

LIGHTNING PREVENTOR OF AMERICA

A Division of Heary Brothers Lightning Protection Co., Inc.

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• **EARLY STREAMER EMISSION (E.S.E.)
AIR TERMINALS**

#LPA-2005 (Preventor System 2005).....page 2

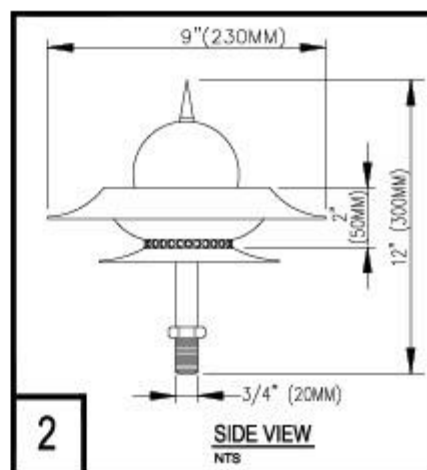
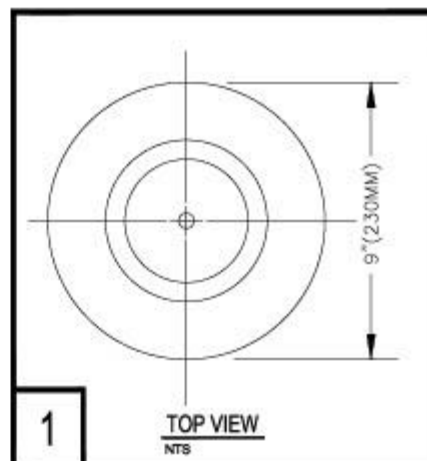
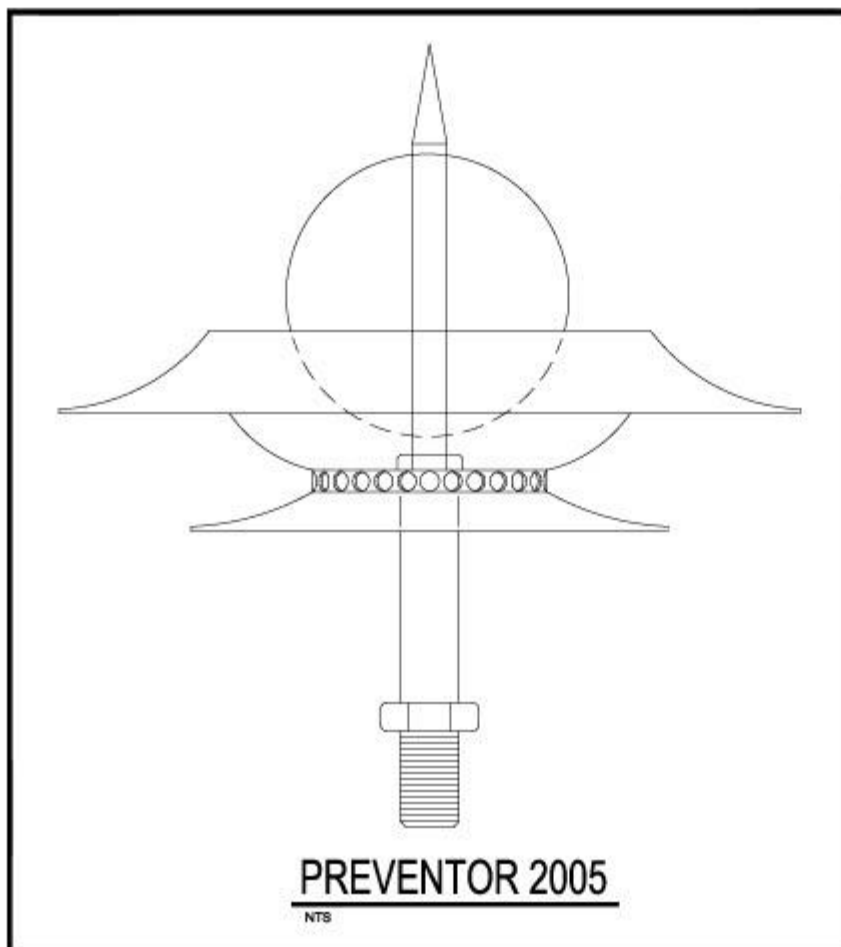
#LPA-10000 (Ellipsoid System 10000)...page 3

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EARLY STREAMER EMISSION (E.S.E.) LIGHTNING ROD

PRODUCT:	LIGHTNING PREVENTOR 2005
CATALOG NO.	LPA-2005
PROTECTION TYPE:	E.S.E. (EARLY STREAMER EMISSION)
OPERATION:	TOWNSEND AVALANCHE
CONSTRUCTION:	COPPER
FINISH:	NICKEL PLATING
FINIAL:	3/4" DIA. x 12" COPPER (20MM x 300MM)
THREAD:	3/4" (20MM) - 10 UNC MALE
LENGTH:	12" (300MM) OVERALL
WIDTH:	9" DIA. (230MM)
WEIGHT:	6 LBS. (2.7KG)

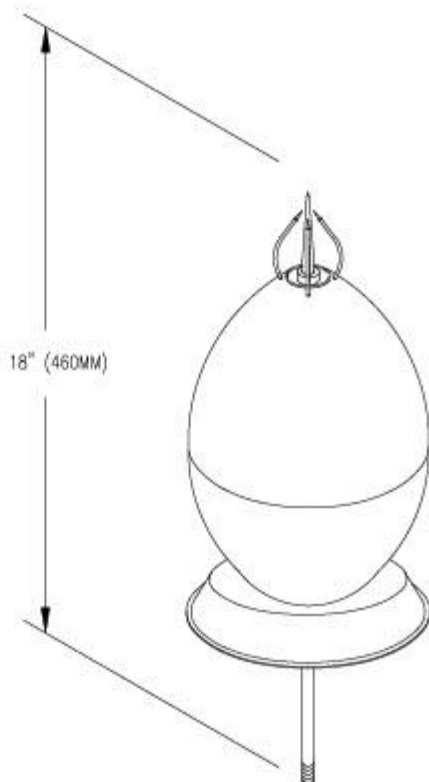
Manufacturer's Installation Standard HBP-21 Level 1 and Level 2 require one (1) ESE air terminal to be installed on the roof for every circular area of 337,810 sq. ft. Structures may be of any height and the ESE lightning protection system must comply with all other requirements within the Manufacturer's Installation Standard HBP-21.

The recommended number and placement of air terminals is based solely on Heary Bros.' 40 years of experience, and its air terminals and the configuration of those terminals have not been scientifically proven or guaranteed to have a measurable zone of protection. Consumers should be aware that the NFPA, in issuing its standard for lightning protection, NFPA 780, states that the NFPA "does not independently test, evaluate or verify the accuracy of any information or the soundness of any judgements contained in its codes and standards."

LIGHTNING PREVENTOR OF AMERICA

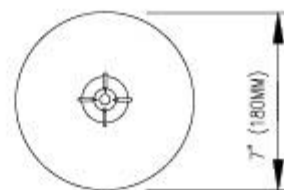
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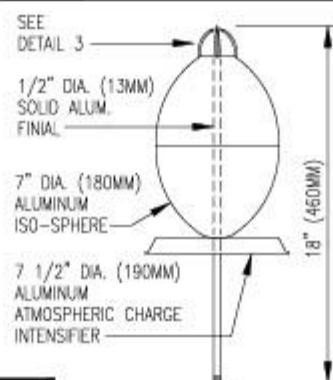
ELLIPSOID II

NTS



TOP VIEW

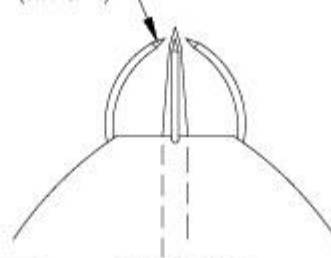
NTS



SIDE VIEW

NTS

.08" DIA. (2MM) x 2 3/4" (70MM) LONG
SOLID ALUMINUM IONIZERS
(TYP. OF 4)



ENLARGEMENT

NTS

EARLY STREAMER EMISSION (E.S.E.) LIGHTNING ROD

PRODUCT:	ELLIPSOID II
CATALOG NO.	LPA-10000
PROTECTION TYPE:	E.S.E. (EARLY STREAMER EMISSION)
OPERATION:	TOWNSEND AVALANCHE
ENERGY SOURCE:	GEOMETRIC AMPLIFICATION IN THE FIELD
CONSTRUCTION:	ALUMINUM
FINISH (BODY):	BRUSHED ALUMINUM
FINIAL:	1/2" DIA. x 18" ALUMINUM (13mm x 460mm)
THREAD:	1/2" (13mm) - 10UNC MALE 3/4" (20mm) - 10UNC ADAPTER AVAILABLE UPON REQUEST]
LENGTH:	18" (460MM) OVERALL
WIDTH:	7" DIA. (180MM) OVERALL
WEIGHT:	2 LBS (.9KG)

Manufacturer's Installation Standard HBP-21 Level 3 requires one (1) ESE air terminal to be installed on the roof for every circular area of 70,650 sq. ft.

Structures shall not exceed 75 ft. in height and the ESE lightning protection system must comply with all other requirements within the Manufacturer's Installation Standard HBP-21.

The recommended number and placement of air terminals is based solely on Heary Bros.' 40 years of experience, and its air terminals and the configuration of those terminals have not been scientifically proven or guaranteed to have a measurable zone of protection.

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• MASTS

ULTRAMASTS

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TELESCOPING MASTS

#LPA-2020TS.....page 7

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#LPA-2010TS.....page 9

UNIMASTS

#LPA-2010A.....page 10

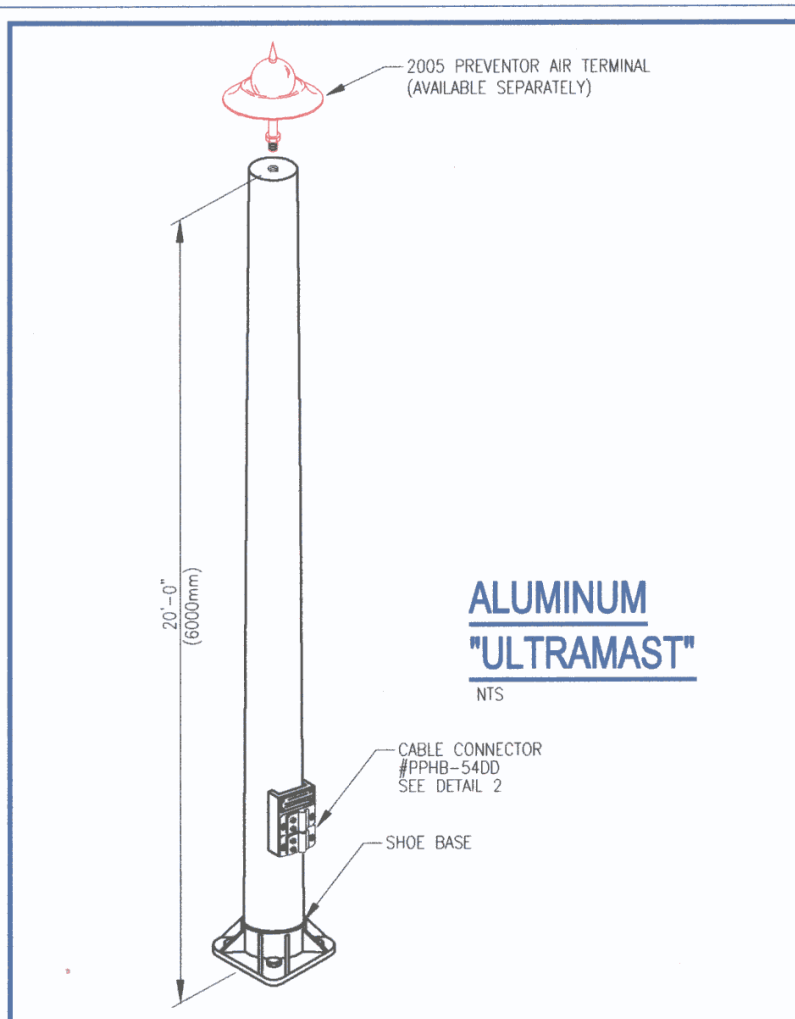
#LPA-2010SS-5/8.....page 10

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ALUMINUM "ULTRAMAST"

NTS

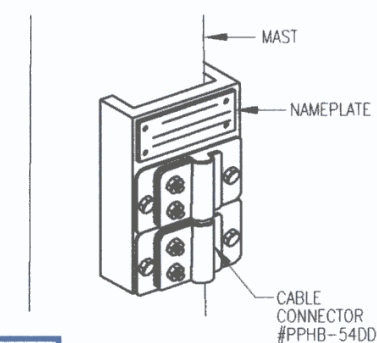
LIGHTNING MAST

PRODUCT:	ULTRAMAST 20
CATALOG NOS.	LPA-2020SB - 20FT. (6000mm)
TOP DIAMETER:	3" (80mm) O.D.
BOTTOM DIAMETER:	5" (125mm) O.D.
CONSTRUCTION:	TUBULAR TAPERED ALUMINUM
WEIGHT:	80 LBS. (36 kg)
WALL THICKNESS:	.1560" (4mm)
FINISH:	BRUSHED ALUMINUM
MOUNTING BASE:	SHOE BASE (ADAPTS TO "LIGHTNING PREVENTOR OF AMERICA" MOUNTING KITS)
MAST TOP:	THREADED 3/4"-10UNC FEMALE
CABLE CONNECTOR:	PLATED COPPER BONDING PLATE #PPHB-54DD (FOR CONNECTING GROUND CABLE)
MOUNTING HARDWARE:	FOUR (4) STAINLESS STEEL BOLTS AND NUTS

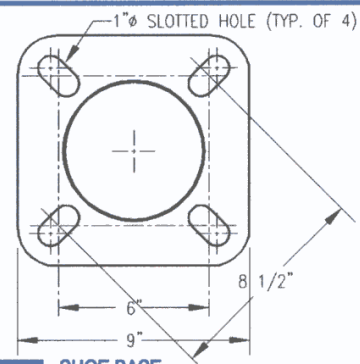
TOP OF MAST IS DRILLED AND
TAPPED TO ACCEPT
LIGHTNING AIR TERMINAL
(3/4"-10NC FEMALE THREAD)



1 TOP OF MAST
NTS



2 CABLE CONNECTOR
NTS

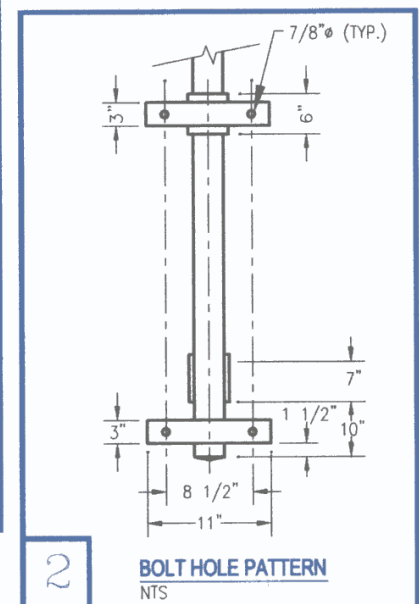
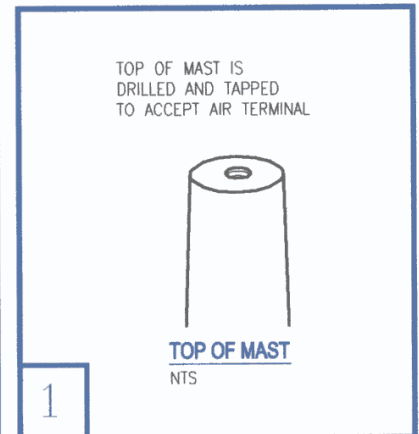
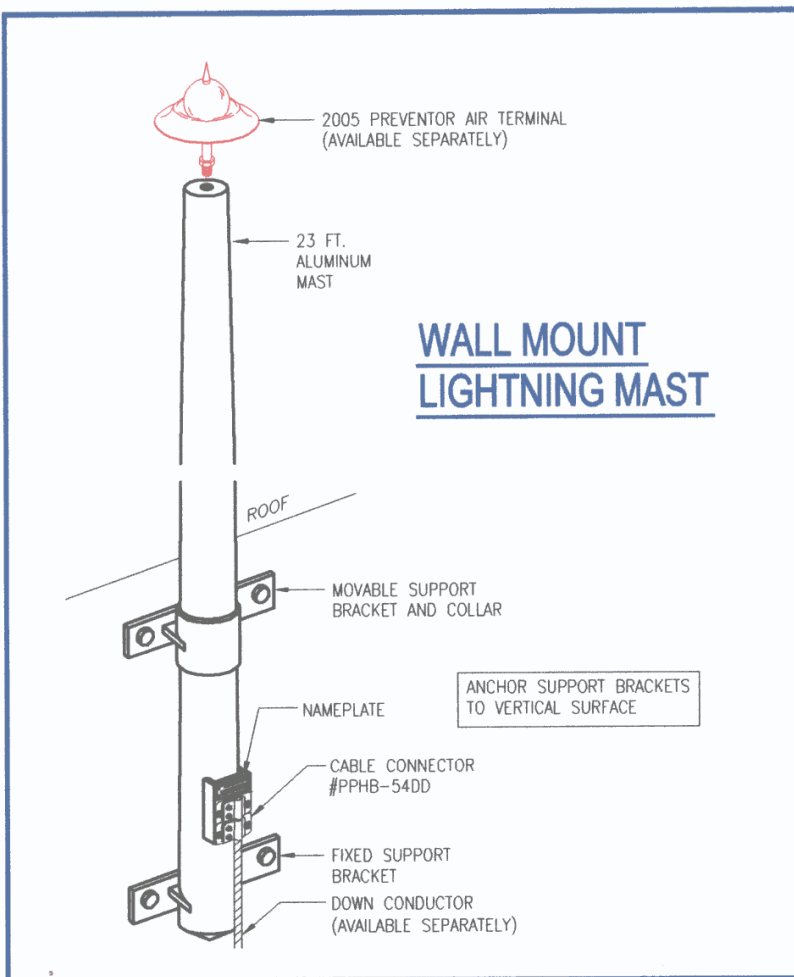


3 SHOE BASE
BOLT HOLE PATTERN
NTS

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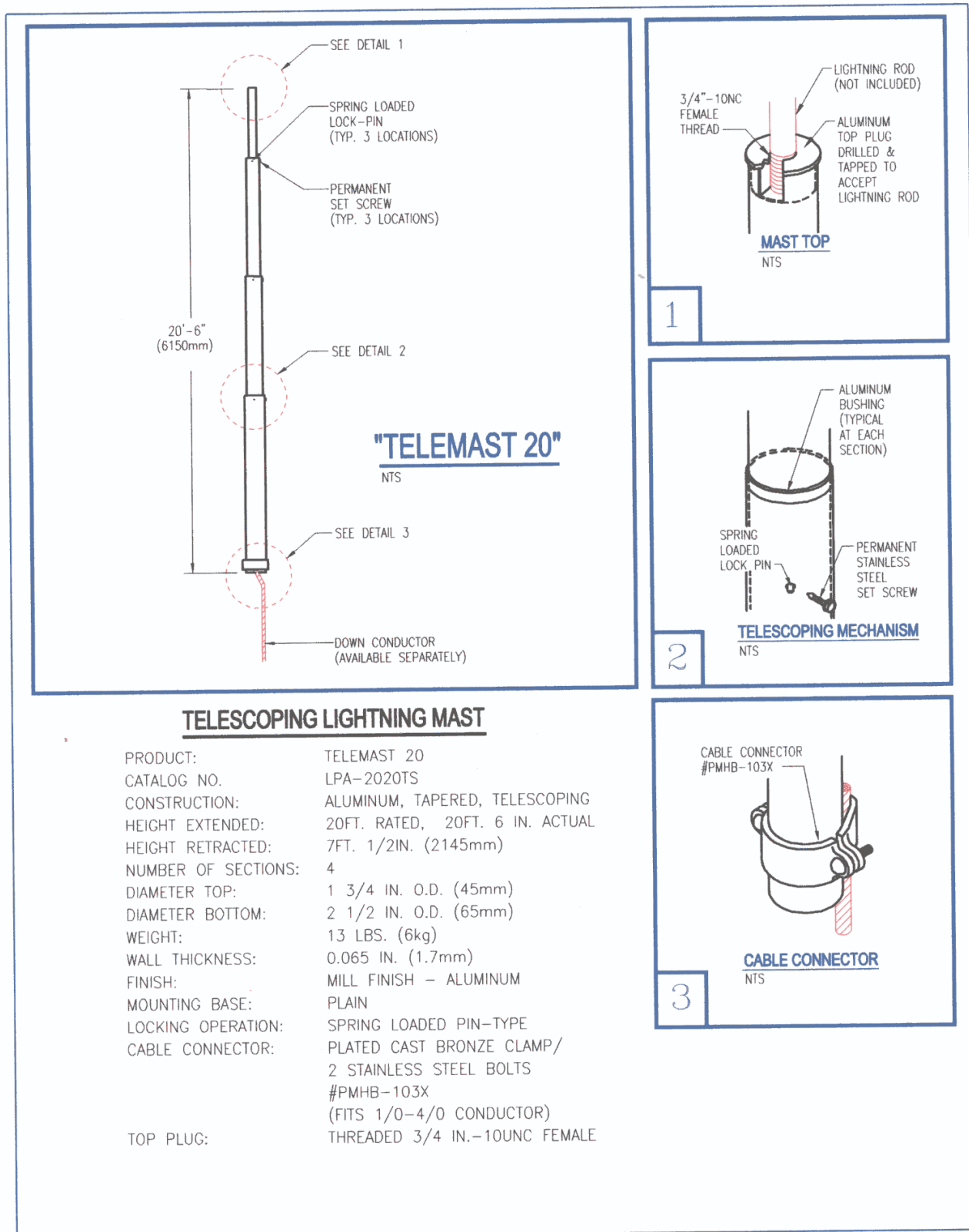
LIGHTNING MAST

PRODUCT:	WALL MOUNT MAST
CATALOG NO.	LPA-2023WMB
TOP DIAMETER:	3" (80mm) O.D.
BOTTOM DIAMETER:	5" (125mm) O.D.
CONSTRUCTION:	TUBULAR TAPERED ALUMINUM
LENGTH:	23FT.
WEIGHT:	85 LBS.
WALL THICKNESS:	.1560" (4mm)
FINISH:	BRUSHED ALUMINUM
MOUNTING BASE:	WALL MOUNT BRACKET
MAST TOP:	THREADED 3/4 IN.-10UNC FEMALE
CABLE CONNECTOR:	PLATED COPPER BONDING PLATE #PPHB-54DD (FOR CONNECTING GROUND CABLE)
MOUNTING HARDWARE:	FOUR (4) STAINLESS STEEL ANCHOR BOLTS OR FOUR (4) BOLTS AND NUTS. (SPECIFY REQUIRED HARDWARE WHEN ORDERING)

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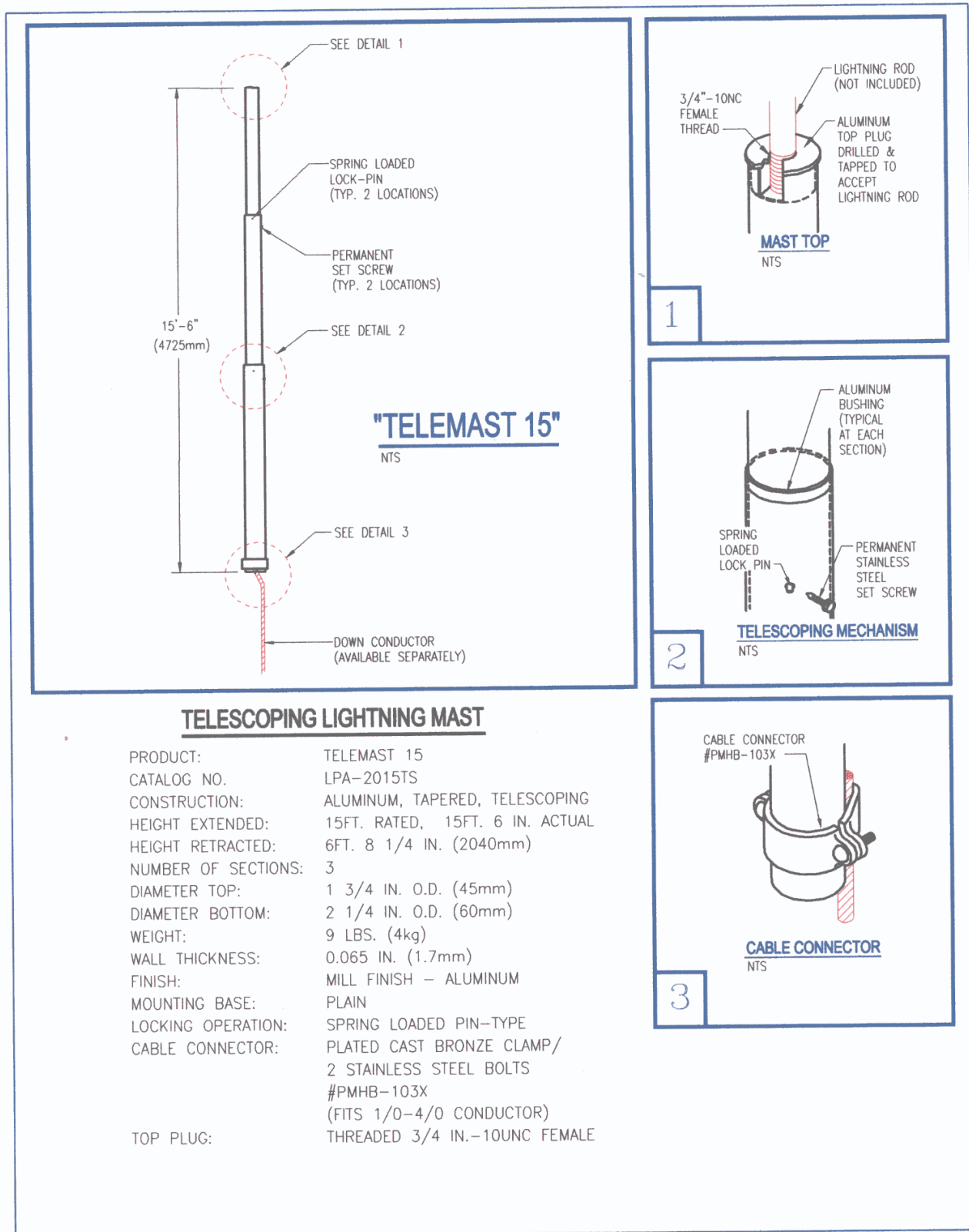
TELESCOPING LIGHTNING MAST

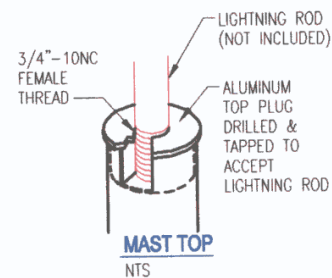
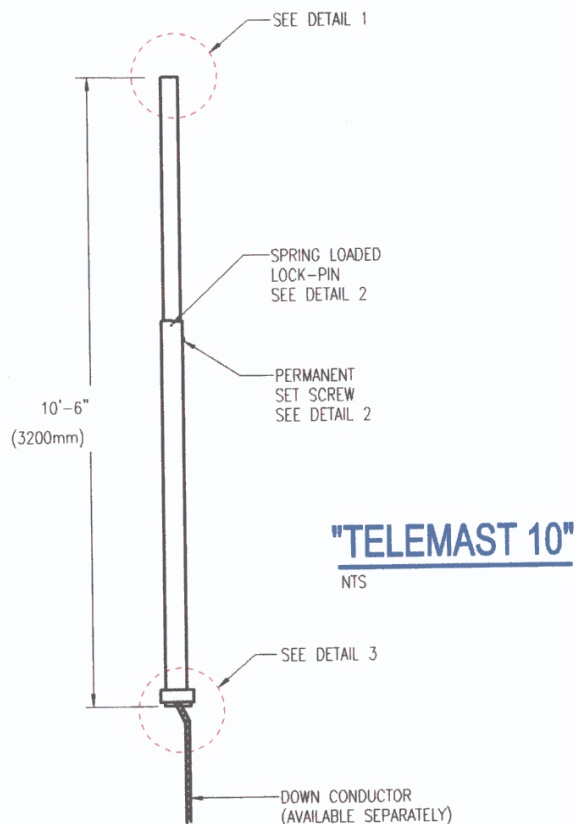
PRODUCT:	TELEMAST 20
CATALOG NO.	LPA-2020TS
CONSTRUCTION:	ALUMINUM, TAPERED, TELESCOPING
HEIGHT EXTENDED:	20FT. RATED, 20FT. 6 IN. ACTUAL
HEIGHT RETRACTED:	7FT. 1/2IN. (2145mm)
NUMBER OF SECTIONS:	4
DIAMETER TOP:	1 3/4 IN. O.D. (45mm)
DIAMETER BOTTOM:	2 1/2 IN. O.D. (65mm)
WEIGHT:	13 LBS. (6kg)
WALL THICKNESS:	0.065 IN. (1.7mm)
FINISH:	MILL FINISH - ALUMINUM
MOUNTING BASE:	PLAIN
LOCKING OPERATION:	SPRING LOADED PIN-TYPE
CABLE CONNECTOR:	PLATED CAST BRONZE CLAMP/ 2 STAINLESS STEEL BOLTS #PMHB-103X (FITS 1/0-4/0 CONDUCTOR)
TOP PLUG:	THREADED 3/4 IN.-10UNC FEMALE

LIGHTNING PREVENTOR OF AMERICA

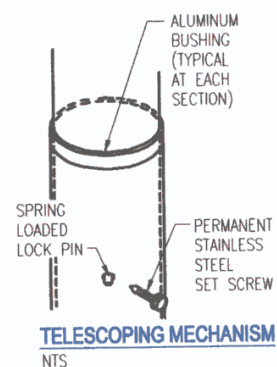
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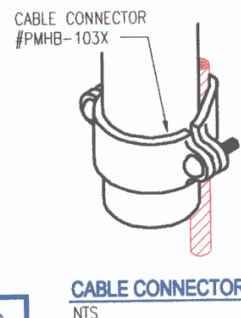




1



2



3

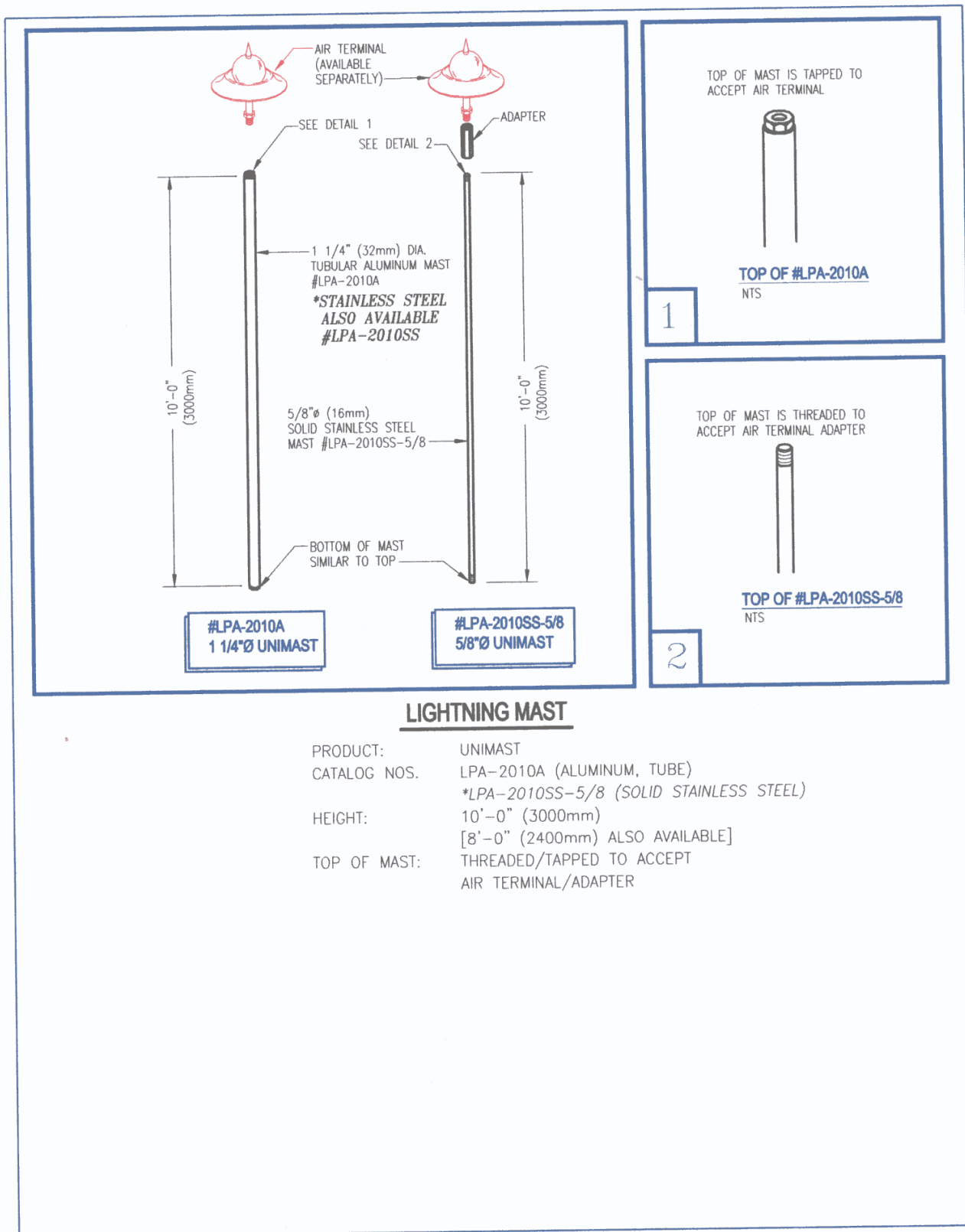
TELESCOPING LIGHTNING MAST

PRODUCT:	TELEMAST 10
CATALOG NO.	LPA-2010TS
CONSTRUCTION:	ALUMINUM, TAPERED, TELESCOPING
HEIGHT EXTENDED:	10FT. RATED, 10FT. 6 IN. ACTUAL
HEIGHT RETRACTED:	6FT. 5 IN. (1955mm)
NUMBER OF SECTIONS:	2
DIAMETER TOP:	1 3/4 IN. O.D. (45mm)
DIAMETER BOTTOM:	2 IN. O.D. (50mm)
WEIGHT:	6 LBS. (2.7kg)
WALL THICKNESS:	0.065 IN. (1.7mm)
FINISH:	MILL FINISH - ALUMINUM
MOUNTING BASE:	PLAIN
LOCKING OPERATION:	SPRING LOADED PIN-TYPE
CABLE CONNECTOR:	PLATED CAST BRONZE CLAMP/ 2 STAINLESS STEEL BOLTS #PMHB-103X (FITS 1/0-4/0 CONDUCTOR)
TOP PLUG:	THREADED 3/4 IN.-10UNC FEMALE

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LIGHTNING MAST

PRODUCT: UNIMAST
 CATALOG NOS. LPA-2010A (ALUMINUM, TUBE)
 *LPA-2010SS-5/8 (SOLID STAINLESS STEEL)
 HEIGHT: 10'-0" (3000mm)
 [8'-0" (2400mm) ALSO AVAILABLE]
 TOP OF MAST: THREADED/TAPPED TO ACCEPT
 AIR TERMINAL/ADAPTER

• MAST MOUNTING KITS

FOR ULTRAMASTS

#LPA-GMK110.....page 12

#LPA-PED5.....page 13

#LPA-SUPPORT.....page 14

FOR TELESCOPING MASTS

#LPA-ABSRM.....page 15

#LPA-GMK55.....page 16

#LPA-PEDT.....page 17

#LPA-TSUPPORT.....page 18

#LPA-WM4.....page 19

FOR UNIMASTS

#LPA-SMK.....page 20

#LPA-TB5.....page 21

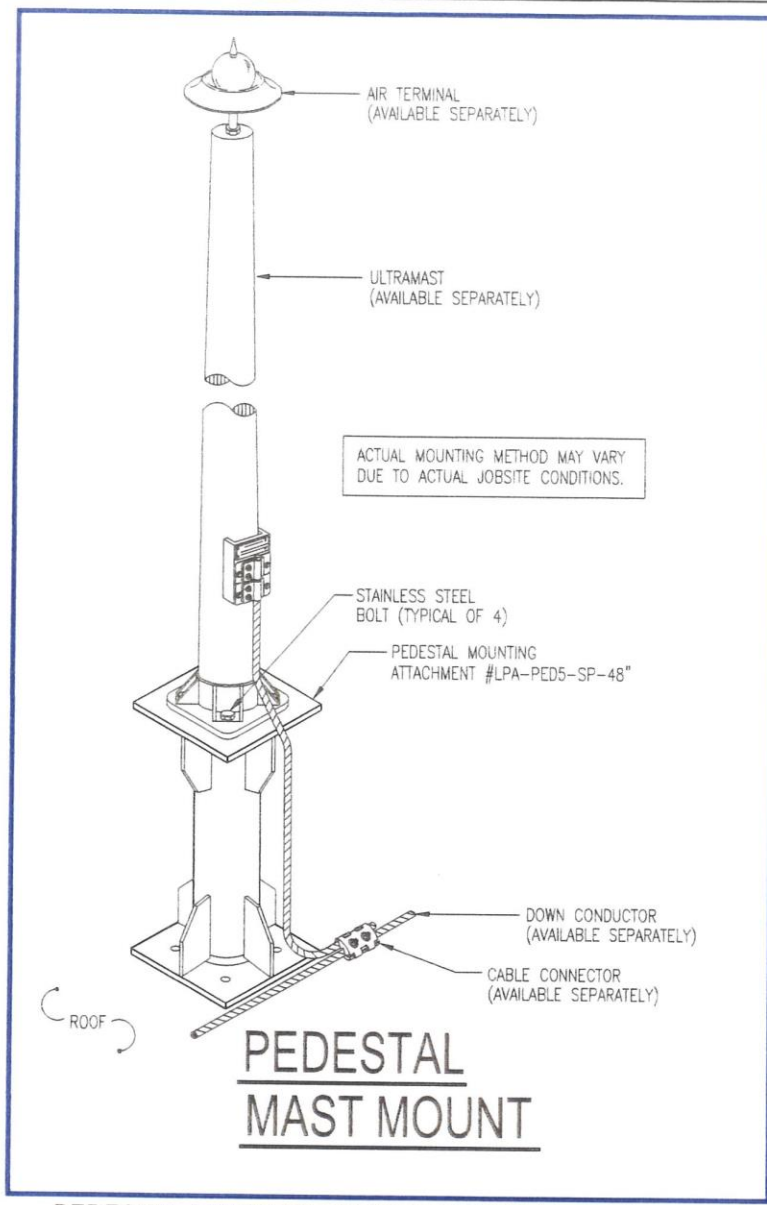
(Note: #LPA-WM4 may be used with telescoping masts & unimasts)

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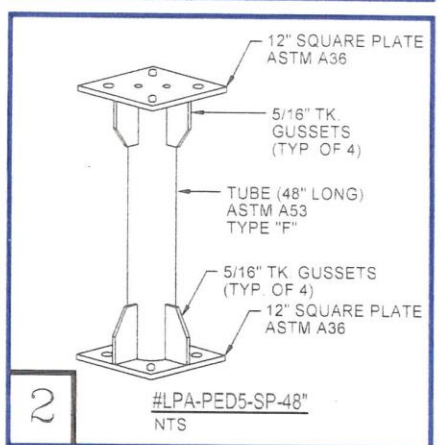
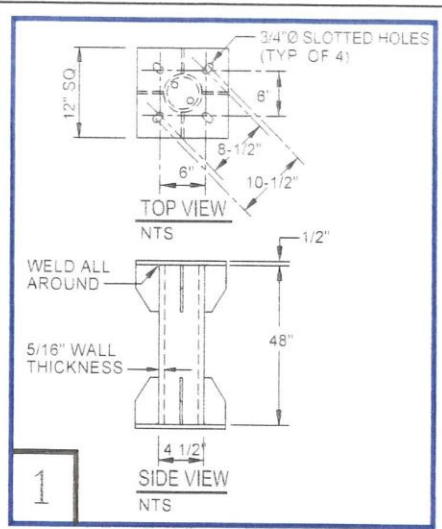
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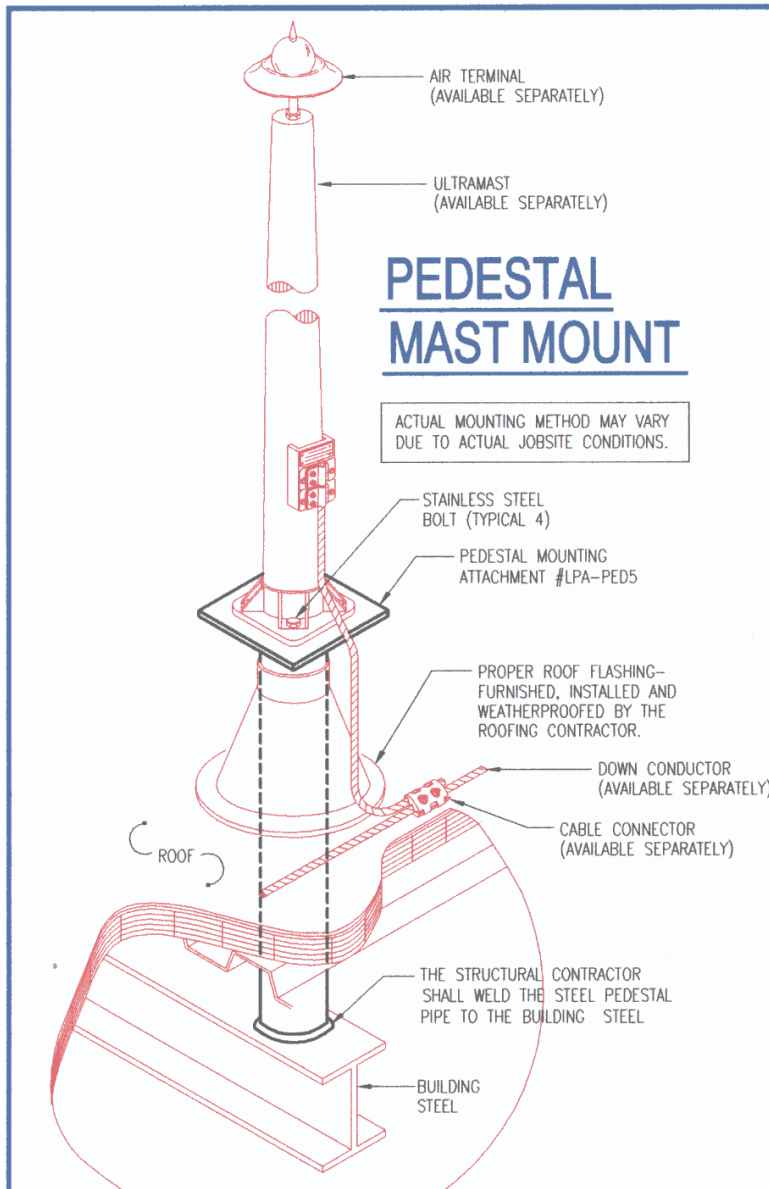
PEDESTAL MAST MOUNT FOR LIGHTNING MAST

PRODUCT:	PEDESTAL MAST MOUNT
CATALOG NO.	LPA-PED5-SP-48"
CONSTRUCTION:	GALVANIZED PLATES AND PIPE
TOTAL LENGTH:	48"
WEIGHT:	110 LBS.
RECOMMENDED MAST:	ULTRAMAST (AVAILABLE SEPARATELY)



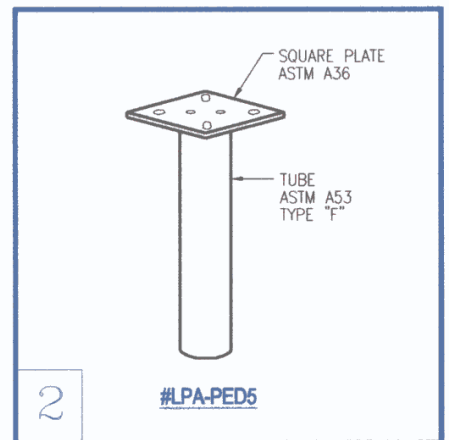
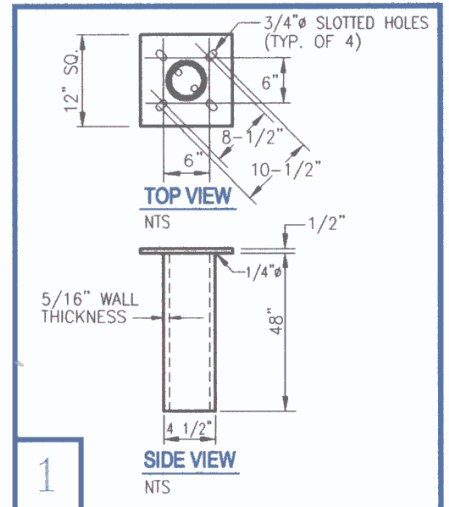
- APPLICATION:**
- HEAVY DUTY METHOD OF SUPPORTING "ULTRAMAST" TO CONCRETE ROOF DECK.
 - COMMERCIAL

- SPECIAL NOTE:**
- IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE CONSTRUCTION OF THE STRUCTURE ON WHICH THE PEDESTAL MAST MOUNT IS TO BE ANCHORED IS STRONG ENOUGH TO SUPPORT THE MAST DURING HURRICANE FORCE WINDS.
 - IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL APPLICABLE CODES ARE SATISFIED. IT IS RECOMMENDED THAT A STRUCTURAL ENGINEER REVIEW THE APPLICATION OF THIS PRODUCT.



PEDESTAL MAST MOUNT

ACTUAL MOUNTING METHOD MAY VARY
DUE TO ACTUAL JOBSITE CONDITIONS.



PEDESTAL MAST MOUNT FOR LIGHTNING MAST

PRODUCT:	PEDESTAL MAST MOUNT
CATALOG NO.	LPA-PED5
CONSTRUCTION:	GALVANIZED PLATE AND PIPE
ANCHORING REQUIREMENT:	PIPE WELDED TO STRUCTURAL STEEL WITHIN BUILDING.
	NOTE: GALVANIZING AT POINT OF WELD MUST BE REMOVED PRIOR TO WELDING.
TOTAL LENGTH:	48" (1200mm)
WEIGHT:	75 LBS. (34kg)
RECOMMENDED MAST:	ULTRAMAST (AVAILABLE SEPARATELY)

APPLICATION:

- HEAVY DUTY METHOD OF SUPPORTING "ULTRAMAST" TO A STRUCTURAL STEEL MEMBER.
- BOTTOM OF PIPE CUT TO LENGTH AT SITE (IF NECESSARY), THEN SIMPLY WELDED TO A STEEL MEMBER.
- COMMERCIAL

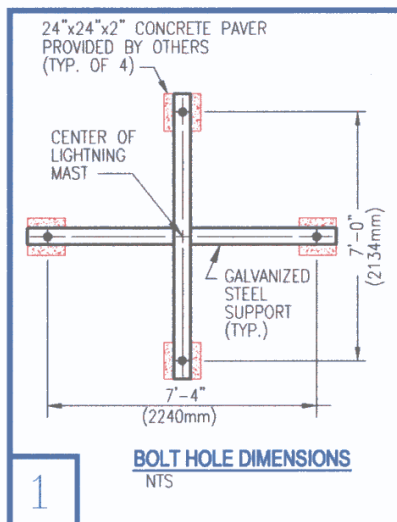
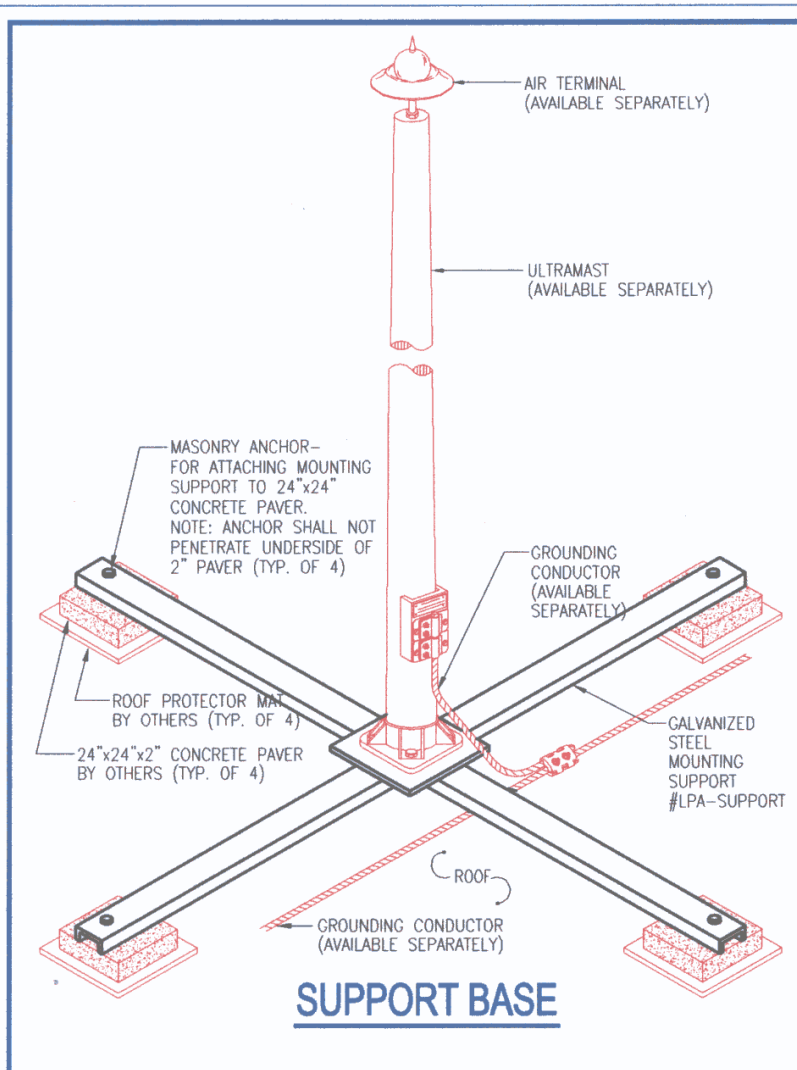
SPECIAL NOTE:

- IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE CONSTRUCTION OF THE STRUCTURE ON WHICH THE PEDESTAL MAST MOUNT IS TO BE ANCHORED IS STRONG ENOUGH TO SUPPORT THE MAST DURING HURRICANE FORCE WINDS.
- IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL APPLICABLE CODES ARE SATISFIED. IT IS RECOMMENDED THAT A STRUCTURAL ENGINEER REVIEW THE APPLICATION OF THIS PRODUCT.

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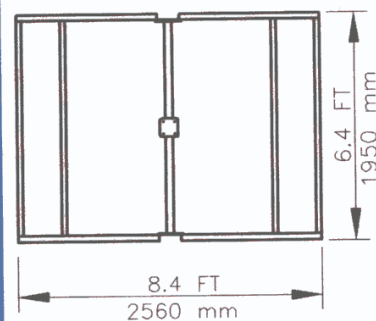
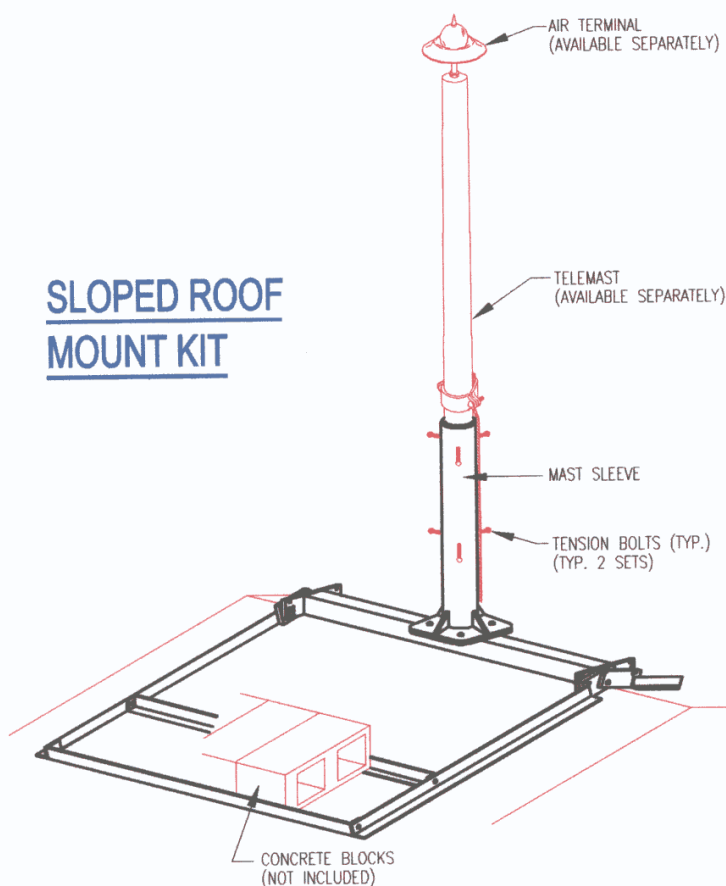
APPLICATION:

- FOR FLAT ROOFS
- NEW OR EXISTING CONSTRUCTION
- NO ROOF PENETRATIONS REQUIRED
- A BUFFER SHEET CAN BE USED TO ISOLATE THE MOUNT FROM THE ROOF SURFACE. (NOT INCLUDED)

GRAVITY MAST MOUNT FOR LIGHTNING MAST

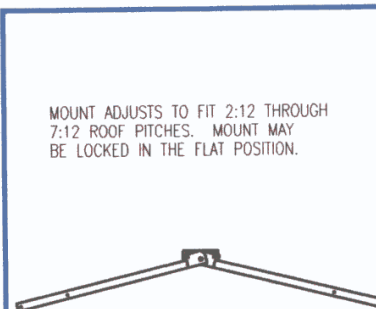
PRODUCT:	GRAVITY MOUNT SUPPORT BASE
CATALOG NO.	LPA-SUPPORT
CONSTRUCTION:	HEAVY DUTY GALV. STEEL CHANNEL ON CONCRETE PAVERS
RECOMMENDED MAST:	ULTRAMAST
	5"Ø BUTT x 20FT. (125x6000)
	(AVAILABLE SEPARATELY)

SLOPED ROOF MOUNT KIT



1

TOP VIEW
NTS



2

SIDE VIEW
NTS

MOUNT ADJUSTS TO FIT 2:12 THROUGH 7:12 ROOF PITCHES. MOUNT MAY BE LOCKED IN THE FLAT POSITION.

SLOPED ROOF MOUNT KIT FOR TELESCOPING LIGHTNING MAST

PRODUCT:	ADJUSTABLE BALLASTED SLOPED ROOF MOUNT KIT (ABSRM)
CATALOG NO.	LPA-ABSRM
CONSTRUCTION:	STEEL, HOT DIP GALVANIZED FINISH
WEIGHT:	136 LBS. (62kg)-NOT INCLUDING BALLAST
MAST SLEEVE DIAMETER:	3 1/2" (90mm) O.D. 3 1/16" (80mm) I.D.
MAST SLEEVE HEIGHT:	20" (500mm)
FOOTPRINT:	6.4 FT. x 8.4 FT. = 53.7 FT ² (1950mm x 2560mm=5m ²)
TENSION BOLTS:	3/8" (10mm) STAINLESS STEEL
ANCHORING REQUIREMENT:	• BALLAST (NON-PENETRATING RIDGEMOUNT OR FLAT ROOF SUPPORT SYSTEM)-(BALLAST NOT INCLUDED) • OR BOLT TO ROOF
RECOMMENDED MAST:	TELEMAST SERIES - 2"-2 1/2"(50mm-65mm) O.D.

APPLICATION:

- ADJUSTS TO FIT 2:12 THROUGH 7:12 ROOF PITCHES. MAY BE LOCKED INTO THE FLAT POSITION.
- SETS UP FAST
- EASILY ADJUSTS TO ROOF PITCH
- ENGINEERED FOR DURABILITY, SIMPLICITY & FLEXIBILITY
- ROOF PENETRATIONS (IF ANY) SHALL BE PROPERLY WEATHERPROOFED BY THE ROOFING CONTRACTOR.
- A BUFFER SHEET MAY BE USED TO ISOLATE THE MOUNT FROM THE ROOF SURFACE (NOT INCLUDED).

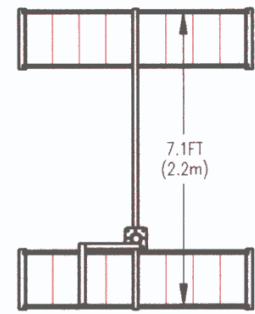
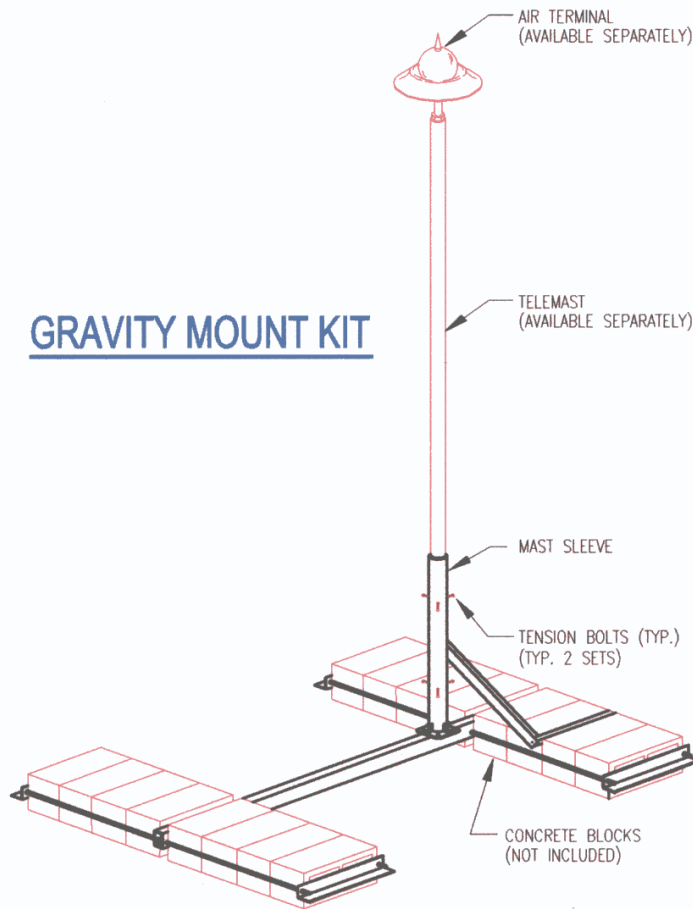
IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL APPLICABLE CODES ARE SATISFIED. IT IS SUGGESTED THAT A STRUCTURAL ENGINEER REVIEW THE APPLICATION OF THIS PRODUCT.

LIGHTNING PREVENTOR OF AMERICA

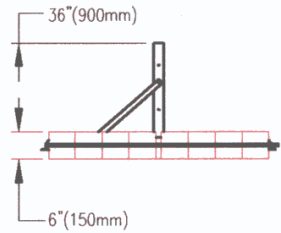
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GRAVITY MOUNT KIT



TOP VIEW
NTS



SIDE VIEW
NTS

GRAVITY MOUNT KIT FOR TELESCOPING LIGHTNING MAST

PRODUCT:	GRAVITY MOUNT KIT
CATALOG NO.	LPA-GMK55
CONSTRUCTION:	STEEL; POST TENSIONED; HOT DIP GALVANIZED FINISH
WEIGHT:	65 LBS. (29kg) (NOT INCLUDING BALLAST)
ANCHORING REQUIREMENT:	BALLAST (NON-PENETRATING FLAT ROOF SUPPORT SYSTEM) (BALLAST NOT INCLUDED)
MAST SLEEVE DIAMETER:	3 1/2\"(90mm) O.D. 3 1/16\"(80mm) I.D.
TENSION BOLTS:	3/8\"(10mm) STAINLESS STEEL
RECOMMENDED MASTS:	TELEMAST SERIES - 2\"(50mm) - 2 1/2\"(65mm) O.D. (NOT INCLUDED)

APPLICATION:

- CAN BE USED WITH SIX CONCRETE BLOCKS PER SIDE TO SIXTEEN CONCRETE BLOCKS PER SIDE.
- THE DIFFERENT PAD SIZES ALLOW THE MOUNT TO BE BALLASTED FOR VARIOUS MAST SIZES.
- THE SIMPLE DESIGN PROVIDES FOR A LOW COST, EASILY ASSEMBLED MOUNT.
- HOT DIP GALVANIZED PROVIDES A HIGH QUALITY, COST EFFECTIVE MOUNTING SYSTEM.
- A BUFFER SHEET MAY BE USED TO ISOLATE THE MOUNT FROM THE ROOF SURFACE. (NOT INCLUDED)

LIGHTNING PREVENTOR OF AMERICA

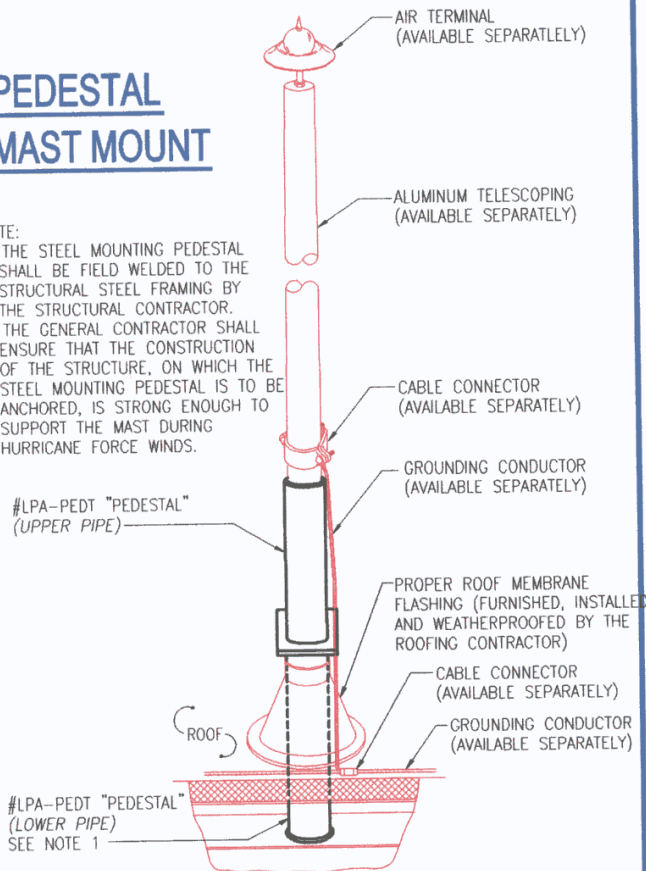
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PEDESTAL MAST MOUNT

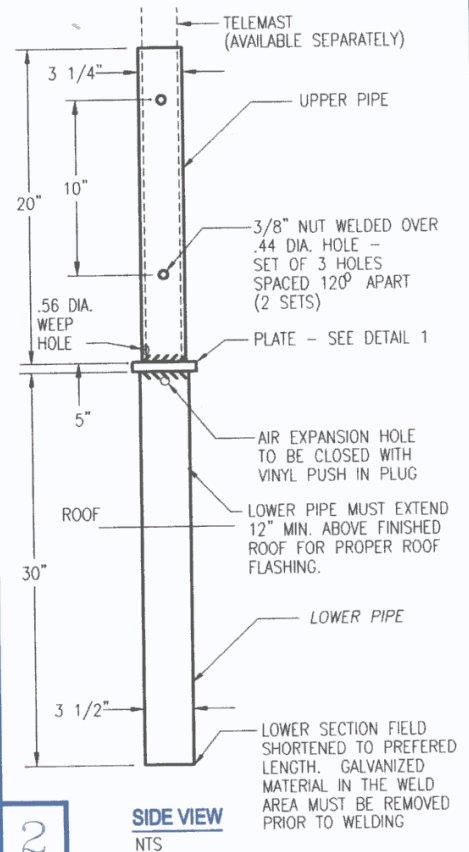
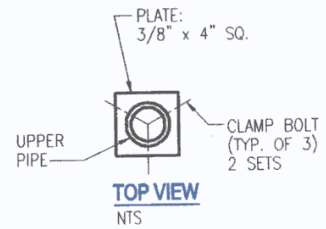
NOTE:

1. THE STEEL MOUNTING PEDESTAL SHALL BE FIELD WELDED TO THE STRUCTURAL STEEL FRAMING BY THE STRUCTURAL CONTRACTOR.
2. THE GENERAL CONTRACTOR SHALL ENSURE THAT THE CONSTRUCTION OF THE STRUCTURE, ON WHICH THE STEEL MOUNTING PEDESTAL IS TO BE ANCHORED, IS STRONG ENOUGH TO SUPPORT THE MAST DURING HURRICANE FORCE WINDS.



PEDESTAL MOUNT FOR TELESOPING LIGHTNING MAST

PRODUCT:	PEDESTAL
CATALOG NO.	LPA-PEDT
CONSTRUCTION:	S40 GALVANIZED PIPE W/ HOLES FOR CLAMP BOLTS
ANCHORING REQUIREMENT:	LOWER PIPE WELDED TO STRUCTURAL STEEL WITHIN BUILDING.
	NOTE: GALVANIZING AT POINT OF WELD MUST BE REMOVED PRIOR TO WELDING.
TOTAL LENGTH:	50 3/8" (1280mm)
	NOTE: LOWER PIPE MAY BE CUT TO LENGTH IN FIELD.
OUTSIDE DIAMETER:	3 1/2" (90mm)
INSIDE DIAMETER:	3 1/16" (80mm)
WEIGHT:	37 LBS. (17kg)
RECOMMENDED MAST:	TELEMAST - 2" (50mm) thru 2 1/2" (65mm) O.D.
CLAMP BOLTS:	3/8" (10mm) STAINLESS STEEL



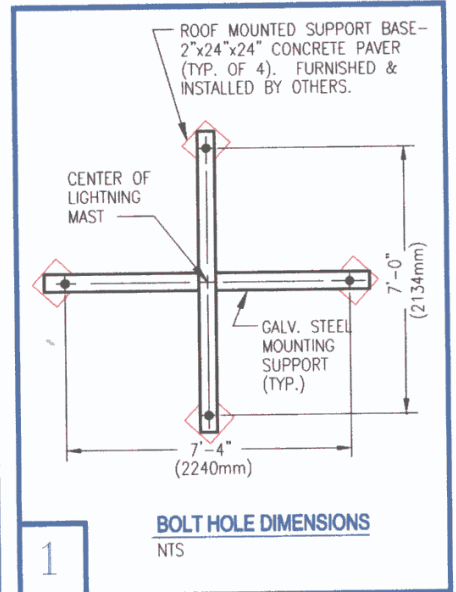
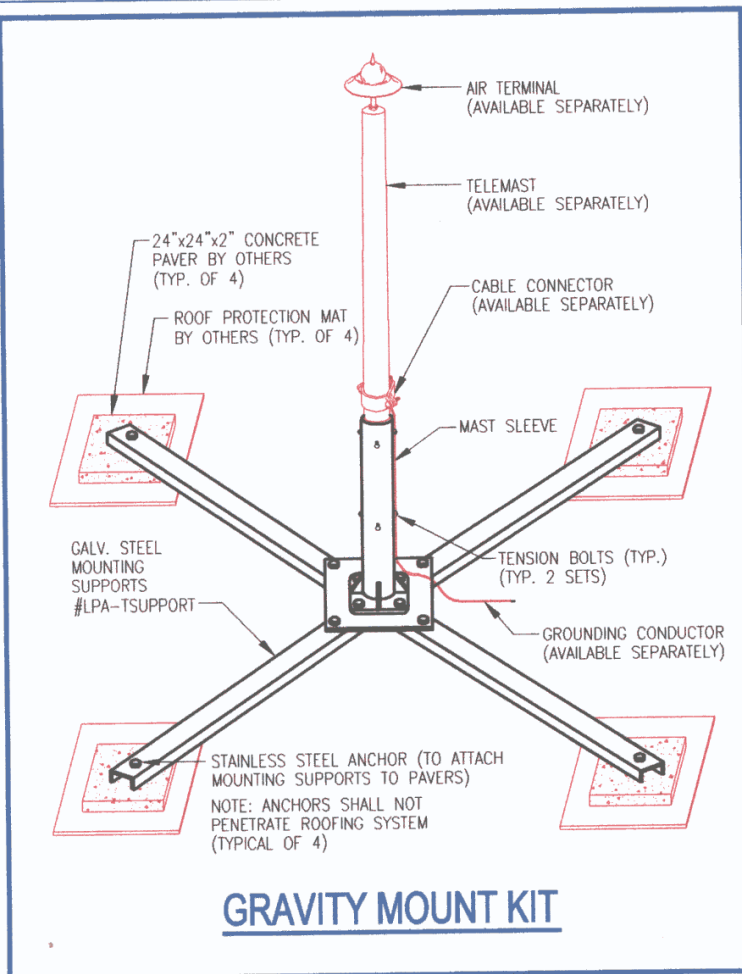
APPLICATION:

- HEAVY DUTY YET ECONOMICAL WAY TO SUPPORT ANY TELEMAST TO A STRUCTURAL MEMBER.
- LOWER PIPE MAY BE CUT TO LENGTH, THEN, SIMPLY WELDED TO EITHER A HORIZONTAL OR VERTICAL STEEL MEMBER.
- COMMERCIAL

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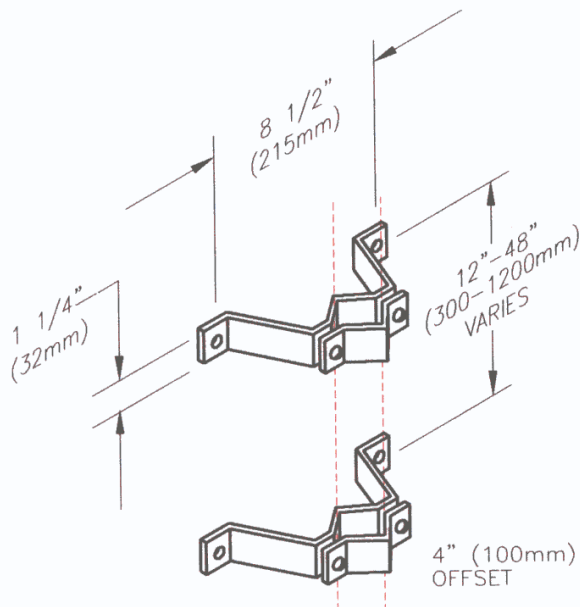


APPLICATION:

- FOR FLAT ROOFS
- NEW OR EXISTING CONSTRUCTION
- NO ROOF PENETRATIONS REQUIRED
- A BUFFER SHEET MAY BE USED TO ISOLATE THE MOUNT FROM THE ROOF SURFACE. (NOT INCLUDED)

GRAVITY MOUNT KIT FOR TELESCOPING LIGHTNING MAST

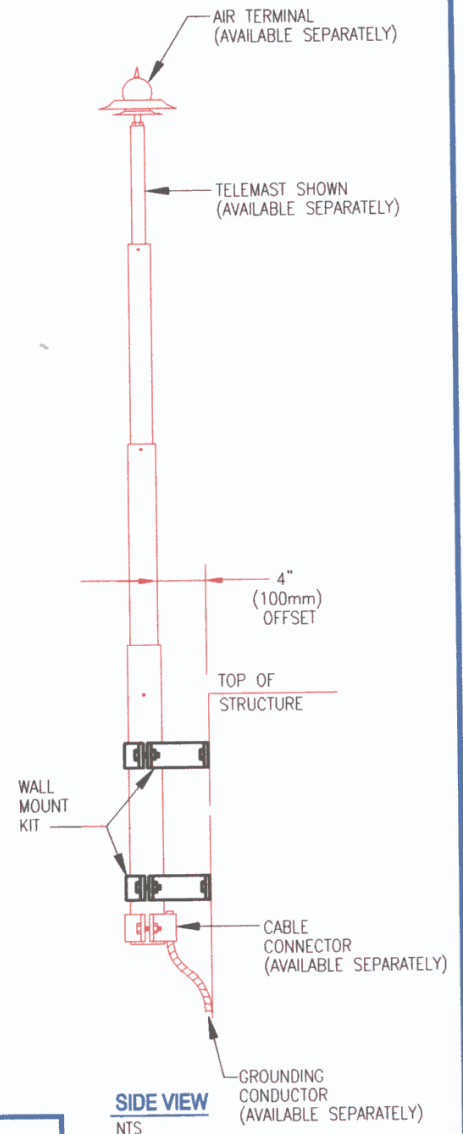
PRODUCT:	GRAVITY MOUNT KIT
CATALOG NO.	LPA-TSUPPORT
CONSTRUCTION:	HEAVY DUTY GALV. STEEL CHANNEL ON CONCRETE PAVERS.
ANCHORING REQUIREMENT:	BALLAST (NON-PENETRATING FLAT ROOF SUPPORT SYSTEM) (BALLAST NOT INCLUDED)
MAST SLEEVE DIAMETER:	3 1/2" (90mm) O.D. 3 1/16" (80mm) I.D.
TENSION BOLTS:	3/8" (10mm) STAINLESS STEEL
RECOMMENDED MASTS:	TELEMAST SERIES— 2"—2 1/2" (50mm—65mm) O.D. (AVAILABLE SEPARATELY)



WALL MOUNT KIT

WALL MOUNT KIT FOR LIGHTNING MAST

PRODUCT:	WALL MOUNT KIT
CATALOG NO.	LPA-WM4
CONSTRUCTION:	DELUXE MOUNT, HEAVY GAUGE, GALVANIZED STEEL
WEIGHT:	2 LBS. (.9kg)
OFFSET:	4" (100mm)
ANCHORING REQUIREMENT:	ANCHORED TO BUILDING STRUCTURE
HARDWARE:	1/4" METAL SCREWS (ACTUAL SITE CONDITIONS MAY REQUIRE ALTERNATE MOUNTING ANCHORS. CONTACT SALES REPRESENTATIVE FOR OPTIONAL MOUNTING HARDWARE AVAILABLE)
TENSION BOLTS:	3/8" (10mm) STAINLESS STEEL
RECOMMENDED MASTS:	UNIMAST SERIES 1 1/4" (32mm) O.D. OR TELEMAT SERIES 2" (50mm) thru 2 1/2" (65mm) O.D. (AVAILABLE SEPARATELY)



1

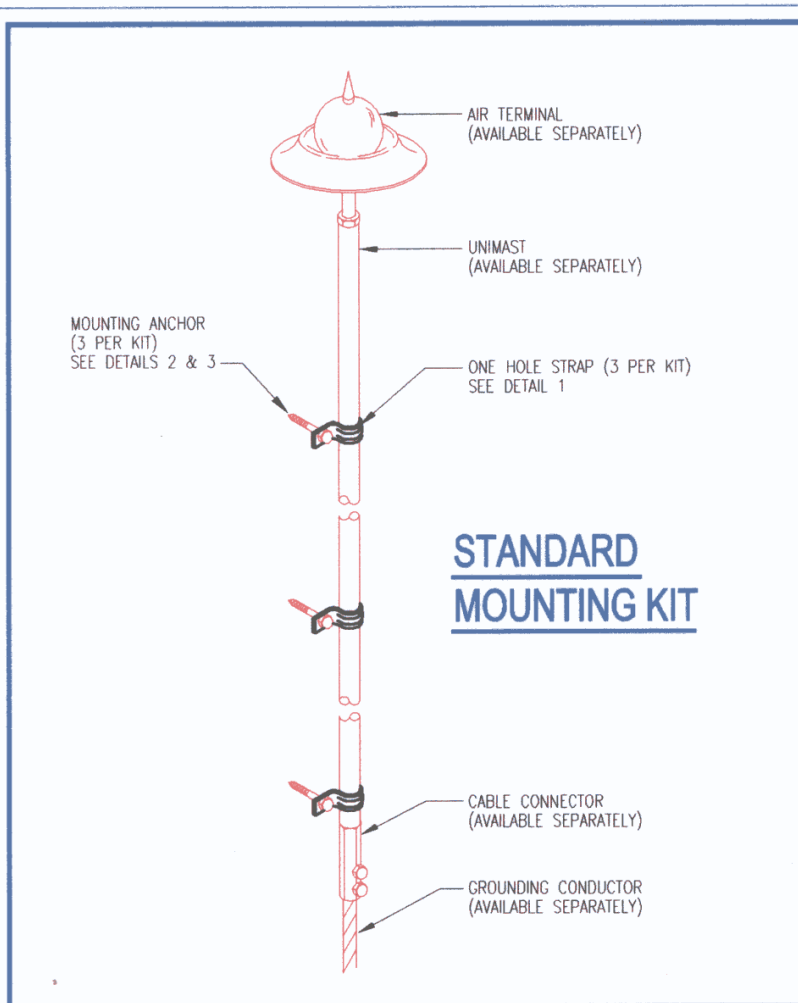
APPLICATION:

- ECONOMY MOUNTING KIT
- WALL MOUNT
- CHIMNEY MOUNT
- RESIDENTIAL
- LIGHT COMMERCIAL

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STANDARD MOUNTING KIT FOR UNIMAST LIGHTNING MAST

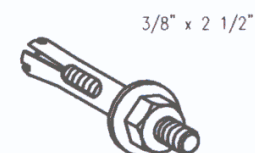
PRODUCT: STANDARD MOUNTING KIT
 CATALOG NO. LPA-SMK
 CONSTRUCTION: 1" HEAVY DUTY ZINC PLATED
 STEEL ONE HOLE STRAP (3 PER KIT)
 HARDWARE:
 • 3/8" x 3" LAG SCREWS
 • 3/8" x 2 1/2" MASONRY EXPANSION ANCHORS

RECOMMENDED MASTS: UNIMAST 1 1/4" (32mm) O.D.



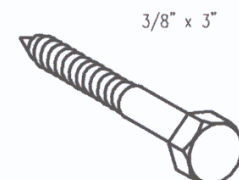
ONE HOLE STRAP
NTS

1



MASONRY EXPANSION ANCHOR
NTS

2

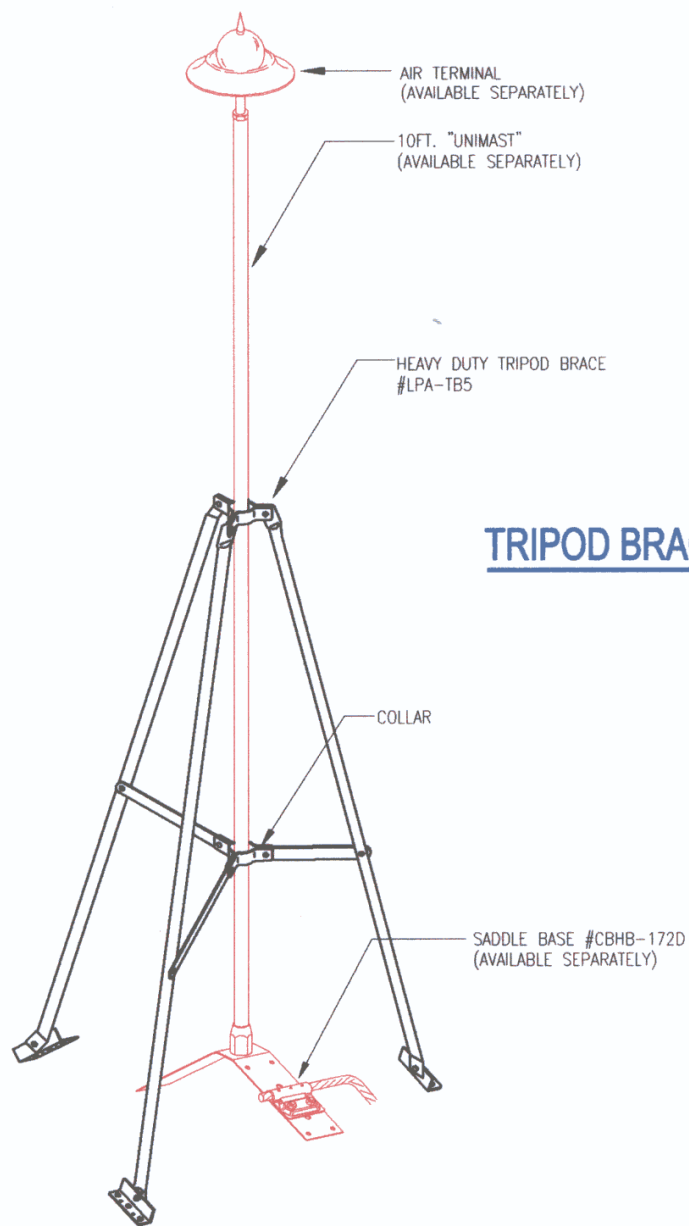


LAG SCREW
NTS

3

APPLICATION:

- ECONOMY MOUNTING KIT
- WALL MOUNT
- POLE MOUNT



TRIPOD BRACE

HEAVY DUTY TRIPOD BRACE FOR LIGHTNING MAST

PRODUCT:	HEAVY DUTY 5FT. TRIPOD BRACE
CATALOG NO.	LPA-TB5
RECOMMENDED MAST:	UNIMAST-1 1/4"Ø x 10'-0" LONG (32mm x 3000mm) (AVAILABLE SEPARATELY)
APPLICATION:	<ul style="list-style-type: none"> •RESIDENTIAL OR LIGHT COMMERCIAL •FOR USE ON SLOPED ROOFS •TO SUPPORT 10FT. MAST

Conductors

COPPER CONDUCTORS



CCHB 29-17

Copper Conductor, 29 strands of 17 gauge, 59,500 circular mils, net weight 190 lbs. Per 1000 feet.
(1.150mm, 30mm², 278 g/m) Bare Only.



CCHB 32-17

Copper Conductor, 32 strands of 17 gauge, 65,600 circular mils, net weight 215 lbs. Per 1000 feet.
(1.150mm, 33mm², 320g/m) Bare Only.



CCHB 24-14

Copper Conductor, 24 strands of 14 gauge, 98,600 circular mils, net weight 328 lbs. Per 1,000 feet.
(1.628mm, 50mm², 488 g/m) Bare.

PCHB 24-14

Same as above, except Corrosion Resistant



CCHB 28-14

Copper Conductor, 28 strands of 14 gauge, 115,000 circular mils, net weight 375 lbs. Per 1,000 feet.
(1.628mm, 60mm², 625 g/m).

PCHB 28-14

Same as above, except Corrosion Resistant

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COPPER CONDUCTORS



CCHB 24-16

Copper Conductor, 24 strands of 16 gauge, 61,900 circular mils, net weight 190 lbs. Per 1,000 feet. (1.291mm, 35mm², 278 g/m).

PCHB 24-16

Same as above, except Corrosion Resistant



CCHB 28-16

Copper Conductor, 28 strands of 16 gauge, 72,500 circular mils, net weight 225 lbs. Per 1,000 feet. (1.291mm, 37mm², 335 g/m).

PCHB 28-16

Same as above, except Corrosion Resistant



CCHB 28-13 (2/0)

Copper Conductor, 28 strands of 13 gauge, 131,500 circular mils, net weight 420 lbs. Per 1,000 feet. (1.628mm, 66mm², 625 g/m).

PCHB 28-13 (2/0)

Same as above, except Corrosion Resistant



CCHB-4X

Copper Conductor Soft Drawn, 41,800 circular mils, net weight 127 lbs. Per 1,000 feet. (21mm², 190 g/m).



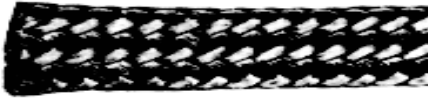
CCHB-6

Copper Conductor, 7 strands of 14 gauge, 28,500 circular mils, net weight 92 lbs. Per 1,000 feet. (1.150mm, 14mm², 137 g/m).

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COPPER CONDUCTORS



CCHB 480-30

Flat Braided Copper Conductor, 480 strands of 30 gauge, 48,250 circular mils, net weight 195 lbs. Per 1,000 feet (24mm², 290 g/m).

PCHB 480-30

Same as above, except Corrosion Resistant



CCHB 1 1/16

Copper Conductor 1" (25mm) wide x 1/16" (1.6mm) approx. in thickness, 59,000 circular mils, net weight 190 lbs. Per 1,000 feet (30mm², 283 g/m).



CCHB-4/0

Concentric Wound construction with 19 strands of 10 gauge copper wires. Weight 660lbs. Per 1000ft. (2.588mm, 980g/m).

PCHB-4/0

Same as above, except Corrosion Resistant

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ALUMINUM CONDUCTORS



ACHB 37-13

Aluminum Conductor 37 strands of 13 gauge, 211,600 circular mils, net weight 200 lbs. Per 1,000 feet (1.828mm, 107mm², 298 g/m).



ACHB 28-14

Aluminum Conductor 28 strands of 14 gauge, 57,000 circular mils, net weight 114 lbs. Per 1,000 feet (1.628mm, 58mm², 170 g/m).



ACHB 24-14

Aluminum Conductor 24 strands of 14 gauge, 98,600 circular mils, net weight 110 lbs. Per 1,000 feet (1.628mm, 50mm², 164 g/m).



ACHB-4

Aluminum Conductor 12 strands of 14 gauge, 57,000 circular mils, net weight 58 lbs. Per 1,000 feet (1.628mm, 29mm², 86 g/m).



ACHB- 1 1/16

1" (25mm) wide x 1/16" (1.6mm) approx. thickness, 59,000 circular mils, net weight 73 lbs. Per 1,000 feet (30mm², 109 g/m).

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Cable Connectors



CRHB-11

Copper Straight Splicer

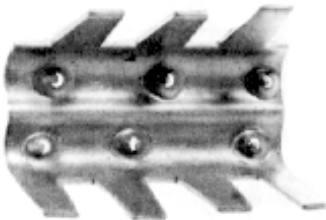
A stamped crimped-type cable splicer. For Standard copper cable.

Size: 1" x 4" (25mm x 100mm)

ARHB-11

Aluminum Straight Splicer

Same as above in Aluminum.



CRHB-12

Copper Twin Cable Splicer

A stamped crimped-type cable splicer. For standard copper cable.

Size: 2½" (65mm) long

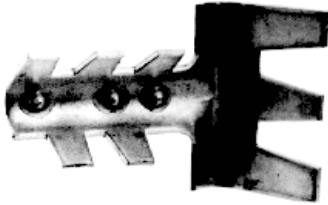
ARHB-12

Aluminum Twin Cable Splicer

Same as above in Aluminum.

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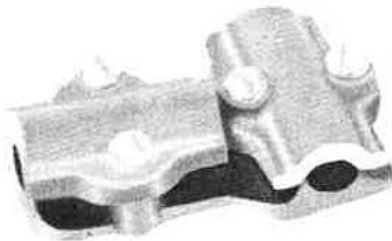
**CRHB-14***Copper Tee Cable Splicer*

A stamped crimped-type cable splicer. For standard copper cable.

Size: 2" x 3" (50mm x 80mm)

ARHB-14*Aluminum Tee Cable Splicer*

Same as above in Aluminum.

**CRHB-14XX***Copper Tee Splicer*

A bolt pressure-type cable splicer for branch splicing. For cables through 2/O.

Size: 2" x 3" (50mm x 80mm)

ARHB-14XX*Aluminum Tee Splicer*

Same as above in Aluminum

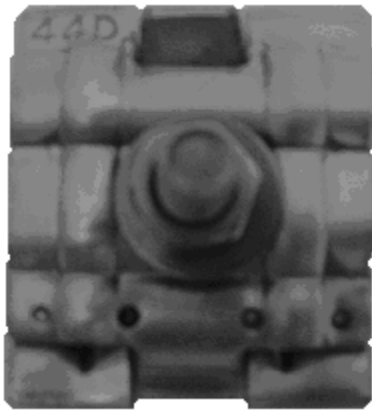
**CRHB-26***Copper Heavy Duty Straight Splicer*

4 screw bronze sleeve type straight splicer.

Size: 3/4" (20mm) O.D. x 5" (125mm) long

ARHB-26*Aluminum Heavy Duty Straight Splicer*

Same as above in Aluminum



CNHB-44D

All Purpose Cable Connector

Copper parallel clamp with 1 (one) bolt pressure-type cable connector. This clamp adjusts to fit all sizes of cable.

Size: 1 $\frac{3}{4}$ " x 2" (45mm x 50mm)

ANHB-44D

All Purpose Cable Connector

Same as above in Aluminum.



CNHB-44

All Purpose Cable Connector

Cast bronze parallel clamp with 1 (one) bolt pressure-type cable connector. This clamp adjusts to fit all sizes of cable.

Size: 1" x 1 $\frac{1}{2}$ " (25mm x 40mm)

ANHB-44

All Purpose Cable Connector

Same as above in Aluminum.



CNHB-52

Copper Large All Fit Around Clamp

A bronze clamp with 1 $\frac{1}{2}$ " (40mm) of contact to connect all cables through 2/O all round metallic bodies through $\frac{5}{8}$ " (16mm) diameter.

Size: 1 $\frac{5}{8}$ " x 1 $\frac{5}{8}$ " (41mm x 41mm)

ANHB-52

Aluminum Large All Fit Around Clamp

Same as above in Aluminum.

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CNHB-57

Copper Cable Connector

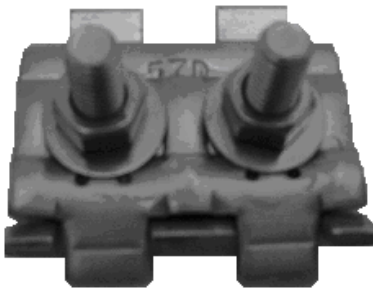
A bronze parallel clamp with 2 stainless steel bolts and nuts. This clamp is adjustable to fit all sizes of cables. Will also fit all sizes of rods.

Size: 1½" x 2" (40mm x 50mm)

ANHB-57

Aluminum Cable Connector

Same as above in Aluminum.



CNHB-57D

Copper Cable Connector

A parallel clamp with 2 stainless steel bolts and nuts. This clamp is adjustable to fit all sizes of cables. Will also fit all sizes of rods.

Size: 1½" x 2" (40mm x 50mm)

ANHB-57D

Aluminum Cable Connector

Same as above in Aluminum.



CNHB-57-4

Copper Cable Connector

A bronze parallel clamp with 4 stainless steel bolts and nuts. This clamp is adjustable to fit all sizes of cables. Will also fit all sizes of rods.

Size: 1½" x 4" (40mm x 100mm)

ANHB-57-4

Aluminum Cable Connector

Same as above in Aluminum.

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CMHB-57X

Copper Crossover Cable Connector

A cross run clamp, cast bronze with 4 (four) stainless steel screws, for all standard cables through 2/O.

AMHB-57X

Aluminum Crossover Cable Connector

Same as above in Aluminum.



CMHB-57XX

Copper One Bolt Flat Cable Connector

A bronze clamp with 1½" (40mm) of contact to connect all cables through 2/O to flat metallic bodies.

Size: 1½" x 2" (40mm x 50mm)

AMHB-57XX

Aluminum One Bolt Flat Cable Connector

Same as above in Aluminum.



CMHB-57XXX

Stamped Copper Crossover Connector

Stamped copper crossover connector with stainless steel bolt and nut.

AMHB-57XXX

Stamped Aluminum Crossover Connector

Same as above in Aluminum.

**MNHB-93***Bimetal Connection*

Stainless steel with four stainless steel screws for joining aluminum and copper conductors.

Size: 1" (25mm) O.D. x 4" (100mm) long

**CMHB-501***Copper Tee Splicer*

Cast bronze cable splicer with bolt pressure-type cable connector. Run and Tap Design.

For conductor sizes thru 2/O.

Size: 3" x 4" (80mm x 100mm)

AMHB-501*Aluminum Tee Splicer*

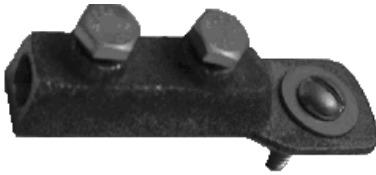
Same as above in Aluminum.

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BONDING CONNECTORS

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CNHB-42

Bus Terminal Connector

Cast bronze bonding lug for connection to various metal bodies and bus bar. 2 (two) stainless steel bolt pressure-type cable connector.

For secondary conductor.

Size: 1" x 3¼" (25mm x 83mm)

ANHB-42

Bus Terminal Connector

Same as above in Aluminum.



CNHB-42X

Copper Strap Type Pipe Clamp

Copper bonding strap with cast cable connector. Fits metal pipes from 3" (80mm) to 4" (100mm) O.D.

Longer straps available upon request.

ANHB-42X

Aluminum Strap Type Pipe Clamp

Same as above in Aluminum.



CNHB-42XD

Copper Strap Type Pipe Clamp

Copper bonding strap with cable connector. Fits metal pipes from 3"

(80mm) to 4" (100mm) O.D.

Longer straps available upon request

ANHB-42XD

Aluminum Strap Type Pipe Clamp

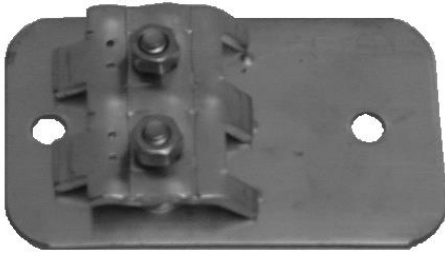
Same as above in Aluminum.

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CPHB-54D

Bonding Plate

A 10 sq. in. (6250mm²) bonding plate with bolt pressure-type cable connector. Used for bonding cables to metallic objects such as ACHU, exhaust fans, ventilators, etc. Includes 2 (two) 1/4" x 3/4" (6mm x 20mm) stainless steel metal screws.
Size: 2 1/2" x 4" (63mm x 100mm)

APHB-54D

Bonding Plate

Same as above in Aluminum.

PPHB-54D

Bonding Plate

Same as above in Corrosion Resistant.



CPHB-54

Bonding Plate

A 8 sq. in. (5161mm²) cast bronze bonding plate with bolt pressure-type cable connector. Used for bonding cable to metallic objects such as ACHU, exhaust fans, ventilators, etc. Includes 2 (two) 1/4" x 3/4" (6mm x 20mm) stainless steel metal screws.
Size: 2 3/4" x 3 1/2" (70mm x 90mm)

APHB-54

Bonding Plate

Same as above in Aluminum.

PPHB-54

Bonding Plate

Same as above in Corrosion Resistant

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CPHB-54X

Stamped Copper Bonding Plate

A 8 sq. in. (5161mm²) stamped, copper bonding plate with crimped-type cable connector.

Size: 3" x 3½" (80mm x 90mm)

APHB-54X

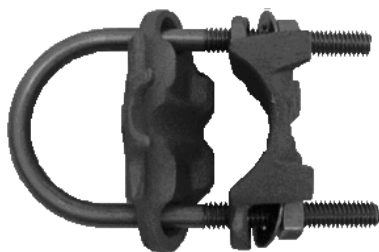
Stamped Aluminum Bonding Plate

Same as above in Aluminum.

PPHB-54X

Stamped Corrosion Resistant Bonding Plate

Same as above in Corrosion Resistant.



CNHB-55

Copper Pipe Connection

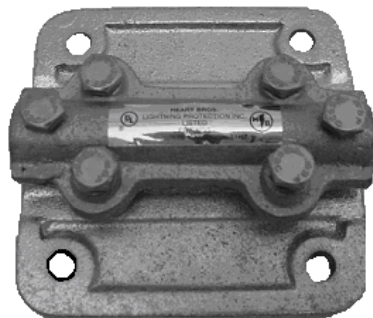
Stainless steel U-bolt with cast cable connector. Fits rods and pipes up to 1½" (30mm) dia.

For larger U-bolt see page 25

ANHB-55

Aluminum Pipe Connection

Same as above in Aluminum



CPHB-56

Heavy Duty Copper Bonding Plate

A heavy duty cast bronze bonding plate for cable through 4/O. Bolt pressure-type cable connector. Includes 4 (four) stainless steel machine screws.

Size: 4" x 4" (100mm x 100mm)

APHB-56

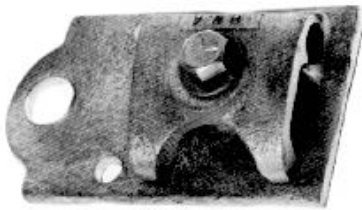
Heavy Duty Aluminum Bonding Plate

Same as above in Aluminum.

PPHB-56

Heavy Duty Corrosion Resistant Bonding Plate

Same as above in Corrosion Resistant.



CPHB-58

Copper Bolt Hole Bonding Plate

8 sq. in. (5161mm²) cast bronze bonding plate or bus terminal, with a 1/2" (13mm) hole. Has bolt pressure-type cable connector with 2" (50mm) of contact.
Size: 2 1/2" x 3 1/2" (65mm x 90mm)

APHB-58

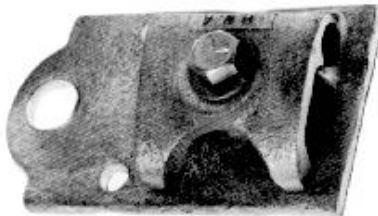
Aluminum Bolt Hole Bonding Plate

Same as above in Aluminum.

PPHB-58

Corrosion Resistant Bolt Hole Bonding Plate

Same as above in Corrosion Resistant



CPHB-58X

Copper Bolt Hole Bonding Plate

Same as above except with a 3/8" (10mm) hole and includes stainless steel hex head bolt, nut and washer.

APHB-58X

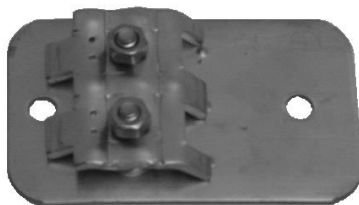
Aluminum Bolt Hole Bonding Plate

Same as above in Aluminum.

PPHB-58X

Corrosion Resistant Bolt Hole Bonding Plate

Same as above in Corrosion Resistant.



CPHB-58D

Copper Bolt Hole Bonding Plate

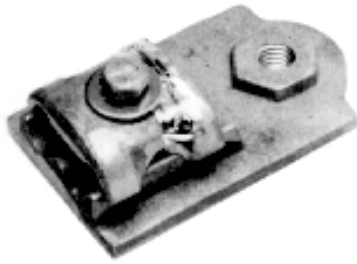
A 10 sq. in. (6250mm²) bonding plate with 1/2" (13mm) hole.. Has bolt pressure type cable connector with 2" (50mm) of contact.
Size: 2 1/2" x 4" (63mm x 100mm)

PPHB-58D

Same as above in Corrosion Resistant.

APHB-58D

Same as above in Aluminum.



CPHB-58XX

Copper Bolt Hole Bonding Plate with Multi Conductors Connectors

8 sq. in. (5161mm²) cast bronze bonding plate with one tapped hole to except ½" (13mm) threaded rod. Has bolt pressure-type parallel cable connector for multi conductor connection.

Size: 2½" x 3½" (65mm x 90mm)

APHB-58XX

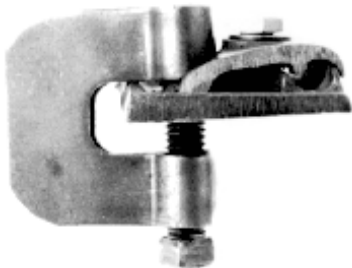
Aluminum Bolt Hole Bonding Plate

Same as above in Aluminum.

PPHB-58XX

Corrosion Resistant Bolt Hole Bonding Plate

Same as above in Corrosion Resistant



PPHB-59

Copper Bonding Plate with Small C-Clamp

8 sq. in. (5161mm²) Corrosion Resistant cast bronze bonding plate with "C" clamp for cables through 2/O. Used for bonding ladders, flat steel bar and various metal objects up to ½" (13mm) thick.

Size: 2⅜" x 3⅜" (60mm x 86mm) [bonding plate]

APHB-59

Aluminum Bonding Plate with Small C-Clamp

Same as above in Aluminum.



PPHB-59D

Copper Bonding Plate with Small C-Clamp

8 sq. in. (5161 mm²) Corrosion Resistant bonding plate with "C" clamp for cables through 2/O. Used for bonding ladders, flat steel bar, and various metal objects up to ½" (13mm) thick.

Size: 2 3/8" x 3 3/8" (60mm x 86mm) [bonding plate]

APHB-59D

Aluminum Bonding Plate with Small C-Clamp

Same as above in Aluminum.

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PPHB-59X

Copper Bonding Plate with C-Clamp

10 sq. in. (6451mm²) Corrosion Resistant cast bronze bonding plate. For bonding to structural steel up to 1½" (40mm) thick.

Cast bolt pressure-type cable connector.

Fits #2 through 2/O conductor.

Size: 2¾" x 3¾" (70mm x 95mm) [bonding plate]

APHB-59X

Aluminum Bonding Plate with C-Clamp

Same as above in Aluminum.



CPHB-59M

Copper Medium Bonding Plate

8 sq. in. (6451mm²) cast bronze bonding plate for cables through 2/O.

Used for bonding metal objects up to 1" (25mm)

Size: 2¾" x 3½" x 2" (70mm x 90mm x 50mm)

APHB-59M

Aluminum Medium Bonding Plate

Same as above in Aluminum.

PPHB-59M

Corrosion Resistant Medium Bonding Plate

Same as above in Corrosion Resistant



CTHB-69X

Copper Flexible Bonding Strap.

Used for bonding metal fence gates, metal doors to metal door frames. Used in any location where flexible joint is required. Longer straps can be furnished on request.

Size: ¾" (20mm) wide x 12" (300mm) long

ATHB-69X

Aluminum Flexible Bonding Strap

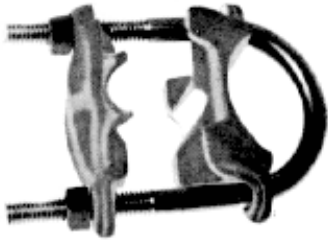
Same as above in Aluminum.

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CNHB-91X

Copper Pipe Connection

Stainless steel U-bolt with castable connector.
Fits rods and pipes up to 1 3/4" (45mm) dia.

ANHB-91X

Aluminum Pipe Connection

Same as above in Aluminum.



CMHB-97

Copper Strap Pipe Clamp

An adjustable 2" (50mm) wide, corrosion resistant copper bonding strap with a bronze cast bolt pressure-type cable connector. Fits iron pipe sizes through 4" (100mm) O.D. Longer straps available upon request.

AMHB-97

Aluminum Strap Pipe Clamp

Same as above in Aluminum.



CMHB-97D

Copper Strap Pipe Clamp

An adjustable 2" (50mm) wide, corrosion resistant copper bonding strap with a copper bolt pressure-type cable connector. Fits iron pipe sizes through 4" (100mm) O.D. Longer straps available upon request.

AMHB-97D

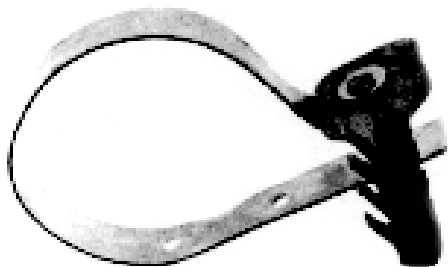
Aluminum Strap Pipe Clamp

Same as above in Aluminum.

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CMHB-97X

Copper Strap Pipe Clamp

An adjustable 1" (25mm) wide, copper bonding strap with crimped-type cable connector. Fits metal pipe sizes through 4" (100mm) O.D.

Longer straps available upon request.

AMHB-97X

Aluminum Strap Pipe Clamp

Same as above in Aluminum.



CMHB-100XD

Copper Strap Pipe Clamp

An adjustable 1" (25mm) wide, copper bonding strap with bolt pressure-type cable connector. Fits metal pipe sizes through 4" (100mm) O.D.

Longer straps available upon request.

AMHB-100XD

Aluminum Strap Pipe Clamp

Same as above in Aluminum.



CMHB-100X

Copper Strap Pipe Clamp

An adjustable 1" (25mm) wide, corrosion resistant copper bonding strap with a cast bolt pressure-type cable connector. Fits iron pipe sizes through 4" (100mm) O.D.

Longer straps available upon request.

AMHB-100X

Aluminum Strap Pipe Clamp

Same as above in Aluminum.

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CMHB-103

Copper Perfection Pipe Clamp

An adjustable bronze clamp for bonding water pipes, handrails, or other pipes. This is a precision clamp designed to tighten to the pipe and cable simultaneously. Cable attaches parallel to the pipe.
Fits pipes from $\frac{3}{4}$ " to $1\frac{1}{2}$ " (20mm x 40mm) O.D.
Size: $1\frac{1}{2}$ " x $1\frac{3}{4}$ " (40mm x 45mm)

PMHB-103

Corrosion Resistant Perfection Pipe Clamp
Same as above in Corrosion Resistant



CMHB-103D

Copper Perfection Pipe Clamp

An adjustable copper clamp for bonding water pipes, handrails, or pipes. Fits pipes from $\frac{3}{4}$ " to $1\frac{1}{2}$ " (20mm x 40mm) O.D.

AMHB-103D

Aluminum Perfection Pipe Clamp
Same as above in Aluminum.

PMHB-103D

Corrosion Resistant Perfection Pipe Clamp
Same as above in Corrosion Resistant.



CNHB-160D

Copper One Bolt Bonding Terminal

Used for bonding drains, door tracks and numerous metal bodies.
Size: 1" x 10" (25mm x 250mm)

ANHB-160D

Aluminum One Bolt Bonding Terminal
Same as above in Aluminum.

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CMHB-103X

Copper Large Perfection Pipe Clamp

An adjustable bronze clamp for bonding to water pipes, handrails, or other pipes. This is a precision clamp designed to tighten to the pipe and cable simultaneously. Cable attaches parallel to the pipe. Fits iron pipe sizes from 1 $\frac{5}{8}$ " to 2 $\frac{1}{2}$ " (41mm x 65mm) O.D.
Size: 2" x 2" (50mm x 50mm)

PMHB-103X

Corrosion Resistant Perfection Pipe Clamp

Same as above in Corrosion Resistant.

AMHB-103X

Aluminum Perfection Pipe Clamp

Same as above in Aluminum.



CMHB-103XD

Copper Large Perfection Pipe Clamp

An adjustable copper clamp for bonding water pipes, handrails, or other pipes. Fits pipes from 1 $\frac{5}{8}$ " to 2 $\frac{1}{2}$ " (41mm x 65mm) O.D.

AMHB-103XD

Aluminum Large Perfection Pipe Clamp

Same as above in Aluminum.

PMHB-103XD

Corrosion Resistant Large Perfection Pipe Clamp

Same as above in Corrosion Resistant.



CNHB-160

Copper One Bolt Stamped Bonding Terminal

Used for bonding roof drains, door tracks, and numerous metal bodies.

Size: 2" x 5½" (50mm x 140mm)

ANHB-160

Aluminum One Bolt Stamped Bonding Terminal

Same as above in Aluminum.



CNHB-160XX

Copper Terminal Lug

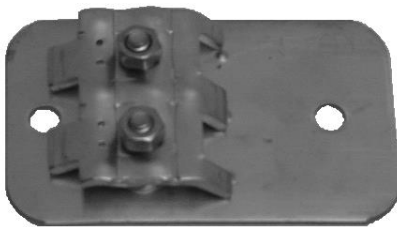
Cast copper bonding connector with 1 stainless steel bolt pressure-type cable connector. For interconnecting numerous metal bodies, such as tracks, roof drains, door frames, etc.

Size: 1⅝" x 3⅜" (41mm x 85mm)

ANHB-160XX

Aluminum Terminal Lug

Same as above in Aluminum.



CPHB-58XD

Copper Bolt Hole Bonding Plate

A 10 sq. in. (6250mm²) bonding plate with ⅜" (10mm) hole.. Has bolt pressure type cable connector with 2" (50mm) of contact.

Size: 2½" x 4" (63mm x 100mm)

PPHB-58XD

Same as above in Corrosion Resistant.

APHB-58XD

Same as above in Aluminum.

THRU-ROOF AND THRU-WALL CONNECTORS

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**CNHB-95***Thru Roof Connector*

Adjustable for roof thickness to 10" (250mm).
Threaded rod is 1/2" (13mm) x 18" (460mm) solid stainless steel with copper bolt pressure-type cable connectors at each end. Includes 2 (two) neoprene washers, 2 (two) stainless steel washers and 2 (two) stainless steel nuts. Longer rods furnished upon request.

ANHB-95*Thru Roof Connector*

Same as above in Aluminum cable connector.

PNHB-95*Thru Roof Connector*

Same as above in Corrosion resistant cable connector.

**CNHB-95D***Thru Roof Connector*

Adjustable for roof thickness to 10" (250mm).
Threaded rod is 1/2" (13mm) x 18" (460mm) solid stainless steel with copper bolt pressure-type cable connectors at each end. Includes 2 (two) neoprene washers, 2 (two) stainless steel washers and 2 (two) stainless steel nuts. Longer rods furnished upon request.

ANHB-95D*Thru Roof Connector*

Same as above in Aluminum cable connector.

PNHB-95D*Thru Roof Connector*

Same as above in Corrosion Resistant cable connector.

**CNHB-94D***Thru-Wall Connector*

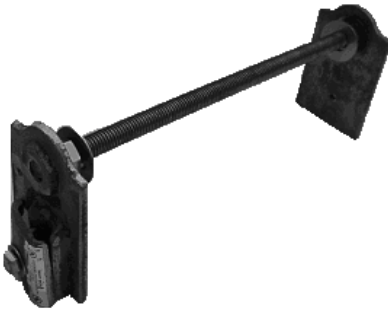
Stainless steel Thru-Wall Connector with 2 (two) copper bolt pressure-type cable connector at each end of 18" (460mm) threaded rod. Includes 4 (four sets of stainless steel nuts and washers for tightening to wall. Recommended for thru-wall connections. State size of conductor when ordering.

ANHB-94D*Thru-Wall Connector*

Same as above in Aluminum.

PNHB-94D*Thru-Wall Connector*

Same as above in Corrosion Resistant.

**CNHB-94***Thru-Wall Connector*

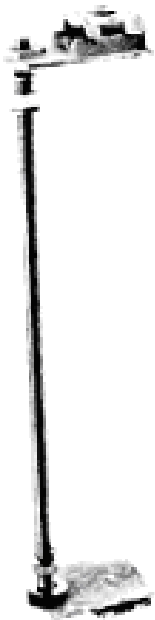
Stainless steel Thru-Wall Connector with 2 (two) cast bronze bolt pressure-type cable connector at each end of 18" (460mm) threaded rod. Includes 4 (four) sets of stainless steel nuts and washers for tightening to wall. Recommended for thru-wall connections. State size of conductor when ordering.

ANHB-94*Thru-Wall Connector*

Same as above in Aluminum cable connector.

PNHB-94*Thru-Wall Connector*

Same as above in Corrosion Resistant cable connector.

**CNHB-119X***Thru Roof-Wall Connector*

Stainless steel Thru-Roof (or Thru-Wall) Connector, with cast bronze bolt pressure-type cable connectors threaded to each end of 18" (460mm) long rod. Used for multi conductors connection at end of threaded rod. Recommended for through roof or through wall connections.

Longer rods available upon request.

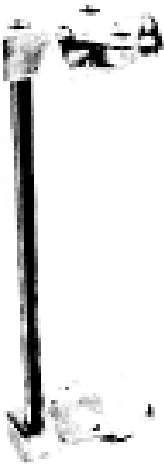
Fits #2 thru 2/O conductor.

ANHB-119X*Thru Roof-Wall Connector*

Same as above in Aluminum cable connector.

PNHB-119X*Thru Roof-Wall Connector*

Same as above in Corrosion Resistant cable connector.

**CNHB-120X***Thru Roof-Wall Connector*

Same as HB-119X except fits larger conductors.

Fits 2/O thru 4/O conductor.

ANHB-120X*Thru Roof-Wall Connector*

Same as above in Aluminum.

PNHB-120X*Thru Roof-Wall Connector*

Same as above in Corrosion Resistant

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SNHB-95XB

Economy Copper to Copper Connection

For top of thru the roof connection.

Size : $\frac{3}{4}$ " x $2\frac{1}{2}$ " (20mm x 65mm)

SNHB-95XA

Economy Aluminum to Aluminum Connection

Same as above in Aluminum.

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FASTENERS AND ACCESSORIES

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**CFHB-64**

Cable Fastener with Metal Screw

A heavy copper loop, 5/8" (16mm) wide, complete with 1/4" (6mm) x 3/4" (20mm) stainless steel metal screw.
Fits cables through 2/O.

AFHB-64

Cable Fastener with Metal Screw
Same as above in Aluminum.

PFHB-64

Same as above in Corrosion Resistant.

**CFHB-64XXD**

Copper Conductor Standing Seam Cable Fastener

This cable fastener is for attaching cable to metal standing seam roofs. Clamp is rigidly attached to standing seam with 1 (one) stainless steel bolt. Clip holds cable in place.
Size: 1 3/4" x 2" (45mm x 50mm)

AFHB-64XXD

Aluminum Standing Seam Cable Fastener
Same as above in Aluminum.

PFHB-64XXD

Corrosion Resistant Standing Seam Cable Fastener
Same as above in Corrosion Resistant.

**SFHB-65**

Stainless Steel Nail

2" (50mm) long nail for use with "one nail clip" #HB-67.

**CFHB-66**

Cable Fastener with Masonry Anchor

A heavy copper loop, 5/8" (16mm) wide, complete with a masonry anchor.

Fits cables through 2/O.

**AFHB-66**

Cable Fastener with Masonry Anchor

Same as above in Aluminum.

PFHB-66

Cable Fastener with Masonry Anchor

Same as above in Corrosion Resistant.

**CFHB-67**

Copper One Nail Clip

A heavy copper loop, 3/8" (10mm) wide.

Fits cables through 2/O.

AFHB-67

Aluminum One Nail Clip

Same as above in Aluminum.

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**CFHB-70**

Heavy Duty Bronze Cable Support

2 (two) stainless steel screw cable support with $\frac{3}{8}$ " (10mm) masonry anchor. Fits cables through 2/O.

AFHB-70

Heavy Duty Aluminum Cable Support

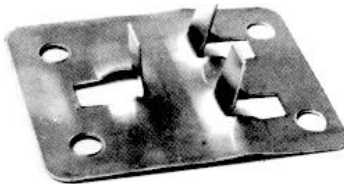
Same as above in Aluminum.

CFHB-71

Heavy Duty Bronze Cable Support

2 (two) stainless steel screw cable support with $\frac{1}{2}$ " (13mm) masonry anchor.

Fits cable through 4/O.

**CFHB-72**

Copper Adhesive Cable Fastener

This is a stamped copper no nail cable fastener for flat roofs. The attachment is permanently held in place with adhesive compound. Recommend for built-up or membrane roofs.

Size: $2\frac{1}{2}$ " x $3\frac{1}{4}$ " (65mm x 83mm)

AFHB-72

Aluminum Adhesive Cable Fastener

Same as above in Aluminum.

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CFHB-72X

Copper Pan Type Cable Support

Copper pan type cable support is used in flat roof areas where there is a non-affixing surface. The pan base can be filled with cement or asphalt at the jobsite (not included).

Size: 1" x 7½" (25mm x 193mm)

AFHB-72X

Aluminum Pan Type Cable Support

Same as above in Aluminum.



CFHB-73

Cast Clip-Type Masonry Attachment

A cast bronze clip complete with masonry anchor.

Fits cables through 2/O.

Stainless steel machine screw or metal screw available upon request.

AFHB-73

Cast Clip-Type Masonry Attachment

Same as above in Aluminum.



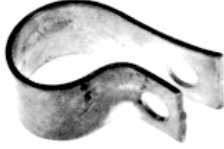
SFHB-78X

Masonry Anchor

Drive-in with stainless steel drive pin.

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CFHB-108

Copper Bolt Hole Loop Guard Fastener

A heavy copper loop, $\frac{5}{8}$ " (16mm) wide with a $\frac{1}{4}$ " (6mm) bolt hole for fastening all ground guards.



GFHB-113

Guard Pipe Holder

A galvanized clip with masonry anchor and bolt for fastening PVC ground guard
#HB-108PVC



CFHB-117

Cast Bronze Adhesive Cable Fastener

Cast adhesive cable fastener with stainless steel screw and cast cable clamp.
Size: $2\frac{3}{4}$ " (70mm) dia.

AFHB-117

Cast Aluminum Adhesive Cable Fastener

Same as above in Aluminum.



CFHB-201

Cable Fastener (with Stainless Steel Bolt)

Fastens conductor to rod, while simultaneously supporting the conductor.

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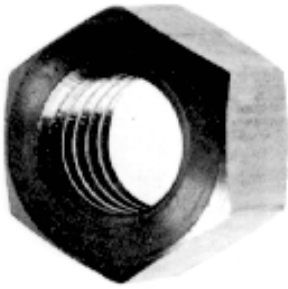
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ACCESSORIES

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**SFHB-74**

Stainless Steel Nut

1/4" (6mm).

5/16" (8mm) and 1/2" (13mm) available upon request.

**SFHB-80**

Stainless Steel Machine Screw

Round Head

1/4" (6mm) x 3/4" (20mm)

Longer screws available up to 2" (50mm) upon request.

**SFHB-80SS**

Stainless Steel Metal Screw

Slotted Hex Washer head

1/4" (6mm) x 3/4" (20mm) long

Longer Screws available upon request.

**SFHB-80ST**

Stainless Steel Self-Tapping Screw

Slotted Hex Washer Head

1/4" (6mm) x 3/4" (20mm) long

Longer Screws available up to 2" (50mm) upon request.

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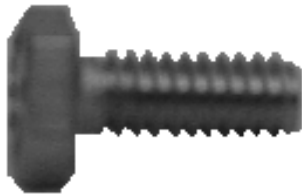
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SFHB-81 ST

Stainless Steel Self Tapping Screw

Fine Thread, Slotted Hex Washer Head $\frac{1}{4}$ " (6mm) x $1\frac{1}{4}$ " (32mm) long Longer Screws available upon request.



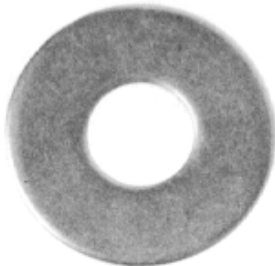
SFHB-81

Stainless Steel Bolt

Hex Head

$\frac{1}{4}$ " (6mm) x $\frac{3}{4}$ " (20mm)

Longer Bolts available up to 2" (50mm) upon request.



SFHB-84

Stainless Steel Washer

$\frac{5}{16}$ " (8mm) dia. hole

Larger sizes available upon request.

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GROUNDING

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GROUND RODS



CGHB-106GR8	<i>Copper Bond $\frac{5}{8}$" x 8'-0" (16mm x 2400mm)</i>
CGHB-106GR	<i>Copper Bond $\frac{5}{8}$" x 10'-0" (16mm x 3000mm)</i>
CGHB-107GR8	<i>Copper Bond $\frac{3}{4}$" x 8'-0" (20mm x 2400mm)</i>
CGHB-107GR	<i>Copper bond $\frac{3}{4}$" x 10'-0" (20mm x 3000mm)</i>

Sectional Ground Rods



For when additional length ground rods are required.
Each sectional rod is 10 ft. (3000mm) long, threaded at each end and includes a ground rod coupler.

CGHB-106XGR	<i>$\frac{5}{8}$" (16mm) Copper Bond section rod with coupler.</i>
CGHB-107XGR	<i>$\frac{3}{4}$" (20mm) Copper Bond section rod with coupler.</i>



CGHB-108XGR	<i>Copper Ground Guard. $\frac{3}{4}$" x 8'-0" (20mm x 2400mm)</i> Copper Pipe complete with 3 (three) guard fasteners # CGHB-108C.
CGHB-108PVC	<i>PVC Ground Guard. $\frac{3}{4}$" x 8'-0" (20mm x 2400mm)</i> PVC pipe complete with 3 (three) guard fasteners # CGHB-108C.



CGHB-57DGR

Ground Rod Clamp

A parallel clamp with 2 stainless steel bolts and nuts. This clamp is adjustable to fit all sizes of cables. Will also fit ground rods up to 1" (25mm) dia..

Size: 1½" x 2" (40mm x 50mm)

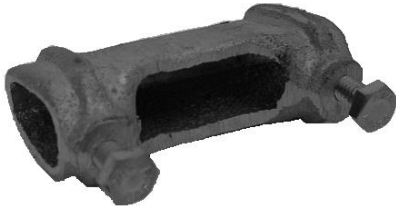


CGHB-111

Ground Rod Clamp

Bronze cast with two stainless steel bolts, fits ½" (13mm) and ⅝" (16mm) dia. ground rods.

Size: 2" x 2" (50mm x 50mm)



CGHB-112

Ground Rod Clamp

Bronze cast with two stainless steel bolts, fits ¾" (20mm) dia. ground rod.

Size: 1⅞" x 3½" (48mm x 90mm)



CGHB-158

Ground Plate

18" x 18" x 20 gauge
(460mm x 460mm), pure copper

CGHB-158X

Ground Plate

24" x 24" x 20 gauge
(600mm x 600mm), pure copper

CGHB-159

Ground Plate

36" x 36" x 20 gauge
(900mm x 900mm), pure copper

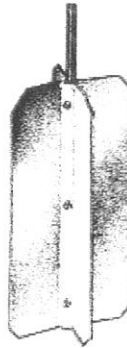
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11291 Moore Road, Springville, New York 14141 USA tel: 716-841-6141 toll free: 800-421-6141 fax: 716-841-3828

E-MAIL: sales@hearybros.com **INTERNET SITE:** <http://www.hearybros.com>

GROUNDING



HB-190 Cylinder
Type Reservoir Ground.
Cylinder is 4" (100mm)
diameter, 24" (600mm)
long.

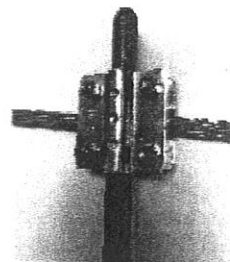


HB-203 4-Wing Grounding
Plate
3 1/2" x 18" x 20 gauge
(90mm x 480mm).

CGHB-57B By-Pass Ground Rod Connector

Copper connector with 4 (four) stainless steel bolts. For connecting down cable and perimeter counterpoise cable to ground rod. Fits ground rods through 3/4" (20mm) dia. and cable through 4/0.

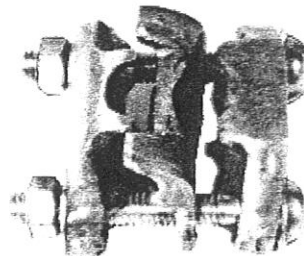
Size: 2 1/2" x 2 1/2" (62.5mm x 62.5mm)



HB-206 Heavy Duty By-Pass Ground Rod Connector

Cast bronze connector with 2 (two) stainless steel bolts. For connecting down cable and perimeter counterpoise cable to ground rod. Fits ground rods through 3/4" (20mm) dia. and cables through 4/0.

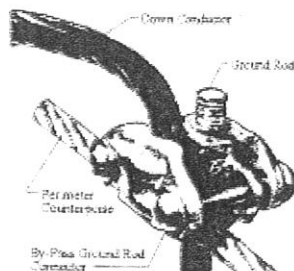
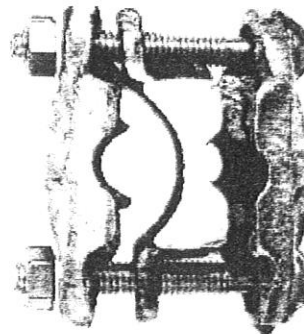
Size: 1 3/4" x 2 1/4" (44mm x 60mm)



HB-207 Heavy Duty Large By-Pass Ground Rod Connector

Cast bronze connector with 2 (two) stainless steel bolts. For connecting down cable and perimeter counterpoise cable to ground rod. Fits ground rods through 1" (25mm) dia. cables from 4/0 to 500 MCM.

Size: 2" x 2 3/4" (50mm x 70mm)



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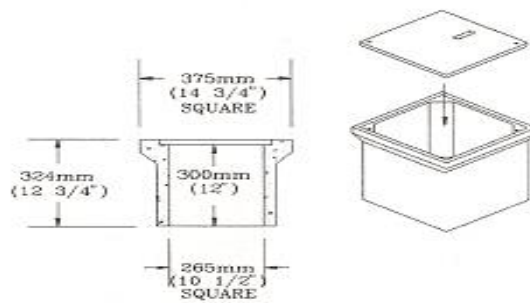
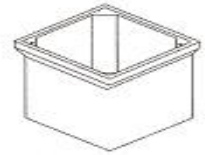
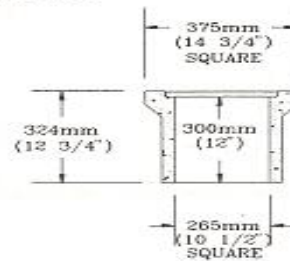
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GROUNDING

HB-TWC1212 Test Well (without cover)
Lightweight, high strength, polymer reinforced test well.

Approx. size: 12"x12"x12" (300 x 300x 300) 



HB-TWC1212CC Test Well (with cover)
Lightweight, high strength, polymer reinforced test well with cover.
Approx. size: 12"x12"x12" (300 x 300 x 300)

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GROUNDING

Electrical Grounding Wires

Concentric Copper Cable

HB-1/0C	105,600CM	320 lbs. per 1000 ft. (52mm ² , 475g/m)
HB- 2/0C	133,100CM	420 lbs. per 1000 ft. (67mm ² , 625g/m)
HB-3/0C	167,800CM	520 lbs. per 1000 ft. (85mm ² , 775g/m)
HB-4/0C	211,600CM	660 lbs. per 1000 ft. (107mm ² , 980g/m)
HB-250MCM	250,000CM	750 lbs. per 1000 ft. (127mm ² , 1115g/m)
HB-500MCM	500,000CM	1544 lbs. per 1000 ft. (253mm ² , 2300g/m)



SEE CONDUCTOR SECTION FOR ADDITIONAL CONDUCTORS AVAILABLE

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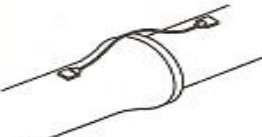







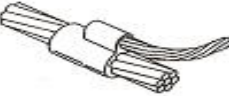





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EXOTHERMIC WELDS

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CADWELD®
Exothermic Connections
 COPPER TO COPPER
 COPPER TO STEEL
 COPPER TO REINFORCING BARS

			
HB-GR	HB-GT	HB-GY	HB-HX
			
HB-VF	HB-VS	HB-HB	HB-HA
			
HB-TA	HB-SS	HB-XA	HB-LA
			
HB-GB	HB-RJ	HB-PC	HB-PT
			
HB-RY	HB-RX	HB-VV	HB-RR

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