

FM7™ Conduit Outlet Bodies, Covers and Gaskets

For use with Rigid Steel, Rigid Aluminum and IMC Conduit.

NEC/CEC — Suitable for use in the following
Hazardous Locations:
Class I, Division 2 per NEC 501.10(B)(4)

Applications

- Serve as pulling fittings.
- Make bends in conduit system.
- Provide openings for splicing.
- Connect and change direction of conduit runs.
- Allow connections for branch runs.
- Permit access to conductors for maintenance.

Features

- Smooth, rounded integral bushings in hubs protect conductor insulation.
- Accurately tapped, tapered threads for tight, rigid joints and excellent ground continuity.
- Wedge-Lok™ Form-IN-Place covers with integral gasket are approved for use in wet locations. Grayloy-iron bodies with cast covers and gasket are approved for use in wet locations.
- Unique Wedge-Lok™ clip cover design allows easy removal at any later time, without damaging the conduit body. The cover is secured with clips, not screws.
- Completely interchangeable with Crouse-Hinds™ Form 7™ bodies, gaskets and covers. Equivalent FM7™ and Form 7™ units have identical applications and installation dimensions.
- Flat back design provides greater cubic content for easier wire pulling, and more room for splicing. Fits flush and snug against flat surfaces for more stable installation.
- Smooth hub bushings and cover openings protect conductor insulation. Smooth hub openings allow easy conduit joining.
- Pan-head cover screws secure cover clips and provide superior screwdriver seating and torque. Cover screws and clips are captive to prevent loss.
- Hub size, body style, compliance data, maximum wire number/size and cubic capacity molded into body.

Standard Materials

- Body: Grayloy-iron or copperfree (4/10 of 1% max.) aluminum
- Covers: Grayloy-iron, copperfree (4/10 of 1% max.) aluminum or steel
- Cover screws: stainless steel

Standard Finishes

- Grayloy-iron bodies and covers: triplecoat — (1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- Cast aluminum bodies and covers: epoxy powder coat
- Steel covers: zinc electroplate
- Stamped aluminum covers: natural finish

Options

- PVC coating available on select bodies and covers. Add suffix -PVC to catalog number.

NEC/GEC Certifications and Compliances

- UL Standard: 514A , 514B
- UL Listed: E2527
- CSA Standard: C22.2 No. 18.3
- CSA Certified: 065183
- NEMA Standard: FB-1



Type LB

Illustrated Features



Conduit Body with Cast Aluminum Cover, 1" Type C shown



Grayloy™-Iron, 1" Type C shown with cut-away body and cover to illustrate Wedge-Lok™ Clip Cover detail

Illustrated views are cut away to demonstrate back configurations.



Appleton™ FM7™ (C57, 1-1/2")
28 Cubic Inches Capacity
Flat-Back Design



Crouse-Hinds Form 7™
(C57, 1-1/2")
26 Cubic Inches Capacity




† Crouse-Hinds and Form 7™ are registered trademarks of Cooper Crouse-Hinds.




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Appleton™ FM7™ Conduit Bodies ①

| Hub Size (Inches) | Max. Wire Fill | C | | Max. Wire Fill | LB | | Max. Wire Fill | LL | |
|----------------------|-------------------|---|---------------|-------------------|---|-----------------|-------------------|---|-----------------|
| | | Grayloy-Iron | Aluminum ④ | | Grayloy-Iron | Aluminum ④ | | Grayloy-Iron | Aluminum ④ |
| | |  | | |  | | |  | |
| 1/2 | ③ | C17 | C-17SA | ③ | LB17 | LB-17SA | ③ | LL17 | LL-17SA |
| 3/4 | (3) # 6 | C27 | C-27SA | (3) # 6 | LB27 | LB-27SA | (3) # 6 | LL27 | LL-27SA |
| 1 | (3) # 4 | C37 | C-37SA | (3) # 4 | LB37 | LB-37SA | (3) # 4 | LL37 | LL-37SA |
| 1-1/4 | (3) # 3 | C47 | C-47SA | (3) # 3 | LB47 | LB-47SA | (3) # 2 | LL47 | LL-47SA |
| 1-1/2 | (3) # 3 | C57 | C-57SA | (3) # 3 | LB57 | LB-57SA | (3) # 2 | LL57 | LL-57SA |
| 2 | (3) # 1/0 | C67 | C-67SA | (3) # 1/0 | LB67 | LB-67SA | (3) # 3/0 | LL67 | LL-67SA |
| 2-1/2 | (3) 2/0 | C77 | C-77SA | (3) 3/0 | LB77 | LB-77SA | (3) 250 | LL77 | LL-77SA |
| 3 | (3) 2/0 | C87 | C-87SA | (3) 2/0 | LB87 | LB-87SA | (3) 250 | LL87 | LL-87SA |
| 3-1/2 | — | — | — | (3) 300 | LB97 | LB-97SA | (3) 350 | LL97 | LL-97SA |
| 4 | — | — | — | (3) 350 | LB107 | LB-107SA | (3) 350 | LL107 | LL-107SA |

| Hub Size (Inches) | Max. Wire Fill | E | | Max. Wire Fill | L ② | | Max. Wire Fill | TA | |
|----------------------|-------------------|---|---------------|-------------------|---|------------|-------------------|---|----------|
| | | Grayloy-Iron | Aluminum | | Grayloy-Iron | Aluminum ④ | | Grayloy-Iron | Aluminum |
| | |  | | |  | | |  | |
| 1/2 | ③ | E17 | E-17SA | ③ | L17 | — | ③ | TA17 | — |
| 3/4 | (3) # 6 | E27 | E-27SA | (3) # 6 | L27 | — | (3) # 6 | TA27 | — |
| 1 | (3) # 4 | E37 | E-37SA | (3) # 4 | L37 | — | (3) # 4 | TA37 | — |
| 1-1/4 | — | — | — | (3) # 2 | L47 | — | (3) # 3 | TA47 | — |
| 1-1/2 | — | — | — | (3) # 2 | L57 | — | (3) # 2 | TA57 | — |
| 2 | — | — | — | (3) # 2 | L67 | — | (3) # 2 | TA67 | — |

① Refer to following pages for Wiring Capacity Table.
② L Unilets have double opening and are furnished with one steel cover, assembled.
③ All 1/2" Max Wire Fill Calculations per the NEC - Annex C - Table C8.
④ PVC coating available on select aluminum bodies. Add suffix **-PVC** to catalog number.

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NEC/CEC — Suitable for use in the following
Hazardous Locations:
Class I, Division 2 per NEC 501.10(B)(4)

Wiring Capacity: Combine Body and Cover Capacities for Total Usable Capacity per NEC 314.16(A)

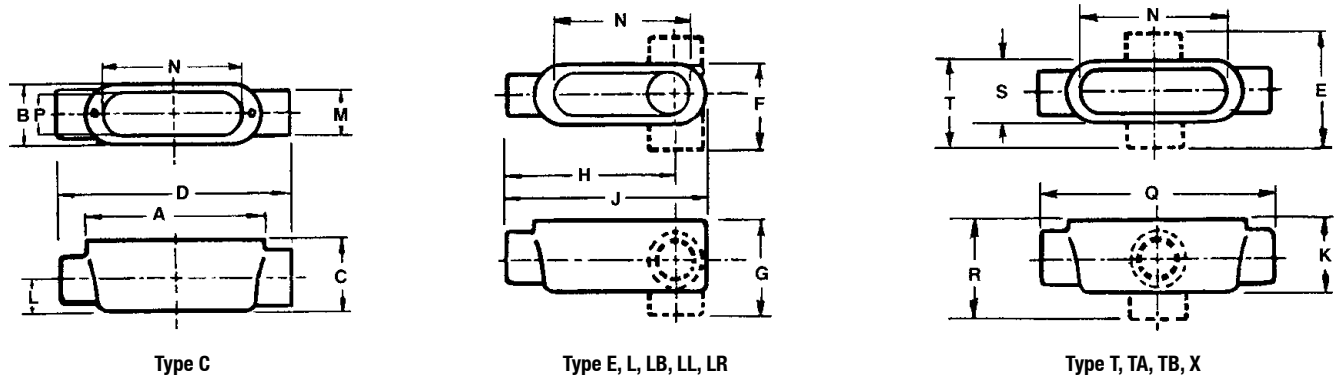
| Hub Size (Inches) | Capacity — dm ³ (in ³) | | | | | | | | | Stamped Cover | Cast Cover |
|---|---|-----------------|------------------|------------------|-----------------|------------------|-----------------|-----------------|-----------------|------------------|-----------------|
| | C | E | LB | LL LR | L | T | TA | TB | X | | |
| FM7™ Grayloy™-Iron Bodies and Covers: Threaded | | | | | | | | | | | |
| 1/2 | 0.07 (4.00) | 0.07 (4.00) | 0.07 (4.00) | 0.07 (4.00) | 0.08 (5.00) | 0.10 (6.00) | 0.10 (6.00) | 0.10 (6.00) | 0.10 (6.00) | 0.00 (0.30) | 0.01 (0.40) |
| 3/4 | 0.11 (7.00) | 0.11 (7.00) | 0.11 (7.00) | 0.11 (7.00) | 0.15 (9.00) | 0.16 (10.00) | 0.16 (10.00) | 0.16 (10.00) | 0.16 (10.00) | 0.01 (0.50) | 0.01 (0.80) |
| 1 | 0.18 (11.00) | 0.18 (11.00) | 0.18 (11.00) | 0.18 (11.00) | 0.22 (13.50) | 0.25 (15.50) | 0.25 (15.50) | 0.25 (15.50) | 0.25 (15.50) | 0.02 (1.30) | 0.02 (1.30) |
| 1-1/4 | 0.33 (20.00) | — | 0.33 (20.00) | 0.33 (20.00) | 0.37 (22.50) | 0.33 (20.00) | 0.33 (20.00) | 0.33 (20.00) | 0.33 (20.00) | 0.03 (1.80) | 0.03 (2.00) |
| 1-1/2 | 0.46 (28.00) | — | 0.46 (28.00) | 0.46 (28.00) | 0.51 (31.00) | 0.46 (28.00) | 0.46 (28.00) | 0.46 (28.00) | 0.46 (28.00) | 0.04 (2.30) | 0.05 (3.00) |
| 2 | 0.82 (50.00) | — | 0.82 (50.00) | 0.82 (50.00) | 0.82 (50.00) | 0.82 (50.00) | 0.82 (50.00) | 0.82 (50.00) | 0.82 (50.00) | 0.05 (2.80) | 0.08 (4.80) |
| 2-1/2 | 1.67 (102.00) | — | 1.67 (102.00) | 1.67 (102.00) | — | 1.67 (102.00) | — | — | — | 0.16 (9.80) | 0.16 (9.70) |
| 3 | 2.18 (133.00) | — | 2.18 (133.00) | 2.18 (133.00) | — | 2.18 (133.00) | — | — | — | 0.16 (9.80) | 0.16 (9.70) |
| 3-1/2 | — | — | 3.57 (218.00) | 3.57 (218.00) | — | 3.57 (218.00) | — | — | — | 0.27 (16.50) | 0.26 (16.00) |
| 4 | — | — | 4.00 (244.00) | 4.00 (244.00) | — | 4.00 (244.00) | — | — | — | 0.27 (16.50) | 0.26 (16.00) |
| FM7™ Aluminum Bodies and Covers: Threaded | | | | | | | | | | | |
| 1/2 | 0.07 (4.00) | 0.07 (4.00) | 0.07 (4.00) | 0.07 (4.00) | — | 0.10 (6.00) | — | 0.10 (6.00) | 0.10 (6.00) | 0.005 (0.30) | 0.007 (0.40) |
| 3/4 | 0.11 (7.00) | 0.11 (7.00) | 0.11 (7.00) | 0.11 (7.00) | — | 0.16 (10.00) | — | 0.16 (10.00) | 0.16 (10.00) | 0.008 (0.50) | 0.01 (0.80) |
| 1 | 0.18 (11.00) | 0.18 (11.00) | 0.18 (11.00) | 0.18 (11.00) | — | 0.25 (15.50) | — | 0.25 (15.50) | 0.25 (15.50) | 0.02 (1.30) | 0.02 (1.30) |
| 1-1/4 | 0.33 (20.00) | — | 0.33 (20.00) | 0.33 (20.00) | — | 0.33 (20.00) | — | 0.33 (20.00) | 0.33 (20.00) | 0.03 (1.80) | 0.03 (2.00) |
| 1-1/2 | 0.46 (28.00) | — | 0.46 (28.00) | 0.46 (28.00) | — | 0.46 (28.00) | — | 0.46 (28.00) | 0.46 (28.00) | 0.04 (2.30) | 0.05 (3.00) |
| 2 | 0.82 (50.00) | — | 0.82 (50.00) | 0.82 (50.00) | — | 0.82 (50.00) | — | 0.82 (50.00) | 0.82 (50.00) | 0.05 (2.80) | 0.08 (4.80) |
| 2-1/2 | 1.67 (102.00) | — | 1.67 (102.00) | 1.67 (102.00) | — | 1.67 (102.00) | — | — | — | 0.16 (9.80) | 0.16 (9.70) |
| 3 | 2.18 (133.00) | — | 2.18 (133.00) | 2.18 (133.00) | — | 2.18 (133.00) | — | — | — | 0.16 (9.80) | 0.16 (9.70) |
| 3-1/2 | — | — | 3.57 (218.00) | 3.57 (218.00) | — | 3.57 (218.00) | — | — | — | 0.27 (16.50) | 0.26 (16.00) |
| 4 | — | — | 4.00 (244.00) | 4.00 (244.00) | — | 4.00 (244.00) | — | — | — | 0.27 (16.50) | 0.26 (16.00) |

FM7™ Conduit Outlet Bodies, Covers and Gaskets

For use with Rigid Steel, Rigid Aluminum and IMC Conduit.

NEC/CEC:
Class I, Division 2
NEMA 3R

Dimensions in Millimeters (Inches)



| Hub Size (Inches) | Dimensions in Millimeters (Inches) | | | | | | | | | | | | | | | | | | |
|-------------------|------------------------------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|------------------|------------------|-----------------|----------------|-----------------|------------------|-----------------|------------------|-----------------|-----------------|-----------------|--|
| | A | B | C | D | E | F | G | H | J | K | L | M | N | P | Q | R | S | T | |
| 1/2 | 92.2 (3.63) | 35.1 (1.38) | 35.1 (1.38) | 136.7 (5.38) | 84.1 (3.31) | 57.2 (2.25) | 57.2 (2.25) | 100.1 (3.94) | 115.8 (4.56) | 44.5 (1.75) | 16.0 (0.63) | 31.8 (1.25) | 81.0 (3.19) | 23.9 (0.94) | 143.0 (5.63) | 66.8 (2.63) | 39.6 (1.56) | 62.0 (2.44) | |
| 3/4 | 108.0 (4.25) | 39.6 (1.56) | 41.4 (1.63) | 152.4 (6.00) | 88.9 (3.50) | 62.0 (2.44) | 63.5 (2.50) | 112.8 (4.44) | 131.8 (5.19) | 50.8 (2.00) | 19.1 (0.75) | 38.1 (1.50) | 96.8 (3.81) | 28.7 (1.13) | 158.8 (6.25) | 73.2 (2.88) | 47.8 (1.88) | 66.8 (2.63) | |
| 1 | 127.0 (5.00) | 44.5 (1.75) | 47.8 (1.88) | 177.8 (7.00) | 98.6 (3.88) | 69.9 (2.75) | 73.2 (2.88) | 131.8 (5.19) | 152.4 (6.00) | 57.2 (2.25) | 22.4 (0.88) | 44.5 (1.75) | 114.3 (4.50) | 35.1 (1.38) | 184.2 (7.25) | 82.6 (3.25) | 50.8 (2.00) | 76.2 (3.00) | |
| 1-1/4 | 139.7 (5.50) | 55.6 (2.19) | 58.7 (2.31) | 189.0 (7.44) | 104.9 (4.13) | 81.0 (3.19) | 84.1 (3.31) | 138.2 (5.44) | 165.1 (6.50) | 58.7 (2.31) | 28.7 (1.13) | 55.6 (2.19) | 127.0 (5.00) | 44.5 (1.75) | 189.0 (7.44) | 84.1 (3.31) | 55.6 (2.19) | 81.0 (3.19) | |
| 1-1/2 | 152.4 (6.00) | 62.0 (2.44) | 65.0 (2.56) | 208.0 (8.19) | 117.6 (4.63) | 88.9 (3.50) | 93.7 (3.69) | 150.9 (5.94) | 181.1 (7.13) | 65.0 (2.56) | 31.8 (1.25) | 62.0 (2.44) | 138.2 (5.44) | 49.3 (1.94) | 208.0 (8.19) | 92.2 (3.63) | 62.0 (2.44) | 90.4 (3.56) | |
| 2 | 177.8 (7.00) | 76.2 (3.00) | 79.5 (3.13) | 233.4 (9.19) | 131.8 (5.19) | 103.1 (4.06) | 108.0 (4.25) | 168.4 (6.63) | 206.5 (8.13) | 79.5 (3.13) | 38.1 (1.50) | 76.2 (3.00) | 162.1 (6.38) | 62.0 (2.44) | 233.4 (9.19) | 106.4 (4.19) | 76.2 (3.00) | 104.9 (4.13) | |
| 2-1/2 | 228.6 (9.00) | 108.0 (4.25) | 92.2 (3.63) | 304.8 (12.00) | — | 146.1 (5.75) | 130.3 (5.13) | 222.3 (8.75) | 266.7 (10.50) | 92.2 (3.63) | 44.5 (1.75) | 88.9 (3.50) | 212.9 (8.38) | 90.4 (3.56) | 304.8 (12.00) | — | 108.0 (4.25) | 146.1 (5.75) | |
| 3 | 228.6 (9.00) | 108.0 (4.25) | 111.3 (4.38) | 304.8 (12.00) | — | 146.1 (5.75) | 149.4 (5.88) | 212.9 (8.38) | 266.7 (10.50) | 111.3 (4.38) | 54.1 (2.13) | 108.0 (4.25) | 212.9 (8.38) | 90.4 (3.56) | 306.3 (12.06) | — | 108.0 (4.25) | 146.1 (5.75) | |
| 3-1/2 | 279.4 (11.00) | 133.4 (5.25) | 124.0 (4.88) | — | — | 176.3 (6.94) | 166.6 (6.56) | 260.4 (10.25) | 322.3 (12.69) | 124.0 (4.88) | 60.5 (2.38) | 120.7 (4.75) | 260.4 (10.25) | 114.3 (4.50) | 363.5 (14.31) | — | 133.4 (5.25) | 176.3 (6.94) | |
| 4 | 279.4 (11.00) | 133.4 (5.25) | 136.7 (5.38) | — | — | 176.3 (6.94) | 179.3 (7.06) | 254.0 (10.00) | 322.3 (12.69) | 136.7 (5.38) | 66.8 (2.63) | 133.4 (5.25) | 260.4 (10.25) | 114.3 (4.50) | 363.5 (14.31) | — | 133.4 (5.25) | 176.3 (6.94) | |

Fraction/Decimal Equivalents (Inches)

| Fraction | Decimal | Fraction | Decimal | Fraction | Decimal | Fraction | Decimal |
|----------|---------|----------|---------|----------|---------|----------|---------|
| 1/16 | 0.06 | 5/16 | 0.31 | 9/16 | 0.56 | 13/16 | 0.81 |
| 1/8 | 0.13 | 3/8 | 0.38 | 5/8 | 0.63 | 7/8 | 0.88 |
| 3/16 | 0.19 | 7/16 | 0.44 | 11/16 | 0.69 | 15/16 | 0.94 |
| 1/4 | 0.25 | 1/2 | 0.50 | 3/4 | 0.75 | 1 | 1.00 |