

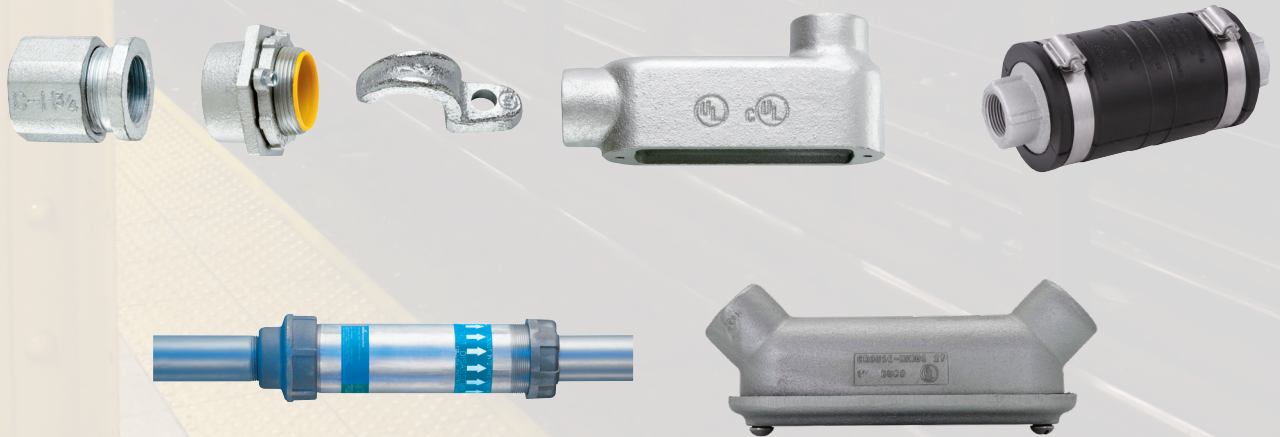
Commercial products

CROUSE-HINDS
SERIES

Hot dip galvanized products

Providing superior corrosion protection

34
Penn
Station



EATON

Powering Business Worldwide



Hot dipped galvanized products

Designed to provide superior corrosion protection from harsh environmental conditions

Superior corrosion resistance hot dipped galvanized products provide another corrosion resistant option (in addition to stainless steel, epoxy coating, etc.) to our current offering, allowing Eaton's Crouse-Hinds to further expand our corrosion resistant capabilities.

Hot dipped galvanized finish:

Hot dip galvanizing is a form of galvanization. It is the technology of coating by passing the product through a molten bath of zinc at high temperature. The process of hot-dip galvanizing results in a metallurgical bond between zinc and steel with a series of distinct iron-zinc alloys. The hot dip zinc coating produces a much thicker, durable coating which prevents corrosion of the protected product by forming a physical barrier and by acting as a sacrificial anode if this barrier is damaged.

Application process:

The product is skimmed (to remove surface oils), run through an acid wash, water washed, run through a dip fluxing solvent (to enhance the coating adhesion), dry preheated (typically 120°C-180°C), hot dip galvanized (typically 450°C-480°C), water cooled and then passivated.

Certifications & compliances:

- Conforms to finish thickness per ASTM A123/A123M
- UL514B
- NEMA FB1

Hot dipped galvanized products are used/installed:

- To provide corrosion protection against road salt and other harsh environmental factors.
- To meet Department of Transportation, mass transit or other project specifications.
- For infrastructure projects, including bridges, subways, railways, and other modes of transportation. Many U.S. roads, bridges, and tollways are decades old and in need of repair. Many of these rework/rebuild projects require hot dip galvanized products.
- For governmental use (many government projects, federal and/or state require the use of hot dipped galvanized products).

Form 5 conduit outlet bodies, covers & gaskets

Applications:

Form 5 malleable iron conduit bodies are used in conduit systems to:

- Act as pull outlets for conductors being installed
- Provide openings for making splices and taps in conductors
- Act as mounting outlets for lighting fixtures and wiring devices
- Connect conduit sections
- Provide taps for branch conduit runs
- Make 90 degree bends in conduit runs
- Provide for access to conductors for maintenance and future system changes

Features:

- Interchangeable with Appleton Form 35 conduit bodies
- Built-in rollers on 1 1/4" to 4" C and LB bodies to facilitate wire pulling
- Smooth and rounded integral bushings for protection of wire insulation
- Solid neoprene gaskets may be converted to open type by pulling out perforated center section
- Stainless steel cover screws
- Domed sheet steel covers provide additional cubic capacity
- Integral gasket cover provides NEMA 4 rating

Form 35 is a registered trademark of Appleton Electric/EGS.

Certifications and compliances:

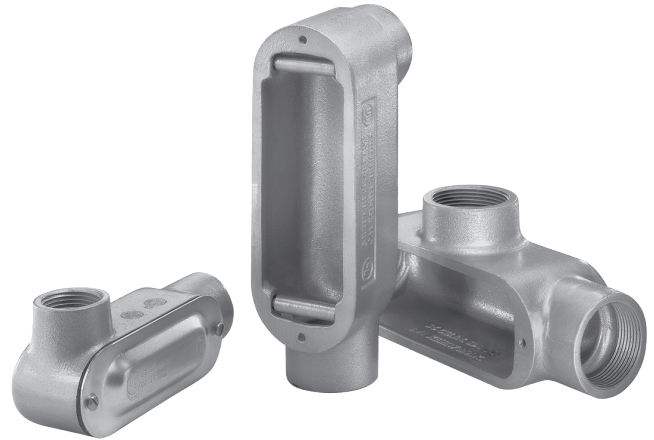
- UL File No. E-15022
- UL Standard 514B
- cUL to CSA Standard C22.2 No. 18

Standard materials:

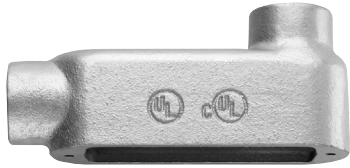
- Bodies – malleable iron
- Gaskets – neoprene
- Covers – sheet steel or malleable
- Cover screws – stainless steel

Standard finishes:

- Malleable iron – hot dip galvanized
- Neoprene – natural
- Sheet steel – electrogalvanized
- Stainless steel – natural



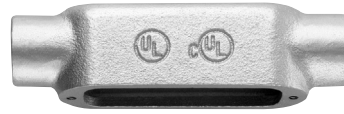
Form 5



Type LB

Cat. #	Size	Internal vol. in cu. in.	Unit qty.	Wt. lbs. per 100	Max. no. of conductors
LB50M HDG	½"	4.5	10	71	N/A
LB75M HDG	¾"	7.5	10	97	3 #6 AWG
LB100M HDG	1"	12.5	10	143	3 #4 XHHW
LB125M HDG*	1¼"	32.0	5	287	3 #2 XHHW
LB150M HDG*	1½"	35.3	5	331	3 #1/0 XHHW
LB200M HDG*	2"	73.0	1	534	3 #4/0 XHHW
LB250M HDG*	2½"	142.0	1	1105	3 #300MCM XHHW
LB300M HDG*	3"	173.0	1	1160	3 #400MCM XHHW
LB350M HDG*	3½"	292.0	1	1989	3 #500MCM XHHW
LB400M HDG*	4"	324.0	1	2099	3 #500MCM XHHW

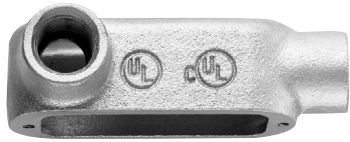
*1¼" - 4" LB and C bodies supplied with built-in rollers to facilitate wire pulling.



Type C

Cat. #	Size	Internal vol. in cu. in.	Unit qty.	Wt. lbs. per 100	Max. no. of conductors
C50M HDG	½"	4.5	10	98	N/A
C75M HDG	¾"	7.5	10	118	3 #6 AWG
C100M HDG	1"	12.5	10	170	3 #4 XHHW
C125M HDG*	1¼"	35.0	5	309	3 #2 XHHW
C150M HDG*	1½"	35.3	5	368	3 #1/0 XHHW
C200M HDG*	2"	75.0	1	552	3 #4/0 XHHW
C250M HDG*	2½"	153.0	1	1216	3 #300MCM XHHW
C300M HDG*	3"	181.0	1	1437	3 #300MCM XHHW
C350M HDG*	3½"	290.0	1	2210	3 #350MCM XHHW
C400M HDG*	4"	320.0	1	2321	3 #350MCM XHHW

*1¼" - 4" LB and C bodies supplied with built-in rollers to facilitate wire pulling.



Type LL

Cat. #	Size	Internal vol. in cu. in.	Unit qty.	Wt. lbs. per 100	Max. no. of conductors
LL50M HDG	½"	4.5	10	76	N/A
LL75M HDG	¾"	7.5	10	95	3 #6 AWG
LL100M HDG	1"	12.5	10	138	3 #4 XHHW
LL125M HDG	1¼"	32.0	5	309	3 #2 XHHW
LL150M HDG	1½"	33.0	5	332	3 #2 XHHW
LL200M HDG	2"	68.0	1	497	3 #4/0 XHHW
LL250M HDG	2½"	142.0	1	1105	3 #300MCM XHHW
LL300M HDG	3"	173.0	1	1437	3 #350MCM XHHW
LL350M HDG	3½"	292.0	1	2321	3 #350MCM XHHW
LL400M HDG	4"	324.0	1	2431	3 #350MCM XHHW



Type LR

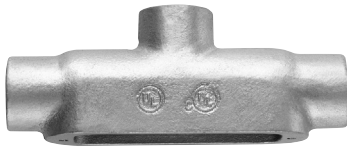
Cat. #	Size	Internal vol. in cu. in.	Unit qty.	Wt. lbs. per 100	Max. no. of conductors
LR50M HDG	½"	4.5	10	71	N/A
LR75M HDG	¾"	7.5	10	100	3 #6 AWG
LR100M HDG	1"	12.5	10	157	3 #4 XHHW
LR125M HDG	1¼"	32.0	5	332	3 #2 XHHW
LR150M HDG	1½"	35.3	5	345	3 #2 XHHW
LR200M HDG	2"	68.0	1	626	3 #4/0 XHHW
LR250M HDG	2½"	142.0	1	1105	3 #300MCM XHHW
LR300M HDG	3"	173.0	1	1437	3 #350MCM XHHW
LR350M HDG	3½"	292.0	1	2321	3 #350MCM XHHW
LR400M HDG	4"	324.0	1	2500	3 #350MCM XHHW



Type T

Cat. #	Size	Internal vol. in cu. in.	Unit qty.	Wt. lbs. per 100	Max. no. of conductors
T50M HDG	½"	6.0	10	111	N/A
T75M HDG	¾"	9.5	10	137	3 #6 AWG
T100M HDG	1"	15.0	10	196	3 #4 XHHW
T125M HDG	1¼"	33.0	5	332	3 #2 XHHW
T150M HDG	1½"	36.0	5	368	3 #1 XHHW
T200M HDG	2"	76.0	1	663	3 #2/0 XHHW
T250M HDG	2½"	142.0	1	1271	3 #300MCM XHHW
T300M HDG	3"	173.0	1	1547	3 #300MCM XHHW
T350M HDG	3½"	292.0	1	2542	3 #350MCM XHHW
T400M HDG	4"	324.0	1	2542	3 #350MCM XHHW

Form 5



Type TB

Cat. #	Size	Internal vol. in cu. in.	Unit qty.	Wt. lbs. per 100	Max. no. of conductors
TB50M HDG	½"	6.0	10	88	N/A
TB75M HDG	¾"	9.5	10	120	3 #6 AWG
TB100M HDG	1"	15.0	10	197	3 #6 AWG
TB125M HDG	1¼"	33.0	5	342	3 #6 AWG
TB150M HDG	1½"	36.0	5	420	3 #4 XHHW
TB200M HDG	2"	76.0	1	691	3 #1/0 XHHW



Type X

Cat. #	Size	Internal vol. in cu. in.	Unit qty.	Wt. lbs. per 100	Max. no. of conductors
X50M HDG	½"	6.0	10	139	N/A
X75M HDG	¾"	9.5	10	172	3 #6 AWG
X100M HDG	1"	15.0	10	247	3 #4 XHHW
X125M HDG	1¼"	33.0	5	416	3 #2 XHHW
X150M HDG	1½"	36.0	5	463	3 #1/0 XHHW
X200M HDG	2"	76.0	1	833	3 #2/0 XHHW



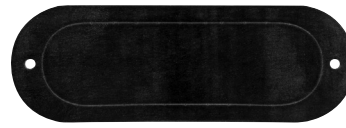
Sheet steel covers

Cat. #	Size	Unit qty.	Wt. lbs. per 100
K50S	½"	50	9
K75S	¾"	50	13
K100S	1"	25	19
K125S	1¼" and 1½"	20	31
K200S	2"	5	50
K250S	2½" and 3"	5	94
K350S	3½" and 4"	5	138



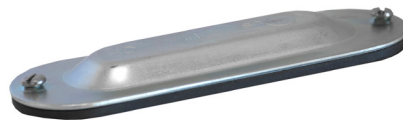
Cast iron covers

Cat. #	Size	Unit qty.	Wt. lbs. per 100
K50CM HDG	½"	50	23
K75CM HDG	¾"	50	31
K100CM HDG	1"	25	41
K125CM HDG	1¼" and 1½"	20	91
K200CM HDG	2"	5	208
K250CM HDG	2½" and 3"	5	358
K350CM HDG	3½" and 4"	5	550



Neoprene gaskets - perforated center

Cat. #	Size	Unit qty.	Wt. lbs. per 100
GK50N	½"	100	2.0
GK75N	¾"	100	2.0
GK100N	1"	50	2.9
GK125N	1¼" and 1½"	25	5.0
GK200N	2"	25	8.0
GK250N	2½" and 3"	25	16.0
GK350N	3½" and 4"	25	26.4



Integral gasket cover - sheet steel

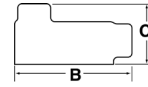
Cat. #	Size	Unit qty.	Wt. lbs. per 100
K50SG	½"	50	14
K75SG	¾"	50	16
K100SG	1"	25	46
K125SG	1¼" and 1½"	20	62
K200SG	2"	5	70
K250SG	2½" and 3"	5	190
K350SG	3½" and 4"	5	340

Form 5

Dimensions (in inches):

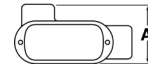
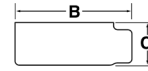
Type LB

Size	½	¾	1	1¼	1½	2	2½	3	3½	4
A	1.34	1.50	1.80	2.60	2.60	3.12	4.31	4.31	5.62	5.62
B	4.68	5.37	6.20	8.12	8.12	10.50	13.60	13.87	16.25	16.60
C	2.05	2.25	2.65	2.75	2.83	4.42	5.40	5.90	6.90	7.21



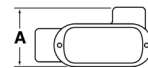
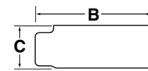
Type LL

Size	½	¾	1	1¼	1½	2	2½	3	3½	4
A	2.05	2.25	2.65	2.75	3.50	4.12	5.71	5.87	7.13	7.13
B	4.68	5.37	6.20	8.12	8.12	10.50	13.60	13.87	16.50	16.50
C	1.37	1.70	1.90	2.75	2.83	3.31	3.90	4.75	6.81	7.19



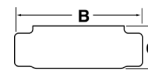
Type LR

Size	½	¾	1	1¼	1½	2	2½	3	3½	4
A	2.05	2.25	2.65	2.75	3.50	4.12	5.71	5.87	6.10	6.95
B	4.68	5.37	6.20	8.12	8.12	10.50	13.60	13.87	6.25	16.25
C	1.37	1.70	1.90	2.75	2.83	3.31	3.90	4.75	5.62	5.62



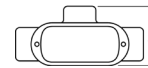
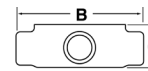
Type C

Size	½	¾	1	1¼	1½	2	2½	3	3½	4
A	1.34	1.50	1.80	2.60	2.60	3.12	4.31	4.31	4.88	4.88
B	5.38	6.00	7.05	9.00	9.00	11.50	15.00	15.12	18.13	18.13
C	1.37	1.70	1.90	2.75	2.83	3.31	3.90	4.75	5.19	5.56



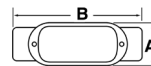
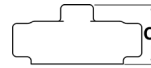
Type T

Size	½	¾	1	1¼	1½	2	2½	3	3½	4
A	2.05	2.25	2.65	2.75	3.50	4.12	5.71	5.87	6.81	7.15
B	5.38	6.00	7.05	9.00	9.00	11.50	15.00	15.12	18.13	18.13
C	1.34	1.50	1.80	2.60	2.60	3.12	4.31	4.31	5.19	5.56



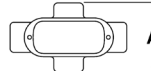
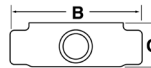
Type TB

Size	½	¾	1	1¼	1½	2
A	1.34	1.50	1.80	2.60	2.60	3.12
B	5.38	6.00	7.05	9.00	9.00	11.50
C	2.05	2.25	2.65	2.75	2.83	4.42



Type X

Size	½	¾	1	1¼	1½	2
A	2.79	2.93	3.56	4.43	4.43	5.40
B	5.41	6.08	7.10	9.10	9.10	11.75
C	1.75	1.97	2.25	2.55	2.75	3.45



Mogul bodies, covers and gaskets

Applications:

- Mogul bodies are installed in conduit systems to:
- Act as pull outlets for conductors that are stiff, due to large size or type of insulation
- Provide the longer openings needed when pulling large conductors
- Prevent sharp bends and kinks in large conductors (protects insulation during installation)
- Provide ample openings for splices and taps
- Provide access to wiring for maintenance and future system changes

Features:

Mogul bodies have:

- Long openings
- Provision for easy bends
- Taper tapped hubs with integral bushings
- Stainless steel cover screws
- Covers with integral gasket are provided with bodies
- Pre-installed rollers on select shapes and sizes (LB and C shapes, 1½" to 4") to aid in wire pulling

BUBXL moguls:

- Larger internal volume provides additional space for bending and pulling large conductors (complies with the 6X wire bending rule)
- Rollers improve the ability to pull larger conductors and protect the insulation when the wire is being pulled, greatly reducing cut cable incidents
- Cover design takes less time to install and can be used as a solid or with the center removed for more internal volume
- Covers with integral gasket are provided with bodies

Certifications and compliances:

UL standard: 514B

Fed. Spec.: W-C-586d

CSA standard: C22.2 No. 18

Standard material:

Feraloy iron alloy

Standard finish:

Feraloy – hot dip galvanized

Ordering information:



BC

Hub size	Cat. #
1"	BC3 HDG CG
1¼"	BC4 HDG CG
1½"	BC5 HDG WR CG
2"	BC6 HDG WR CG
2½"	BC7 HDG WR CG
3"	BC8 HDG WR CG
3½"	BC9 HDG WR CG
4"	BC10 HDG WR CG



BLB*

Hub size	Cat. #
1"	BLB3 HDG CG
1¼"	BLB4 HDG CG
1½"	BLB5 HDG WR CG
2"	BLB6 HDG WR CG
2½"	BLB7 HDG WR CG
3"	BLB8 HDG WR CG
3½"	BLB9 HDG WR CG
4"	BLB10 HDG WR CG



BUB

Hub size	Cat. #
1"	BUB3 HDG CG
1¼"	BUB4 HDG CG
1½"	BUB5 HDG CG
2"	BUB6 HDG CG
2½"	BUB7 HDG CG
3"	BUB8 HDG CG
3½"	BUB9 HDG CG
4"	BUB10 HDG CG



BT

Hub size	Cat. #
1"	BT3 HDG CG
1¼"	BT4 HDG CG
1½"	BT5 HDG CG
2"	BT6 HDG CG
2½"	BT7 HDG CG
3"	BT8 HDG CG
3½"	BT9 HDG CG
4"	BT10 HDG CG



BUBXL (extra large) with cover and gasket

Hub size	Cat. #
2"	BUBXL6 HDG
3"	BUBXL8 HDG



Blank replacement covers Feraloy iron alloy (all B series moguls except BUBXL)

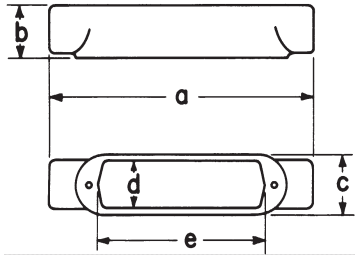
Size	Cat. # With round neoprene gasket
1" or 1¼"	BG48 HDG
1½" or 2"	BG68 HDG
2½" or 3"	BG88 HDG
3½" or 4"	BG98 HDG

*For 5" size, use catalog number LBD012. For 6" size, use catalog number LBD014.

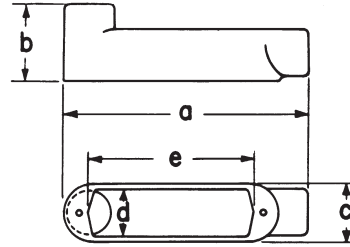
Mogul bodies, covers and gaskets

Dimensions (in inches):

BC



BLB



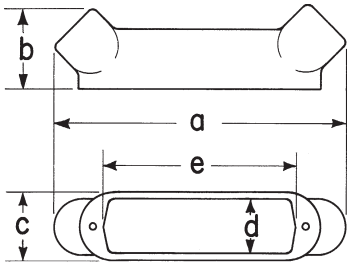
BC

Size	1"	1¼"	1½"	2"	2½"	3"	3½"	4"
a	9 ⁹ / ₁₆	9 ⁹ / ₁₆	13 ³ / ₄	13 ³ / ₄	18 ³ / ₈	18 ³ / ₈	23 ³ / ₄	23 ³ / ₄
b	1 ⁷ / ₈	2 ⁵ / ₁₆	2 ⁹ / ₁₆	3 ¹ / ₈	3 ⁵ / ₈	4 ³ / ₈	4 ⁷ / ₈	5 ³ / ₈
c	2 ³ / ₁₆	2 ³ / ₁₆	3	3	4 ¹ / ₄	4 ¹ / ₄	5 ¹ / ₄	5 ¹ / ₄
d	1 ⁷ / ₈	1 ⁷ / ₈	2 ⁵ / ₈	2 ⁵ / ₈	31 ³ / ₁₆	31 ³ / ₁₆	4 ³ / ₄	4 ³ / ₄
e	6	6	10	10	15	15	20	20

BLB

Hub size	1"	1¼"	1½"	2"	2½"	3"	3½"	4"
a	8 ¹⁹ / ₃₂	8 ¹⁹ / ₃₂	12 ¹¹ / ₁₆	12 ¹¹ / ₁₆	16 ²⁹ / ₃₂	16 ²⁹ / ₃₂	22 ¹ / ₈	22 ¹ / ₈
b	2 ²⁷ / ₃₂	3 ⁹ / ₃₂	3 ⁵ / ₈	4 ³ / ₁₆	5 ³ / ₃₂	5 ²⁷ / ₃₂	6 ¹ / ₂	7
c	2 ³ / ₁₆	2 ³ / ₁₆	3	3	4 ¹ / ₄	4 ¹ / ₄	5 ¹ / ₄	5 ¹ / ₄
d	1 ⁷ / ₈	1 ⁷ / ₈	2 ⁵ / ₈	2 ⁵ / ₈	3 ¹³ / ₁₆	3 ¹³ / ₁₆	4 ³ / ₄	4 ³ / ₄
e	6	6	10	10	15	15	20	20

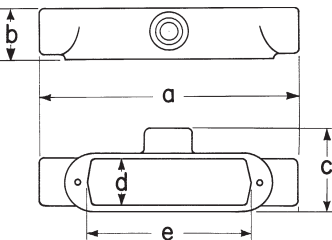
BUB



BUB

Size	1	1¼	1½	2	2½	3	3½	4
a	9 ³ / ₁₆	9 ⁵ / ₁₆	13 ¹ / ₂	13 ¹ / ₂	17 ³ / ₄	17 ⁷ / ₈	23 ³ / ₈	23 ³ / ₄
b	2 ¹¹ / ₁₆	3 ³ / ₁₆	3 ¹ / ₂	4 ¹ / ₈	4 ¹³ / ₁₆	5 ⁵ / ₈	6 ³ / ₈	6 ¹³ / ₁₆
c	2 ³ / ₁₆	2 ³ / ₁₆	3	3	4 ¹ / ₄	4 ¹ / ₄	5 ¹ / ₄	5 ¹ / ₄
d	1 ⁷ / ₈	1 ⁷ / ₈	2 ⁵ / ₈	2 ⁵ / ₈	3 ¹³ / ₁₆	3 ¹³ / ₁₆	4 ³ / ₄	4 ³ / ₄
e	6	6	10	10	15	15	20	20

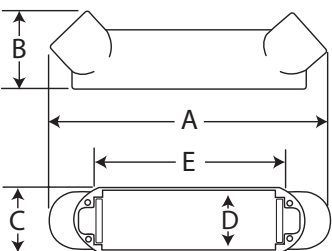
BT



BT

Size	1	1¼	1½	2	2½	3	3½	4
a	9 ⁹ / ₁₆	9 ⁹ / ₁₆	13 ³ / ₄	13 ³ / ₄	18 ³ / ₈	18 ³ / ₈	23 ³ / ₄	23 ³ / ₄
b	1 ⁷ / ₈	2 ⁵ / ₁₆	2 ⁹ / ₁₆	3 ¹ / ₈	3 ⁵ / ₈	4 ³ / ₈	4 ⁷ / ₈	5 ³ / ₈
c	3 ⁵ / ₃₂	3 ⁵ / ₃₂	4 ¹ / ₁₆	4 ¹ / ₁₆	5 ¹⁹ / ₃₂	5 ²³ / ₃₂	6 ⁷ / ₈	6 ⁷ / ₈
d	1 ⁷ / ₈	1 ⁷ / ₈	2 ⁵ / ₈	2 ⁵ / ₈	3 ¹³ / ₁₆	3 ¹³ / ₁₆	4 ³ / ₄	4 ³ / ₄
e	6	6	10	10	15	15	20	20

BUBXL



BUBXL

Size	2"	3"
a	15 ⁷ / ₂₅	22 ¹⁷ / ₂₀
b	4 ⁷ / ₁₀₀	5 ²⁹ / ₅₀
c	3	4 ¹ / ₄
d	2 ¹ / ₄	3 ¹⁹ / ₅₀
e	12 ¹ / ₄	15 ¹ / ₄

Three-piece couplings, clampbacks & clamps

Three-piece conduit couplings – hot dip galvanized malleable iron

Applications:

- Used to join two lengths of threaded conduit; couples conduit when conduit cannot be turned

Standard material:

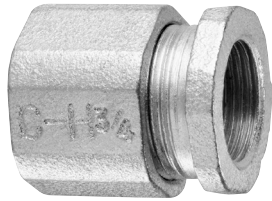
- Malleable iron

Standard finish:

- Hot dip galvanized

Malleable iron (concrete tight)

UL File No. E-19189

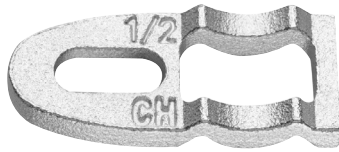


Clampbacks/spacers – hot dip galvanized iron

Applications:

- To provide space between conduit and mounting surface

UL File No. E-184283



Clamps – hot dip galvanized iron

Applications:

- To support rigid conduit and IMC to mounting surface

UL File No. E-184283



Three-piece conduit coupling

Cat. #	Size	Unit qty.	Wt. lbs. per 100
190M HDG	½"	25	23
191 HDG	¾"	25	35
192 HDG	1"	10	60
193 HDG	1¼"	5	91
194 HDG	1½"	5	167
195 HDG	2"	5	215
196 HDG	2½"	2	430
197 HDG	3"	1	463
198 HDG	3½"	1	655
199 HDG	4"	1	800
188 HDG*	5"	1	1200
189 HDG*	6"	1	2100

*Not UL listed.



Clampback/spacers

Cat. #	Size	Unit qty.	Wt. lbs. per 100
CB1 HDG	½"	25	8
CB2 HDG	¾"	25	10
CB3 HDG	1"	25	12
CB4 HDG	1¼"	25	21
CB5 HDG	1½"	25	42
CB6 HDG	2"	10	40
CB7 HDG	2½"	10	49
CB8 HDG	3"	10	62
CB9 HDG	3½"	10	91
CB10 HDG	4"	10	110
CB11 HDG*	5"	5	135
CB12 HDG*	6"	5	225

*Not UL listed.



Clamps

Cat. #	Size	Unit qty.	Wt. lbs. per 100
510 HDG	½"	100	6
511 HDG	¾"	50	8
512 HDG	1"	50	13
513 HDG	1¼"	25	20
514 HDG	1½"	20	30
515 HDG	2"	10	64
516 HDG†	2½"	5	104
517 HDG†	3"	2	120
518 HDG†	3½"	2	150
519 HDG†	4"	2	220
520 HDG*	5"	1	380
521 HDG*	6"	1	690

*Not UL listed.

†Also for use with thin wall (EMT) conduit.

Three-piece couplings, clampbacks & clamps

Conduit clamps – right angle type – hot dip galvanized iron

Applications:

- Right angle – to attach the conduit run at a 90° angle to a beam or structural member
- Parallel type – to attach the conduit run parallel to a beam or structural member



Conduit clamps

Cat. #	Size	Unit qty.	Wt. lbs. per 100
RAC50HD	½"	30	37
RAC75HD	¾"	50	40
RAC100HD	1"	60	42
RAC125HD	1¼"	75	49
RAC150HD	1½"	80	54
RAC200HD	2"	100	71
RAC250HD	2 ½"	125	95
RAC300HD	3"	165	107
RAC350HD	3½"	200	120
RAC400HD	4"	330	131

Conduit hubs



Conduit hubs

Cat. #	Size	Unit qty.	Wt. lbs. per 100
MHUB1 HDG	½"	25	18
MHUB2 HDG	¾"	25	25
MHUB3 HDG	1"	5	50
MHUB4 HDG	1¼"	5	25
MHUB5 HDG	1½"	2	20
MHUB6 HDG	2"	1	10
MHUB7 HDG	2½"	1	10
MHUB8 HDG	3"	1	5
MHUB9 HDG	3½"	1	5
MHUB10 HDG	4"	1	2
MHUB11 HDG	5"	1	1
MHUB12 HDG	6"	1	1

Conduit hubs – mechanically galvanized malleable iron

Applications:

- Ideal for terminating electrical conduit through the walls of enclosures
- Designed for use indoors or outdoors with rigid conduit and IMC, specific applications include food processing plants, distilleries, breweries, sewage disposal plants, chemical plants, paper processing mills and refineries

Features:

- Male thread type
- Tapered female thread for rigid conduit and IMC
- Recessed o-ring gasket assures raintight and secure environmental connections
- Insulated throat provides smooth pulling surface
- Locking screw on the nut doubles as a grounding screw for added safety
- Complete size range from ½" to 6"
- Hubs fit standard knockouts; no special tools required

Standard material:

- Malleable iron

Standard finish:

- Mechanically galvanized

Certifications and compliances:

- Class I, Division 2
- Class II, Divisions 1 & 2
- Class III, Divisions 1 & 2
- UL Standard 514B
- UL Listed – Certified by UL to CSA Standard C22.2 No. 18
- NEMA: FB-1
- Suitable for wet locations

XJG Rigid/IMC expansion couplings

XJG Rigid/IMC expansion couplings provide flexible, water-tight connections that protect rigid and IMC conduit wiring systems from damage caused by movement

Applications:

XJG expansion couplings are used with rigid metal conduit and IMC:

- To couple together two (2) sections of conduit subject to longitudinal movement
- In conduit runs to prevent damage to conduit supports such as in a building or on a bridge
- Indoors or outdoors in long conduit runs to permit linear movement caused by thermal expansion and contraction
- In conduit runs that cross structural joints
- On long conduit runs to prevent conduit from buckling and ensuing circuit failures

Features:

- Weatherproof and approved for use indoors or outdoors without an external bonding jumper
- Available in 1/2" through 6" trade sizes
- For use with rigid metal and IMC conduit
- Available in 4" and 8" maximum conduit movement
- Internal bonding springs and metallic bushings create high integrity internal ground connection and eliminate need for external bonding jumpers and clamps (up to 4" trade size)
- Optional redundant tinned copper bonding jumpers (BJ Series – ordered separately)
- UL Listed for use in wet locations
- Patented design

Certifications and Compliances:

- UL Standard: 514B
- CSA 22.2 No. 18 3-12
- NEMA FB1
- Wet locations
- Third party certified as an effective grounding means (i.e. the path to ground is permanent and continuous) for two sections of conduit subject to expansion or contraction

Options:

Available in copper-free aluminum **SA**
(Not available on 5" and 6" sizes)

Available hot dipped galvanized (standard on 1-1/4" and above)..... **HDG**

Available with redundant bonding jumper for visible indication of bonding – order separately (BJ Series)†

Materials and Finishes:

Body:

- Steel - electrogalvanized
- Copper-free aluminum - natural
- Feraloy® iron alloy - electrogalvanized (5" and 6" only)

Reducer and Gland Nut:

- 1/2" through 1" - steel - electrogalvanized
- 1-1/4" through 6" - Feraloy® iron alloy - hot dip galvanized and aluminum paint
- Copper-free aluminum - natural

Packing:

- PTFE composite

Washer and Bushing:

- Steel - electrogalvanized

Gasket:

- Vellum

Ground Springs:

- Phosphor bronze - electrogalvanized

Ground Strap:

- Braided tinned copper

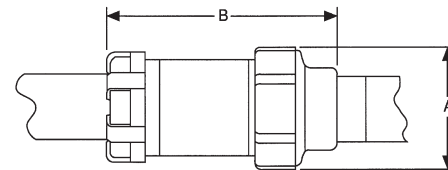
U-Bolts:

- Malleable iron - electrogalvanized



XJG shown with optional bonding jumper
Bonding jumper width: 0.188";
height: 0.875"

Dimensions (In.):



XJG Ordering Information:

Conduit Size	Max. Conduit Movement	XJG Cat. #	XJG - Alum. Cat. #	Optional Bonding Jumper†	A Diameter	B Length	Bonding Jumper Length
1/2	4	XJG14	XJG14 SA	BJ14	2.25"	7.00"	20"
1/2	8	XJG18	XJG18 SA	BJ18	2.25"	11.00"	30"
3/4	4	XJG24	XJG24 SA	BJ24	2.25"	7.00"	20"
3/4	8	XJG28	XJG28 SA	BJ28	2.25"	11.00"	30"
1	4	XJG34	XJG34 SA	BJ34	2.43"	7.38"	20"
1	8	XJG38	XJG38 SA	BJ38	2.43"	11.38"	30"
1-1/4	4	XJG44 HDG		BJ44	3.12"	7.56"	24"
1-1/4	8	XJG48 HDG		BJ48	3.12"	11.56"	30"
1-1/2	4	XJG54 HDG	XJG54 SA	BJ54	3.62"	8.00"	24"
1-1/2	8	XJG58 HDG	XJG58 SA	BJ58	3.62"	12.00"	30"
2	4	XJG64 HDG	XJG64 SA	BJ64	4.38"	8.75"	24"
2	8	XJG68 HDG	XJG68 SA	BJ68	4.38"	12.75"	30"
2-1/2	4	XJG74 HDG		BJ74	4.87"	10.00"	24"
2-1/2	8	XJG78 HDG		BJ78	4.87"	14.00"	36"
3	4	XJG84 HDG	XJG84 SA	BJ84	5.37"	10.25"	30"
3	8	XJG88 HDG	XJG88 SA	BJ88	5.37"	14.25"	36"
3-1/2	4	XJG94 HDG		BJ94	6.62"	10.00"	30"
3-1/2	8	XJG98 HDG		BJ98	6.62"	14.00"	36"
4	4	XJG104 HDG	XJG104 SA	BJ104	6.62"	9.81"	30"
4	8	XJG108 HDG	XJG108 SA	BJ108	6.62"	13.81"	36"
5	8	XJ128 HDG‡		—	7.64"	14.75"	—
6	8	XJ148 HDG‡		—	9.56"	15.13"	—

†XJG expansion couplings use a metallic bushing and ground springs to create a high integrity internal ground connection. External ground straps offer a redundant ground path and easy visible indication of ground.

‡XJ128 and XJ148 are not internally grounded. A pair of 36" bonding jumpers are provided with fitting.

XD deflection couplings

XD deflection couplings provide flexible, water-tight connections that protect rigid/IMC or PVC conduit wiring systems from damage caused by axial expansion and contraction up to $\frac{3}{4}$ " and angular and parallel misalignment

Applications:

XD couplings can be installed indoors, outdoors, buried underground or embedded in concrete in non-hazardous areas. XDs are used with standard rigid conduit or PVC rigid conduit. (PVC requires rigid metal conduit nipples and rigid metal-to-PVC conduit adapters.) XDs provide a flexible and water-tight connection for protection of conduit wiring systems from damage due to movement.

Typical applications include:

- Underground conduit feeder runs
- Runs between sections of concrete subject to relative movement
- Runs between fixed structures
- Conduit entrances in high-rise buildings
- Bridges
- Marinas, docks, piers

Features:

- XD couplings accommodate the following movements without collapsing or fracturing the conduit, and damaging the wires it contains:
 1. Axial expansion or contraction up to $\frac{3}{4}$ "
 2. Angular misalignment of the axes of the coupled conduit runs in any direction to 30°
 3. Parallel misalignment of the axes of coupled conduit runs in any direction to $\frac{3}{4}$ "
- Inner sleeve provides a smooth insulated wireway for protection of wire insulation
- Watertight flexible-neoprene outer jacket is corrosion resistant and protects the grounding strap and the attachment points of the hubs
- Tinned copper flexible braid bonding straps assure bonding continuity
- Stainless steel jacket clamps for strength and corrosion resistance
- Standard tapered electrical threads fit standard rigid conduit
- Integral hub bushing protects insulation of conductors

Size Ranges:

- 1" to 6" (smaller sizes can be obtained by using reducing bushings)

Certifications and Complies:

- UL Standard: 514B
- CSA 22.2 No. 18 3-12
- Wet locations

Materials and Finishes:

Hubs:

- Feraloy® iron alloy - hot dip galvanized

Outer Jacket:

- Molded neoprene - natural (black)

Jacket Clamps:

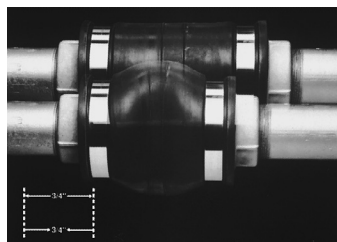
- Stainless steel - natural

Inner Sleeve:

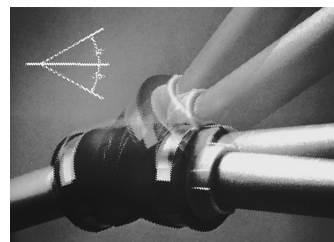
- Neoprene polyester fabric with steel coil

Bonding Strap:

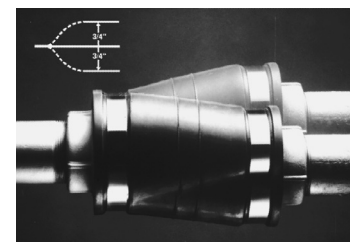
- Braided tinned copper



1. Axial expansion/contraction

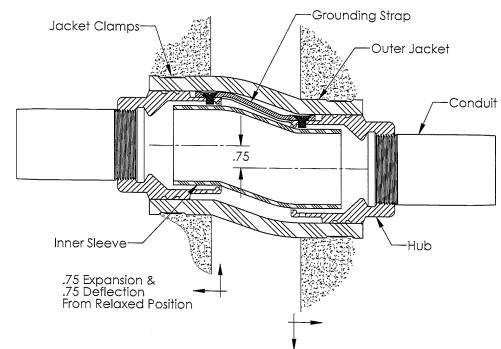
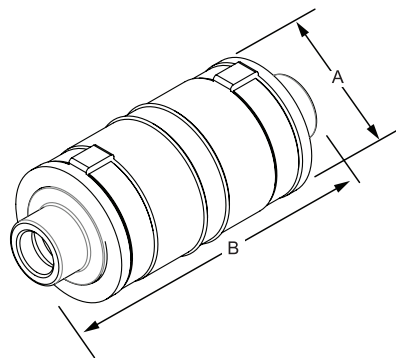


2. Angular misalignment



3. Parallel misalignment

Dimensions (In.):



XD Ordering Information:

Hub Size	Cat. #	A Diameter	B Length
1	XD3 HDG*	3.63"	8.63"
1-1/4	XD4 HDG	3.96"	8.75"
1-1/2	XD5 HDG	4.19"	8.78"
2	XD6 HDG	4.63"	9.16"
2-1/2	XD7 HDG	5.69"	9.53"
3	XD8 HDG	5.72"	10.13"
3-1/2	XD9 HDG	6.22"	10.81"
4	XD010 HDG	6.75"	11.88"
5	XD012 HDG	7.75"	12.50"
6	XD014 HDG	9.00"	13.50"

* $\frac{3}{4}$ " trade size can be created using third party certified 1" - $\frac{3}{4}$ " reducing bushings.

XJGD rigid/IMC expansion/deflection couplings

XJGD rigid/IMC expansion couplings provide flexible, water-tight connections that protect rigid and IMC conduit wiring systems from damage caused by expansion and contraction up to 4" and angular and parallel misalignment

Applications:

XJGD combination expansion/deflection couplings are used with rigid metal conduit and IMC:

- To couple together two (2) sections of conduit subject to longitudinal movement
- To accommodate axial expansion, angular misalignment and parallel misalignment:
- Indoors or outdoors in long conduit runs to permit linear and axial movement caused by thermal expansion and contraction
- To maintain electrical continuity without the need for an external bonding jumper and clamps
- In conduit runs that cross structural joints
- In conduit runs to prevent damage to conduit supports such as in a building or on a bridge
- On long conduit runs to prevent conduit from buckling and ensuing circuit failures

Materials and Finishes:

Body:

- Steel - electrogalvanized

Reducer and Gland Nut:

- 1/2" through 1" - Steel - electrogalvanized
- 1-1/4" through 4" - Feraloy® iron alloy - hot dip galvanized and aluminum paint

Hubs:

- Feraloy® iron alloy - hot dip galvanized

Packing:

- PTFE composite

Gasket:

- Vellum

Ground Springs:

- Phosphor bronze - electrogalvanized

XD Component Outer Jacket:

- Molded neoprene - natural (black)

XD Jacket Clamps:

- Stainless steel - natural

XD Inner Sleeve:

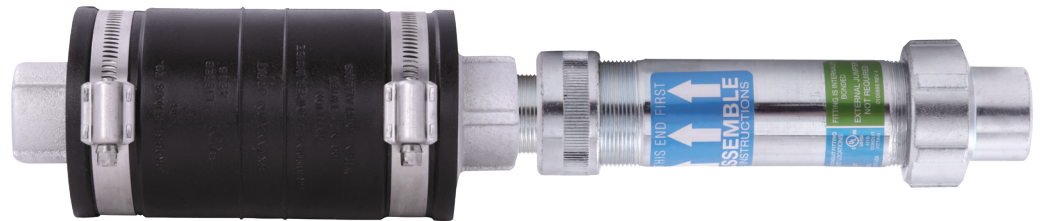
- Neoprene polyester fabric with steel coil

Bonding Strap:

- Braided tinned copper

Certifications and Compliances:

- UL Standard: 514B
- CSA 22.2 No. 18 3-12
- Wet locations



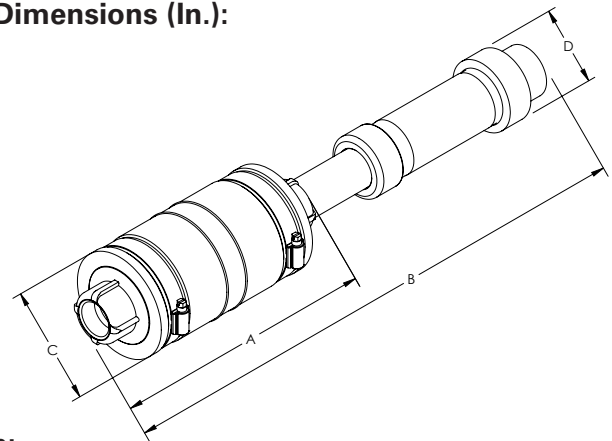
Features:

- XJGD fittings are weatherproof and approved for use indoors or outdoors without an external bonding jumper
- Available in 1/2" through 4" trade sizes
- For use with rigid metal and IMC conduit
- Available in 4" maximum conduit movement
- XJGD Couplings include XD couplings which accommodate the following movements without collapsing or fracturing the conduit, and damaging the wires it contains:
 1. Axial expansion or contraction up to 3/4"
 2. Angular misalignment of the axes of the coupled conduit runs in any direction to 30°
 3. Parallel misalignment of the axes of coupled conduit runs in any direction to 3/4"

- XD component includes inner sleeve which provides a smooth insulated wireway for protection of wire insulation
- XD component contains a watertight flexible neoprene outer jacket which is corrosion-resistant and protects the grounding strap and the attachment points of the hubs
- XD component includes stainless steel jacket clamps for strength and corrosion resistance

- XJG component includes internal bonding springs and metallic bushings to create high integrity internal ground connection and eliminate need for external bonding jumpers and clamps (up to 4" trade size)
- Optional redundant tinned copper flexible braid bonding jumpers assure continuity (BJ Series – ordered separately)
- UL Listed for use in wet locations
- NPT threads fit standard rigid conduit
- Patented design

Dimensions (In.):



XJGD Ordering Information:

Hub Size	XJGD Cat. #	A Length	B Length*	C Diameter	D Diameter
1	XJGD34	8.63"	16.26"	3.63"	2.43"
1-1/4	XJGD44	8.75"	16.54"	3.96"	3.12"
1-1/2	XJGD54	8.78"	16.83"	4.19"	3.62"
2	XJGD64	9.16"	19.31"	4.63"	4.38"
2-1/2	XJGD74	9.53"	19.80"	5.69"	4.87"
3	XJGD84	10.13"	20.47"	5.72"	5.37"
3-1/2	XJGD94	10.81"	21.00"	6.22"	6.62"
4	XJGD104	11.88"	21.97"	6.75"	6.62"

* (B) Length in fully retracted position, add 2" for mid-point length.

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