

## Unilet® Conduit Outlet Bodies: FM7™, FM8®, Form 35® and Form 85™

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

### 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: Unilet® conduit outlet bodies

- Roomy interiors: more wiring space.
- Smooth, rounded integral bushings in hubs protect conductor insulation.
- Accurately tapped, tapered threads for tight, rigid joints and excellent ground continuity.

### Features: FM7™ Series

- ① FM7 Grayloy™-Iron Unilets: most economical conduit bodies for use where the special advantages of malleable iron or aluminum are not required.
- ② FM7 Aluminum Unilets: same dimensions and design features as FM7 Grayloy™-Iron, plus light weight, high corrosion resistance.
- Unique Wedge-Lok™ clip covers allow easy removal. No retapping of corroded body screw holes is necessary to replace cover.
- 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.
- FM7 Grayloy™-Iron with “FG” Series cast covers and gaskets are approved for use in wet locations.
- Smooth hub bushings and cover openings protect conductor insulation. Smooth hub openings allow easy conduit joining.



FM7



① FM7 Grayloy™-iron, 1” Type C shown with cut-away body and cover to illustrate Wedge-Lok™ Clip Cover detail.



② FM7 Aluminum Conduit Body with Cast Aluminum Cover. 1” Type C shown.



③ FM8 Grayloy™-iron Conduit Body with cast cover, 1” Type C shown.



④ Form 35 Malleable. 2” Type LB with rollers shown.



⑤ Form 85 Aluminum Conduit Body with Stamped Aluminum Cover. 2” Type C shown.

- 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, and compliance data molded into body in large, easy-to-read form. Also maximum wire number/size and cubic capacity.

### Features: FM8® Series

- ⑥ Completely interchangeable with Crouse-Hinds Form 8\* bodies, gaskets and covers. Equivalent FM8 and Form 8\* units have identical applications and installation dimensions.
- Flat back design provides greater cubic content for easier wire pulling and more room for splicing.

- FM8 Grayloy™-iron with “FG” Series cast covers and gaskets are approved for use in wet locations.
- Stainless steel screws on stamped and cast covers.
- Smooth hub bushings and cover openings protect conductor insulation. Smooth hub openings allow easy conduit joining.

\*Form 7 and Form 8 are products of Crouse-Hinds, a member company of Cooper Industries.



FM8

## Unilet® Conduit Outlet Bodies: FM7™, FM8®, Form 35® and Form 85™

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

### Features: Form 35®

④ Form 35 malleable iron Unilets: high tensile strength and ductility. High corrosion-resistance, high impact and shock resistance.

● Exclusive built-in easy-pulling rollers in type C (1-1/4" thru 4") and type LB (1-1/4" thru 4")— eliminate damage when cable is pulled through hubs.

● Sizes with flat-back design ideal where fitting is mounted flat against surface.

● Complete line of conduit bodies, covers and receptacles.

● Blank covers domed for extra wiring space.



Form 35



Form 35

### Features: Form 85™

④ Form 85 aluminum Unilets: copper-free aluminum (max. 4/10 of 1% copper content). Lightweight, high corrosion resistance. Self-oxidizing, self-renewing.

● Lightweight aluminum facilitates shipping, handling and installing.

● Sizes with flat-back design ideal where fitting is mounted flat against surface.

● Complete line of conduit bodies, covers and receptacles.

● Blank covers domed for extra wiring space.



Form 85

### Standard Materials

● Form 35 Unilet conduit outlet bodies: malleable iron.

● Form 85 Unilet conduit outlet bodies: aluminum— copper-free (max. 4/10 of 1%). 1/2" thru 2"— pressure cast. 2-1/2" thru 4"— sand cast.

● FM7 Unilet conduit bodies: Grayloy-iron or copper-free aluminum.

● FM8 Unilet conduit bodies: Grayloy-iron.

● Covers for Form 35 and 85: blank— malleable iron, steel and aluminum. Duplex grounding receptacle— phenolic. Lamp receptacle— porcelain. Wiring device and switch covers— aluminum. Cover screws: stainless steel.

● Covers for FM7: stamped steel, stamped aluminum, cast Grayloy-iron, and cast aluminum; cover screws: stainless steel.

● Covers for FM8: cast Grayloy-iron, stamped steel; cover screws: stainless steel.

● Gaskets for Form 35 and Form 85: neoprene or composition fiber.

● Gaskets for FM7 and FM8: neoprene.

### Standard Finishes

● Form 35 malleable iron bodies: triple-coat— (1) zinc electroplate, (2) dichromate, and (3) epoxy powder coat.

● Form 35 Covers: steel: zinc electroplate. Malleable iron: triple-coat— (1) zinc electroplate, (2) dichromate, and (3) epoxy powder coat.

● Form 85 aluminum bodies: epoxy powder coat.

● Form 85 stamped aluminum covers: natural finish.

● Form 85 cast aluminum covers: epoxy powder coat.

● FM7 and FM8 Grayloy-iron bodies: triple-coat— (1) zinc electroplate, (2) dichromate, and (3) epoxy powder coat.

● FM7 aluminum bodies: epoxy powder coat.

● FM7 and FM8 steel covers: zinc electroplate.

● FM7 stamped aluminum covers: natural finish.

● FM7 and FM8 Grayloy-iron covers: triple-coat— (1) zinc electroplate, (2) dichromate, and (3) epoxy powder coat.

● FM7 cast aluminum covers: epoxy powder coat.

### Compliances

● UL Standard 514A.

● Federal Spec. W-C-586B.

● Suitable for classified location use in Class I, Division 2 areas, if installed in compliance with NEC 501-4(b).

● Appleton malleable iron products conform to ASTM A47-77, Grade 32510, which has the following properties: tensile strength, 50,000 psi; yield, 32,000 psi; and elongation, 10%.

● Appleton aluminum products are produced from a high strength copper-free (4/10 of 1% max.) alloy.

● Appleton Grayloy-iron products are a gray iron alloy with tensile strength similar to ASTM-A48 Class 30A (30,000 psi tensile), and with a Brinell hardness of approximately 180BH.

### Product Cross Reference






● For explosionproof conduit outlet bodies and boxes, see Cat. Section J.

● For Mogul Unilets®, see pages A-17 through A-24.






## Form 35® Malleable Iron Unilet® Conduit Outlet Bodies

Threaded Type for use with Rigid Metal Conduit and IMC;  
Compression Type for use with Threadless Rigid Metal Conduit.

**Appleton Form 35® Threaded Type Conduit Bodies** NOTE: Refer to page A-16 for Wiring Capacity Tables

Hub Size (in.)					
1/2	<b>C50-M</b>	<b>E50-M</b>	<b>LB50-M</b>	<b>LL50-M</b>	<b>LR50-M</b>
3/4	<b>C75-M</b>	<b>E75-M</b>	<b>LB75-M</b>	<b>LL75-M</b>	<b>LR75-M</b>
1	<b>C100-M</b>	<b>E100-M</b>	<b>LB100-M</b>	<b>LL100-M</b>	<b>LR100-M</b>
1-1/4	<b>C125-M</b> ◇	<b>E125-M</b>	<b>LB125-M</b> ◇	<b>LL125-M</b>	<b>LR125-M</b>
1-1/2	<b>C150-M</b> ◇	<b>E150-M</b>	<b>LB150-M</b> ◇	<b>LL150-M</b>	<b>LR150-M</b>
2	<b>C200-M</b> ◇	—	<b>LB200-M</b> ◇	<b>LL200-M</b>	<b>LR200-M</b>
2-1/2	<b>C250-M</b> ◇	—	<b>LB250-M</b> ◇	<b>LL250-M</b>	<b>LR250-M</b>
3	<b>C300-M</b> ◇	—	<b>LB300-M</b> ◇	<b>LL300-M</b>	<b>LR300-M</b>
3-1/2	<b>C350-M</b> ◇	—	<b>LB350-M</b> ◇	<b>LL350-M</b>	<b>LR350-M</b>
4	<b>C400-M</b> ◇	—	<b>LB400-M</b> ◇	<b>LL400-M</b>	<b>LR400-M</b>
5	—	—	<b>LB500-M</b>	—	—
6	—	—	<b>LB600-M</b>	—	—




  

Hub Size (in.)					
1/2	<b>LRL50-M</b>	<b>T50-M</b>	<b>TA50-M</b>	<b>TB50-M</b>	<b>X50-M</b>
3/4	<b>LRL75-M</b>	<b>T75-M</b>	<b>TA75-M</b>	<b>TB75-M</b>	<b>X75-M</b>
1	<b>LRL100-M</b>	<b>T100-M</b>	<b>TA100-M</b>	<b>TB100-M</b>	<b>X100-M</b>
1-1/4	<b>LRL125-M</b>	<b>T125-M</b>	—	<b>TB125-M</b>	<b>X125-M</b>
1-1/2	<b>LRL150-M</b>	<b>T150-M</b>	—	<b>TB150-M</b>	<b>X150-M</b>
2	<b>LRL200-M</b>	<b>T200-M</b>	—	<b>TB200-M</b>	<b>X200-M</b>
2-1/2	—	<b>T250-M</b>	—	—	—
3	—	<b>T300-M</b>	—	—	—
3-1/2	—	<b>T350-M</b>	—	—	—
4	—	<b>T400-M</b>	—	—	—

\*LRL Unilets have double opening and are furnished with one steel cover, assembled.

◇ Catalog numbers having patented roller feature, all others do not.

**Compression Type—For use with Threadless Rigid Metal Conduit**

Hub Size (in.)			
1/2	<b>LB50N-M</b>	<b>LRL50N-M</b>	<b>T50N-M</b>
3/4	<b>LB75N-M</b>	<b>LRL75N-M</b>	<b>T75N-M</b>
1	<b>LB100N-M</b>	<b>LRL100N-M</b>	<b>T100N-M</b>

**Back Style for Form 35 Unilet conduit body sizes (inches)**

Unilet Body	Flat Back	Round Back
C, LB	1/2 - 2	2-1/2 and up
E	1/2 - 1-1/2	1-1/4 and up
LL, LR, T	1/2 - 2	2-1/2 and up
TB	1-1/4, 1-1/2	1/2, 3/4, 1, 2
X	1/2 - 1	1-1/4 and up







All TA Unilets are round back design.  
All Compression Type are flatback design.

A

## Covers and Gaskets for Form 35® Unilet® Conduit Outlet Bodies




Covers Furnished with Stainless Steel Fastening Screws.

**Appleton Form 35® Covers and Gaskets** NOTE: Refer to page A-16 for Wiring Capacity Tables.

Size	Blank Stamped Steel	Blank Cast Malleable	Neoprene	Composition Fiber
Form 35 Body Size (in.)	 Domed: 1/2" - 3"	 Flat: 1/2" - 2"	 Tear out inner perforated section to convert to "open type" gasket.	
	 Flat: 3-1/2" - 6"	 Domed: 2-1/2" - 4"		
1/2	K50	K50-CM	GK50-N	GK50-V
3/4	K75	K75-CM	GK75-N	GK75-V
1	K100	K100-CM	GK100-N	GK100-V
1-1/4	K125 & 150	K125 & 150-CM	GK125-150-N	GK125-150-V
1-1/2	K125 & 150	K125 & 150-CM	GK125-150-N	GK125-150-V
2	K200	K200-CM	GK200-N	GK200-V
2-1/2	K250 & 300	K250 & 300-CM	GK250-300-N	GK-250-300-V
3	K250 & 300	K250 & 300-CM	GK250-300-N	GK-250-300-V
3-1/2	K350 & 400	K350 & 400-CM	GK350-400-N	GK-350-400-V
4	K350 & 400	K350 & 400-CM	GK350-400-N	GK-350-400-V
5	K500	—	GK500-SN†	
6	K600	—	GK600-SN†	

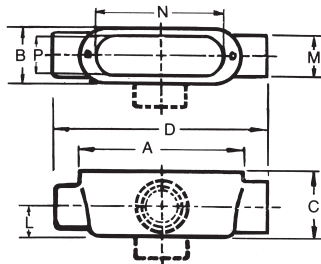
† Not perforated

### Wiring Device Covers

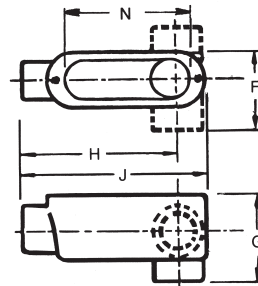
		
<b>Lamp Receptacle</b> with 1-1/2" Shade Holder Groove. Porcelain, 600 Watt, 600 Volt Rating	<b>Device Cover</b> for Interchangeable (Despard) Wiring Devices, Cast Aluminum with Mounting Strap	<b>Switch Cover</b> for Interchangeable (Despard) Devices, Cast Aluminum with Gasket and Steel Mounting Strap
<b>Form 35 Body Size (in.)</b> <b>Cat. No.</b>	<b>Form 35 Body Size (in.)</b> <b>Cat. No.</b>	<b>Form 35 Body Size (in.)</b> <b>Cat. No.</b>
1/2 <b>KLR50</b>	1/2 <b>KWD50-A</b>	3/4 <b>KVS75-A</b>
3/4 <b>KLR75</b>		

## Dimensions: Form 35® Malleable Iron Unilet® Conduit Outlet Bodies

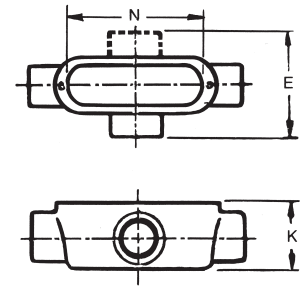
Threaded Type for use with Rigid Metal Conduit and IMC;  
Compression Type for use with Threadless Rigid Metal Conduit.



Types A, C, TA, TB



Types E, LB, LL, LR, LRL



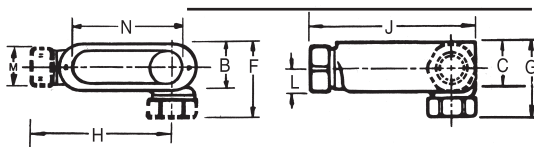
Types T, X

### Fraction/Decimal Equivalents (Inches)

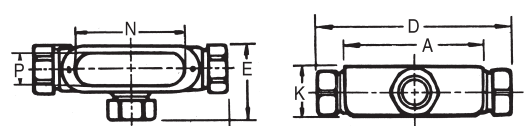
Fraction	Decimal	Fraction	Decimal	Fraction	Decimal	Fraction	Decimal
1/16	0.06	5/16	0.31	9/16	0.56	13/16	0.81
1/8	0.13	3/8	0.38	5/8	0.63	7/8	0.88
3/16	0.19	7/16	0.44	11/16	0.69	15/16	0.94
1/4	0.25	1/2	0.50	3/4	0.75	1	1.00

### Threaded Type Dimensions in Inches

Hub Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P
1/2	3.94	1.31	1.44	5.38	2.69	2.00	2.13	3.94	4.63	1.75	.63	1.19	3.16	1.00
3/4	4.63	1.56	1.69	6.06	2.88	2.19	2.31	4.44	5.38	2.00	.75	1.38	3.78	1.22
1	5.38	1.81	1.94	7.13	3.38	2.56	2.69	5.13	6.25	2.25	.94	1.69	4.53	1.47
1-1/4	7.19	2.50	2.56	9.19	4.50	3.50	3.56	7.06	8.19	2.56	1.19	2.00	6.00	2.00
1-1/2	7.19	2.50	2.75	9.19	4.50	3.50	3.75	6.81	8.19	2.75	1.38	2.38	6.00	2.00
2	9.50	3.13	3.38	11.63	5.25	4.19	4.63	8.94	10.56	3.38	1.63	2.94	8.06	2.56
2-1/2	12.25	4.31	3.88	15.13	7.19	5.75	5.25	11.88	13.69	3.88	1.81	3.38	10.63	3.69
3	12.25	4.31	4.63	15.13	7.19	5.75	6.00	11.56	13.69	4.63	2.19	4.13	10.63	3.69
3-1/2	14.88	5.50	5.19	18.13	8.75	7.13	6.81	14.00	16.50	5.19	2.50	4.75	13.13	4.88
4	14.88	5.50	5.56	18.13	8.75	7.13	7.19	13.75	16.50	5.56	2.75	5.13	13.13	4.88
5	18.25	7.25	7.00				9.00	16.88	20.25		3.38	6.50	16.25	6.50
6	23.00	8.63	8.69				10.69	21.06	25.00		3.94	7.56	21.00	7.81



Types LB, LRL



Type T

### Compression Type Dimensions in Inches

Hub Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P
1/2	3.94	1.31	1.44	6.06	2.38	2.38	2.50	4.31	5.00	1.75	.63	1.31	3.16	1.00
3/4	4.63	1.56	1.69	6.81	2.69	2.69	2.81	4.81	5.75	2.00	.75	1.63	3.78	1.22
1	5.38	1.81	1.94	7.63	2.94	2.94	3.06	5.38	6.50	2.25	.94	1.88	4.53	1.47

## Wiring Capacity: Form 35® and Form 85™ Conduit Bodies and Covers

Combine Body and Cover Capacities for Total usable Capacity  
per NEC 370-6(a)(1)

### Form 35® Malleable Iron Bodies and Covers: Threaded and Compression

#### Capacity in Cubic Inches

Hub Size (In.)	C	E	LB	LL LR	LRL	T	TA	TB	X	Stamped Cover	Cast Cover
1/2	4.5	4.5	4.5	4.5	5.0	6.0	4.3	4.3	6.0	0.5	0
3/4	7.5	7.5	7.5	7.5	8.8	9.5	7.0	7.0	9.5	0.8	0.3
1	12.5	12.5	12.5	12.5	14.3	15.0	15.0	13.0	15.0	1.0	0.5
1-1/4	35.0	29.3	32.3	32.0	34.8	33.0	—	35.0	31.5	2.5	0.8
1-1/2	35.3	32.5	35.3	35.3	40.0	36.0	—	35.3	40.0	2.5	0.8
2	75.0	—	73.0	73.0	85.0	71.0	—	71.0	71.0	6.5	1.5
2-1/2	143.0	—	139.0	140.5	—	146.0	—	—	—	18.0	30.0
3	180.0	—	177.0	175.0	—	185.0	—	—	—	18.0	30.0
3-1/2	303.0	—	300.0	300.0	—	314.0	—	—	—	—	50.0
4	340.0	—	330.0	330.0	—	345.0	—	—	—	—	50.0
5	—	—	756.0	—	—	—	—	—	—	—	—
6	—	—	1328.0	—	—	—	—	—	—	—	—

### Form 85™ Aluminum Bodies and Covers: Threaded and Setscrew

#### Capacity in Cubic Inches

Hub Size (In.)	C	E	LB	LL LR	LRL	T	TA	TB	X	Stamped Cover	Cast Cover
1/2	4.0	4.0	4.0	4.0	—	4.0	—	6.0	4.0	0.5	0
3/4	7.0	7.0	7.0	7.0	—	7.0	—	7.0	7.0	0.8	0.3
1	11.8	11.8	11.8	11.8	—	11.8	—	13.0	11.8	1.0	0.5
1-1/4	34.8	—	34.8	34.0	—	34.0	—	35.0	—	2.5	0.8
1-1/2	35.0	—	35.0	35.0	—	35.0	—	34.5	—	2.5	0.8
2	70.0	—	70.0	70.0	—	70.0	—	71.0	—	6.5	1.5
2-1/2	143.0	—	139.0	140.5	—	146.0	—	—	—	18.0	30.0
3	180.0	—	177.0	175.0	—	185.0	—	—	—	18.0	30.0
3-1/2	303.0	—	300.0	300.0	—	314.0	—	—	—	—	50.0
4	340.0	—	330.0	330.0	—	345.0	—	—	—	—	50.0