

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™

⑤ 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:* triplecoat— (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:* triplecoat— (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

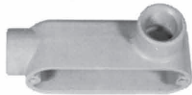
- For explosionproof conduit outlet bodies and boxes, see Cat. Section J.

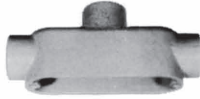
- For Mogul Unilets®, see pages A-17 through A-24.

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

	C 		E 		LB 		LL 		LR 	
Hub Size (in.)	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	—

	T 		TB 		X 	
Hub Size (in.)	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.

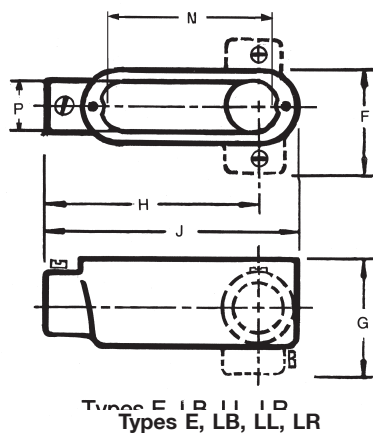
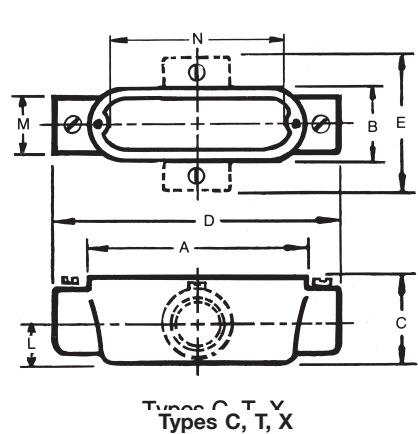
Appleton Form 85™ Covers and Gaskets NOTE: Refer to page A-16 for Wiring Capacity Tables.

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

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

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



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