

## 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



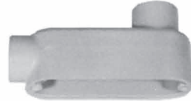
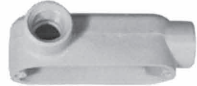

● For explosionproof conduit outlet bodies and boxes, see Cat. Section J.

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




## Form 85™ Aluminum Unilet® Conduit Outlet Bodies

Threaded Type for use with Rigid Metal Conduit and IMC.  
Setscrew Type for use with Electrical Metal Tubing (EMT).


**Appleton Form 85™ Conduit Bodies: Threaded/SetScrew Type** NOTE: Refer to page A-16 for Wiring Capacity Tables

Hub Size (in.)	<b>C</b> 		<b>E</b> 		<b>LB</b> 		<b>LL</b> 		<b>LR</b> 	
	Threaded Type	Setscrew Type	Threaded Type	Setscrew Type	Threaded Type	Setscrew Type	Threaded Type	Setscrew Type	Threaded Type	Setscrew Type
1/2	C50-A	C50T-A	E50-A	E50T-A	LB50-A	LB50T-A	LL50-A	LL50T-A	LR50-A	LR50T-A
3/4	C75-A	C75T-A	E75-A	—	LB75-A	LB75T-A	LL75-A	LL75T-A	LR75-A	LR75T-A
1	C100-A	C100T-A	E100-A	—	LB100-A	LB100T-A	LL100-A	LL100T-A	LR100-A	LR100T-A
1-1/4	C125-A	C125T-A	—	—	LB125-A	LB125T-A	LL125-A	LL125T-A	LR125-A	LR125T-A
1-1/2	C150-A	C150T-A	—	—	LB150-A	LB150T-A	LL150-A	LL150T-A	LR150-A	LR150T-A
2	C200-A	—	—	—	LB200-A	LB200T-A	LL200-A	LL200T-A	LR200-A	LR200T-A
2-1/2	C250-A	—	—	—	LB250-A	—	LL250-A	—	LR250-A	—
3	C300-A	—	—	—	LB300-A	—	LL300-A	—	LR300-A	—
3-1/2	C350-A	—	—	—	LB350-A	—	LL350-A	—	LR350-A	—
4	C400-A	—	—	—	LB400-A	—	LL400-A	—	LR400-A	—

Hub Size (in.)	<b>T</b> 		<b>TB</b> 		<b>X</b> 	
	Threaded Type	Setscrew Type	Threaded Type	Setscrew Type	Threaded Type	Setscrew Type
1/2	T50-A	T50T-A	TB50-A	—	X50-A	—
3/4	T75-A	T75T-A	TB75-A	—	X75-A	—
1	T100-A	T100T-A	TB100-A	—	X100-A	—
1-1/4	T125-A	—	TB125-A	—	—	—
1-1/2	T150-A	—	TB150-A	—	—	—
2	T200-A	—	TB200-A	—	—	—
2-1/2	T250-A	—	—	—	—	—
3	T300-A	—	—	—	—	—
3-1/2	T350-A	—	—	—	—	—
4	T400-A	—	—	—	—	—

Typical Form 85 Conduit Bodies with Setscrews. For use with Electrical Metal Tubing (EMT).



### Back Style for Form 85®







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

All setscrew types are flatback design.




## Covers and Gaskets for Form 85™ Unilet® Conduit Outlet Bodies

Covers Furnished with Stainless Steel Fastening Screws.

**Appleton Form 85™ Covers and Gaskets** NOTE: Refer to page A-16 for Wiring Capacity Tables.

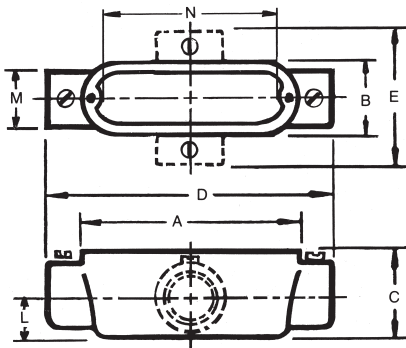
Size	Blank Stamped Aluminum	Blank Cast Aluminum	Neoprene	Composition Fiber
Form 85 Body Size (in.)	 Domed: 1/2" - 3"	 Flat: 1/2" - 2"	 Tear out inner perforated section to convert to "open type" gasket.	
	 Flat: 3-1/2" - 4"	 Domed: 2-1/2" - 4"		
1/2	K50-A	K50-CA	GK50-N	GK50-V
3/4	K75-A	K75-CA	GK75-N	GK75-V
1	K100-A	K100-CA	GK100-N	GK100-V
1-1/4	K125 & 150-A	K125 & 150-CA	GK125-150-N	GK125-150-V
1-1/2	K125 & 150-A	K125 & 150-CA	GK125-150-N	GK125-150-V
2	K200-A	K200-CA	GK200-N	GK200-V
2-1/2	K250 & 300-A	K250 & 300-CA	GK250-300-N	GK-250-300-V
3	K250 & 300-A	K250 & 300-CA	GK250-300-N	GK-250-300-V
3-1/2	K350 & 400-A	K350 & 400-CA	GK350-400-N	GK-350-400-V
4	K350 & 400-A	K350 & 400-CA	GK350-400-N	GK-350-400-V

### Wiring Device Covers

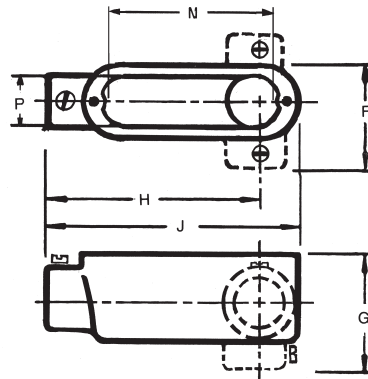
		
<b>Lamp Receptacle</b> with 1-1/2" Shade Holder Groove. Porcelain, 600 Watt, 600 Volt Rating	<b>Device Cover</b> for Interchangeable (Despard) Wiring Devices, Cast Aluminum with Mounting Strap	<b>Switch Cover</b> for Interchangeable (Despard) Devices, Cast Aluminum with Gasket and Steel Mounting Strap
<b>Form 85 Body Size (in.)</b>	<b>Form 85 Body Size (in.)</b>	<b>Form 85 Body Size (in.)</b>
<b>Cat. No.</b>	<b>Cat. No.</b>	<b>Cat. No.</b>
1/2 3/4	1/2	3/4
KLR50 KLR75	KWD50-A	KVS75-A

# A-14

## Dimensions: Form 85™ Threaded and Setscrew, Unilet® Conduit Outlet Bodies, Aluminum



Types C, T, X  
Types C, T, X



Types E, LB, LL, LR  
Types E, LB, LL, LR

### Fraction/Decimal Equivalents (Inches)

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

### Dimensions in Inches

	Hub Trade Size (In.)	A	B	C	D	E	F	G	H	J	L	M	N	P
Pressure Cast	1/2	3.94	1.31	1.38	4.75	2.56	2.00	2.06	3.50	4.31	.63	1.13	3.14	1.05
	3/4	4.63	1.56	1.63	5.63	3.00	2.25	2.44	4.13	5.13	.75	1.38	3.78	1.27
	1	5.38	1.81	1.88	6.69	3.50	2.63	2.81	4.88	6.00	.94	1.69	4.50	1.52
	1-1/4	7.19	2.50	2.75	8.56		3.50	3.88	6.56	7.88	1.06	2.13	6.00	2.25
	1-1/2	7.19	2.50	2.75	8.56		3.50	3.81	6.44	7.88	1.19	2.38	6.00	2.25
	2	9.50	3.13	3.44	10.81		4.19	4.56	8.31	10.19	1.50	2.94	8.06	2.75
Sand Cast	2-1/2	12.25	4.31	3.88	15.13	7.19	5.75	5.25	11.88	13.69	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	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	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	2.75	5.13	13.13	4.88

## 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