Section 8: Electrical & Raceway Fittings

FUNCTIONS AND FEATURES

Electrical and Raceway Fittings conform with the Article 384 of the National Electrical Code, NFPA 70. The products in this category are designed to eliminate the individual suspension of fluorescent lighting fixtures, which saves installations labour and materials.

The metal framing system requires no welding, drilling, or other complex fabrication techniques, this means quicker, easier solutions for virtually any electrical support application. Thus, the Strut Products together with Electrical and Raceway Fittings are part of an integrated system that can be used for raceways, trapeze hangers, cable tray supports, lighting grids, fluorescent-fixture supports, and many other electrical applications.

Raceways with external joiners shall use a 40% wire fill calculation to determine the number of conductors permitted. Raceways with internal joiners shall use a 25% wire fill calculation to determine the number of conductors permitted.

MATERIALS

Carbon Steel (ASTM A1011)

Stainless Steel - Type 304 or 316 (ASTM A240)

FINISHES

Hot-Dip Galvanized (ASTM A123/A153)

Zinc Electro-Galvanized (ASTM B633)

STAINLESS STEEL OPTIONS

Some of the Electrical and Raceway Fittings are available in 304 Stainless Steel or 316 Stainless Steel (ASTM A240)

NOTE

The more popular Electrical and Raceway Fittings are illustrated on the following pages. However, there are many other electrical and raceway products available. Please contact us for any other products you may need.

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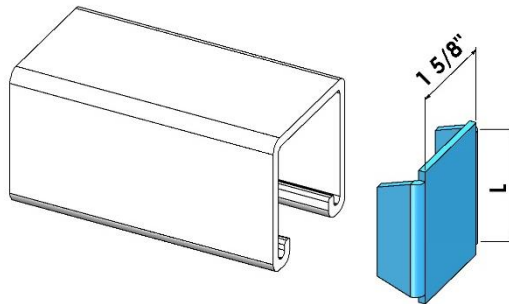INTERNATIONAL GROUP

SAFETY END CAP PVC
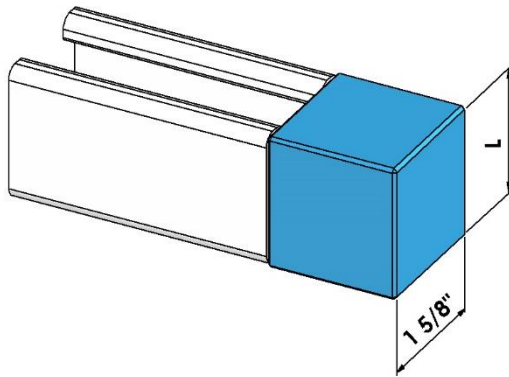
Part #	L (in.)	Approx. Wt (lbs.)
A-655P 1 5/8	1 5/8	0.04
A-655P 1	1	0.03
A-655P 13/16	13/16	0.03

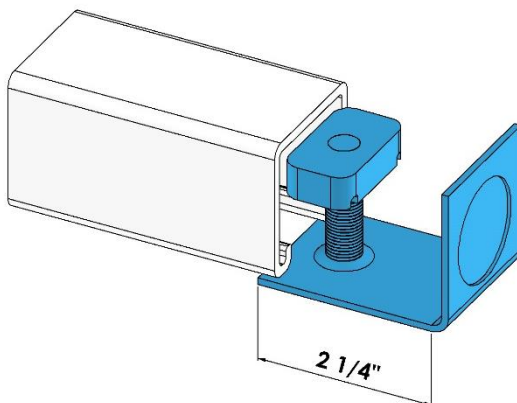| Specification Data	
Material	PVC
Note	Designed for 1 5/8" strut channel, end caps are desired when the end of the channel need to be enclosed. The cap easily installs by pressing it onto the end of the channel opening

SAFETY END CAP METAL

Part #	L (in.)	Approx. Wt (lbs.)
A-655 1 5/8	1 5/8	0.07
A-655 1	1	0.04
A-655 13/16	13/16	0.03

Specification Data	
Material	Carbon Steel
Note	Designed for 1 5/8" strut channel, end caps are desired when the end of the channel need to be enclosed

END CAP WITH KNOCK-OUT

| Part #	Conduit Size (in.)	Channel Size (in.)
A-2511 1/2	1/2	1 5/8
A-2511 3/4	3/4	1 5/8

Specification Data	
Material	Carbon Steel
Approx. Wt. (lbs.)	0.27
Strut Nut Thickness (in.)	1/4
Note	Supplied with 1/4" x 5/8" Flat Head Machine Screws and 1/4" Strut Nut No Spring

These specifications are for reference only. Aimco International Group Corp. reserves the right to make changes to the design without prior notice.

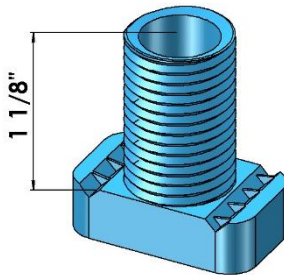# FIXTURE STUD NUT

Part #   A-2636
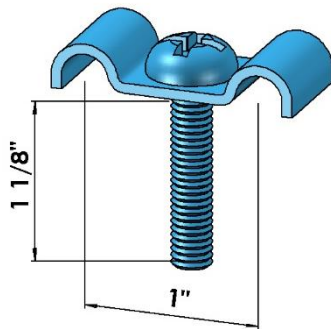
Specification Data	
Bolt Size (in.)	1/4"-20 x 1 1/4"
Approx. Wt. (lbs.)	0.04

WIRING STUD NUT

Part #   A-2625

Specification Data	
Material	Aluminum
NPT Size (in.)	1/2
Approx. Wt. (lbs.)	0.08

INSIDE SPLICE

Part #   A-643
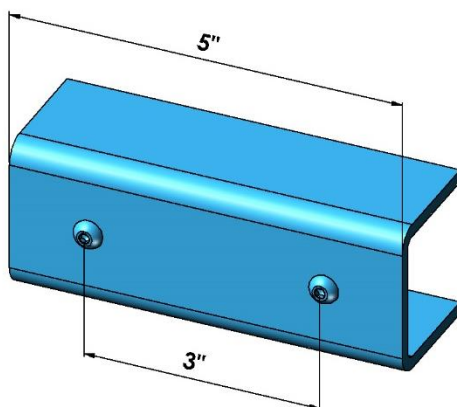
Specification Data	
Channel Size (in.)	1 5/8
Thickness (in.)	1/8
Approx. Wt. (lbs.)	0.61
Note	Supplied with two Hex Socket Head Jamb Screws.

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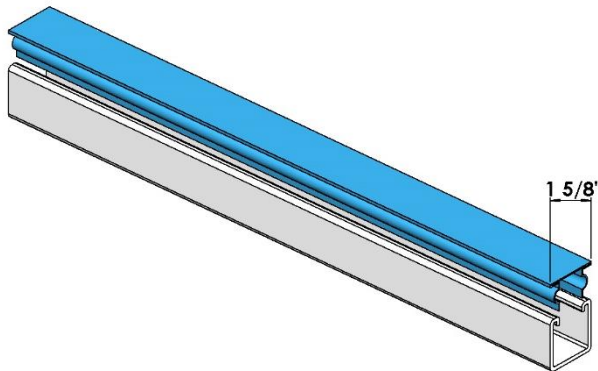
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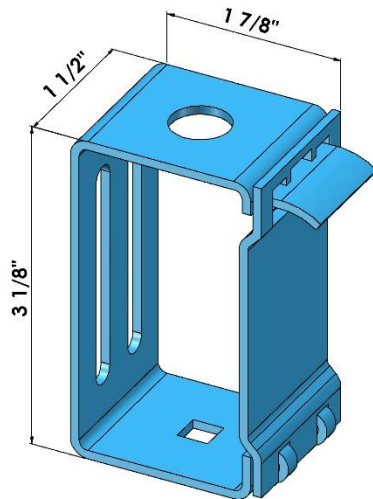
CHANNEL HANGER

Part # | **A-2632**

1 7/8"
1 1/2"
3 1/8"

Specification Data

Top Hole Dia. (in.)	9/16
Bottom Square (in.)	9/32
Design Load (lbs.)	120
Safety Factor	3
Approx. Wt. (lbs.)	0.24
Note	Round Washers are required on the top and bottom side of the thread rod connection. After the channel with closure strip is in place, the space between the closure strip and the top of the hanger allow removal of the closure strip for addition or removal of wire.

PLASTIC CLOSURE STRIP

Part # | **A-707PL 10**

1 5/8"

Specification Data

Material	High impact polystyrene plastic
Length (ft.)	10
Approx. Wt. (lbs.)	1.22
Note	A closure strip is required on the channel to create a wire raceway. Designed to snap into the continuous slot of all 1 5/8" wide strut channel. Including steel, stainless steel, aluminum and fibreglass. Due to the design of the self-retaining feature, closure strip can be removed by prying with a tool, such as a screwdriver.

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