

## 52®/53® Series Liquidtight Fittings and Flexible Metallic Conduits

### External Bonding Liquidtight Flexible Metal Conduit Connectors

#### Application

- Used where external bonding jumper is required around liquidtight flexible metal conduit
- To positively bond conduit to box or enclosure
- Used where flexible raceway is installed in outdoor or indoors location where exposed to continuous or intermittent moisture

#### Features

- Designed with provision to install bonding jumper in several positions
- Designed to accept mechanical or compression lug
- Ability to install quickly with low torque effort
  - (1) Compressed metallic convolutions; ensures ground contact with low impedance and high raceway holding power (A)
  - (2) Single helical thread on ground cone is easy to install without cross thread; accepts variations in raceway diameters and convolution pitch (B)
  - (3) Rolled over edge protects conductors (C)
- Sealing ring design has following exclusive features:
  - (1) Grips and seals at leading and trailing edge — will not abrade raceway jacket (D)
  - (2) Provided with grooves on inside diameter for anti-sleeving (E)
  - (3) Shoulders on both ends for extra sealing (F)
  - (4) Symmetrical shape ensures foolproof assembly
- Can be disconnected and reused
- Watertight/oil-tight installation at box or enclosure termination is ensured by:
  - (1) External taper thread hub on 5331GR series and use of sealing gasket 5262 series (G)
  - (2) Taper tapped hole on 5271 series
- Suitable for use in Class I Division 2, Class II Division 1 & 2 and Class III Division 1 & 2 Hazardous Locations per NEC® Article 500

- Suitable as a bonding means per UL 467 and NEC Article 350.60
- Conforms with JIC requirements

#### Standard Material

##### 52/53GR Series

Lugs: High-conductivity copper (for copper conductor only)  
 Body, Gland, Locknut & Ground Cones: All steel or malleable iron  
 Sealing Ring and Insulator: All thermoplastic  
 Sealing Gasket: Stainless Steel and Santoprene®  
 Strap: Steel

##### 52ALGR Series

Copper-free aluminum

#### Standard Finish

##### 52/53GR Series

All Electro Zinc Plated and Chromate Coated except lugs

Lugs: Bright Dipped

##### 52ALGR Series

Zinc plating with clear chromate ground cones

#### Range

5331GR Series (straight connectors with male hub): 3/8" thru 6" conduit  
 5341GR Series (45°): 3/8" thru 4" conduit  
 5351GR Series (90°): 3/8" thru 4" conduit  
 5232ALGR Series: 3/8" thru 1" conduit  
 All hubs provided with taper pipe threads (NPT)

#### Listings/Compliances

UL File #E-23018

CSA

UL 467

UL 514B

CSA C22.2 No. 18

CSA22.2 No. 41

NEMA FB-1

NFPA 70

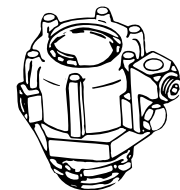
JIC EGP1

JIC EMP1

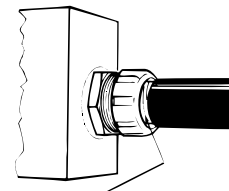
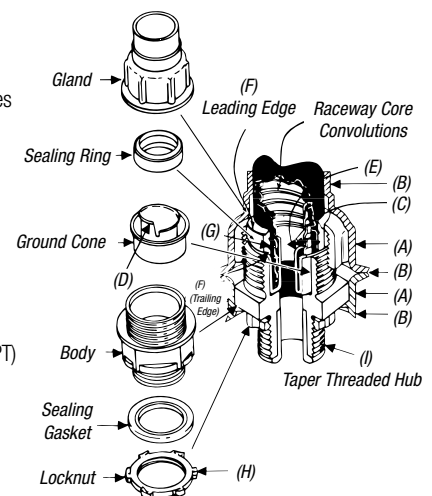
Federal Specification A-A-50552

Federal Standard H-28 (threads)

1 per C.E. Code, this method is not permissible.



Series 5331GR



#### Sleeving

Raceway Jacket pulls off — exposing core and affecting liquidtight termination. Feature (E) on sealing ring helps overcome this problem.

## 52®/53® Series Liquidtight Fittings and Flexible Metallic Conduits

### Straight Grounding Fittings



CAT. NO.			CONDUIT SIZE	DIMENSIONS (IN.)			GROUND WIRE (AWG)
STEEL INSULATED	STEEL NON-INSULATED	ALUMINUM NON-INSULATED		A	B	C	
5331GR**	5231GR*	5231ALGR*	3/8"	1 1/32	1 1/2	9/16	#14-#8
5332GR*	5232GR*	5232ALGR*	1/2"	1 3/8	1 7/8	9/16	#14-#8
5333GR*	5233GR*	5233ALGR*	3/4"	1 21/32	1 3/4	9/16	#14-#4
5334GR*	5234GR*	5234ALGR*	1"	1 7/8	2 1/8	3/4	#14-#4
5335GR	5235GR	—	1 1/4"	2 1/4	2 1/2	13/16	#8-1/0
5336GR	5236GR	—	1 1/2"	3 1/4	2 11/16	13/16	#4-2/0
5337GR	5237GR	—	2"	3 13/16	3 1/8	7/8	#4-2/0
5338GR	5238GR	—	2 1/2"	4 1/8	4 1/8	1	#2-4/0
5339GR	5239GR	—	3"	5 5/8	4 3/4	1	#2-4/0
5340GR	5240GR	—	4"	6 5/8	4 1/2	1 1/8	#2-4/0
5385GR	5285GR	—	5"	8 3/8	7	1 1/8	#2-4/0
5386GR	—	—	6"	8 17/32	8 1/2	2	#2-4/0

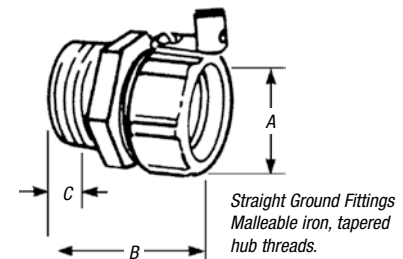


**Note:** Revolver® Grounding Device available on sizes 3/8"-1" only. To order Revolver® Grounding Device separately, use Catalog Nos. 38GR-TB for 3/8", 12GR-TB for 1/2", 34GR-TB for 3/4" and 1GR-TB for 1".

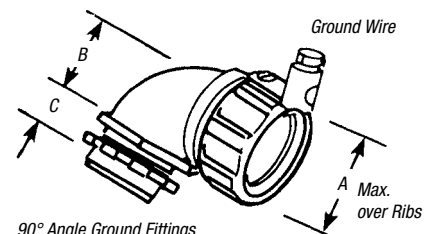
### 90° Angle Grounding Fittings



CAT. NO.			CONDUIT SIZE	DIMENSIONS (IN.)			GROUND WIRE (AWG)
STEEL INSULATED	STEEL NON-INSULATED	ALUMINUM NON-INSULATED		A	B	C	
5351GR**	5251GR**	5251ALGR*	3/8"	1 1/32	1 1/4	9/16	#14-#8
5352GR*	5252GR*	5252ALGR*	1/2"	1 3/8	1 7/8	9/16	#14-#8
5353GR*	5253GR*	5253ALGR*	3/4"	1 21/32	1 3/4	9/16	#14-#4
5354GR*	5254GR*	5254ALGR*	1"	1 7/8	2 1/8	3/4	#14-#4
5355GR*	5255GR	—	1 1/4"	2 1/4	2 1/2	13/16	#8-1/0
5356GR	5256GR	—	1 1/2"	3 1/4	2 15/16	13/16	#4-2/0
5357GR	5257GR	—	2"	3 13/16	3 1/8	7/8	#4-2/0
5358GR	5258GR	—	2 1/2"	4 1/8	8 3/8	1	#2-4/0
5359GR	5259GR	—	3"	5 5/8	10 1/4	1	#2-4/0
5360GR	5260GR	—	4"	6 5/8	12 5/8	1 1/8	#2-4/0



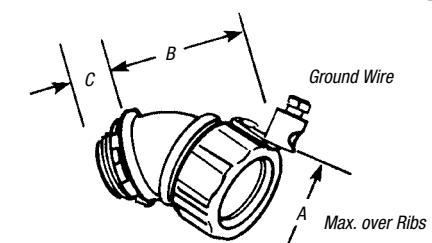
Straight Ground Fittings  
Malleable iron, tapered hub threads.



90° Angle Ground Fittings  
Malleable iron tapered hub threads.

### 45° Angle Grounding Fittings

CAT. NO.		CONDUIT SIZE	DIMENSIONS (IN.)			GROUND WIRE (AWG)
INSULATED	NON-INSULATED		A	B	C	
5341GR**	5241GR**	3/8"	1 1/32	1 1/8	9/16	#14-#8
5342GR*	5242GR*	1/2"	1 3/8	1 7/8	9/16	#14-#8
5343GR*	5243GR*	3/4"	1 21/32	2 1/8	9/16	#14-#4
5344GR*	5244GR*	1"	1 7/8	2 1/4	3/4	#14-#4
5345GR	5245GR	1 1/4"	2 1/4	2 3/4	13/16	#8-1/0
5346GR	5246GR	1 1/2"	3 1/4	3 3/8	13/16	#4-2/0
5347GR	5247GR	2"	3 13/16	3 3/8	7/8	#4-2/0
5348GR	5248GR	2 1/2"	4 1/8	4 3/4	1	#2-4/0
5349GR	5249GR	3"	5 5/8	4 3/4	1	#2-4/0
5350GR	5250GR	4"	6 5/8	4 3/4	1 1/8	#2-4/0



45° Angle Ground Fittings  
Malleable iron, tapered hub threads.

\* 3/8"-1" fittings include Revolver® grounding device. For sizes 1 1/4" and up, fittings are supplied with a copper mechanical lug.

\*\* 3/4" conduit fittings have 1/2" trade size hub. With safe-edge ground cone (through 4") and double bevel sealing ring (through 2").

UL Listed liquidtight; and CSA Certified watertight. Suitable for hazardous locations use in Class I, Div. 2; Class II, Div. 1 and 2; Class III, Div. 1 and 2, where general purpose equipment is specifically permitted per NEC®. Available with DURA-PLATE® Finish. UL File No. E 3060 CSA File No. 638