

XJG Conduit Expansion Joints With Internal Grounding For Rigid Metal Conduit and IMC

Wet Locations

7F

07F
Elbows, Couplings,
Fitting Devices,
Plugs, Etc.

Application:

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

- **without** the need for an external bonding jumper and clamps (up to 4")
- to couple together two (2) sections of conduit subject to longitudinal movement
- in long conduit runs to permit linear movement caused by thermal expansion and contraction.
- on long conduit runs to prevent conduit from buckling and ensuing circuit failures
- indoors or outdoors where conduit expansion occurs and there are wide temperature ranges
- 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
- **with optional redundant visible grounding strap**

Standard Materials and Finishes

Body

- Steel-electrogalvanized
- Copper-free aluminum - natural
- *Feraloy*[®] iron alloy - electrogalvanized (5" + 6" only)

Reducer

- ½" through 1" - Steel - electrogalvanized
- 1¼" through 6" - *Feraloy*[®] iron alloy - electrogalvanized and aluminum paint
- Copper-free aluminum - natural

Gland Nut

- ½" through 1" - Steel - electrogalvanized
- 1¼" through 6" - *Feraloy*[®] iron alloy - electrogalvanized and aluminum paint
- Copper-free aluminum - natural

Packing

- Teflon[®] (trademark of E.I. DuPont Co.)

Washer

- Steel - electrogalvanized
- Copper-free aluminum - natural

Gasket

- Vellum

Bushing

- ½" through 1" - Steel - electrogalvanized
- 1¼" through 6" - *Feraloy*[®] iron alloy - electrogalvanized and aluminum paint
- Copper-free aluminum - natural

Ground Springs

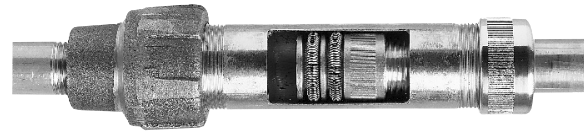
- Phosphor bronze - electrogalvanized

Ground Strap

- Braided tinned copper

U-Bolts

- Malleable iron - electrogalvanized



Patented Design

XJG – For use with rigid metal conduit and IMC

Conduit Size	Maximum Conduit Movement	Catalog Number	Optional Bonding Jumper†	A Diameter	B Length	Bonding Jumper Length
½	4	XJG14	BJ14	1.75	6.75	20"
	8	XJG18	BJ18	1.75	10.75	30"
¾	4	XJG24	BJ24	2.12	6.75	20"
	8	XJG28	BJ28	2.12	10.75	30"
1	4	XJG34	BJ34	2.43	7.25	20"
	8	XJG38	BJ38	2.43	11.25	30"
1¼	4	XJG44	BJ44	3.19	7.56	24"
	8	XJG48	BJ48	3.19	11.56	30"
1½	4	XJG54	BJ54	3.68	7.87	24"
	8	XJG58	BJ58	3.68	11.87	30"
2	4	XJG64	BJ64	4.75	8.25	24"
	8	XJG68	BJ68	4.75	12.25	30"
2½	4	XJG74	BJ74	4.87	9.31	24"
	8	XJG78	BJ78	4.87	13.31	36"
3	4	XJG84	BJ84	5.37	10.00	30"
	8	XJG88	BJ88	5.37	14.00	36"
3½	4	XJG94	BJ94	6.62	9.81	30"
	8	XJG98	BJ98	6.62	13.81	36"
4	4	XJG104	BJ104	6.62	9.81	30"
	8	XJG108	BJ108	6.62	13.81	36"
5	8	XJ128‡	-	7.64	15.50	-
6	8	XJ148‡	-	9.56	16.00	-

Options:

Available in copper-free aluminum – add suffix SA to Cat. No. (not available on 5" and 6" sizes)

Available with redundant† ground strap for visible indication of grounding – order separately (BJ Series)

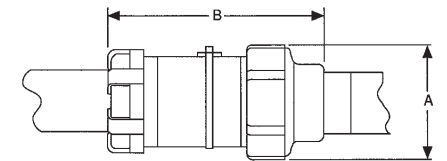
Size Ranges:

- ½" through 6" conduit size
- 4" and 8" maximum conduit movement

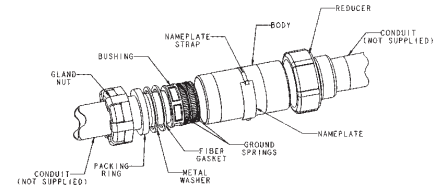
Certifications and Compliances:

- UL Standard: 514B
- CSA Standard: C22.2 No. 18
- NEC Articles 250-77 and 300-7 (b)
- NEMA FB1
- Wet Locations

Dimensions



XJG shown with optional bonding jumper



* Teflon[®] is a registered trademark of E.I. DuPont Co.

† 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.