

Application and Selection

Applications:

Cast device boxes are installed in conduit and cable systems to:

- Accommodate wiring devices
- Act as pull boxes for conductors in a conduit system
- Provide openings to make splices and taps in conductors
- Provide access to conductors for maintenance and future system changes

Considerations for Selection of Device Box**Type of conduit system:**

- Should be compatible with conduit or cable system.
- Boxes are standard with mounting lugs and internal green ground screw.
- Boxes are available for rigid steel, IMC; rigid aluminum; flexible conduit and cable systems.

Number of devices to be used in the box:

- Standard flush devices require one gang each

Depth:

- Two box types are available – standard (FS) and deep (FD), single through five gang.
- Standard flush wiring devices will normally fit in the FS boxes.
- Some special purpose devices of higher ratings will require the deeper box (FD).
- In addition, the need for additional wiring space will require the deep box.

Hub configuration and size:

- The layout of the conduit system dictates the conduit opening locations of the box.

The table below indicates the types of conduit and the boxes available. Drilled and tapped openings can be supplied in blank boxes to meet your requirements.

- Hub size is the same as conduit size. A variety of hub sizes are available. Where the specific hub size is not available, reducing bushings can be used.

Materials and finishes:

- The environment and the use of the box will determine the material and finish needed. Areas of the country with harsh weather and corrosive environments may require different materials and finishes for added protection.
- Standard material and finish is Feraloy® iron alloy with electrogalvanized and aluminum acrylic paint. Many items are also available in copper-free aluminum.
- Optional finishes can be obtained if environment warrants. See Options listings.

Quick Selector Chart

Box	Depth	Gang	Conduit Type	Standard Material	Standard Finish
FS	11 ¹⁵ / ₁₆	1-3	Threaded rigid	Feraloy iron alloy (some are copper-free aluminum)	Feraloy iron alloy – electrogalvanized and aluminum acrylic paint. Copper-free aluminum – natural
FD	2 ¹ / ₂	1-3	Threaded rigid	Feraloy iron alloy	Feraloy iron alloy – electrogalvanized and aluminum acrylic paint
FD-SS	3.03	1	Threaded rigid	Stainless steel	Natural
FS blank bodies Drilled and tapped	1 ¹⁵ / ₁₆	1-4 1-3	Threaded rigid	Feraloy iron alloy	Feraloy iron alloy – electrogalvanized and aluminum acrylic paint
FD blank bodies Drilled & tapped	2 ¹ / ₂	1-5 1-3	Threaded rigid	Feraloy iron alloy	Feraloy iron alloy – electrogalvanized and aluminum acrylic paint

Considerations for Selection of Covers, Devices, and Accessories

Both general purpose and weatherproof, waterproof devices and covers are available. Selection will depend on individual conditions. To provide for a wide variety of applications, the following covers and devices are available:

Covers

Covers	Pg.
General use snap switch	See pages 39–41 and 44–45
Pushbutton switch	See page 41
Plug and receptacle	See pages 37–39, 42, and 44–46
Blank	See pages 39 and 44–45
Pilot light	See page 43
Receptacle	See pages 37–39, 42, and 44–46

Devices

Devices	Pg.
Receptacle	See page 42
Pilot lights	See page 43
Wiring device	See page 42

Accessories

Accessories	Pg.
Gaskets	See page 43
Box extensions	See page 43
Flush mtg. adapter	See page 43

Options:

Description	Suffix
Corro-free™ epoxy powder coat	S752

Condulet® Single Gang Device Boxes - Cast Iron or Aluminum

Accessories see pages 37–45

2F

With and Without Mounting Lugs for Threaded Rigid and IMC Conduit

Applications:

- Cast device boxes are installed to:
 - Accommodate wiring devices
 - Act as pull boxes for conductors in a conduit system
 - Provide openings to make splices and taps in conductors
 - Provide access to conductors for maintenance and future system changes
 - Connect conduit sections
 - FSY boxes for mounting surface devices on floor or bench (used with single gang covers)

Features:

- Internal green ground screw standard on boxes
- Suitable for use in wet locations when used with gasketed covers
- Mounting lugs standard on most boxes
- Tapered threaded hubs (NPT) with integral bushing
- Available for surface mounting (with mounting lugs) or flush mounting (without mounting lugs) as listed
- Available as shallow (FS) or deep (FD) configuration. Use FD if device to be enclosed exceeds 1 5/8" in depth
- Ample wiring room provided in either FS or FD configuration
- Wide selection of surface or flush covers available in three materials (sheet steel, *Feraloy*®, aluminum)
- Covers for flush mounting extend to conceal the rough plaster line
- Available in single gang and multi-gang configurations with hubs, and as blank bodies for drilled and tapped openings

Certifications and Compliances:

- UL Standard: 514
- ANSI Standard: C33.84
- Fed. Spec.: W-C-5860
- CSA Standard: C22.2 No. 18

Standard Materials:

- Feraloy* iron alloy or copper-free aluminum.

Standard Finishes:

- Feraloy* – electrogalvanized and aluminum acrylic paint
- Aluminum – natural

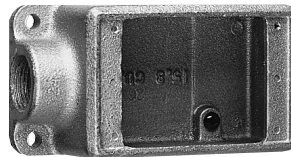
Options:

Description	Suffix
Finishes:	
<i>Corro-free</i> ™ epoxy powder coat - external body	S752
<i>Corro-free</i> ™ epoxy powder coat - internal and external	S753

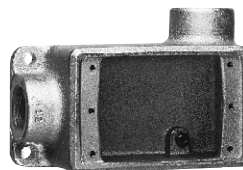
Size Ranges:

- Hubs – 1/2" to 1"

FS & FD



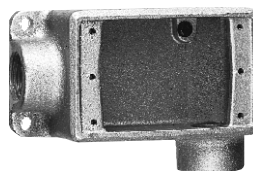
Size	Cat. #	Cat. #
1/2	FS1*	FD1†
3/4	FS2*	FD2†
1	FS3†	FD3†



Size	Cat. #	Cat. #
1/2	FSR1	FDR1
3/4	FSR2	FDR2*†



Size	Cat. #	Cat. #
1/2	FSC1*	FDC1†
3/4	FSC2*	FDC2†
1	FSC3†	FDC3†

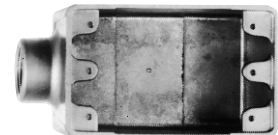


Size	Cat. #	Cat. #
1/2	FSL1	FDL1
3/4	FSL2	FDL2*†

*Available in sand cast copper-free aluminum – add suffix SCA to Cat. No.

†Available in sand cast copper-free aluminum – add suffix SA to Cat. No.

Die Cast Aluminum‡



Size	Cat. #	Cat. #
1/2	FS1 SA	FSC1 SA
3/4	FS2 SA	FSC2 SA

‡Mounting lugs and ground screw are not offered with standard die cast aluminum box. For sand cast aluminum box with mounting lugs and ground screw, change "SA" in catalog number to "SCA" (Example: FS1 SCA).

Condulet® Multi-Gang Device Boxes - Cast Iron or Aluminum

Accessories see pages 37–45

2F

With and Without Mounting Lugs for
Threaded Rigid and IMC Conduit

FS†



Two Gang Tandem

Size	Cat. #
1/2	FS17
3/4	FS27

FSC†

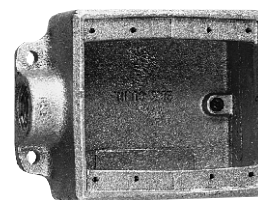


Two Gang Tandem

Size	Cat. #
1/2	FSC17
3/4	FSC27

†Use single gang covers only.

FSE

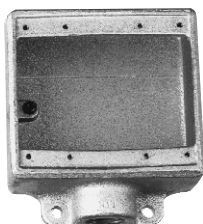


Two Gang

Size	Cat. #
3/4	FSE22

*Available in copper-free aluminum;
add suffix "SA".

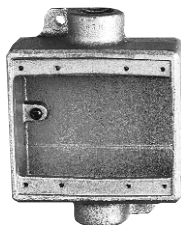
FS & FD



Two Gang

Size	Cat. #	Cat. #
1/2	FS12*	FD12
3/4	FS22*	FD22*
1	FS32	FD32

FSC & FDC

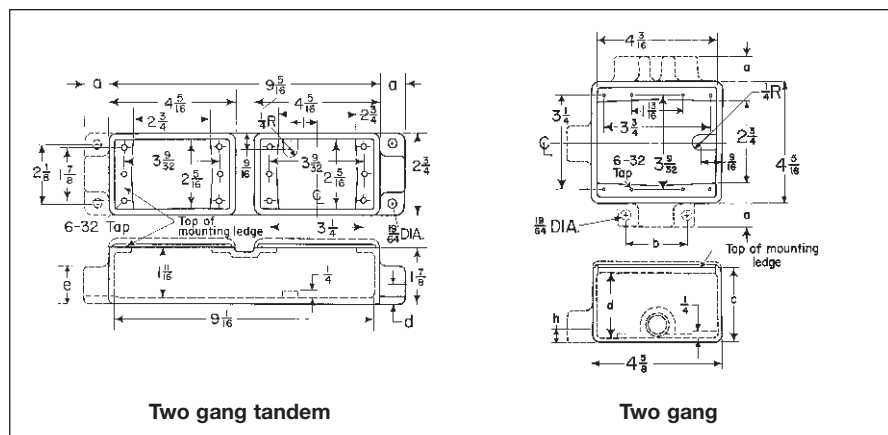


Two Gang

Size	Cat. #	Cat. #
1/2	FSC12	FDC12
3/4	FSC222	FDC222*
1	FSC32	FDC32

Dimensions

In Inches:



Two gang tandem

Series	Hub Size	a	b	e
FS	1/2	7/8	5/8	1 1/4
	3/4	7/8	3/4	1 1/2

Two gang

Series	Hub Size	a	b	c	d	h
FS	1/2	7/8	2 1/4	1 7/8	1 11/16	5/8
	3/4	7/8	2 1/4	1 7/8	1 11/16	3/4
	1	1	2 1/2	1 7/8	1 11/16	7/8
FD	1/2	7/8	2 1/4	2 11/16	2 1/2	5/8
	3/4	7/8	2 1/4	2 11/16	2 1/2	3/4
	1	1	2 1/2	2 11/16	2 1/2	7/8