

---

 TECHNICAL DATA SHEET

# Liquid-tight fittings - Series 5200ALGR Aluminum

## For liquid-tight flexible metallic conduit

### T&B Liquidtight Systems®



Revolver® Aluminum Grounding Fittings are ideal for use in corrosive environments and where light weight conduit systems are required.

#### Certifications / Standards:




---

#### Features & Benefits:

- Meets UL 514B and CSA C22.2, No. 18.3 for liquid-tight fittings
- Full compliance to IEC 61386-1, -23 requirements, CE Certified
- Trade sizes from 3/8" to 1" (12mm to 25.4mm)
- Straight and 90° conduit bodies
- NPT Threads
- Coordinated performance with T&B Liquidtight Systems Flexible Metallic Conduits
- Ingress protection ratings aligned with industrial enclosures
- Safe Edge® ground cones provide superior bonding
- Double Bevel Sealing Ring eases assembly and insures liquid-tight performance

---

#### Applications:

- Typical applications include raceway for industrial and commercial applications such as suspended electrical systems, corrosive environments and portable equipment, where light weight requirements must be met
- Aluminum LFMC are typically 35 to 40% lighter than steel core conduits
- Ideal for use with LTAE and LTLE aluminum LT Flexible Metallic Conduits
- Used where liquid-tight flexible metallic raceway is installed in outdoor or indoor locations, and exposed to continuous or intermittent moisture
- Used to positively bond flexible liquid-tight flexible metallic conduit to boxes or enclosures
- Liquid-tight applications against water, oils, cutting fluids, mild acids
- For use in electrical circuits up to 1,000 V
- Suitable for use in Class 1 Division 2, Class 2 Division 1 & 2 Hazardous Locations per NEC® Section 500

---

#### Construction / Material / Finish:

- Trade sizes 3/8" to 1" Copper-Free Aluminum
- Zinc plated steel ground cones
- Thermoplastic Nylon sealing rings
- Halogen Free thermoplastic seal rings
- Aluminum Cast Locknuts with teeth for vibration resistance

---

#### Environment ratings:

##### Working Temperature:

- UL: Gen: -20 to +105°C (-4 to +221°F)
- CSA: Gen: -20 to +105°C (-4 to +221°F)
- IEC/CE: Gen: -25 to +105°C (-13 to +221°F)

---

#### Chemical Resistance Guide:

- See Publication TDS000081 (Fittings: Aluminum & PA66 Polyamide)
- See Publication TDS000117 (Liquid-tight Flexible Metal Conduits)

---

#### Conforms to:

- UL 514B, Fittings for Cable and Conduit
  - File: E23018, E3060
- CSA C22.2, No. 18.3, Outlet and Conduit Boxes, Fittings and Accessories
  - File: LR-4484
- IEC/EN 61386-1, -23, Conduit Systems for Cable Management
  - EU DoC: EC-012-7188
- RoHS (Restriction of Hazardous Substance directive)
- NEMA FB-1 (Fittings and Conduit Bodies)
- JIC EGP1 (Electrical standard for GP machine tools)
- JIC EMP1 (Electrical Standard for Mass Production Engineering)
- Federal Specification A-A 50552 (Fittings for flexible conduit)
- Federal Specification H-28 (Threads)

---

#### Ingress Protection:

- Provides "Ingress Integrity" between enclosures, fittings, conduits & seals when using Series 5200ALGR liquid-tight fittings and T&B Liquidtight Systems LFMC
- Covers all trade sizes from 3/8" to 1" (12mm to 25.4mm)
- Ingress ratings require use of Series 5260 Seal Gaskets

#### UL, CSA & NEMA system ingress ratings:

- 5200ALGR UL Listed type ratings tested to UL 50E requirements with UL Listed LFMC
- UL File No.: E23018
  - Indoor: Type 4, 12, 13
  - Outdoor: Type 3, 3R, 4
- CSA C22.2, No. 94.2: Type 3, 3R, 4, 12, 13
- NEMA 250: Type 3, 3R, 4, 12, 13

#### IEC system ingress ratings:

- IP Ingress Protection per IEC 60529 requirements
- IEC Ingress Ratings: IP66, IP67

---

#### Standards requirements:

##### Designed to UL 514B and CSA C22.2, No. 18.3 test requirements including:

- Assembly, Pull, Resistance, Oil spray, Polymer durability, Flammability Coating thickness, Current withstand

##### Meets all IEC/EN 61386-1, -23 standard requirements including:

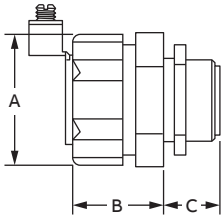
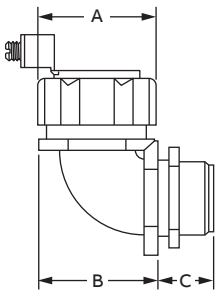
- Impact resistance - Code 3 Medium; 6 Joules
- Tensile strength - Code 3 Medium; 500 N/2 min.
- Lower and upper temperatures
- IP protection against solid and liquids

## Product selection

### Series 5200ALGR Aluminum LT Fittings

Trade size			Thread Type		Non-Insulated			Seal Gaskets
Inches	Metric	ISO BS EN	Standard	Size	Straight Part no.	45° Part no.	90° Part no.	Part no.
3/8"	12mm	16mm	NPT	1/2"	5231ALGR	—	5251ALGR	5262
1/2"	16mm	20mm	NPT	1/2"	5232ALGR	—	5252ALGR	5262
3/4"	21mm	25mm	NPT	3/4"	5233ALGR	—	5253ALGR	5263
1"	27mm	32mm	NPT	1"	5234ALGR	—	5254ALGR	5264
1 1/4"	35mm	40mm	NPT	1 1/4"	—	—	—	—
1 1/2"	41mm	50mm	NPT	1 1/2"	—	—	—	—
2"	53mm	63mm	NPT	2"	—	—	—	—
2 1/2"	63mm	70mm	NPT	2 1/2"	—	—	—	—
3"	78mm	80mm	NPT	3"	—	—	—	—
4"	103mm	100mm	NPT	4"	—	—	—	—

## Dimensions (approximate)

Drawing	Trade size			Inches			Millimeters			Weight	
	Inches	Metric	ISO BS EN	A	B	C	A	B	C	lbs.	kg
<b>Series 5200ALGR Straight LT Fittings</b>											
	3/8"	12mm	16mm	1 5/32"	1 5/16"	9/16"	29.4	23.8	14.3	0.07	0.03
	1/2"	16mm	20mm	1 3/8"	1"	9/16"	34.9	25.4	14.3	0.08	0.04
	3/4"	21mm	25mm	1 2 1/32"	1 1/4"	9/16"	42.1	27.0	14.3	0.12	0.06
	1"	27mm	32mm	1 7/8"	1 5/16"	3/4"	47.6	33.3	19.1	0.21	0.09
	1 1/4"	35mm	40mm	—	—	—	—	—	—	—	—
	1 1/2"	41mm	50mm	—	—	—	—	—	—	—	—
	2"	53mm	63mm	—	—	—	—	—	—	—	—
	2 1/2"	63mm	70mm	—	—	—	—	—	—	—	—
	3"	78mm	80mm	—	—	—	—	—	—	—	—
4"	103mm	100mm	—	—	—	—	—	—	—	—	
<b>Series 5200ALGR 90° LT Fittings</b>											
	3/8"	12mm	16mm	1 5/32"	1 3/8"	9/16"	29.4	34.9	14.3	0.09	0.04
	1/2"	16mm	20mm	1 3/8"	1 9/16"	9/16"	34.9	39.7	14.3	0.13	0.06
	3/4"	21mm	25mm	1 2 1/32"	1 3/4"	9/16"	42.1	44.5	14.3	0.17	0.07
	1"	27mm	32mm	1 7/8"	2 3/16"	3/4"	47.6	55.6	19.1	0.26	0.12
	1 1/4"	35mm	40mm	—	—	—	—	—	—	—	—
	1 1/2"	41mm	50mm	—	—	—	—	—	—	—	—
	2"	53mm	63mm	—	—	—	—	—	—	—	—
	2 1/2"	63mm	70mm	—	—	—	—	—	—	—	—
	3"	78mm	80mm	—	—	—	—	—	—	—	—
4"	103mm	100mm	—	—	—	—	—	—	—	—	

#### Note:

- Dimensions for reference only.
- Product must be installed in accordance with applicable national and local electrical codes.

ABB Inc.  
Electrification products  
Memphis, Tennessee  
USA

Let's write the future.  
Together. [abb.com](http://abb.com)

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB Inc. does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB Inc. Copyright© 2018 ABB Inc. All rights reserved