

DESCRIPTION/ APPLICATION

This Ultra Heavy Duty line includes two series. The 400 series is rated up to 270 A; the 444 series is rated up to 455 A.

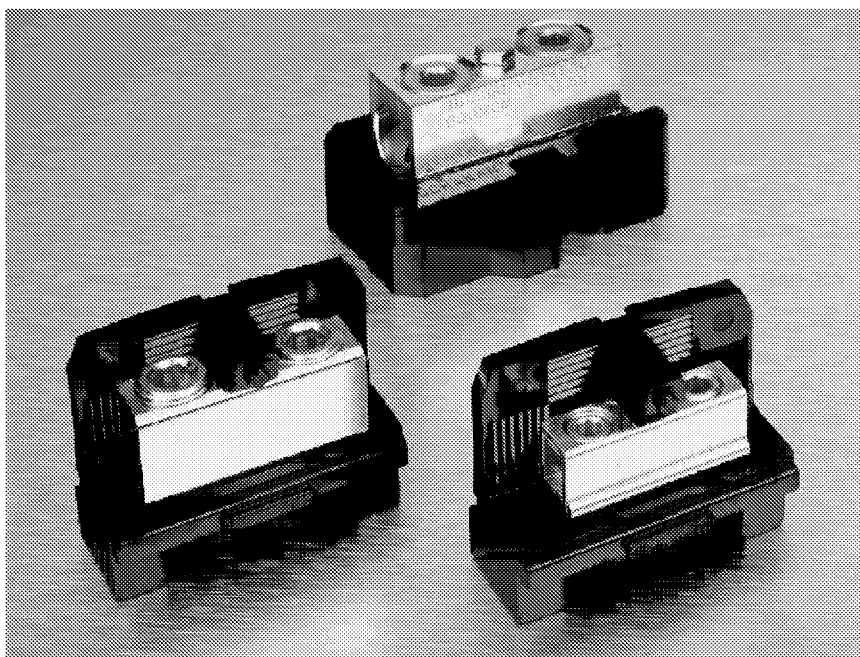
DESIGN ADVANTAGES**400 Series**

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

444 Series

- Massive block for extraordinarily heavy duty applications—use AWG wire sizes #4 thru 600 kcmil (MCM).

400 SERIES ULTRA HEAVY DUTY



- Allen head screws allow maximum torque on large wire sizes.
- Withstand voltages in excess of IEEE switchgear standards for 2,000 volts.
- Conservatively rated at 455 amperes for copper wire, 370 amperes for aluminum wire.
- Housing design permits mounting adjacent blocks with common hardware — may be ganged for multiple circuit requirements maintaining centerlines.
- No end sections needed — each circuit is totally self-contained. Reduces inventory requirements.

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400 SERIES ULTRA HEAVY DUTY 600V, 1.19" PITCH

PHYSICAL PROPERTIES

Housing:

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" - 13 Hex
Large: 3/4" - 16 Hex socket set screw

Mechanical:

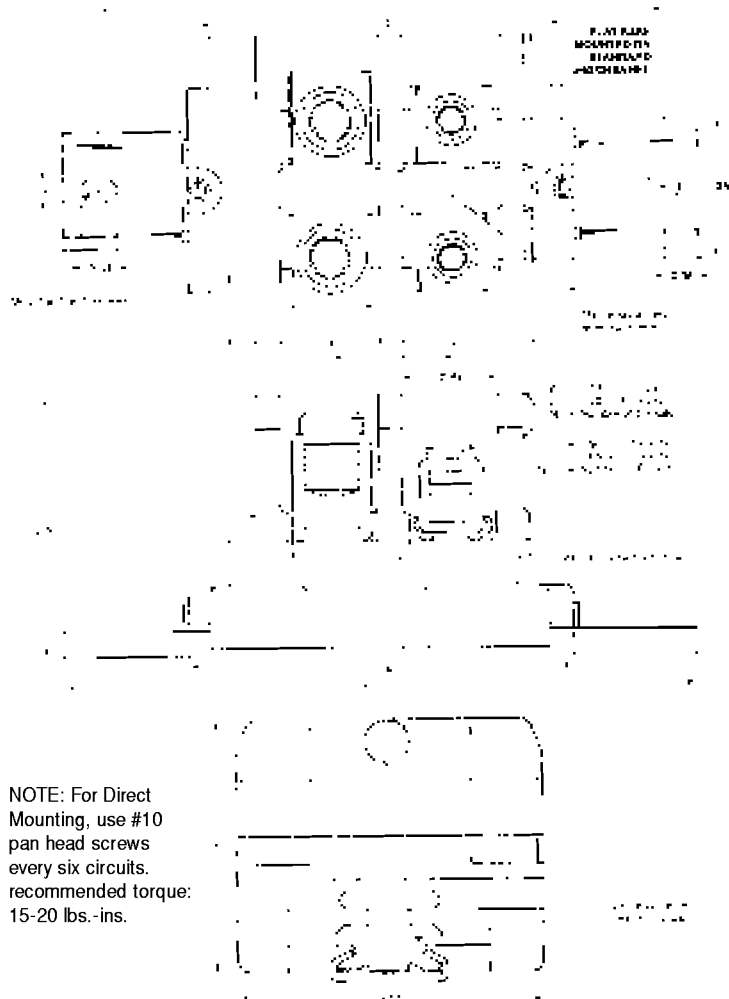
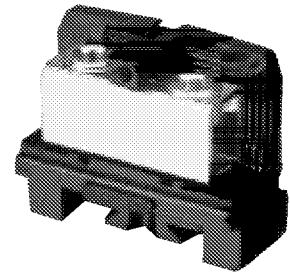
PITCH (TERMINAL SPACING): 1.19"; 9 circuits/foot
WIRE STRIP LENGTH:
Tubular Screw (small): 1"
Tubular Screw (large): 1"

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): #12-#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

ENVIRONMENTAL PROPERTIES

MAX. CONTINUOUS TEMPERATURE: 150° C (302° F)
WATER ABSORPTION (24HRS. % WT. GAIN): .45%
per ASTM D149
CHEMICAL RESISTANCE: Resistant to acids, alkalies,
and aliphatic hydrocarbons and ketones per
ASTM D543
RADIATION RESISTANCE (ERGS G⁻¹ (C): 2.7 x 10⁸



Ordering Information

CATALOG #	DESCRIPTION	WIRE RANGE
416	Tubular Screw, Unpainted	#12-2/0
426-BU	Tubular Screw, Painted	#12-2/0
417	Tubular Screw, Painted	#6-250 Kcmil/MCM
427-BU	Tubular Screw, Unpainted	#6-250 Kcmil/MCM
430-BU	End Section	—

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

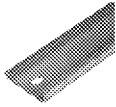
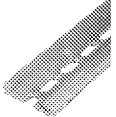
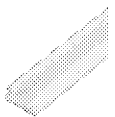


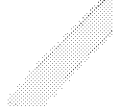
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**400 SERIES
ULTRA HEAVY DUTY
ACCESSORIES**

MOUNTING CHANNEL				CHANNEL CLAMPS		
						
STEEL CHANNEL	BREAK AWAY STEEL	PRE-PUNCHED ALUMINUM CHANNEL	ELEVATED ALUMINUM CHANNEL	SCREW CHANNEL CLAMPS	UNIVERSAL CLAMPS	SNAP-IN CLAMPS
Catalog Number						
60 63-BU	60-B-36	64 67	60-SO	61	68	62
Standard Package						
6 feet 3 feet	3 feet	6 feet 3 feet	6 feet	100	100	100

MARKING ACCESSORIES				
				
PLASTIC CLOTH TAPE	VINYL MARKING STRIPS	ELEVATED MARKING STRIP	HOLDING SCREW	MARKING PEN
Catalog Number				
55-BU	50-BU	52-BU	53-BU	99-BU
Standard Package				
50 feet	25 feet	18 inches	1 Gross	12

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 factory.



SERIES 444 ULTRA HEAVY DUTY — 600 MCM 600 V, 2.38" PITCH

PHYSICAL PROPERTIES

Housing:

HOUSING MATERIAL: Phenolic, filled flame retardant

FLAMMABILITY: UL94V-1

COLOR: Black

Contacts:

MATERIAL: Aluminum alloy electro-tin plated for compatibility with aluminum or copper conductors; tin plated brass screws

SCREW TYPE: 15/16" — 16 Hex Socket Set Screw ("T" type allen wrench is recommended)

Mechanical:

PITCH (TERMINAL SPACING): 2.38" (5 circuits per foot)

WIRE STRIP LENGTH: 1-3/8"

ELECTRICAL PROPERTIES

MAXIMUM CURRENT: 455A (single 600 KCMil (MCM) copper wire)

OPERATING VOLTAGE: Blocks meet 600V creepage and clearance requirements; withstand voltage greatly exceeds standards for 2000V

WIRE RANGE: #4 AWG-600KCMil (MCM), solid or stranded, AL or CU

DIELECTRIC STRENGTH (RH40% @ SEA LEVEL): 300 volts/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

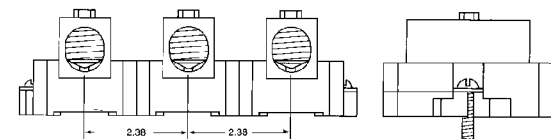
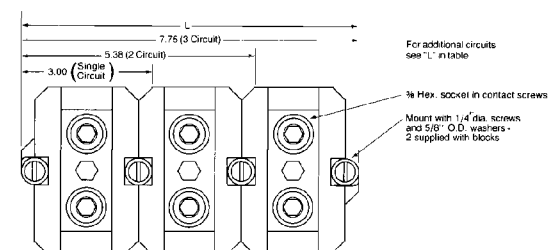
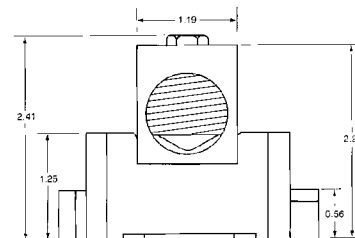
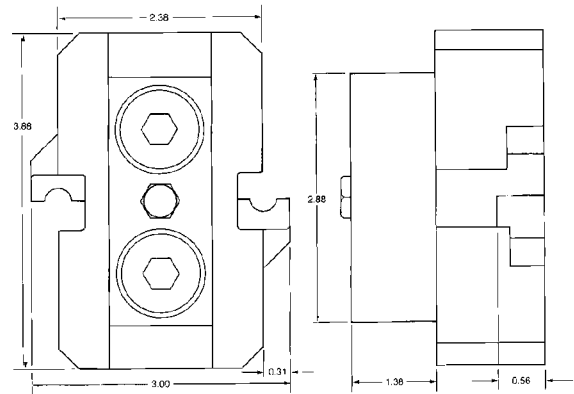
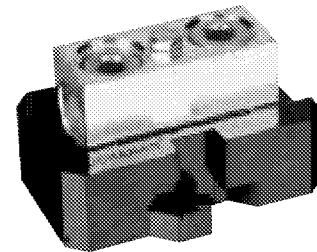
ENVIRONMENTAL PROPERTIES

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



Ordering Information

CATALOG #	DESCRIPTION
444	Tubular Screw

UL INDEPENDENT TESTING SERVICE RECOGNITIONS:

WIRE SIZES, AL OR CU: 1 #600 kcmil (MCM), 1 #500 kcmil (MCM), 1 #400 kcmil (MCM), 1 #350 kcmil (MCM), 1 #300 kcmil (MCM), 1 #250 kcmil (MCM), 1 #4/0 AWG

TUBULAR SCREW: 1 or 2 #3/0 AWG, 1 to 3 #2/0 AWG, 1 to 4 #1/0 AWG, 1 to 4 #1 AWG, 1 to 6 #2 AWG, 1 to 10 #4 AWG

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