

400 Series, Ultra Heavy Duty

Product Facts

400 Series

- n Compact 2/0 or 250 kcmil (MCM) block - at least 57 circuits per 6-foot length, 1-3/16" [30.16] center-to-center spacing.
- n High current capacity snap-fit sectional block — tubular contacts accept single or combinations of wire sizes as large as 250 kcmil (MCM).
- n Two contact styles available; rated up to 270 amperes for copper wire.
- n Allen head screws allow maximum torque when using large wire sizes.
- n Withstand voltages in excess of IEEE switchgear standards for 750 volts. Meet clearance and creepage spacing specified in UL, CSA, and NEMA Industrial Control Standards for 600 volts.
- n Same block directly mounts on surface or channel mounts.
- n Only one end section needed per block assembly.
- n Readily identify circuits—order blocks with painted marking area or use removable vinyl marking strip. Preprinted marking strips are also available.
- n Factory assembled blocks available.
- n Ultra Heavy Duty phenolic block sections do not snap-fit with other block styles.



This Ultra Heavy Duty line includes the 400 Series rated up to 270 A.

Note: All part numbers are RoHS Compliant.

400 Series, Ultra Heavy Duty, 600 V, 1.19" [30.23] Pitch



Material & Finish

Housing Material—Phenolic, filled flame retardant

Flammability—UL94V-1

Color—Black

Contacts:

Material—Electrical grade copper conductor; plated steel screws resist corrosion

Tubular Screw Type—

- Small: 1/2" [12.7] - 13 Hex
- Large: 3/4" [19.05] - 16 Hex socket set screw

Mechanical Properties

Pitch (terminal spacing)—1.19" [30.23]; 9 circuits/foot

Wire Strip Length—
Tubular Screw (small): 1" [25.4]
Tubular Screw (large): 1" [25.4]

Electrical Properties

Maximum Current—255A for a single 250MCM wire

Operating Voltage—Blocks meet 600V creepage and clearance requirements; withstand voltage greatly exceeds standards for 750V

Wire Range—Tubular Screw (small): #4-#2/0 AWG solid or stranded; Tubular Screw (large): #6 AWG-250 kcmil (MCM) solid or stranded

Dielectric Strength (RH 40% @ sea level)—300 V/mil thickness per ASTM D149

Breakdown Voltage, AC, 60Hz—
Contact-to-Contact: 10,000V
Contact-to-Ground: 10,000V

UL High Voltage Arc Tracking (in./min.)—49-58 [12.45-14.73]

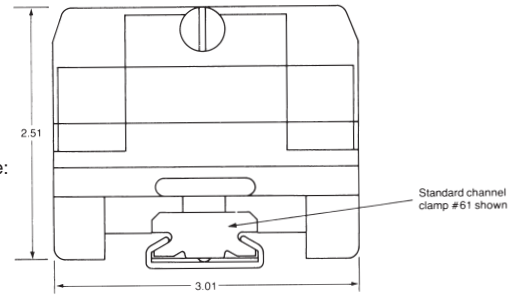
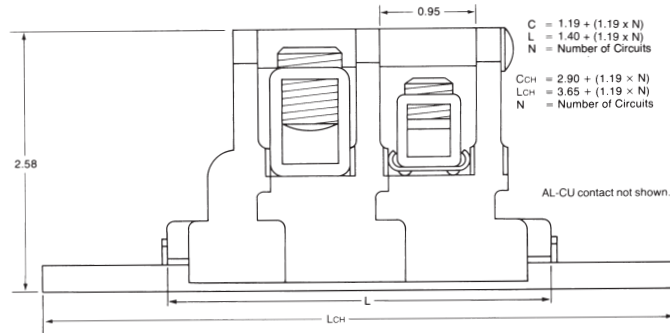
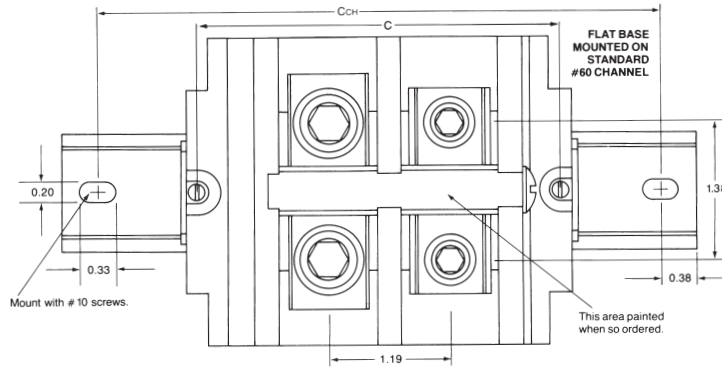
Environmental Properties

Max. Continuous Temperature—150°C [302°F]

Water Absorption (24hrs. % wt. gain)—.45% per ASTM D149

Chemical Resistance—Resistant to acids, alkalis, and aliphatic hydrocarbons and ketones per ASTM D543

Radiation Resistance (ergs g-1 (C))—2.7 x 108



Note: For Direct Mounting, use #10 pan head screws every six circuits. recommended torque: 15-20 in.-lbs.

Same part used for both panel and channel mounting.

Description	Wire Range	Part Number	Catalog Number
Tubular Screw, Unpainted	#14-2/0	1437396-4	416
Tubular Screw, Painted	#14-2/0	1437396-7	426-BU
Tubular Screw, Unpainted	#6-250 kcmil/MCM	1437396-5	417
Tubular Screw, Painted	#6-250 kcmil/MCM	1437396-8	427-BU
End Section	—	1437396-9	430-BU

UL Independent Testing Service Recognitions:

Tubular Screw: Catalog # 416 & 426-BU

- 1 #2/0 AWG, 1 #1/0 AWG, 1 #1 AWG,
- 1 or 2 #2 AWG, 1 to 3 #4 AWG, 1 to 3 #6 AWG,
- 1 to 4 #8 AWG, 1 to 6 #10 AWG, 2 to 8 #12 AWG,

Tubular Screw: Catalog # 417 & 427-BU

- 1 #250kcmil (MCM), 1 #4/0 AWG, 1 #3/0 AWG,
- 1 or 2 #2/0 AWG, 1 or 2 #1/0 AWG, 1 or 2 #1 AWG, 1 to 3 #2 AWG, 1 to 4 #4 AWG,
- 1 to 5 #6 AWG



Note: All part numbers are RoHS Compliant.

400 Series, Ultra Heavy Duty Accessories

Mounting Channel



Channel Clamps



Steel Channel	Break Away Steel	Pre-punched Aluminum Channel	Screw Channel Clamps	Universal Clamps	Snap-In Clamps
Part Number					
9-1437381-1 9-1437381-8	9-1437381-2	9-1437381-9 1437382-2	9-1437381-5	1437382-3	9-1437381-7
Catalog Number					
60 63-BU	60-B-36	64 67	61	68	62
Standard Length					
6 feet 3 feet	3 feet	6 feet 3 feet	—	—	—

Marking Accessories



Plastic Cloth Tape	Vinyl Marking Strips	Elevated Marking Strip	Holding Screw
Part Number			
8-1437381-0	6-1437381-3	4-1437391-1	7-1437381-8
Catalog Number			
55-BU	50-BU	52-BU	53-BU
Standard Length			
50 feet	25 feet	18 inches	—

Notes:

For factory assembled blocks on channel, prefix Catalog # with "0" and suffix with number of blocks desired. Without channel (maximum of 6 sections) delete "0".

Example: Ten tubular screw sections preassembled on channel = 041710

For unpainted factory assembled blocks supplied with a removable marking strip add -1 to Catalog Number.

For blocks with two or more different contact sections, imprinted marking strips or special features, consult Technical Support.

Related Product Data

Wire Pins and Ferrules—Pages 109-111
For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.