
BS4-5-122	1/2" X 2"	2 X 250BKB	HCPK5	—	1

Mold Sealing Compound (MSC) will be required if surface is uneven.

Blackburn®

Bar to Steel Surface

Blackburn Exothermic Welding System

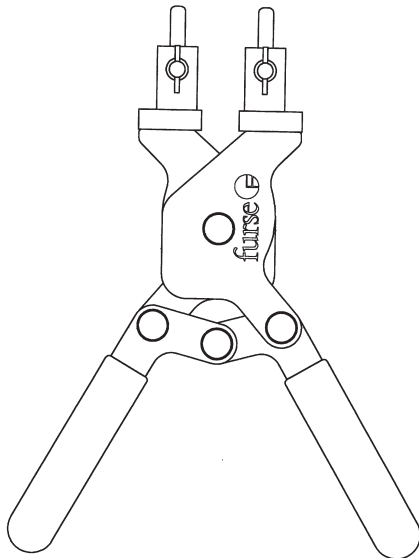


BS5 – For Flat Surfaces

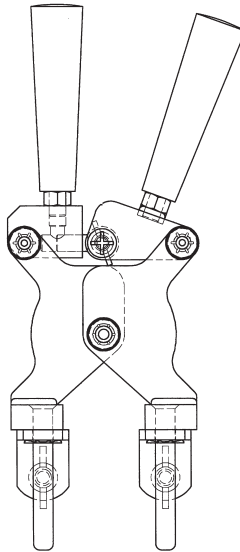
CAT. NO.	BAR SIZE (A)	WELDING POWDER SIZE	HANDLE CLAMP TYPE	SLEEVE	STD. CTN.
BS5-4-181	3/8" X 1"	115BKB	HCPK4	—	1
BS5-4-18112	1/8" X 1 1/2"	150BKB	HCPK4	—	1
BS5-4-182	1/8" X 2" and wider	200BKB	HCPK4	—	1
BS5-4-3161	3/16" X 1"	150BKB	HCPK4	—	1
BS5-4-316112	3/16" X 1 1/2"	200BKB	HCPK4	—	1
BS5-4-3162	3/16" X 2" and wider	250BKB	HCPK4	—	1
BS5-4-141	1/4" X 1"	150BKB	HCPK4	—	1
BS5-4-14114	1/4" X 1 1/4"	200BKB	HCPK4	—	1
BS5-4-14112	1/4" X 1 1/2"	250BKB	HCPK4	—	1
BS5-5-142	1/4" X 2" and wider	2 X 150BKB	HCPK5	—	1
BS5-4-381	3/8" X 1"	200BKB	HCPK5	—	1
BS5-4-38112	3/8" X 1 1/2"	250BKB	HCPK4	—	1
BS5-5-382	3/8" X 2" and wider	2 X 200BKB	HCPK5	—	1
BS5-4-121	1/2" X 1"	250BKB	HCPK4	—	1
BS5-5-12112	1/2" X 1 1/2"	2 X 200BKB	HCPK5	—	1
BS5-5-122	1/2" X 2" and wider	2 X 250BKB	HCPK5	—	1

Mold Sealing Compound (MSC) will be required if surface is uneven.

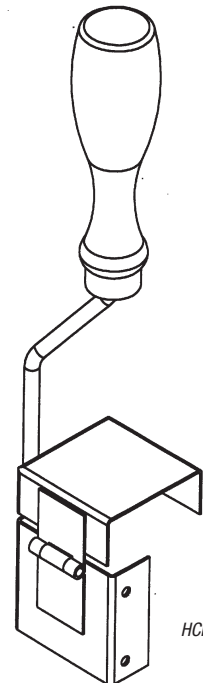
Handle Clamps



HCPK3



HCPK4



HCPK2

Thomas & Betts

C-132

www.tnb.com

United States

Tel: 901.252.8000

800.816.7809

Fax: 901.252.1354

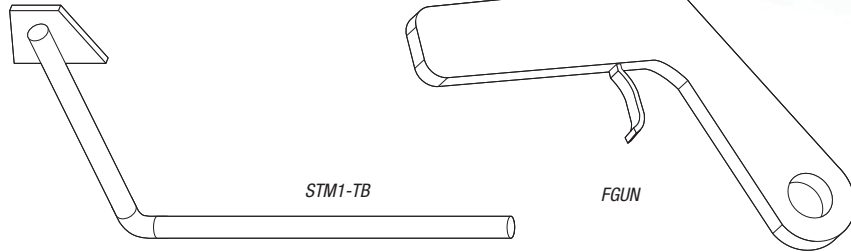
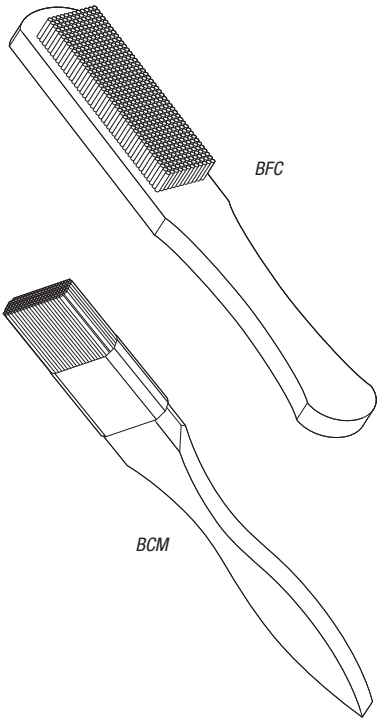
Technical Services

Tel: 888.862.3289

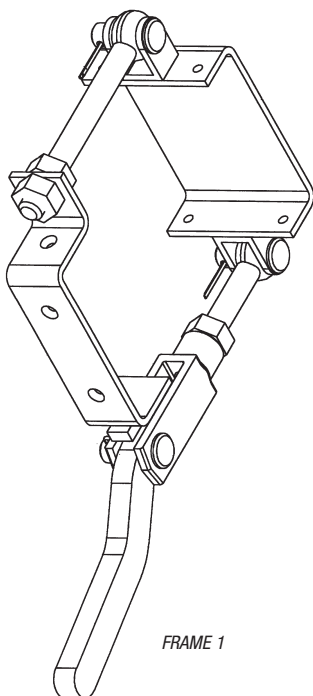
Handle Clamps, Tools and Accessories



Tools and Accessories



MOLD PART NO.	DESCRIPTION	APPLICATIONS	STD. CTN.
WWB1	Cable Cleaning Brush	Cleaning of stranded and other circular section conductors	6
WRB1	Replacement Elements (Pair)		3
BFC	Card Cloth Brush	Cleaning of conductors and surfaces.	10
FGUN	Flint Ignitor Gun	Starting powder ignition.	10
BCM	Mold Cleaning Brush	Soft brush for mold cleaning.	10
STM1-TB	Mold Scraper Tool	Break up and removal of slag in mold crucible.	10
MSC	Mold Sealing Compound	"Mold sealing on un—even surfaces, and general mold sealing."	5
PACK-A	Packing	Mold sealing on rebar surfaces.	50
SLEEVE#6	Sleeve for #6 wire	Prevents burning of small section wire.	100
SLEEVE#6S	Sleeve for #6S wire	Prevents burning of small section wire.	100
SLEEVE#8	Sleeve for #8 wire	Prevents burning of small section wire.	100
SLEEVE#8S	Sleeve for #8S wire	Prevents burning of small section wire.	100
SHIM	Copper shim.	For sealing around undersize conductors.	100



MOLD PART NO.	DESCRIPTION	APPLICATIONS	STD. CTN.
HCPK1	Price Key 1 Handle	For use on price key 1 molds	1
HCPK2	Price Key 2 Handle	For use on price key 2 molds	1
HCPK3	Price Key 3 Handle Clamp	For use on price key 3 molds	1
HCPK3A	Price Key 3A Handle Clamp	Type 3A molds (connections to vertical rebars).	1
HCPK3B	Price Key 3B Handle Clamp	Type 3B molds (connections to horizontal rebars).	1
HCPK3BMOD	Price Key 3B Modified Clamp	Type 3B molds (cross connections to horizontal rebars).	1
HCPK4	Price Key 4 Handle Clamp	For use on price key 4 molds.	1
HCPK5	Price Key 5 Handle Clamp	For use on price key 5 molds.	1
HCPK7	Price Key 7 Handle Clamp	For use on price key 7 molds.	1
HCPK8	Price Key 8 Handle Clamp	For use on price key 8 molds.	1
FRAME1	Price Key 9 Frame	For use with HCPK4 on price key 9 molds.	1
FRAME2	Price Key 10 Frame	For use with HCPK5 on price key 10 molds.	1

Blackburn® Exothermic Welding System

Blackburn®

Sure Shot® Welding Mold

Quick, easy and disposable —
no maintenance required!

Sure Shot® Welding Mold for Conductor to Copper Ground Rod

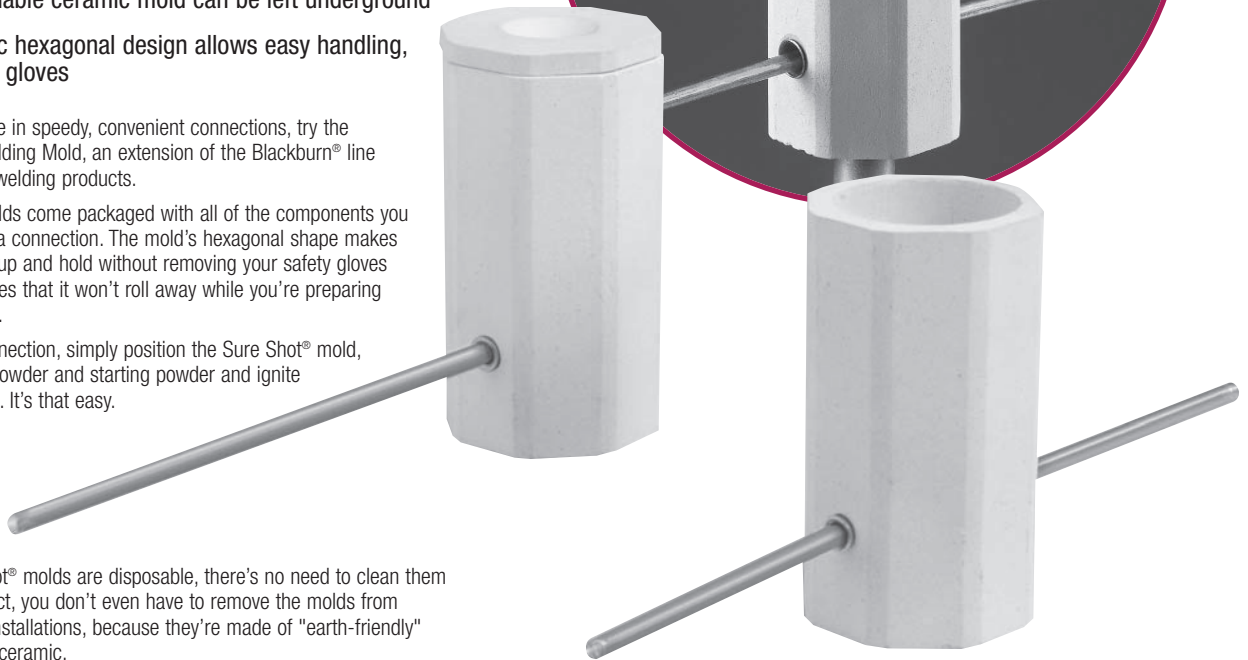
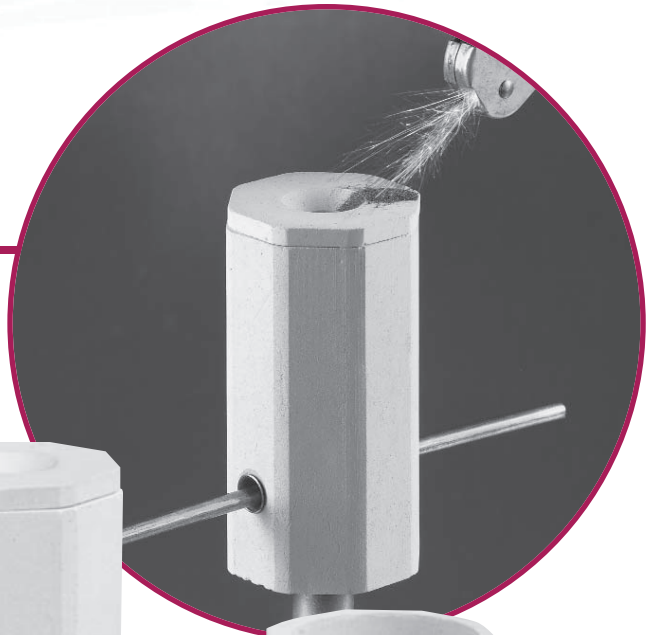
- Fast and simple to use
- Maintenance-free disposable molds
- Packaged with everything necessary to make a connection
- Biodegradable ceramic mold can be left underground
- Ergonomic hexagonal design allows easy handling, even with gloves

For the ultimate in speedy, convenient connections, try the Sure Shot® Welding Mold, an extension of the Blackburn® line of exothermic welding products.

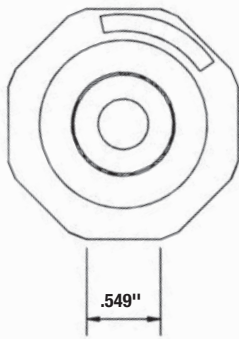
Sure Shot® molds come packaged with all of the components you need to make a connection. The mold's hexagonal shape makes it easy to pick up and hold without removing your safety gloves and also ensures that it won't roll away while you're preparing the connection.

To make a connection, simply position the Sure Shot® mold, add the weld powder and starting powder and ignite with a flint gun. It's that easy.

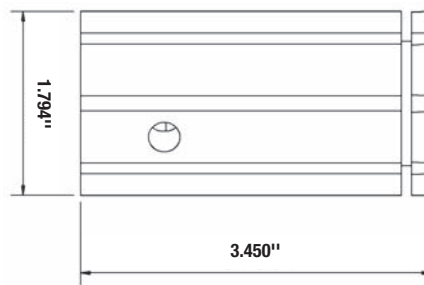
Since Sure Shot® molds are disposable, there's no need to clean them after use. In fact, you don't even have to remove the molds from underground installations, because they're made of "earth-friendly" biodegradable ceramic.



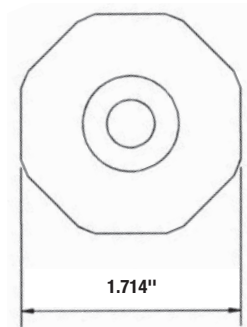
Dimensions



Cover



Welding Mold

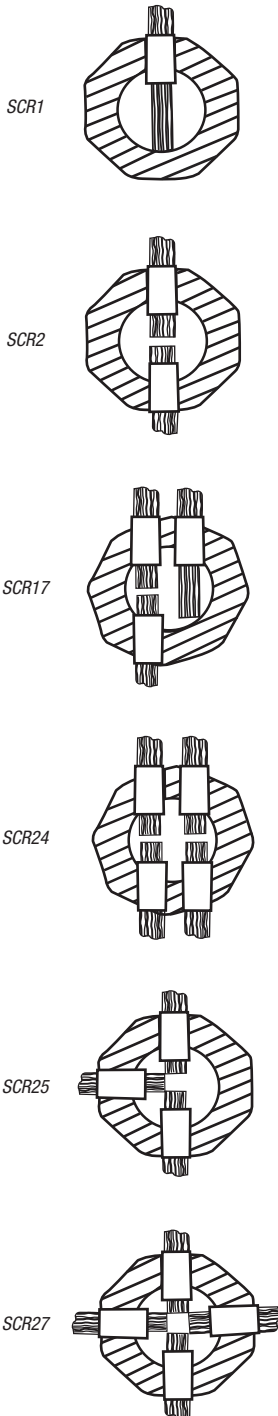


Disk



Specifications

Wire Positioning



CAT. NO.	GROUND ROD SIZE	CONDUCTOR SIZE	
		SOLID	STRANDED
<i>Blackburn Type SCR1</i>			
SCR1-58-6808	5/8 ¹¹	6,8	8
SCR1-58-3446	5/8 ¹¹	3,4	4,6
SCR1-58-1223	5/8 ¹¹	1,2	2,3
SCR1-58-2010	5/8 ¹¹	2/0,1/0	1/0,1
SCR1-58-0020	5/8 ¹¹	—	2/0
SCR1-34-6808	3/4 ¹¹	6,8	8
SCR1-34-3446	3/4 ¹¹	3,4	4,6
SCR1-34-1223	3/4 ¹¹	1,2	2,3
SCR1-34-2010	3/4 ¹¹	2/0,1/0	1/0,1
SCR1-34-0020	3/4 ¹¹	—	2/0
SCR1-34-0040	3/4 ¹¹	—	4/0
<i>Blackburn Type SCR2</i>			
SCR2-58-6808	5/8 ¹¹	6,8	8
SCR2-58-3446	5/8 ¹¹	3,4	4,6
SCR2-58-1223	5/8 ¹¹	1,2	2,3
SCR2-58-2010	5/8 ¹¹	2/0,1/0	1/0,1
SCR2-58-0020	5/8 ¹¹	—	2/0
SCR2-34-6808	3/4 ¹¹	6,8	8
SCR2-34-3446	3/4 ¹¹	3,4	4,6
SCR2-34-1223	3/4 ¹¹	1,2	2,3
SCR2-34-2010	3/4 ¹¹	2/0,1/0	1/0,1
SCR2-34-0020	3/4 ¹¹	—	2/0
SCR2-34-0040	3/4 ¹¹	—	4/0
<i>Blackburn Type SCR17</i>			
SCR17-58-6808	5/8 ¹¹	6,8	8
SCR17-58-3446	5/8 ¹¹	3,4	4,6
SCR17-58-1223	5/8 ¹¹	1,2	2,3
SCR17-34-6808	3/4 ¹¹	6,8	8
SCR17-34-3446	3/4 ¹¹	3,4	4,6
SCR17-34-1223	3/4 ¹¹	1,2	2,3
<i>Blackburn Type SCR24</i>			
SCR24-58-6808	5/8 ¹¹	6,8	8
SCR24-58-3446	5/8 ¹¹	3,4	4,6
SCR24-58-1223	5/8 ¹¹	1,2	2,3
SCR24-34-6808	3/4 ¹¹	6,8	8
SCR24-34-3446	3/4 ¹¹	3,4	4,6
SCR24-34-1223	3/4 ¹¹	1,2	2,3
<i>Blackburn Type SCR25</i>			
SCR25-58-6808	5/8 ¹¹	6,8	8
SCR25-58-3446	5/8 ¹¹	3,4	4,6
SCR25-58-1223	5/8 ¹¹	1,2	2,3
SCR25-34-6808	3/4 ¹¹	6,8	8
SCR25-34-3446	3/4 ¹¹	3,4	4,6
SCR25-34-1223	3/4 ¹¹	1,2	2,3
<i>Blackburn Type SCR27</i>			
SCR27-58-6808	5/8 ¹¹	6,8	8
SCR27-58-3446	5/8 ¹¹	3,4	4,6
SCR27-34-6808	3/4 ¹¹	6,8	8
SCR27-34-3446	3/4 ¹¹	3,4	4,6
SCR27-34-1223	3/4 ¹¹	1,2	2,3

* The weight per 100 is 20 lbs. and the standard carton/outer pack is 6 for all catalog numbers.

CADWELD CAT. NO.	THERMOWELD CAT. NO.	BLACKBURN CAT. NO.
BAC-JE	M-1135	BB1-4-121
BAC-EE	M-1122	BB1-4-141
BAC-EG	M-1124	BB1-4-14112
BAC-EF	M-1123	BB1-4-14114
BAC-EH	M-1125	BB1-4-142
BAC-EJ	M-6346	BB1-4-14212
BAC-CE	M-1118	BB1-4-181
BAC-CG	M-2557	BB1-4-18112
BAC-CH	M-1119	BB1-4-182
BAC-CK	M-6298	BB1-4-183
BAD-CM	M-5315	BB1-4-184
BAC-DE	M-1120	BB1-4-3161
BAC-DH	M-1121	BB1-4-3162
BAC-GE	M-1130	BB1-4-381
BAC-GG	M-1131	BB1-4-38112
BAD-JH	M-1136	BB1-5-122
BAD-EK	M-1126	BB1-5-143
BAD-EM	M-1127	BB1-5-144
BAD-GH	M-1132	BB1-5-382
BAD-GK	M-1133	BB1-5-38
BAD-GM	M-1134	BB1-5-384
EPC-JE	M-1247	BB2-4-121
EPC-EE	M-1234	BB2-4-141
EPC-EG	M-1236	BB2-4-14112
EPC-EF	M-1235	BB2-4-14114
EPC-EH	M-1237	BB2-4-142
EPC-EJ	M-6352	BB2-4-14212
EPC-CE	M-1230	BB2-4-181
EPC-CG	M-6347	BB2-4-18112
EPC-CH	M-1231	BB2-4-182
EPC-CK	M-6348	BB2-4-183
EPD-CM	M-6351	BB2-4-184
EPC-DE	M-1232	BB2-4-3161
EPC-DH	M-1233	BB2-4-3162
EPC-GE	M-1242	BB2-4-381
EPC-GG	M-1243	BB2-4-38112
EPD-JH	M-1248	BB2-5-122
EPD-EK	M-1238	BB2-5-143
EPD-EM	M-1239	BB2-5-144
EPD-GH	M-1244	BB2-5-382
EPD-GK	M-1245	BB2-5-383
EPD-GM	M-1246	BB2-5-384
BQC-EEEE	M-1102	BB3-4-141
BQC-EGEG	M-1104	BB3-4-14112
BQC-EFEF	M-1103	BB3-4-14114
BQC-CECE	M-1098	BB3-4-181
BQC-CHCH	M-1099	BB3-4-182
BQC-DEDE	M-1100	BB3-4-3161
BQC-DHDH	M-1101	BB3-4-3162
BQC-GEGE	M-1108	BB3-4-381
BQD-JEJE	M-1113	BB3-5-121

CADWELD CAT. NO.	THERMOWELD CAT. NO.	BLACKBURN CAT. NO.
BQD-JHJH	M-1114	BB3-5-122
BQD-EHEH	M-1105	BB3-5-142
BQD-GGGG	M-1109	BB3-5-38112
BQD-GHGH	M-1110	BB3-5-382
BQF-EKEK	M-1106	BB3-6-143
BQF-GK GK	M-1111	BB3-6-383
BWC-JE	M-1051	BS1-4-121
BWC-EE	M-1045	BS1-4-141
BWC-EG	M-1047	BS1-4-14112
BWC-EF	M-1046	BS1-4-14114
BWC-CE	M-1043	BS1-4-181
BWC-CG	M-6354	BS1-4-18112
BWC-CH	M-1044	BS1-4-182
BWC-DE	M-6056	BS1-4-3161
BWC-DG	M-6355	BS1-4-316112
BWC-DH	M-6356	BS1-4-3162
BWC-GE	M-1049	BS1-4-381
BWC-GG	M-6357	BS1-4-38112
BWD-JG	M-6358	BS1-5-12112
BWD-JH	M-1052	BS1-5-122
BWD-EH	M-1048	BS1-5-142
BWD-GH	M-1050	BS1-5-382
CGC-JE	M-1084	BS2-4-121
CGC-EE	M-1077	BS2-4-141
CGC-EG	M-1079	BS2-4-14112
CGC-EF	M-1078	BS2-4-14114
CGC-CE	M-1072	BS2-4-181
CGC-CG	M-1073	BS2-4-18112
CGC-CH	M-1074	BS2-4-182
CGC-DE	M-1075	BS2-4-3161
CGC-DG	M-6359	BS2-4-316112
CGC-DH	M-1076	BS2-4-3162
CGC-GE	M-1081	BS2-4-381
CGC-GG	M-1082	BS2-4-38112
CGD-JG	M-1085	BS2-5-12112
CGD-JH	M-1086	BS2-5-122
CGD-EH	M-1080	BS2-5-142
CGD-GH	M-1083	BS2-5-382
CHC-JE	M-1095	BS3-4-121
CHC-EE	M-1090	BS3-4-141
CHC-EG	M-1092	BS3-4-14112
CHC-EF	M-1091	BS3-4-14114
CHC-CE	M-1088	BS3-4-181
CHC-CG	M-1089	BS3-4-18112
CHC-DE	M-6353	BS3-4-3161
CHC-DG	M-7163	BS3-4-316112
CHC-GE	M-1093	BS3-4-381
CHC-GG	M-1094	BS3-4-38112
CHD-JG	M-1096	BS3-5-12112
CCC-JE	M-1060	BS4-4-121
CCC-EE	M-1056	BS4-4-141

Cadweld is a trademark of Erico International Corporation.

Thermoweld is a trademark of Continental Industries.



CADWELD CAT. NO.	THERMOWELD CAT. NO.	BLACKBURN CAT. NO.
CCC-EG	M-6369	BS4-4-14112
CCC-EF	M-5566	BS4-4-14114
CCC-CE	M-1054	BS4-4-181
CCC-CG	M-6360	BS4-4-18112
CCC-CH	M-1055	BS4-4-182
CCC-DE	M-6361	BS4-4-3161
CCC-DG	M-6362	BS4-4-316112
CCC-DH	M-6367	BS4-4-3162
CCC-GE	M-1058	BS4-4-381
CCC-GG	M-6370	BS4-4-38112
CCD-JG	M-6372	BS4-5-12112
CCD-JH	M-1061	BS4-5-122
CCD-EH	M-1057	BS4-5-142
CCD-GH	M-1059	BS4-5-382
CFC-JE	M-1069	BS5-4-121
CFC-EE	M-1065	BS5-4-141
CFC-EG	M-6379	BS5-4-14112
CFC-EF	M-6377	BS5-4-14114
CFC-CE	M-1063	BS5-4-181
CFC-CF	M-6373	BS5-4-18112
CFC-CH	M-1064	BS5-4-182
CFC-DE	M-6374	BS5-4-3161
CFC-DG	M-6375	BS5-4-316112
CFC-DH	M-6376	BS5-4-3162
CFC-GE	M-1067	BS5-4-381
CFC-GG	M-6382	BS5-4-38112
CFD-JG	M-6383	BS5-5-12112
CFD-JH	M-1070	BS5-5-122
CFD-EH	M-1066	BS5-5-142
CFD-GH	M-1068	BS5-5-382
LAC-1YCE	M-977	CB1-4-#1181
LAC-1VCE	M-975	CB1-4-#2181
LAC-1TCE	—	CB1-4-#2S181
LAC-1LCE	M-971	CB1-4-#4181
LAC-2CEE	M-979	CB1-4-1/0141
LAC-2CCE	M-978	CB1-4-1/0181
LAC-2CDE	M-6075	CB1-4-1/03161
LAC-2GEE	M-981	CB1-4-2/0141
LAC-2GCE	M-980	CB1-4-2/0181
LAC-2GDE	M-6579	CB1-4-2/03161
LAC-2VEE	M-988	CB1-4-250K141
LAC-2VEG	M-990	CB1-4-250K14112
LAC-2VEH	M-8784	CB1-4-250K142
LAC-2VEK	M-1916	CB1-4-250K143
LAC-2VDE	M-8277	CB1-4-250K3161
LAC-2LEE	M-983	CB1-4-3/0141
LAC-2LCE	M-6284	CB1-4-3/0181
LAC-2LDE	M-982	CB1-4-3/03161
LAC-3AEE	M-991	CB1-4-300K141
LAC-3AEG	M-993	CB1-4-300K14112
LAC-3AEH	M-6288	CB1-4-300K142

CADWELD CAT. NO.	THERMOWELD CAT. NO.	BLACKBURN CAT. NO.
LAC-3AEK	M-1917	CB1-4-300K143
LAC-3DEE	M-994	CB1-4-350K141
LAC-3DEG	M-996	CB1-4-350K14112
LAC-3DEH	M-6289	CB1-4-350K142
LAC-3DEK	M-1918	CB1-4-350K143
LAC-2QEE	M-985	CB1-4-4/0141
LAC-2QEG	M-987	CB1-4-4/014112
LAC-2QEH	M-5657	CB1-4-4/0142
LAC-2QEK	M-1915	CB1-4-4/0143
LAC-2QDE	M-984	CB1-4-4/03161
LAC-3QEG	M-1001	CB1-4-500K14112
LAC-3QEH	M-1002	CB1-4-500K142
LAC-3QEK	M-1920	CB1-4-500K143
LAC-3QGG	M-1004	CB1-4-500K38112
LAD-4YJH	M-1011	CB1-5-1000K122
LAD-4YJK	M-6295	CB1-5-1000K123
LAD-4YEK	M-6292	CB1-5-1000K143
LAD-4YGH	M-1009	CB1-5-1000K382
LAD-4YGK	M-1922	CB1-5-1000K383
LAD-4LEH	M-1006	CB1-5-750K142
LAD-4LEK	M-1921	CB1-5-750K143
LAD-4LGG	M-1007	CB1-5-750K38112
LAD-4LGH	M-1008	CB1-5-750K382
LAD-4LGK	M-6291	CB1-5-750K383
LQJ-JH1Y	—	CB29-10-#1122
LQJ-EH1Y	—	CB29-10-#1142
LQJ-GH1Y	—	CB29-10-#1382
LQJ-JH1V	—	CB29-10-#2122
LQJ-JH1T	—	CB29-10-#2S122
LQJ-JH2C	—	CB29-10-1/0122
LQJ-EH2C	—	CB29-10-1/0142
LQJ-GH2C	—	CB29-10-1/0382
LQJ-JH2G	—	CB29-10-2/0122
LQJ-EH2G	—	CB29-10-2/0142
LQJ-GH2G	—	CB29-10-2/0382
LQJ-JH2V	—	CB29-10-250K122
LQJ-EH2V	—	CB29-10-250K142
LQJ-GH2V	—	CB29-10-250K382
LQJ-JH2Q	—	CB29-10-4/0122
LQJ-EH2Q	—	CB29-10-4/0142
LQJ-GH2Q	—	CB29-10-4/0382
LQJ-JH3Q	—	CB29-10-500K122
LQJ-EH3Q	—	CB29-10-500K142
LQJ-GH3Q	—	CB29-10-500K382
LQJ-JH4L	—	CB29-10-750K122
LQJ-EH4L	—	CB29-10-750K142
LQJ-GH4L	—	CB29-10-750K382
LQE-EH1V	—	CB29-9-#2142
LQE-GH1V	—	CB29-9-#2382
LQE-EH1T	—	CB29-9-#2S142
LQE-GH1T	—	CB29-9-#2S382

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CADWELD CAT. NO.	THERMOWELD CAT NO.	BLACKBURN CAT. NO.
LJC-JG1V	—	CB4-4-#212112
LJC-EG1V	—	CB4-4-#214112
LJC-GG1V	—	CB4-4-#238112
LJC-JG1T	—	CB4-4-#2S12112
LJC-EG1T	—	CB4-4-#2S14112
LJC-GG1T	—	CB4-4-#2S38112
LJC-JG2C	M-1671	CB4-4-1/012112
LJC-EG2C	M-1651	CB4-4-1/014112
LJC-GG2C	M-1660	CB4-4-1/038112
LJC-JG2G	M-1672	CB4-4-2/012112
LJC-EG2G	M-1652	CB4-4-2/014112
LJC-GG2G	M-1661	CB4-4-2/038112
LJC-JG2V	M-1675	CB4-4-250K12112
LJC-EG2V	M-1655	CB4-4-250K14112
LJC-GG2V	M-1664	CB4-4-250K38112
LJC-JG2L	M-1673	CB4-4-3/012112
LJC-EG2L	M-1653	CB4-4-3/014112
LJC-GG2L	M-1662	CB4-4-3/038112
LJC-JG3A	M-1676	CB4-4-300K12112
LJC-EG3A	M-1656	CB4-4-300K14112
LJC-GG3A	M-1665	CB4-4-300K38112
LJC-JG3D	M-1677	CB4-4-350K12112
LJC-EG3D	M-1657	CB4-4-350K14112
LJC-GG3D	M-1666	CB4-4-350K38112
LJC-JG2Q	M-1674	CB4-4-4/012112
LJC-EG2Q	M-1654	CB4-4-4/014112
LJC-GG2Q	M-1663	CB4-4-4/038112
LJC-EG3Q	M-1659	CB4-4-500K14112
LJC-GG3Q	M-1668	CB4-4-500K38112
LJD-JG4Y	M-1681	CB4-5-1000K12112
LJD-GG4Y	M-1670	CB4-5-1000K38112
LJD-JG3Q	M-1679	CB4-5-500K12112
LJD-JG4L	M-1680	CB4-5-750K12112
LJD-GG4L	M-1669	CB4-5-750K38112
XBC-1Y1Y	M-2691	CC11-7-#1#1
XBC-1Y1V	M-2692	CC11-7-#1#2
XBC-1Y1L	M-2693	CC11-7-#1#4
XBC-1V1V	M-2689	CC11-7-#2#2
XBC-1V1L	M-2690	CC11-7-#2#4
XBC-1T1T	M-2689-S	CC11-7-#2S#2S
XBC-1L1L	M-2687	CC11-7-#4#4
XBP-1H1H	M-5432	CC11-7-#6#6
XBP-1G1G	M-5432-S	CC11-7-#6S#6S
XBM-2C1Y	M-2695	CC11-7-1/0#1
XBM-2C1V	M-2696	CC11-7-1/0#2
XBM-2C1L	M-2697	CC11-7-1/0#4
XBM-2C2C	M-2694	CC11-7-1/01/0
XBM-2G1Y	M-2700	CC11-7-2/0#1
XBM-2G1V	M-2701	CC11-7-2/0#2
XBM-2G2C	M-2699	CC11-7-2/01/0
XBM-2G2G	M-2698	CC11-7-2/02/0

CADWELD CAT. NO.	THERMOWELD CAT NO.	BLACKBURN CAT. NO.
XBM-2V1Y	M-2718	CC11-7-250K#1
XBM-2V1V	M-2719	CC11-7-250K#2
XBM-2V2C	M-2717	CC11-7-250K1/0
XBM-2V2G	M-2716	CC11-7-250K2/0
XBM-2V2V	M-2713	CC11-7-250K250K
XBM-2V2L	M-2715	CC11-7-250K3/0
XBM-2V2Q	M-2714	CC11-7-250K4/0
XBM-2L1Y	M-2705	CC11-7-3/0#1
XBM-2L1V	M-2706	CC11-7-3/0#2
XBM-2L2C	M-2704	CC11-7-3/01/0
XBM-2L2G	M-2703	CC11-7-3/02/0
XBM-2L2L	M-2702	CC11-7-3/03/0
XBM-3A1Y	M-2726	CC11-7-300K#1
XBM-3A1V	M-2727	CC11-7-300K#2
XBM-3A2C	M-2725	CC11-7-300K1/0
XBM-3A2G	M-2724	CC11-7-300K2/0
XBM-3A2L	M-2723	CC11-7-300K3/0
XBM-3A2Q	M-2722	CC11-7-300K4/0
XBM-3D1Y	M-2735	CC11-7-350K#1
XBM-3D1V	M-2736	CC11-7-350K#2
XBM-3D2C	M-2734	CC11-7-350K1/0
XBM-3D2G	M-2733	CC11-7-350K2/0
XBM-2Q1Y	M-2711	CC11-7-4/0#1
XBM-2Q1V	M-2712	CC11-7-4/0#2
XBM-2Q2C	M-2710	CC11-7-4/01/0
XBM-2Q2G	M-2709	CC11-7-4/02/0
XBM-2Q2L	M-2708	CC11-7-4/03/0
XBM-2Q2Q	M-2707	CC11-7-4/04/0
XBM-3Q2C	M-2755	CC11-7-500K1/0
XBV-3A2V	M-2721	CC11-8-300K250K
XBV-3A3A	M-2720	CC11-8-300K300K
XBV-3D2V	M-2730	CC11-8-350K250K
XBV-3D2L	M-2732	CC11-8-350K3/0
XBV-3D3A	M-2729	CC11-8-350K300K
XBV-3D3D	M-2728	CC11-8-350K350K
XBV-3D2Q	M-2731	CC11-8-350K4/0
XBV-3Q2G	M-2754	CC11-8-500K2/0
XBV-3Q2V	M-2751	CC11-8-500K250K
XBV-3Q2L	M-2753	CC11-8-500K3/0
XBV-3Q3A	M-2750	CC11-8-500K300K
XBV-3Q3D	M-2749	CC11-8-500K350K
XBV-3Q2Q	M-2752	CC11-8-500K4/0
XBV-3Q3Q	M-2747	CC11-8-500K500K
SST-1Y	M-5626	CC1-3-#1
SST-1X	M-5626-S	CC1-3-#1S
SST-1V	M-5625	CC1-3-#2
SST-1T	M-5625-S	CC1-3-#2S
SST-1Q	M-5624	CC1-3-#3
—	—	CC1-4-#2
SSC-2C	M-205	CC1-4-1/0
SSC-2B	M-205-S	CC1-4-1/0S

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CADWELD CAT. NO.	THERMOWELD CAT NO.	BLACKBURN CAT. NO.
SSC-2G	M-206	CC1-4-2/0
SSC-2V	M-209	CC1-4-250K
SSC-2L	M-207	CC1-4-3/0
SSC-3A	M-210	CC1-4-300K
SSC-3D	M-211	CC1-4-350K
SSC-2Q	M-208	CC1-4-4/0
SSC-2P	M-208-S	CC1-4-4/0S
SSC-3Q	M-213	CC1-4-500K
SSD-4Y	M-215	CC1-5-1000K
SSD-4L	M-214	CC1-5-750K
TAC-1Y1Y	M-225	CC2-4-#1#1
TAC-1Y1V	M-226	CC2-4-#1#2
TAC-1Y1T	M-5879	CC2-4-#1#2S
TAC-1Y1L	M-227	CC2-4-#1#4
TAC-1V1V	M-223	CC2-4-#2#2
TAC-1V1T	M-5869	CC2-4-#2#2S
TAC-1T1L	M-224	CC2-4-#2#4
TAC-1V1L	M-5859	CC2-4-#2#4
TAC-1T1V	M-5856	CC2-4-#2S#2
TAC-1T1T	M-223-S	CC2-4-#2S#2S
TAC-1L1L	M-221	CC2-4-#4#4
TAC-2C1Y	M-229	CC2-4-1/0#1
TAC-2C1V	M-230	CC2-4-1/0#2
TAC-2C1T	M-5311	CC2-4-1/0#2S
TAC-2C1L	M-231	CC2-4-1/0#4
TAC-2C2C	M-228	CC2-4-1/01/0
TAC-4Y2C	M-308	CC2-4-1000K1/0
TAC-4Y2G	M-307	CC2-4-1000K2/0
TAC-4Y2V	M-305	CC2-4-1000K250K
TAC-4Y3A	M-304	CC2-4-1000K300K
TAC-4Y3D	M-303	CC2-4-1000K350K
TAC-4Y2Q	M-306	CC2-4-1000K4/0
TAC-2G1Y	M-234	CC2-4-2/0#1
TAC-2G1V	M-235	CC2-4-2/0#2
TAC-2G1T	M-8093	CC2-4-2/0#2S
TAC-2G1L	M-5475	CC2-4-2/0#4
TAC-2G2C	M-233	CC2-4-2/01/0
TAC-2G2G	M-232	CC2-4-2/02/0
TAC-2V1Y	M-252	CC2-4-250K#1
TAC-2V1V	M-253	CC2-4-250K#2
TAC-2V1T	M-5889	CC2-4-250K#2S
TAC-2V1L	M-5425	CC2-4-250K#4
TAC-2V2C	M-251	CC2-4-250K1/0
TAC-2V2G	M-250	CC2-4-250K2/0
TAC-2V2V	M-247	CC2-4-250K250K
TAC-2V2L	M-249	CC2-4-250K3/0
TAC-2V2Q	M-248	CC2-4-250K4/0
TAC-2L1Y	M-239	CC2-4-3/0#1
TAC-2L1V	M-240	CC2-4-3/0#2
TAC-2L1T	M-5884	CC2-4-3/0#2S
TAC-2L1L	M-5574	CC2-4-3/0#4

CADWELD CAT. NO.	THERMOWELD CAT NO.	BLACKBURN CAT. NO.
TAC-2L2C	M-238	CC2-4-3/01/0
TAC-2L2G	M-237	CC2-4-3/02/0
TAC-2L2L	M-236	CC2-4-3/03/0
TAC-3A1Y	M-260	CC2-4-300K#1
TAC-3A1V	M-261	CC2-4-300K#2
TAC-3A1T	M-5903	CC2-4-300K#2S
TAC-3A1L	M-6397	CC2-4-300K#4
TAC-3A2C	M-259	CC2-4-300K1/0
TAC-3A2G	M-258	CC2-4-300K2/0
TAC-3A2V	M-255	CC2-4-300K250K
TAC-3A2L	M-257	CC2-4-300K3/0
TAC-3A3A	M-254	CC2-4-300K300K
TAC-3A2Q	M-256	CC2-4-300K4/0
TAC-3D1Y	M-269	CC2-4-350K#1
TAC-3D1V	M-270	CC2-4-350K#2
TAC-3D1L	M-6398	CC2-4-350K#4
TAC-3D2C	M-268	CC2-4-350K1/0
TAC-3D2G	M-267	CC2-4-350K2/0
TAC-3D2V	M-264	CC2-4-350K250K
TAC-3D2L	M-266	CC2-4-350K3/0
TAC-3D3A	M-263	CC2-4-350K300K
TAC-3D3D	M-262	CC2-4-350K350K
TAC-3D2Q	M-265	CC2-4-350K4/0
TAC-2Q1Y	M-245	CC2-4-4/0#1
TAC-2Q1V	M-246	CC2-4-4/0#2
TAC-2Q1T	M-5348	CC2-4-4/0#2S
TAC-2Q1L	M-5021	CC2-4-4/0#4
TAC-2Q2C	M-244	CC2-4-4/01/0
TAC-2Q2G	M-243	CC2-4-4/02/0
TAC-2Q2L	M-242	CC2-4-4/03/0
TAC-2Q2Q	M-241	CC2-4-4/04/0
TAC-3Q1Y	M-288	CC2-4-500K#1
TAC-3Q1V	M-289	CC2-4-500K#2
TAC-3Q1L	M-8113	CC2-4-500K#4
TAC-3Q2C	M-287	CC2-4-500K1/0
TAC-3Q2G	M-286	CC2-4-500K2/0
TAC-3Q2V	M-284	CC2-4-500K250K
TAC-3Q3A	M-283	CC2-4-500K300K
TAC-3Q3D	M-282	CC2-4-500K350K
TAC-3Q2Q	M-285	CC2-4-500K4/0
TAC-3Q3Q	M-280	CC2-4-500K500K
TAC-4L2C	M-298	CC2-4-750K1/0
TAC-4L2G	M-297	CC2-4-750K2/0
TAC-4L2V	M-295	CC2-4-750K250K
TAC-4L3A	M-294	CC2-4-750K300K
TAC-4L3D	M-293	CC2-4-750K350K
TAC-4L2Q	M-296	CC2-4-750K4/0
TAD-4Y4Y	M-299	CC2-5-1000K1000K
TAD-4Y3Q	M-301	CC2-5-1000K500K
TAD-4Y4L	M-300	CC2-5-1000K750K
TAD-4L3Q	M-291	CC2-5-750K500K

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TAD-4L4L	M-290	CC2-5-750K750K
—	—	CC2HD-4-4/04/0
XAC-1Y1Y	M-427	CC4-4-#1#1
XAC-1Y1V	M-428	CC4-4-#1#2
XAC-1Y1L	M-429	CC4-4-#1#4
XAC-1V1V	—	CC4-4-#2#2
XAC-1V1L	—	CC4-4-#2#4
XAC-1T1T	—	CC4-4-#2S#2S
XAC-1L1L	—	CC4-4-#4#4
XAC-2C1Y	M-431	CC4-4-1/0#1
XAC-2C1V	M-432	CC4-4-1/0#2
XAC-2C1L	M-433	CC4-4-1/0#4
XAC-2C2C	M-430	CC4-4-1/01/0
XAC-2G1Y	M-436	CC4-4-2/0#1
XAC-2G1V	M-437	CC4-4-2/0#2
XAC-2G2C	M-435	CC4-4-2/01/0
XAC-2G2G	M-434	CC4-4-2/02/0
XAC-2V1Y	M-454	CC4-4-250K#1
XAC-2V1V	M-455	CC4-4-250K#2
XAC-2V2C	M-453	CC4-4-250K1/0
XAC-2V2G	M-452	CC4-4-250K2/0
XAC-2V2V	M-449	CC4-4-250K250K
XAC-2V2L	M-451	CC4-4-250K3/0
XAC-2V2Q	M-450	CC4-4-250K4/0
XAC-2L1Y	M-441	CC4-4-3/0#1
XAC-2L1V	M-442	CC4-4-3/0#2
XAC-2L2C	M-440	CC4-4-3/01/0
XAC-2L2G	M-439	CC4-4-3/02/0
XAC-2L2L	M-438	CC4-4-3/03/0
XAC-3A1Y	M-462	CC4-4-300K#1
XAC-3A1V	M-463	CC4-4-300K#2
XAC-3A2C	M-461	CC4-4-300K1/0
XAC-3A2G	M-460	CC4-4-300K2/0
XAC-3A2V	M-457	CC4-4-300K250K
XAC-3A2L	M-459	CC4-4-300K3/0
XAC-3A3A	M-456	CC4-4-300K300K
XAC-3A2Q	M-458	CC4-4-300K4/0
XAC-3D1Y	M-471	CC4-4-350K#1
XAC-3D1V	M-472	CC4-4-350K#2
XAC-3D2C	M-470	CC4-4-350K1/0
XAC-3D2G	M-469	CC4-4-350K2/0
XAC-3D2V	M-466	CC4-4-350K250K
XAC-3D2L	M-468	CC4-4-350K3/0
XAC-3D3A	M-465	CC4-4-350K300K
XAC-3D3D	M-464	CC4-4-350K350K
XAC-3D2Q	M-467	CC4-4-350K4/0
XAC-2Q1Y	M-447	CC4-4-4/0#1
XAC-2Q1V	M-448	CC4-4-4/0#2
XAC-2Q2C	M-446	CC4-4-4/01/0
XAC-2Q2G	M-445	CC4-4-4/02/0
XAC-2Q2L	M-444	CC4-4-4/03/0

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XAC-2Q2Q	M-443	CC4-4-4/04/0
XAC-3Q2C	M-491	CC4-4-500K1/0
XAC-3Q2G	M-490	CC4-4-500K2/0
XAD-3Q2V	M-487	CC4-5-500K250K
XAD-3Q2L	M-489	CC4-5-500K3/0
XAD-3Q3A	M-486	CC4-5-500K300K
XAD-3Q3D	M-485	CC4-5-500K350K
XAD-3Q2Q	M-488	CC4-5-500K4/0
XAD-3Q3Q	M-483	CC4-5-500K500K
PCC-1Y1V	M-1282	CC6-4-#1#2
PCC-1Y1L	M-1283	CC6-4-#1#4
PCC-1Y1H	M-1284	CC6-4-#1#6
PCC-1Y1G	M-1285	CC6-4-#1#6S
PCC-1Y1D	M-1286	CC6-4-#1#8S
PCC-1V1V	M-1276	CC6-4-#2#2
PCC-1V1L	M-1277	CC6-4-#2#4
PCC-1V1H	M-1278	CC6-4-#2#6
PCC-1V1G	M-1279	CC6-4-#2#6S
PCC-1V1D	M-1280	CC6-4-#2#8S
PCC-1T1V	—	CC6-4-#2S#2
PCC-1T1T	—	CC6-4-#2S#2S
PCC-1T1H	—	CC6-4-#2S#6
PCC-1T1G	—	CC6-4-#2S#6S
PCC-1T2C	—	CC6-4-#2S1/0
PCC-1T2G	—	CC6-4-#2S2/0
PCC-1L1L	—	CC6-4-#4#4
PCC-1L1H	—	CC6-4-#4#6
PCC-1L1G	—	CC6-4-#4#6S
PCC-1L1D	—	CC6-4-#4#8S
PCC-2C1V	M-1289	CC6-4-1/0#2
PCC-2C1L	M-1290	CC6-4-1/0#4
PCC-2C1H	M-1291	CC6-4-1/0#6
PCC-2C1G	M-1292	CC6-4-1/0#6S
PCC-2C1D	M-1293	CC6-4-1/0#8S
PCC-2G1V	M-1297	CC6-4-2/0#2
PCC-2G1L	M-1298	CC6-4-2/0#4
PCC-2G1H	M-1299	CC6-4-2/0#6
PCC-2G1G	M-1300	CC6-4-2/0#6S
PCC-2G1D	M-1301	CC6-4-2/0#8S
—	—	CC6-4-2/02/0
PCC-2Q1Y	M-1305	CC6-4-4/0#1
PCC-2Q1V	M-1306	CC6-4-4/0#2
PCC-2Q1L	M-1307	CC6-4-4/0#4
PCC-2Q1H	M-1308	CC6-4-4/0#6
PCC-2Q1G	M-1309	CC6-4-4/0#6S
PCC-2Q1D	M-1310	CC6-4-4/0#8S
—	—	CC6-4-4/02/0
—	—	CC6-4-4/04/0
PTC-1Y1Y	M-1315	CC7-4-#1#1
PTC-1Y1X	M-6013	CC7-4-#1#1S
PTC-1Y1V	M-1316	CC7-4-#1#2

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CADWELD CAT. NO.	THERMOWELD CAT. NO.	BLACKBURN CAT. NO.
PTC-1Y1T	M-6017	CC7-4-#1#2S
PTC-1Y1L	M-1317	CC7-4-#1#4
PTC-1Y1H	M-5636	CC7-4-#1#6
PTC-1Y1G	M-5637	CC7-4-#1#6S
PTC-1Y1E	M-5638	CC7-4-#1#8
PTC-1Y1D	M-5639	CC7-4-#1#8S
PTC-1X1Y	M-5998	CC7-4-#1S#1
PTC-1X1V	M-6001	CC7-4-#1S#2
PTC-1X1T	M-1316-S	CC7-4-#1S#2S
PTC-1X1L	M-6008	CC7-4-#1S#4
PTC-1X1H	M-6010	CC7-4-#1S#6
PTC-1X1G	M-5636-S	CC7-4-#1S#6S
PTC-1X1E	M-6012	CC7-4-#1S#8
PTC-1X1D	M-5638-S	CC7-4-#1S#8S
PTC-1V1V	M-1313	CC7-4-#2#2
PTC-1V1L	M-1314	CC7-4-#2#4
PTC-1V1H	M-5631	CC7-4-#2#6
PTC-1V1G	M-5632	CC7-4-#2#6S
PTC-1V1E	M-5634	CC7-4-#2#8
PTC-1V1D	M-5635	CC7-4-#2#8S
PTC-1T1V	M-5973	CC7-4-#2S#2
PTC-1T1T	M-1313-S	CC7-4-#2S#2S
PTC-1T1L	M-5987	CC7-4-#2S#4
PTC-1T1H	M-5989	CC7-4-#2S#6
PTC-1T1G	M-5631-S	CC7-4-#2S#6S
PTC-1T1E	M-5993	CC7-4-#2S#8
PTC-1T1D	M-5634-S	CC7-4-#2S#8S
PTC-1L1L	M-1311	CC7-4-#4#4
PTC-1L1H	M-5627	CC7-4-#4#6
PTC-1L1G	M-8882	CC7-4-#4#6S
PTC-1L1E	M-5629	CC7-4-#4#8
PTC-1L1D	M-5630	CC7-4-#4#8S
PTC-2C1Y	M-1319	CC7-4-1/0#1
PTC-2C1X	M-6036	CC7-4-1/0#1S
PTC-2C1V	M-1320	CC7-4-1/0#2
PTC-2C1T	M-6044	CC7-4-1/0#2S
PTC-2C1L	M-1321	CC7-4-1/0#4
PTC-2C1H	M-5642	CC7-4-1/0#6
PTC-2C1G	M-1208	CC7-4-1/0#6S
PTC-2C1E	M-5644	CC7-4-1/0#8
PTC-2C1D	M-5645	CC7-4-1/0#8S
PTC-2C2C	M-1318	CC7-4-1/01/0
PTC-2C2B	M-6035	CC7-4-1/01/0S
PTC-2B1Y	M-6019	CC7-4-1/0S#1
PTC-2B1X	M-1319-S	CC7-4-1/0S#1S
PTC-2B1V	M-6023	CC7-4-1/0S#2
PTC-2B1T	M-1320-S	CC7-4-1/0S#2S
PTC-2B1L	M-6026	CC7-4-1/0S#4
PTC-2B1H	M-6806	CC7-4-1/0S#6
PTC-2B1G	M-5462-S	CC7-4-1/0S#6S
PTC-2B1E	M-6028	CC7-4-1/0S#8

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CADWELD CAT. NO.	THERMOWELD CAT. NO.	BLACKBURN CAT. NO.
PTC-2B1D	M-5644-S	CC7-4-1/0S#8S
PTC-2B2C	M-6227	CC7-4-1/0S1/0
PTC-2B2B	M-1318-S	CC7-4-1/0S1/0S
PTC-2G1Y	M-1324	CC7-4-2/0#1
PTC-2G1X	M-6052	CC7-4-2/0#1S
PTC-2G1V	M-1325	CC7-4-2/0#2
PTC-2G1L	M-5659	CC7-4-2/0#4
PTC-2G1H	M-5342	CC7-4-2/0#6
PTC-2G1G	M-5652	CC7-4-2/0#6S
PTC-2G1E	M-5668	CC7-4-2/0#8
PTC-2G1D	M-5943	CC7-4-2/0#8S
PTC-2G2C	M-1323	CC7-4-2/01/0
PTC-2G2B	M-6047	CC7-4-2/01/0S
PTC-2G2G	M-1322	CC7-4-2/02/0
PTC-2L1Y	M-1329	CC7-4-3/0#1
PTC-2L1X	M-6064	CC7-4-3/0#1S
PTC-2L1V	M-1330	CC7-4-3/0#2
PTC-2L1T	M-6065	CC7-4-3/0#2S
PTC-2L1L	M-6046	CC7-4-3/0#4
PTC-2L1H	M-5676	CC7-4-3/0#6
PTC-2L1G	M-5679	CC7-4-3/0#6S
PTC-2L1E	M-5680	CC7-4-3/0#8
PTC-2L1D	M-5682	CC7-4-3/0#8S
PTC-2L2C	M-1328	CC7-4-3/01/0
PTC-2L2B	M-6062	CC7-4-3/01/0S
PTC-2L2G	M-1327	CC7-4-3/02/0
PTC-2L2L	M-1326	CC7-4-3/03/0
PTC-2Q1Y	M-1335	CC7-4-4/0#1
PTC-2Q1X	M-6804	CC7-4-4/0#1S
PTC-2Q1V	M-1336	CC7-4-4/0#2
PTC-2Q1T	M-6805	CC7-4-4/0#2S
PTC-2Q1L	M-5340	CC7-4-4/0#4
PTC-2Q1H	M-5684	CC7-4-4/0#6
PTC-2Q1G	M-6552	CC7-4-4/0#6S
PTC-2Q1E	M-5686	CC7-4-4/0#8
PTC-2Q1D	M-5688	CC7-4-4/0#8S
PTC-2Q2C	M-1334	CC7-4-4/01/0
PTC-2Q2B	M-2551	CC7-4-4/01/0S
PTC-2Q2G	M-1333	CC7-4-4/02/0
PTC-2Q2L	M-1332	CC7-4-4/03/0
PTC-2Q2Q	M-1331	CC7-4-4/04/0
PTC-2Q2P	M-6803	CC7-4-4/04/0S
PTC-2P1Y	M-6089	CC7-4-4/0S#1
PTC-2P1X	M-1335-S	CC7-4-4/0S#1S
PTC-2P1V	M-6090	CC7-4-4/0S#2
PTC-2P1T	M-1336-S	CC7-4-4/0S#2S
PTC-2P1L	M-6109	CC7-4-4/0S#4
PTC-2P1H	M-6111	CC7-4-4/0S#6
PTC-2P1G	M-5684-S	CC7-4-4/0S#6S
PTC-2P1E	M-6112	CC7-4-4/0S#8
PTC-2P1D	M-5686-S	CC7-4-4/0S#8S

CADWELD CAT. NO.	THERMOWELD CAT NO.	BLACKBURN CAT. NO.
PTC-2P2C	M-6085	CC7-4-4/0S1/0
PTC-2P2B	M-1334-S	CC7-4-4/0S1/0S
PTC-2P2G	M-6082	CC7-4-4/0S2/0
PTC-2P2L	M-6081	CC7-4-4/0S3/0
PTC-2P2Q	M-6071	CC7-4-4/0S4/0
PTC-2P2P	M-1331-S	CC7-4-4/0S4/0S
GRT-14A1V	—	CR1-3-500#2
GRT-14A1T	—	CR1-3-500#2S
GRT-14A1L	M-8403	CR1-3-500#4
GRT-14A1K	M-8403-S	CR1-3-500#4S
GRT-14A1H	M-8402	CR1-3-500#6
GRT-14A1G	M-8402-S	CR1-3-500#6S
GRT-14B1V	—	CR1-3-500L#2
GRT-14B1T	—	CR1-3-500L#2S
GRT-14B1L	M-8403-T	CR1-3-500L#4
GRT-14B1K	M-8403-ST	CR1-3-500L#4S
GRT-14B1H	M-8402-T	CR1-3-500L#6
GRT-14B1G	M-8402-ST	CR1-3-500L#6S
GRT-161L	M-8415	CR1-3-625#4
GRT-161K	M-8415-S	CR1-3-625#4S
GRT-161H	M-8414	CR1-3-625#6
GRT-161G	M-8414-S	CR1-3-625#6S
GRP-181L	M-8426	CR1-3-750#4
GRP-181K	M-8426-S	CR1-3-750#4S
GRT-181H	M-8422	CR1-3-750#6
GRT-181G	M-8422-S	CR1-3-750#6S
GRC-151Y	M-496	CR1-4-500#1
GRC-152C	M-497	CR1-4-5001/0
GRC-152B	M-497-S	CR1-4-5001/0S
GRC-152G	M-498	CR1-4-5002/0
GRC-152V	M-501	CR1-4-500250K
GRC-152L	M-499	CR1-4-5003/0
GRC-153A	M-502	CR1-4-500300K
GRC-152Q	M-500	CR1-4-5004/0
GRC-141Y	M-496-T	CR1-4-500L#1
GRC-142C	M-497-T	CR1-4-500L1/0
GRC-142B	M-497-ST	CR1-4-500L1/0S
GRC-142G	M-498-T	CR1-4-500L2/0
GRC-142V	M-501-T	CR1-4-500L250K
GRC-142L	M-499-T	CR1-4-500L3/0
GRC-143A	M-502-T	CR1-4-500L300K
GRC-142Q	M-500-T	CR1-4-500L4/0
GRC-161Y	M-504	CR1-4-625#1
GRC-161V	M-503	CR1-4-625#2
GRT-161V	—	CR1-4-625#2
GRC-161T	—	CR1-4-625#2S
GRT-161T	—	CR1-4-625#2S
GRC-162C	M-505	CR1-4-6251/0
GRC-162B	M-505-S	CR1-4-6251/0S
GRC-162G	M-506	CR1-4-6252/0
GRC-162V	M-509	CR1-4-625250K

CADWELD CAT. NO.	THERMOWELD CAT NO.	BLACKBURN CAT. NO.
GRC-162L	M-507	CR1-4-6253/0
GRC-163A	M-510	CR1-4-625300K
GRC-163D	M-511	CR1-4-625350K
GRC-162Q	M-508	CR1-4-6254/0
GRC-163Q	M-513	CR1-4-625500K
GRC-181Y	M-514	CR1-4-750#1
GRC-181V	M-5781	CR1-4-750#2
GRC-181T	—	CR1-4-750#2S
GRC-182C	M-515	CR1-4-7501/0
GRC-182B	M-515-S	CR1-4-7501/0S
GRC-182G	M-516	CR1-4-7502/0
GRC-182V	M-519	CR1-4-750250K
GRC-182L	M-517	CR1-4-7503/0
GRC-183A	M-520	CR1-4-750300K
GRC-183D	M-521	CR1-4-750350K
GRC-182Q	M-518	CR1-4-7504/0
GRC-183Q	M-523	CR1-4-750500K
—	—	CR17-4-7504/0
GTT-14A1L	M-8435	CR2-3-500#4
GTT-14A1K	M-8435-S	CR2-3-500#4S
GTT-14A1H	M-8434	CR2-3-500#6
GTT-14A1G	M-8434-S	CR2-3-500#6S
GTT-14B1L	M-8435-T	CR2-3-500L#4
GTT-14B1K	M-8435-ST	CR2-3-500L#4S
GTT-14B1H	M-8434-T	CR2-3-500L#6
GTT-14B1G	M-8434-ST	CR2-3-500L#6S
GTT-161L	M-8442	CR2-3-625#4
GTT-161K	M-8442-S	CR2-3-625#4S
GTT-161H	M-8441	CR2-3-625#6
GTT-161G	M-8441-S	CR2-3-625#6S
GTP-181L	M-8454	CR2-3-750#4
GTP-181K	M-8454-S	CR2-3-750#4S
GTP-181H	M-8452	CR2-3-750#6
GTP-181G	M-8452-S	CR2-3-750#6S
GTC-151Y	M-538	CR2-4-500#1
GTC-151V	M-537	CR2-4-500#2
GTC-151T	—	CR2-4-500#2S
GTC-152C	M-539	CR2-4-5001/0
GTC-152B	M-539-S	CR2-4-5001/0S
GTC-152G	M-540	CR2-4-5002/0
GTC-152V	M-543	CR2-4-500250K
GTC-152L	M-541	CR2-4-5003/0
GTC-153A	M-544	CR2-4-500300K
GTC-152Q	M-542	CR2-4-5004/0
GTC-141Y	M-538-T	CR2-4-500L#1
GTC-141V	M-537-T	CR2-4-500L#2
GTC-141T	—	CR2-4-500L#2S
GTC-142C	M-539-T	CR2-4-500L1/0
GTC-142B	—	CR2-4-500L1/0S
GTC-142G	M-540-T	CR2-4-500L2/0
GTC-142V	M-543-T	CR2-4-500L250K

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CADWELD CAT. NO.	THERMOWELD CAT. NO.	BLACKBURN CAT. NO.
GTC-142L	M-541-T	CR2-4-500L3/0
GTC-143A	M-544-T	CR2-4-500L300K
GTC-142Q	M-542-T	CR2-4-500L4/0
GTC-161Y	M-546	CR2-4-625#1
GTC-161V	M-545	CR2-4-625#2
GTC-161T	—	CR2-4-625#2S
GTC-162C	M-547	CR2-4-6251/0
GTC-162B	M-547-S	CR2-4-6251/0S
GTC-162G	M-548	CR2-4-6252/0
GTC-162V	M-551	CR2-4-625250K
GTC-162L	M-549	CR2-4-6253/0
GTC-163A	M-552	CR2-4-625300K
GTC-163D	M-553	CR2-4-625350K
GTC-162Q	M-550	CR2-4-6254/0
GTC-163Q	M-555	CR2-4-625500K
GTC-181Y	M-557	CR2-4-750#1
GTC-181V	M-556	CR2-4-750#2
GTC-181T	—	CR2-4-750#2S
GTC-182C	M-558	CR2-4-7501/0
GTC-182B	M-558-S	CR2-4-7501/0S
GTC-182G	M-559	CR2-4-7502/0
GTC-182V	M-562	CR2-4-750250K
GTC-182L	M-560	CR2-4-7503/0
GTC-183A	M-563	CR2-4-750300K
GTC-183D	M-564	CR2-4-750350K
GTC-182Q	M-561	CR2-4-7504/0
GTC-183Q	M-566	CR2-4-750500K
GYJ-163Q	M-1593	CR3-10-625500K
GYJ-183D	M-1599	CR3-10-750350K
GYJ-183Q	M-1601	CR3-10-750500K
GYE-152C	M-1581	CR3-9-5001/0
GYE-152B	M-1581-S	CR3-9-5001/0S
GYE-152G	M-1582	CR3-9-5002/0
GYE-152V	M-1584	CR3-9-500250K
GYE-152L	M-6267	CR3-9-5003/0
GYE-153A	M-1585	CR3-9-500300K
GYE-152Q	M-1583	CR3-9-5004/0
GYE-142C	M-1581-T	CR3-9-500L1/0
GYE-142B	M-1581-ST	CR3-9-500L1/0S
GYE-142G	M-1582-T	CR3-9-500L2/0
GYE-142V	M-1584-T	CR3-9-500L250K
GYE-142L	M-6267-T	CR3-9-500L3/0
GYE-143A	M-1585-T	CR3-9-500L300K
GYE-142Q	M-1583-T	CR3-9-500L4/0
—	—	CR3-9-625#2
GYE-162C	M-1586	CR3-9-6251/0
GYE-162B	M-1586-S	CR3-9-6251/0S
GYE-162G	M-1587	CR3-9-6252/0
GYE-162V	M-1589	CR3-9-625250K
GYE-162L	M-8305	CR3-9-6253/0
GYE-163A	M-1590	CR3-9-625300K

CADWELD CAT. NO.	THERMOWELD CAT. NO.	BLACKBURN CAT. NO.
GYE-163D	M-1591	CR3-9-625350K
GYE-162Q	M-1588	CR3-9-6254/0
GYE-182C	M-1594	CR3-9-7501/0
GYE-182B	M-1594-S	CR3-9-7501/0S
GYE-182G	M-1595	CR3-9-7502/0
GYE-182V	M-1597	CR3-9-750250K
GYE-182L	M-6608	CR3-9-7503/0
GYE-183A	—	CR3-9-750300K
GYE-182Q	M-1596	CR3-9-7504/0
RR	—	CRE1-3-#1Y
RR	—	CRE1-3-#1Z
RR	—	CRE1-3-#2SY
RR	—	CRE1-3-#2SZ
RR	—	CRE1-3-#2Y
RR	—	CRE1-3-#2Z
RR	—	CRE1-3-#4Y
RR	—	CRE1-3-#4Z
RR	—	CRE1-3-1/OY
RR	—	CRE1-3-1/OZ
RR	—	CRE1-3-2/OY
RR	—	CRE1-3-2/OZ
RR	—	CRE1-3-3/OY
RR	—	CRE1-3-3/OZ
RR	—	CRE1-3-4/OY
RR	—	CRE1-3-4/OZ
RRC-511Y	M-7503	CRE1-4-#13R
RRC-511V	M-7502	CRE1-4-#23R
RRC-511T	—	CRE1-4-#2S3R
RRC-511L	M-7501	CRE1-4-#43R
RRC-512C	M-7504	CRE1-4-1/03R
RRC-512G	M-7505	CRE1-4-2/03R
RRC-512L	M-7506	CRE1-4-3/03R
RRC-512Q	M-7507	CRE1-4-4/03R
RC	—	CRE3-3-#2SY
RC	—	CRE3-3-#2SZ
RC	—	CRE3-3-#2Y
RC	—	CRE3-3-#2Z
RC	—	CRE3-3-#4Y
RC	—	CRE3-3-#4Z
—	—	CRE3-3-1/OY
—	—	CRE3-3-1/OZ
—	—	CRE3-3-2/OY
—	—	CRE3-3-2/OZ
RC	—	CRE3-4-#1Y
RC	—	CRE3-4-#1Z
RC	—	CRE3-4-1/OY
RC	—	CRE3-4-1/OZ
RC	—	CRE3-4-2/OY
RC	—	CRE3-4-2/OZ
RC	—	CRE3-4-3/OY
RC	—	CRE3-4-3/OZ

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CADWELD CAT. NO.	THERMOWELD CAT NO.	BLACKBURN CAT. NO.
RC	—	CRE3-4-4OY
RC	—	CRE3-4-4OZ
RD	—	CRE4-3-#1Y
RD	—	CRE4-3-#1Z
RD	—	CRE4-3-#2SY
RD	—	CRE4-3-#2SZ
RD	—	CRE4-3-#2Y
RD	—	CRE4-3-#2Z
RD	—	CRE4-3-#4Y
RD	—	CRE4-3-#4Z
RD	—	CRE4-3-1OY
RD	—	CRE4-3-1OZ
RD	—	CRE4-3-2OY
RD	—	CRE4-3-2OZ
RD	—	CRE4-3-3OY
RD	—	CRE4-3-3OZ
RD	—	CRE4-3-4OY
RD	—	CRE4-3-4OZ
RJ	—	CRE6-3-#1Y
RJ	—	CRE6-3-#1Z
RJ	—	CRE6-3-#2SY
RJ	—	CRE6-3-#2SZ
RJ	—	CRE6-3-#2Y
RJ	—	CRE6-3-#2Z
RJ	—	CRE6-3-#4Y
RJ	—	CRE6-3-#4Z
RJ	—	CRE6-4-1OY
RJ	—	CRE6-4-1OZ
RJ	—	CRE6-4-2OY
RJ	—	CRE6-4-2OZ
RJ	—	CRE6-4-3OY
RJ	—	CRE6-4-3OZ
RJ	—	CRE6-4-4OY
RJ	—	CRE6-4-4OZ
HSC-2C	M-644	CS1-4-1/0
HSD-4Y	M-654	CS1-4-1000K
HSC-2G	M-645	CS1-4-2/0
HSC-2V	M-648	CS1-4-250K
HSC-2L	M-646	CS1-4-3/0
HSC-3A	M-649	CS1-4-300K
HSC-3D	M-650	CS1-4-350K
HSC-2Q	M-647	CS1-4-4/0
HSC-3Q	M-652	CS1-4-500K
HSD-4L	M-653	CS1-4-750K
HTC-2C	M-616	CS2-4-1/0
HTC-2G	M-617	CS2-4-2/0
HTC-2V	M-620	CS2-4-250K
HTC-2L	M-618	CS2-4-3/0
HTC-3A	M-621	CS2-4-300K
HTC-3D	M-622	CS2-4-350K
HTC-2Q	M-619	CS2-4-4/0

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CADWELD CAT. NO.	THERMOWELD CAT NO.	BLACKBURN CAT. NO.
VBC-1Y	M-5361	CS25-4-#1
VBC-1Y-V3	—	CS25-4-#1C
VBC-1Y-V5	—	CS25-4-#1D
VBC-1Y-V8	—	CS25-4-#1F
VBC-1Y-V21C	—	CS25-4-#1G
VBC-1V	M-2781	CS25-4-#2
VBC-1V-V3	—	CS25-4-#2C
VBC-1V-V5	—	CS25-4-#2D
VBC-1V-V8	—	CS25-4-#2F
VBC-1V-V21C	—	CS25-4-#2G
VBC-1T	—	CS25-4-#2S
VBC-1T-V3	—	CS25-4-#2SC
VBC-1T-V5	—	CS25-4-#2SD
VBC-1T-V8	—	CS25-4-#2SF
VBC-1T-V21	—	CS25-4-#2SG
VBC-1L	M-5359	CS25-4-#4
VBC-1L-V3	—	CS25-4-#4C
VBC-1L-V5	—	CS25-4-#4D
VBC-1L-V8	—	CS25-4-#4F
VBC-1L-V21	—	CS25-4-#4G
VBC-2C	M-2189	CS25-4-1/0
VBC-2C-V3	—	CS25-4-1/0C
VBC-2C-V5	—	CS25-4-1/0D
VBC-2C-V8	—	CS25-4-1/0F
VBC-2C-V20	—	CS25-4-1/0G
VBC-2G	M-2540	CS25-4-2/0
VBC-2G-V3	—	CS25-4-2/0C
VBC-2G-V5	—	CS25-4-2/0D
VBC-2G-V8	—	CS25-4-2/0F
VBC-2G-V20	—	CS25-4-2/0G
VBC-2V	M-8165	CS25-4-250K
VBC-2L	M-5362	CS25-4-3/0
VBC-2L-V3	—	CS25-4-3/0C
VBC-2L-V5	—	CS25-4-3/0D
VBC-2L-V8	—	CS25-4-3/0F
VBC-2L-V20	—	CS25-4-3/0G
VBC-3A	M-5363	CS25-4-300K
VBC-3D	M-9029	CS25-4-350K
VBC-2Q	M-8718	CS25-4-4/0
VBC-2Q-V3	—	CS25-4-4/0C
VBC-2Q-V5	—	CS25-4-4/0D
VBC-2Q-V8	—	CS25-4-4/0F
VBC-2Q-V20	—	CS25-4-4/0G
VBR-3Q	M-8512	CS25-4-500K
HTD-3Q	M-624	CS2-5-500K
VGC-1Y	M-6279	CS27-4-#1
VGC-1Y-V3	—	CS27-4-#1C
VGC-1Y-V5	—	CS27-4-#1D
VGC-1Y-V8	—	CS27-4-#1F
VGC-1Y-V21C	—	CS27-4-#1G
VGC-1V	M-5822	CS27-4-#2



CADWELD CAT. NO.	THERMOWELD CAT NO.	BLACKBURN CAT. NO.
VGC-1V-V3	—	CS27-4-#2C
VGC-1V-V5	—	CS27-4-#2D
VGC-1V-V8	—	CS27-4-#2F
VGC-1V-V21C	—	CS27-4-#2G
VGC-1T	—	CS27-4-#2S
VGC-1T-V3	—	CS27-4-#2SC
VGC-1T-V5	—	CS27-4-#2SD
VGC-1T-V8	—	CS27-4-#2SF
VGC-1T-V21	—	CS27-4-#2SG
VGC-1H	M-5245	CS27-4-#4
VGC-1L	M-5816	CS27-4-#4
VGC-1L-V3	—	CS27-4-#4C
VGC-1L-V5	—	CS27-4-#4D
VGC-1L-V8	—	CS27-4-#4F
VGC-1L-V21	—	CS27-4-#4G
VGC-2C	M-1168	CS27-4-1/0
VGC-2C-V3	—	CS27-4-1/0C
VGC-2C-V5	—	CS27-4-1/0D
VGC-2C-V8	—	CS27-4-1/0F
VGC-2C-V20	—	CS27-4-1/0G
VGC-2G	M-9242	CS27-4-2/0
VGC-2G-V3	—	CS27-4-2/0C
VGC-2G-V5	—	CS27-4-2/0D
VGC-2G-V8	—	CS27-4-2/0F
VGC-2G-V20	—	CS27-4-2/0G
VGC-2V	M-2520	CS27-4-250K
VGC-2L	M-6195	CS27-4-3/0
VGC-2L-V3	—	CS27-4-3/0C
VGC-2L-V5	—	CS27-4-3/0D
VGC-2L-V8	—	CS27-4-3/0F
VGC-2L-V20	—	CS27-4-3/0G
VGC-2Q	M-2177	CS27-4-4/0
VGC-2Q-V3	—	CS27-4-4/0C
VGC-2Q-V5	—	CS27-4-4/0D
VGC-2Q-V8	—	CS27-4-4/0F
VGC-2Q-V20	—	CS27-4-4/0G
VNC-1Y	M-6060	CS31-4-#1
VGC-1Y-V3	—	CS31-4-#1C
VGC-1Y-V5	—	CS31-4-#1D
VGC-1Y-V8	—	CS31-4-#1F
VGC-1Y-V21C	—	CS31-4-#1G
VNC-1V	M-2569	CS31-4-#2
VGC-1V-V3	—	CS31-4-#2C
VGC-1V-V5	—	CS31-4-#2D
VGC-1V-V8	—	CS31-4-#2F
VGC-1V-V21C	—	CS31-4-#2G
VNC-1T	—	CS31-4-#2S
VGC-1T-V3	—	CS31-4-#2SC
VGC-1T-V5	—	CS31-4-#2SD
VGC-1T-V8	—	CS31-4-#2SF
VGC-1T-V21	—	CS31-4-#2SG

Cadweld is a trademark of Erico International Corporation.

Thermoweld is a trademark of Continental Industries.

CADWELD CAT. NO.	THERMOWELD CAT NO.	BLACKBURN CAT. NO.
VNC-1L	M-2761	CS31-4-#4
VGC-1L-V3	—	CS31-4-#4C
VGC-1L-V5	—	CS31-4-#4D
VGC-1L-V8	—	CS31-4-#4F
VGC-1L-V21	—	CS31-4-#4G
VNC-1H	M-5910	CS31-4-#6
VNC-2C	M-5419	CS31-4-1/0
VGC-2C-V3	—	CS31-4-1/0C
VGC-2C-V5	—	CS31-4-1/0D
VGC-2C-V8	—	CS31-4-1/0F
VGC-2C-V20	—	CS31-4-1/0G
VNC-2G	M-2567	CS31-4-2/0
VGC-2G-V3	—	CS31-4-2/0C
VGC-2G-V5	—	CS31-4-2/0D
VGC-2G-V8	—	CS31-4-2/0F
VGC-2G-V20	—	CS31-4-2/0G
VNC-2V	M-2568	CS31-4-250K
VNC-2L	M-6072	CS31-4-3/0
VGC-2L-V3	—	CS31-4-3/0C
VGC-2L-V5	—	CS31-4-3/0D
VGC-2L-V8	—	CS31-4-3/0F
VGC-2L-V20	—	CS31-4-3/0G
VNC-3A	M-6061	CS31-4-300K
VNC-3D	M-6067	CS31-4-350K
VNC-2Q	M-9253	CS31-4-4/0
VGC-2Q-V3	—	CS31-4-4/0C
VGC-2Q-V5	—	CS31-4-4/0D
VGC-2Q-V8	—	CS31-4-4/0F
VGC-2Q-V20	—	CS31-4-4/0G
VNC-3Q	M-8359	CS31-4-500K
HAA-1Y-325C	M-6269	CS32-2-#1D
HAA-1Y-7C	M-6270	CS32-2-#1F
HAA-1Y-11C	M-6271	CS32-2-#1G
HAA-1V-162C	M-6016	CS32-2-#2C
HAA-1V-350C	M-2576	CS32-2-#2D
HAA-1V-7C	M-2514	CS32-2-#2F
HAA-1V-11C	M-2515	CS32-2-#2G
HAA-1T-162C	—	CS32-2-#2SC
HAA-1T-350C	—	CS32-2-#2SD
HAA-1T-7C	—	CS32-2-#2SF
HAA-1T-11C	—	CS32-2-#2SG
HAA-1L-162C	M-8014	CS32-2-#4C
HAA-1L-350C	M-8015	CS32-2-#4D
HAA-1L-7C	M-2516	CS32-2-#4F
HAA-1L-11C	M-2517	CS32-2-#4G
HAH-2C-350C	M-8504	CS32-4-1/0D
HAH-2C-8C	M-8505	CS32-4-1/0F
HAH-2C-20C	M-6272	CS32-4-1/0G
HAH-2G-350C	M-2776	CS32-4-2/0D
HAH-2G-8C	M-6273	CS32-4-2/0F
HAH-2G-20C	M-6274	CS32-4-2/0G

CADWELD CAT. NO.	THERMOWELD CAT NO.	BLACKBURN CAT. NO.
HAH-2L-350C	M-6275	CS32-4-3/0D
HAH-2L-8C	M-6276	CS32-4-3/0F
HAH-2L-20C	M-6278	CS32-4-3/0G
HAH-2Q-350C	M-9236	CS32-4-4/0D
HAH-2Q-8C	M-9237	CS32-4-4/0F
HAH-2Q-20C	M-9238	CS32-4-4/0G
VSC-1Y	M-589	CS3-4-#1
VSC-1Y-V3C	M-2482	CS3-4-#1C
VSC-1Y-V5C	M-2483	CS3-4-#1D
VSC-1Y-V8C	M-2484	CS3-4-#1F
VSC-1Y-V21C	M-2485	CS3-4-#1G
VSC-1V	M-588	CS3-4-#2
VSC-1V-V3C	M-9233	CS3-4-#2C
VSC-1V-V5C	M-2480	CS3-4-#2D
VSC-1V-V8C	M-2583	CS3-4-#2F
VSC-1V-V21C	M-2481	CS3-4-#2G
VSC-1T	—	CS3-4-#2S
VSC-1T-V3C	—	CS3-4-#2SC
VSC-1T-V5C	—	CS3-4-#2SD
VSC-1T-V8C	—	CS3-4-#2SF
VSC-1T-V21C	—	CS3-4-#2SG
VSC-1L	M-586	CS3-4-#4
VSC-1L-V3C	M-2476	CS3-4-#4C
VSC-1L-V5C	M-2477	CS3-4-#4D
VSC-1L-V8C	M-2478	CS3-4-#4F
VSC-1L-V21C	M-2479	CS3-4-#4G
VSC-1H	M-585	CS3-4-#6
VSC-2C	M-590	CS3-4-1/0
VSC-2C-V3C	M-2486	CS3-4-1/0C
VSC-2C-V5C	M-2487	CS3-4-1/0D
VSC-2C-V8C	M-2488	CS3-4-1/0F
VSC-2C-V21C	M-2489	CS3-4-1/0G
HCA-1Y-350C	—	CS34-2-#1D
HCA-1Y-7C	—	CS34-2-#1F
HCA-1Y-11C	—	CS34-2-#1G
HCA-1V-162C	—	CS34-2-#2C
HCA-1V-350C	—	CS34-2-#2D
HCA-1V-7C	—	CS34-2-#2F
HCA-1V-11C	—	CS34-2-#2G
HCA-1T-162C	—	CS34-2-#2SC
HCA-1T-350C	—	CS34-2-#2SD
HCA-1T-7C	—	CS34-2-#2SF
HCA-1T-11C	—	CS34-2-#2SG
HCA-1L-162C	—	CS34-2-#4C
HCA-1L-350C	—	CS34-2-#4D
HCA-1L-7C	—	CS34-2-#4F
HCA-1L-11C	—	CS34-2-#4G
VSC-2G	M-591	CS3-4-2/0
VSC-2G-V3C	M-8833	CS3-4-2/0C
VSC-2G-V5C	M-2490	CS3-4-2/0D
VSC-2G-V8C	M-2491	CS3-4-2/0F

Cadweld is a trademark of Erico International Corporation.

Thermoweld is a trademark of Continental Industries.

CADWELD CAT. NO.	THERMOWELD CAT NO.	BLACKBURN CAT. NO.
VSC-2G-V21C	M-2492	CS3-4-2/0G
VSC-2V	M-594	CS3-4-250K
VSC-2L	M-592	CS3-4-3/0
VSC-2L-V3C	M-2493	CS3-4-3/0C
VSC-2L-V5C	M-2494	CS3-4-3/0D
VSC-2L-V8C	M-2495	CS3-4-3/0F
VSC-2L-V21C	M-2496	CS3-4-3/0G
VSC-3A	M-595	CS3-4-300K
VSC-3D	M-596	CS3-4-350K
VSC-2Q	M-593	CS3-4-4/0
VSC-2Q-V3C	M-9021	CS3-4-4/0C
VSC-2Q-V5C	M-2497	CS3-4-4/0D
VSC-2Q-V8C	M-2498	CS3-4-4/0F
VSC-2Q-V21C	M-2499	CS3-4-4/0G
HTC-2C-350C	—	CS34-4-1/0D
HTC-2C-8C	—	CS34-4-1/0F
HTC-2C-20C	—	CS34-4-1/0G
HTC-2G-350C	—	CS34-4-2/0D
HTC-2G-8C	—	CS34-4-2/0F
HTC-2G-20C	—	CS34-4-2/0G
HTC-2L-350C	—	CS34-4-3/0D
HTC-2L-8C	—	CS34-4-3/0F
HTC-2L-20C	—	CS34-4-3/0G
HTC-2Q-350C	—	CS34-4-4/0D
HTC-2Q-8C	—	CS34-4-4/0F
HTC-2Q-20C	—	CS34-4-4/0G
VSC-3Q	M-598	CS3-4-500K
VSD-4Y	M-600	CS3-5-1000K
VSD-4L	M-599	CS3-5-750K
WC-1Y	M-1219	CS4-4-#1
WC-1Y-V3	—	CS4-4-#1C
WC-1Y-V5	—	CS4-4-#1D
WC-1Y-V8	—	CS4-4-#1F
WC-1Y-V21	—	CS4-4-#1G
WC-1V	M-1218	CS4-4-#2
WC-1V-V3	—	CS4-4-#2C
WC-1V-V5	—	CS4-4-#2D
WC-1V-V8	—	CS4-4-#2F
WC-1V-V21	—	CS4-4-#2G
WC-1T	—	CS4-4-#2S
WC-1T-V3	—	CS4-4-#2SC
WC-1T-V5	—	CS4-4-#2SD
WC-1T-V8	—	CS4-4-#2SF
WC-1T-V21	—	CS4-4-#2SG
WC-1L	M-1216	CS4-4-#4
WC-1L-V3	—	CS4-4-#4C
WC-1L-V5	—	CS4-4-#4D
WC-1L-V8	—	CS4-4-#4F
WC-1L-V21	—	CS4-4-#4G
WC-1H	M-1215	CS4-4-#6
VWR-2C	M-1220	CS4-5-1/0



CADWELD CAT. NO.	THERMOWELD CAT NO.	BLACKBURN CAT. NO.
VWR-2C-V3	—	CS4-5-1/0C
VWR-2C-V5	—	CS4-5-1/0D
VWR-2C-V8	—	CS4-5-1/0F
VWR-2C-V20	—	CS4-5-1/0G
VWR-2G	M-1221	CS4-5-2/0
VWR-2G-V3	—	CS4-5-2/0C
VWR-2G-V5	—	CS4-5-2/0D
VWR-2G-V8	—	CS4-5-2/0F
VWR-2G-V20	—	CS4-5-2/0G
VWR-2V	M-1224	CS4-5-250K
VWR-2L	M-1222	CS4-5-3/0
VWR-2L-V3	—	CS4-5-3/0C
VWR-2L-V5	—	CS4-5-3/0D
VWR-2L-V8	—	CS4-5-3/0F
VWR-2L-V20	—	CS4-5-3/0G
VWR-2Q	M-1223	CS4-5-4/0
VWR-2Q-V3	—	CS4-5-4/0C
VWR-2Q-V5	—	CS4-5-4/0D
VWR-2QV8	—	CS4-5-4/0F
VWR-2Q-V20	—	CS4-5-4/0G
VFC-1Y	M-1639	CS7-4-#1
VFC-1Y-V3	—	CS7-4-#1C
VFC-1Y-V5	—	CS7-4-#1D
VFC-1Y-V8	—	CS7-4-#1F
VFC-1Y-V21	—	CS7-4-#1G
VFC-1V	M-1638	CS7-4-#2
VFC-1V-V3	—	CS7-4-#2C
VFC-1V-V5	—	CS7-4-#2D
VFC-1V-V8	—	CS7-4-#2F
VFC-1V-V21	—	CS7-4-#2G
VFC-1T	—	CS7-4-#2S
VFC-1T-V3	—	CS7-4-#2SC
VFC-1T-V5	—	CS7-4-#2SD
VFC-1T-V8	—	CS7-4-#2SF
VFC-1T-V21	—	CS7-4-#2SG
VFC-1L	M-1636	CS7-4-#4
VFC-1L-V3	—	CS7-4-#4C
VFC-1L-V5	—	CS7-4-#4D
VFC-1L-V8	—	CS7-4-#4F
VFC-1L-V21	—	CS7-4-#4G
VFC-2C	M-1640	CS7-4-1/0
VFC-2C-V3	—	CS7-4-1/0C
VFC-2C-V5	—	CS7-4-1/0D
VFC-2C-V8	—	CS7-4-1/0F
VFC-2C-V20	—	CS7-4-1/0G
VFC-2G	M-1641	CS7-4-2/0
VFC-2G-V3	—	CS7-4-2/0C
VFC-2G-V5	—	CS7-4-2/0D
VFC-2G-V8	—	CS7-4-2/0F
VFC-2G-V20	—	CS7-4-2/0G
VFR-2V	M-1644	CS7-5-250K

Cadweld is a trademark of Erico International Corporation.

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CADWELD CAT. NO.	THERMOWELD CAT NO.	BLACKBURN CAT. NO.
VFR-2L	M-1642	CS7-5-3/0
VFR-2L-V3	—	CS7-5-3/0C
VFR-2L-V5	—	CS7-5-3/0D
VFR-2L-V8	—	CS7-5-3/0F
VFR-2L-V20	—	CS7-5-3/0G
VFR-3A	M-1645	CS7-5-300K
VFR-2Q	M-1643	CS7-5-4/0
VFR-2Q-V3	—	CS7-5-4/0C
VFR-2Q-V5	—	CS7-5-4/0D
VFR-2Q-V8	—	CS7-5-4/0F
VFR-2Q-V20	—	CS7-5-4/0G
VFF-3D	M-1646	CS7-6-350K
VFF-3Q	M-1648	CS7-6-500K
HAA-1Y	M-631	CS8-2-#1
HAA-1V	M-630	CS8-2-#2
HAA-1T	—	CS8-2-#2S
HAA-1L	M-629	CS8-2-#4
HAA-1H	M-628	CS8-2-#6
HCA-1Y	M-605	CS9-2-#1
HCA-1V	M-604	CS9-2-#2
HCA-1T	—	CS9-2-#2S
HCA-1L	M-603	CS9-2-#4
HCA-1H	M-602	CS9-2-#6
15	15	15BKB
25	25	25BKB
32	32	32BKB
45	45	45BKB
65	65	65BKB
90	90	90BKB
115	115	115BKB
150	150	150BKB
200	200	200BKB
250	250	250BKB
L160	40-0106-00	HCPK4
L159	40-0107-00	HCPK5
T314	38-0135-00	WWB1
T314A	38-0135-01	WRB1
T313	38-0306-00	BFC
T320	38-0309-00	FGUN
T394	38-3922-00	BCM
B136A/B	40-0319-01/3/5/6	STM1
T403	38-4129-00	MSC
B144A/B/C/E	38-4061/2/3/4-00	PACK-A

Type CR1

GROUND ROD SIZE	CONDUCTOR SIZE		CADWELD CAT. NO. TYPE GR(CR1)	THERMOWELD CAT. NO. TYPE CR-1	BLACKBURN CAT. NO. TYPE CR1
	SOLID	STRANDED			
½"	6,8	8	GR1-141G	—	—
	3,4	4,6	GR1-141L	—	—
	1,2	2,3	GR1-141V	—	—
¾"	6,8	8	GR1-161G	M-2012	SCR1-58-6808
	3,4	4,6	GR1-161L	M-2013	SCR1-58-3446
	1,2	2,3	GR1-161V	M-2014	SCR1-58-1223
	2/0,1/0	1/0,1	GR1-162C	M-2015	SCR1-58-2010
	—	2/0	GR1-162G	M-2016	SCR1-58-0020
¾"	6,8	8	GR1-181G	M-2017	SCR1-34-6808
	3,4	4,6	GR1-181L	M-2018	SCR1-34-3446
	1,2	2,3	GR1-181V	M-2019	SCR1-34-1223
	2/0,1/0	1/0,1	GR1-182C	M-2020	SCR1-34-2010
	—	2/0	GR1-182G	M-2021	SCR1-34-0020
	—	4/0	GR1-182Q	—	SCR1-34-0040

Type CR2

GROUND ROD SIZE	CONDUCTOR SIZE		CADWELD CAT. NO. TYPE GT(CR2)	THERMOWELD CAT. NO. TYPE CR-2	BLACKBURN CAT. NO. TYPE CR2
	SOLID	STRANDED			
½"	6,8	8	GT1-141G	—	—
	3,4	4,6	GT1-141L	—	—
	1,2	2,3	GT1-141V	—	—
¾"	6,8	8	GT1-161G	M-2027	SCR2-58-6808
	3,4	4,6	GT1-161L	M-2028	SCR2-58-3446
	1,2	2,3	GT1-161V	M-2029	SCR2-58-1223
	2/0,1/0	1/0,1	GT1-162C	M-2030	SCR2-58-2010
	—	2/0	—	—	SCR2-58-0020*
¾"	6,8	8	GT1-181G	M-2031	SCR2-34-6808
	3,4	4,6	GT1-181L	M-2032	SCR2-34-3446
	1,2	2,3	GT1-181V	M-2033	SCR2-34-1223
	2/0,1/0	1/0,1	GT1-182C	M-2034	SCR2-34-2010
	—	2/0	—	—	SCR2-34-0020*
	—	4/0	—	—	SCR2-34-0040*

* Future Development

Type CR17

GROUND ROD SIZE	CONDUCTOR SIZE		CADWELD CAT. NO. TYPE NT(CR17)	THERMOWELD CAT. NO. —	BLACKBURN CAT. NO. TYPE CR17
	SOLID	STRANDED			
½"	6,8	8	NT1-141G	—	—
	3,4	4,6	NT1-141L	—	—
	1,2	2,3	—	—	—
¾"	6,8	8	NT1-161G	—	SCR17-58-6808
	3,4	4,6	NT1-161L	—	SCR17-58-3446
	1,2	2,3	NT1-161V	—	SCR17-58-1223
	2/0,1/0	1/0,1	—	—	SCR17-58-2010*
	—	2/0	—	—	SCR17-58-0020*
¾"	6,8	8	NT1-181G	—	SCR17-34-6808
	3,4	4,6	NT1-181L	—	SCR17-34-3446
	1,2	2,3	NT1-181V	—	SCR17-34-1223
	2/0,1/0	1/0,1	—	—	SCR17-34-2010*
	—	2/0	—	—	SCR17-34-0020*
	—	4/0	—	—	SCR17-34-0040*

* Future Development

Cadweld is a trademark of Erico International Corporation.

Thermoweld is a trademark of Continental Industries.

Blackburn®

Sure Shot® Cross Reference



Type CR24

GROUND ROD SIZE	CONDUCTOR SIZE		CADWELD CAT. NO. TYPE NX(CR24)	THERMOWELD CAT. NO. —	BLACKBURN CAT. NO. TYPE CR24
	SOLID	STRANDED			
½"	6,8	8	NX1-141G	—	—
	3,4	4,6	NX1-141L	—	—
	1,2	2,3	—	—	—
⅝"	6,8	8	NX1-161G	—	SCR24-58-6808
	3,4	4,6	NX1-161L	—	SCR24-58-3446
	1,2	2,3	NX1-161V	—	SCR24-58-1223
	2/0,1/0	1/0,1	—	—	SCR24-58-2010*
	—	2/0	—	—	SCR24-58-0020*
	—	4/0	—	—	SCR24-34-0040*
¾"	6,8	8	NX1-181G	—	SCR24-34-6808
	3,4	4,6	NX1-181L	—	SCR24-34-3446
	1,2	2,3	NX1-181V	—	SCR24-34-1223
	2/0,1/0	1/0,1	—	—	SCR24-34-2010*
	—	—	—	—	—

* Future Development

Type CR25

GROUND ROD SIZE	CONDUCTOR SIZE		CADWELD CAT. NO. —	THERMOWELD CAT. NO. TYPE CR-25	BLACKBURN CAT. NO. TYPE CR25
	SOLID	STRANDED			
⅝"	6,8	8	—	M-2006	SCR25-58-6808
	3,4	4,6	—	M-2007	SCR25-58-3446
	1,2	2,3	—	M-2008	SCR25-58-1223
¾"	2/0,1/0	1/0,1	—	M-2023	SCR25-58-12010
	6,8	8	—	M-2068	SCR25-34-6808
	3,4	4,6	—	M-2069	SCR25-34-3446

* Future Development

Blackburn® Exothermic Welding System

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C-149

Conductor Properties

SIZE (AWG OR KCMIL)	CONDUCTORS										DIRECT-CURRENT RESISTANCE AT 75°C (167°F)					
	AREA		STRANDING			OVERALL					COPPER				ALUMINUM	
	CIRCULAR		DIAMETER		QUANTITY	DIAMETER		AREA			UNCOATED		COATED		OHM/ KM	OHM/ KFT
	MM2	MILS	MM	IN.		MM	IN.	MM2	IN.2	OHM/ KM	OHM/ KFT	OHM/ KM	OHM/ KFT			
18	0.823	1620	1	—	—	1.02	0.040	0.823	0.001	25.5	7.77	26.5	8.08	42.0	12.8	
18	0.823	1620	7	0.39	0.015	1.16	0.046	1.06	0.002	26.1	7.95	27.7	8.45	42.8	13.1	
16	1.31	2580	1	—	—	1.29	0.051	1.31	0.002	16.0	4.89	16.7	5.08	26.4	8.05	
16	1.31	2580	7	0.49	0.019	1.46	0.058	1.68	0.003	16.4	4.99	17.3	5.29	26.9	8.21	
14	2.08	4110	1	—	—	1.63	0.064	2.08	0.003	10.1	3.07	10.4	3.19	16.6	5.06	
14	2.08	4110	7	0.62	0.024	1.85	0.073	2.68	0.004	10.3	3.14	10.7	3.26	16.9	5.17	
12	3.31	6530	1	—	—	2.05	0.081	3.31	0.005	6.34	1.93	6.57	2.01	10.45	3.18	
12	3.31	6530	7	0.78	0.030	2.32	0.092	4.25	0.006	6.50	1.98	6.73	2.05	10.69	3.25	
10	5.261	10380	1	—	—	2.588	0.102	5.26	0.008	3.984	1.21	4.148	1.26	6.561	2.00	
10	5.261	10380	7	0.98	0.038	2.95	0.116	6.76	0.011	4.070	1.24	4.226	1.29	6.679	2.04	
8	8.367	16510	1	—	—	3.264	0.128	8.37	0.013	2.506	0.764	2.579	0.786	4.125	1.26	
8	8.367	16510	7	1.23	0.049	3.71	0.146	10.76	0.017	2.551	0.778	2.653	0.809	4.204	1.28	
6	13.30	26240	7	1.56	0.061	4.67	0.184	17.09	0.027	1.608	0.491	1.671	0.510	2.652	0.808	
4	21.15	41740	7	1.96	0.077	5.89	0.232	27.19	0.042	1.010	0.308	1.053	0.321	1.666	0.508	
3	26.67	52620	7	2.20	0.087	6.60	0.260	34.28	0.053	0.802	0.245	0.833	0.254	1.320	0.403	
2	33.62	66360	7	2.47	0.097	7.42	0.292	43.23	0.067	0.634	0.194	0.661	0.201	1.045	0.319	
1	42.41	83690	19	1.69	0.066	8.43	0.332	55.80	0.087	0.505	0.154	0.524	0.160	0.829	0.253	
1/0	53.49	105600	19	1.89	0.074	9.45	0.372	70.41	0.109	0.399	0.122	0.415	0.127	0.660	0.201	
2/0	67.43	133100	19	2.13	0.084	10.62	0.418	88.74	0.137	0.3170	0.0967	0.329	0.101	0.523	0.159	
3/0	85.01	167800	19	2.39	0.094	11.94	0.470	111.9	0.173	0.2512	0.0766	0.2610	0.0797	0.413	0.126	
4/0	107.2	211600	19	2.68	0.106	13.41	0.528	141.1	0.219	0.1996	0.0608	0.2050	0.0626	0.328	0.100	
250	—	—	37	2.09	0.082	14.61	0.575	168	0.260	0.1687	0.0515	0.1753	0.0535	0.2778	0.0847	
300	—	—	37	2.29	0.090	16.00	0.630	201	0.312	0.1409	0.0429	0.1463	0.0446	0.2318	0.0707	
350	—	—	37	2.47	0.097	17.30	0.681	235	0.364	0.1205	0.0367	0.1252	0.0382	0.1984	0.0605	
400	—	—	37	2.64	0.104	18.49	0.728	268	0.416	0.1053	0.0321	0.1084	0.0331	0.1737	0.0529	
500	—	—	37	2.95	0.116	20.65	0.813	336	0.519	0.0845	0.0258	0.0869	0.0265	0.1391	0.0424	
600	—	—	61	2.52	0.099	22.68	0.893	404	0.626	0.0704	0.0214	0.0732	0.0223	0.1159	0.0353	
700	—	—	61	2.72	0.107	24.49	0.964	471	0.730	0.0603	0.0184	0.0622	0.0189	0.0994	0.0303	
750	—	—	61	2.82	0.111	25.35	0.998	505	0.782	0.0563	0.0171	0.0579	0.0176	0.0927	0.0282	
800	—	—	61	2.91	0.114	26.16	1.030	538	0.834	0.0528	0.0161	0.0544	0.0166	0.0868	0.0265	
900	—	—	61	3.09	0.122	27.79	1.094	606	0.940	0.0470	0.0143	0.0481	0.0147	0.0770	0.0235	
1000	—	—	61	3.25	0.128	29.26	1.152	673	1.042	0.0423	0.0129	0.0434	0.0132	0.0695	0.0212	

FPN: The construction information is per NEMA WC8-1992 or ANSI/UL 1581-1998. The resistance is calculated per National Bureau of Standards Handbook 100, dated 1966, and Handbook 109, dated 1972.

70-625 TABLES

NATIONAL ELECTRICAL CODE, 2002 Edition



Table B.310.1

Ampacities of Two or Three Insulated Conductors, Rated 0 Through 2000 Volts, Within an Overall Covering (Multiconductor Cable), in Raceway in Free Air Based on Ambient Air Temperature of 30°C (86°F)

Temperature Rating of Conductor. (See Table 310.13.)

Size (AWG or kcmil)	60°C (140°F)	75°C (167°F)	90°C (194°F)	60°C (140°F)	75°C (167°F)	90°C (194°F)	Size (AWG or kcmil)
	Types TW, UF	Types RHW, THHW, THW, THWN, XHHW, ZW	Types THHN, THHW, THW-2, THWN-2, RHH, RWH-2, USE-2, XHHN, XHHW-2, ZW-2	TypeTW	Types RHW, THHW, THW, THWN, XHHW	Types THHN, THHW, THW-2, THWN-2, RHH, RWH-2, USE-2, XHHW, XHHW-2, ZW-2	
	COPPER			ALUMINUM OR COPPER-CLAD ALUMINUM			
14	16*	18*	21*	—	—	—	14
12	20*	24*	27*	16*	18*	21*	12
10	27*	33*	36*	21*	25*	28*	10
8	36	43	48	28	33	37	8
6	48	58	65	38	45	51	6
4	66	79	89	51	61	69	4
3	76	90	102	59	70	79	3
2	88	105	119	69	83	93	2
1	102	121	137	80	95	106	1
1/0	121	145	163	94	113	127	1/0
2/0	138	166	186	108	129	146	2/0
3/0	158	189	214	124	147	167	3/0
4/0	187	223	253	147	176	197	4/0
250	205	245	276	160	192	217	250
300	234	281	317	185	221	250	300
350	255	305	345	202	242	273	350
400	274	328	371	218	261	295	400
500	315	378	427	254	303	342	500
600	343	413	468	279	335	378	600
700	376	452	514	310	371	420	700
750	387	466	529	321	384	435	750
800	397	479	543	331	397	450	800
900	415	500	570	350	421	477	900
1000	448	542	617	382	460	521	1000

Correction Factors

Ambient Temp. (°C)	For ambient temperatures other than 30°C (86°F), multiply the ampacities shown above by the appropriate factor shown below.						Ambient Temp. (°F)
21–25	1.08	1.05	1.04	1.08	1.05	1.04	70–77
26–30	1.00	1.00	1.00	1.00	1.00	1.00	79–86
31–35	0.91	0.94	0.96	0.91	0.94	0.96	88–95
36–40	0.82	0.88	0.91	0.82	0.88	0.91	97–104
41–45	0.71	0.82	0.87	0.71	0.82	0.87	106–113
46–50	0.58	0.75	0.82	0.58	0.75	0.82	115–122
51–55	0.41	0.67	0.76	0.41	0.67	0.76	124–131
56–60	—	0.58	0.71	—	0.58	0.71	133–140
61–70	—	0.33	0.58	—	0.33	0.58	142–158
71–80	—	—	0.41	—	—	0.41	160–176

*Unless otherwise specifically permitted elsewhere in this Code, the overcurrent protection for these conductor types shall not exceed 15 amperes for 14 AWG, 20 amperes for 12 AWG, and 30 amperes for 10 AWG copper; or 15 amperes for 12 AWG and 25 amperes for 10 AWG aluminum and copper-clad aluminum.

NATIONAL ELECTRICAL CODE, 2002 Edition

Metric Conductors

WIRE SIZE			# OF STRANDS	STRAND DIAMETER	DIAMETER MM	DIAMETER INCH	COLOR CODE	DIE CODE
MM	AWG	CIRC MILS						
10	8	19,730	1	3.57	3.57	0.140	Red	21
10	8	19,730	7	1.35	4.05	0.159	Red	21
16	6	31,558	1	4.50	4.50	0.177	Blue	24
16	6	31,558	7	1.70	5.10	0.200	Blue	24
25	2	49,325	7	2.14	6.42	0.253	Gray	29
25	2	49,325	19	1.35	6.75	0.266	Brown	33
35	1	69,055	19	1.53	7.65	0.300	Green	37
50	1/0	98,650	19	1.78	8.90	0.350	Pink	42
70	2/0	138,110	19	2.14	10.70	0.421	Black	45
95	3/0	187,500	19	2.52	12.60	0.496	Orange	50
95	3/0	187,500	37	1.78	12.46	0.490	Orange	50
120	250	236,760	37	2.03	14.21	0.560	Purple	54
150	300	295,950	37	2.25	15.75	0.620	White	66
185		365,000	61	2.52	17.64	0.695	Red	71
240	500	473,500	61	2.25	20.25	0.797	Brown	87
300		591,900	61	2.52	22.68	0.893	Green	94
400		789,200	61	2.85	25.65	1.000	Black	106
400		789,200	91	2.36	25.96	1.022	Black	106
500		986,500	61	3.20	28.80	1.134	—	125
500		986,500	91	2.65	29.15	1.148	—	—
630		1,243,000	127	2.52	32.76	1.290	—	—
800		1,578,400	127	2.85	37.05	1.459	—	—
1000		1,973,000	127	3.20	41.60	1.638	—	—

Table C1

Maximum Number of Conductors or Fixture Wires in Electrical Metallic Tubing (EMT) (Based on Table 1, Chapter 9)

TYPE	CONDUCTOR SIZE (AWG/KCMIL)	CONDUCTORS									
		METRIC DESIGNATOR (TRADE SIZE)									
		16 (½)	21 (¾)	27 (1)	35 (1¼)	41 (1½)	53 (2)	63 (2½)	78 (3)	91 (3½)	103 (4)
RHH,	14	4	7	11	20	27	46	80	120	157	201
RHW,	12	3	6	9	17	23	38	66	100	131	167
RHW-2	10	2	5	8	13	18	30	53	81	105	135
	8	1	2	4	7	9	16	28	42	55	70
	6	1	1	3	5	8	13	22	34	44	56
	4	1	1	2	4	6	10	17	26	34	44
	3	1	1	1	4	5	9	15	23	30	38
	2	1	1	1	3	4	7	13	20	26	33
	1	0	1	1	1	3	5	9	13	17	22
	1/0	0	1	1	1	2	4	7	11	15	19
	2/0	0	1	1	1	2	4	6	10	13	17
	3/0	0	0	1	1	1	3	5	8	11	14
	4/0	0	0	1	1	1	3	5	7	9	12
	250	0	0	0	1	1	1	3	5	7	9
	300	0	0	0	1	1	1	3	5	6	8
	350	0	0	0	1	1	1	3	4	6	7
	400	0	0	0	1	1	1	2	4	5	7
	500	0	0	0	0	1	1	2	3	4	6
	600	0	0	0	0	1	1	1	3	4	5
	700	0	0	0	0	0	1	1	2	3	4
	750	0	0	0	0	0	1	1	2	3	4
	800	0	0	0	0	0	1	1	2	3	4
	900	0	0	0	0	0	1	1	1	3	3
	1000	0	0	0	0	0	1	1	1	2	3
TW,	14	8	15	25	43	58	96	168	254	332	424
THHW,	12	6	11	19	33	45	74	129	195	255	326
THW,	10	5	8	14	24	33	55	96	145	190	243
THW-2	8	2	5	8	13	18	30	53	81	105	135
RHH*,	14	6	10	6	28	39	64	112	169	221	282
RHW*,	12	4	8	13	23	31	51	90	136	177	227
RHW-2*,	10	3	6	10	18	24	40	70	106	138	177
	8	1	4	6	10	14	24	42	63	83	106

TYPE	CONDUCTOR SIZE (AWG/KCMIL)	CONDUCTORS									
		METRIC DESIGNATOR (TRADE SIZE)									
		16 (½)	21 (¾)	27 (1)	35 (1¼)	41 (1½)	53 (2)	63 (2½)	78 (3)	91 (3½)	103 (4)
RHH*,	6	1	3	4	8	11	18	32	48	63	81
RHW*,	4	1	1	3	6	8	13	24	36	47	60
RHW-2*,	3	1	1	3	5	7	12	20	31	40	52
TW, THW,	2	1	1	2	4	6	10	17	26	34	44
THHW,	1	1	1	1	3	4	7	12	18	24	31
THW-2	1/0	0	1	1	2	3	6	10	16	20	26
	2/0	0	1	1	1	3	5	9	13	17	22
	3/0	0	1	1	1	2	4	7	11	15	19
	4/0	0	0	1	1	1	3	6	9	12	16
	250	0	0	1	1	1	3	5	7	10	13
	300	0	0	1	1	1	2	4	6	8	11
	350	0	0	0	1	1	1	4	6	7	10
	400	0	0	0	1	1	1	3	5	7	9
	500	0	0	0	1	1	1	3	4	6	7
	600	0	0	0	1	1	1	2	3	4	6
	700	0	0	0	0	1	1	1	3	4	5
	750	0	0	0	0	1	1	1	3	4	5
	800	0	0	0	0	1	1	1	3	3	5
	900	0	0	0	0	0	1	1	2	3	4
	1000	0	0	0	0	0	1	1	2	3	4
THHN,	14	12	22	35	61	84	138	241	364	476	608
THWN,	12	9	16	26	45	61	101	176	266	347	443
THWN-2	10	5	10	16	28	38	63	111	167	219	279
	8	3	6	9	16	22	36	64	96	126	161
	6	2	4	7	12	16	26	46	69	91	116
	4	1	2	4	7	10	16	28	43	56	71
	3	1	1	3	6	8	13	24	36	47	60
	2	1	1	3	5	7	11	20	30	40	51
	1	1	1	1	4	5	8	15	22	29	37
	1/0	1	1	1	3	4	7	12	19	25	32
	2/0	0	1	1	2	3	6	10	16	20	26
	3/0	0	1	1	1	3	5	8	13	17	22
	4/0	0	1	1	1	2	4	7	11	14	18
	250	0	0	1	1	1	3	6	9	11	15
	300	0	0	1	1	1	3	5	7	10	13
	350	0	0	1	1	1	2	4	6	9	11
	400	0	0	0	1	1	1	4	6	8	10
	500	0	0	0	1	1	1	3	5	6	8
	600	0	0	0	1	1	1	2	4	5	7
	700	0	0	0	1	1	1	2	3	4	6
	750	0	0	0	0	1	1	1	3	4	5
	800	0	0	0	0	1	1	1	3	4	5
	900	0	0	0	0	1	1	1	3	3	4
	1000	0	0	0	0	1	1	1	2	3	4

NATIONAL ELECTRICAL CODE, 2002 Edition



Table C4

Maximum Number of Conductors or Fixture Wires in Intermediate Metal Conduit (IMC) (Based on Table 1, Chapter 9)

TYPE	CONDUCTOR SIZE (AWG/KCMIL)	CONDUCTORS									
		METRIC DESIGNATOR (TRADE SIZE)									
		16 (½)	21 (¾)	27 (1)	35 (1¼)	41 (1½)	53 (2)	63 (2½)	78 (3)	91 (3½)	103 (4)
RHH, RHW, RHW-2	14	4	8	13	22	30	49	70	108	144	186
RHH, RHW, RHW-2	12	4	6	11	18	25	41	58	89	120	154
RHH, RHW, RHW-2	10	3	5	8	15	20	33	47	72	97	124
RHH, RHW, RHW-2	8	1	3	4	8	10	17	24	38	50	65
RHH, RHW, RHW-2	6	1	1	3	6	8	14	19	30	40	52
RHH, RHW, RHW-2	4	1	1	3	5	6	11	15	23	31	41
RHH, RHW, RHW-2	3	1	1	2	4	6	9	13	21	28	36
RHH, RHW, RHW-2	2	1	1	1	3	5	8	11	18	24	31
RHH, RHW, RHW-2	1	0	1	1	2	3	5	7	12	16	20
RHH, RHW, RHW-2	1/0	0	1	1	1	3	4	6	10	14	18
RHH, RHW, RHW-2	2/0	0	1	1	1	2	4	6	9	12	15
RHH, RHW, RHW-2	3/0	0	0	1	1	1	3	5	7	10	13
RHH, RHW, RHW-2	4/0	0	0	1	1	1	3	4	6	9	11
RHH, RHW, RHW-2	250	0	0	1	1	1	3	5	6	8	8
RHH, RHW, RHW-2	300	0	0	1	1	1	2	4	6	8	10
RHH, RHW, RHW-2	350	0	0	1	1	1	2	3	5	7	9
RHH, RHW, RHW-2	400	0	0	0	1	1	1	3	4	6	8
RHH, RHW, RHW-2	500	0	0	0	1	1	1	2	4	5	7
RHH, RHW, RHW-2	600	0	0	0	1	1	1	1	3	4	5
RHH, RHW, RHW-2	700	0	0	0	0	1	1	1	3	4	5
RHH, RHW, RHW-2	750	0	0	0	0	1	1	1	2	3	4
RHH, RHW, RHW-2	800	0	0	0	0	1	1	1	2	3	4
RHH, RHW, RHW-2	900	0	0	0	0	1	1	1	2	3	4
RHH, RHW, RHW-2	1000	0	0	0	0	1	1	1	2	3	4
RHH, RHW, RHW-2	1250	0	0	0	0	1	1	1	1	2	3
RHH, RHW, RHW-2	1500	0	0	0	0	0	1	1	1	1	2
RHH, RHW, RHW-2	1750	0	0	0	0	0	0	1	1	1	1
RHH, RHW, RHW-2	2000	0	0	0	0	0	0	1	1	1	1
TW, THHW, THW, THW-2	14	10	17	27	47	64	104	147	228	304	392
TW, THHW, THW, THW-2	12	7	13	21	36	49	80	113	175	234	301
TW, THHW, THW, THW-2	10	5	9	15	27	36	59	84	130	174	224
TW, THHW, THW, THW-2	8	3	5	8	15	20	33	47	72	97	124
RHH*, RHW*, RHW-2	14	6	11	18	31	42	69	98	151	202	261
RHH*, RHW*, RHW-2*	12	5	9	14	25	34	56	79	122	163	209
RHH*, RHW*, RHW-2*	10	4	7	11	19	26	43	61	95	127	163
RHH*, RHW*, RHW-2*	8	2	4	7	12	16	26	37	57	76	98
RHH*, RHW*, RHW-2*	6	1	3	5	9	12	20	28	43	58	75
RHH*, RHW*, RHW-2*	4	1	2	4	6	9	15	21	32	43	56

TYPE	CONDUCTOR SIZE (AWG/KCMIL)	CONDUCTORS									
		METRIC DESIGNATOR (TRADE SIZE)									
		16 (½)	21 (¾)	27 (1)	35 (1¼)	41 (1½)	53 (2)	63 (2½)	78 (3)	91 (3½)	103 (4)
TW, THW, THHW, THW-2	3	1	1	3	6	8	13	18	28	37	48
TW, THW, THHW, THW-2	2	1	1	3	5	6	11	15	23	31	41
TW, THW, THHW, THW-2	1	1	1	1	3	4	7	11	16	22	28
TW, THW, THHW, THW-2	1/0	1	1	1	3	4	6	9	14	19	24
TW, THW, THHW, THW-2	2/0	0	1	1	2	3	5	8	12	16	20
TW, THW, THHW, THW-2	3/0	0	1	1	1	3	4	6	10	13	17
TW, THW, THHW, THW-2	4/0	0	1	1	1	2	4	5	8	11	14
TW, THW, THHW, THW-2	250	0	0	1	1	1	3	4	7	9	12
TW, THW, THHW, THW-2	300	0	0	1	1	1	2	4	6	8	10
TW, THW, THHW, THW-2	350	0	0	1	1	1	2	3	5	7	9
TW, THW, THHW, THW-2	400	0	0	0	1	1	1	3	4	6	8
TW, THW, THHW, THW-2	500	0	0	0	1	1	1	2	4	5	7
TW, THW, THHW, THW-2	600	0	0	0	1	1	1	1	3	4	5
TW, THW, THHW, THW-2	700	0	0	0	0	1	1	1	3	4	5
TW, THW, THHW, THW-2	750	0	0	0	0	1	1	1	2	3	4
TW, THW, THHW, THW-2	800	0	0	0	0	1	1	1	2	3	4
TW, THW, THHW, THW-2	900	0	0	0	0	1	1	1	2	3	4
TW, THW, THHW, THW-2	1000	0	0	0	0	1	1	1	2	3	4
THHN, THWN, THWN-2	14	14	24	39	68	91	149	211	326	436	562
THHN, THWN, THWN-2	12	10	17	29	49	67	109	154	238	318	410
THHN, THWN, THWN-2	10	6	11	18	31	42	68	97	150	200	258
THHN, THWN, THWN-2	8	3	6	10	18	24	39	56	86	115	149
THHN, THWN, THWN-2	6	2	4	7	13	17	28	40	62	83	107
THHN, THWN, THWN-2	4	1	3	4	8	10	17	25	38	51	66
THHN, THWN, THWN-2	3	1	2	4	6	9	15	21	32	43	56
THHN, THWN, THWN-2	2	1	1	3	5	7	12	17	27	36	47
THHN, THWN, THWN-2	1	1	1	2	4	5	9	13	20	27	35
THHN, THWN, THWN-2	1/0	1	1	1	3	4	8	11	17	23	29
THHN, THWN, THWN-2	2/0	1	1	1	3	4	6	9	14	19	24
THHN, THWN, THWN-2	3/0	0	1	1	2	3	5	7	12	16	20
THHN, THWN, THWN-2	4/0	0	1	1	1	2	4	6	9	13	17
THHN, THWN, THWN-2	250	0	0	1	1	1	3	5	8	10	13
THHN, THWN, THWN-2	300	0	0	1	1	1	3	4	7	9	12
THHN, THWN, THWN-2	350	0	0	1	1	1	2	4	6	8	10
THHN, THWN, THWN-2	400	0	0	1	1	1	2	3	5	7	9
THHN, THWN, THWN-2	500	0	0	0	1	1	1	3	4	6	7
THHN, THWN, THWN-2	600	0	0	0	1	1	1	2	3	5	6
THHN, THWN, THWN-2	700	0	0	0	1	1	1	1	3	4	5
THHN, THWN, THWN-2	750	0	0	0	1	1	1	1	3	4	5
THHN, THWN, THWN-2	800	0	0	0	0	1	1	1	3	4	5
THHN, THWN, THWN-2	900	0	0	0	0	1	1	1	2	3	4
THHN, THWN, THWN-2	1000	0	0	0	0	1	1	1	2	3	4

Note: This table is for concentric stranded conductors only. For compact stranded conductors, Table C4(A) should be used.

*Types RHH, RHW, and RHW-2 without outer covering.

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Table C8

Maximum Number of Conductors or Fixture Wires in Rigid Metal Conduit (RMC) (Based on Table 1, Chapter 9)

TYPE	CONDUCTORS													
	CONDUCTOR SIZE (AWG/KCMIL)	METRIC DESIGNATOR (TRADE SIZE)												
		16 (½)	21 (¾)	27 (1)	35 (1¼)	41 (1½)	53 (2)	63 (2½)	78 (3)	91 (3¼)	103 (4)	129 (5)	155 (6)	
RHH,	14	4	7	12	21	28	46	66	102	136	176	276	398	
RHW,	12	3	6	10	17	23	38	55	85	113	146	229	330	
RHW-2	10	3	5	8	14	19	31	44	68	91	118	185	267	
	8	1	2	4	7	10	16	23	36	48	61	97	139	
	6	1	1	3	6	8	13	18	29	38	49	77	112	
	4	1	1	2	4	6	10	14	22	30	38	60	87	
	3	1	1	2	4	5	9	12	19	26	34	53	76	
	2	1	1	1	3	4	7	11	17	23	29	46	66	
	1	0	1	1	1	3	5	7	11	15	19	30	44	
	1/0	0	1	1	1	2	4	6	10	13	17	26	38	
	2/0	0	1	1	1	2	4	5	8	11	14	23	33	
	3/0	0	0	1	1	1	3	4	7	10	12	20	28	
	4/0	0	0	1	1	1	3	4	6	8	11	17	24	
	250	0	0	0	1	1	1	3	4	6	8	13	18	
	300	0	0	0	1	1	1	2	4	5	7	11	16	
	350	0	0	0	1	1	1	2	4	5	6	10	15	
	400	0	0	0	1	1	1	1	3	4	6	9	13	
	500	0	0	0	1	1	1	1	3	4	5	8	11	
	600	0	0	0	0	1	1	1	2	3	4	6	9	
	700	0	0	0	0	1	1	1	1	3	4	6	8	
	750	0	0	0	0	0	1	1	1	3	3	5	8	
	800	0	0	0	0	0	1	1	1	2	3	5	7	
	900	0	0	0	0	0	1	1	1	2	3	5	7	
	1000	0	0	0	0	0	1	1	1	1	3	4	6	
TW,	14	9	15	25	44	59	98	140	216	288	370	581	839	
THHW,	12	7	12	19	33	45	75	107	165	221	284	446	644	
THW,														
THW-2	10	5	9	14	25	34	56	80	123	164	212	332	480	
	8	3	5	8	14	19	31	44	68	91	118	185	267	
RHH*,	14	6	10	17	29	39	65	93	143	191	246	387	558	
RHW*,														
RHW-2*														
RHH*,	12	5	8	13	23	32	52	75	115	154	198	311	448	
RHW*,														
RHW-2*	10	3	6	10	18	25	41	58	90	120	154	242	350	
RHH*,	8	1	4	6	11	15	24	35	54	72	92	145	209	
RHW*,														
RHW-2*														

TYPE	CONDUCTORS													
	CONDUCTOR SIZE (AWG/KCMIL)	METRIC DESIGNATOR (TRADE SIZE)												
		16 (½)	21 (¾)	27 (1)	35 (1¼)	41 (1½)	53 (2)	63 (2½)	78 (3)	91 (3¼)	103 (4)	129 (5)	155 (6)	
RHH*,	6	1	3	5	8	11	18	27	41	55	71	111	160	
RHW*,	4	1	1	3	6	8	14	20	31	41	53	83	120	
RHW-2*,	3	1	1	3	5	7	12	17	26	35	45	71	103	
TW,	2	1	1	2	4	6	10	14	22	30	38	60	87	
THW,	1	1	1	1	3	4	7	10	15	21	27	42	61	
THHW,	1/0	0	1	1	2	3	6	8	13	18	23	36	52	
THW-2	2/0	0	1	1	2	3	5	7	11	15	19	31	44	
	3/0	0	1	1	1	2	4	6	9	13	16	26	37	
	4/0	0	0	1	1	1	3	5	8	10	14	21	31	
	250	0	0	1	1	1	3	4	6	8	11	17	25	
	300	0	0	1	1	1	2	3	5	7	9	15	22	
	350	0	0	0	1	1	1	3	5	6	8	13	19	
	400	0	0	0	1	1	1	3	4	6	7	12	17	
	500	0	0	0	1	1	1	2	3	5	6	10	14	
	600	0	0	0	1	1	1	1	3	4	5	8	12	
	700	0	0	0	0	1	1	1	2	3	4	7	10	
	750	0	0	0	0	1	1	1	2	3	4	7	10	
	800	0	0	0	0	1	1	1	2	3	4	6	9	
	900	0	0	0	0	1	1	1	1	3	4	6	8	
	1000	0	0	0	0	0	1	1	1	2	3	5	8	
THHN,	14	13	22	36	63	85	140	200	309	412	531	833	1202	
THWN,	12	9	16	26	46	62	102	146	225	301	387	608	877	
THWN-2	10	6	10	17	29	39	64	92	142	189	244	383	552	
	8	3	6	9	16	22	37	53	82	109	140	221	318	
	6	2	4	7	12	16	27	38	59	79	101	159	230	
	4	1	2	4	7	10	16	23	36	48	62	98	141	
	3	1	1	3	6	8	14	20	31	41	53	83	120	
	2	1	1	3	5	7	11	17	26	34	44	70	100	
	1	1	1	1	4	5	8	12	19	25	33	51	74	
	1/0	1	1	1	3	4	7	10	16	21	27	43	63	
	2/0	0	1	1	2	3	6	8	13	18	23	36	52	
	3/0	0	1	1	1	3	5	7	11	15	19	30	43	
	4/0	0	1	1	1	2	4	6	9	12	16	25	36	
	250	0	0	1	1	1	3	5	7	10	13	20	29	
	300	0	0	1	1	1	3	4	6	8	11	17	25	
	350	0	0	1	1	1	2	3	5	7	10	15	22	
	400	0	0	1	1	1	2	3	5	7	8	13	20	
	500	0	0	0	1	1	1	2	4	5	7	11	16	
	600	0	0	0	1	1	1	1	3	4	6	9	13	
	700	0	0	0	1	1	1	1	3	4	5	8	11	
	750	0	0	0	0	1	1	1	3	4	5	7	11	
	800	0	0	0	0	1	1	1	2	3	4	7	10	
	900	0	0	0	0	1	1	1	2	3	4	6	9	
	1000	0	0	0	0	1	1	1	1	3	4	6	8	

Note: This table is for concentric stranded conductors only. For compact stranded conductors, Table C8(A) should be used.

*Types RHH, RHW, and RHW-2 without outer covering.

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