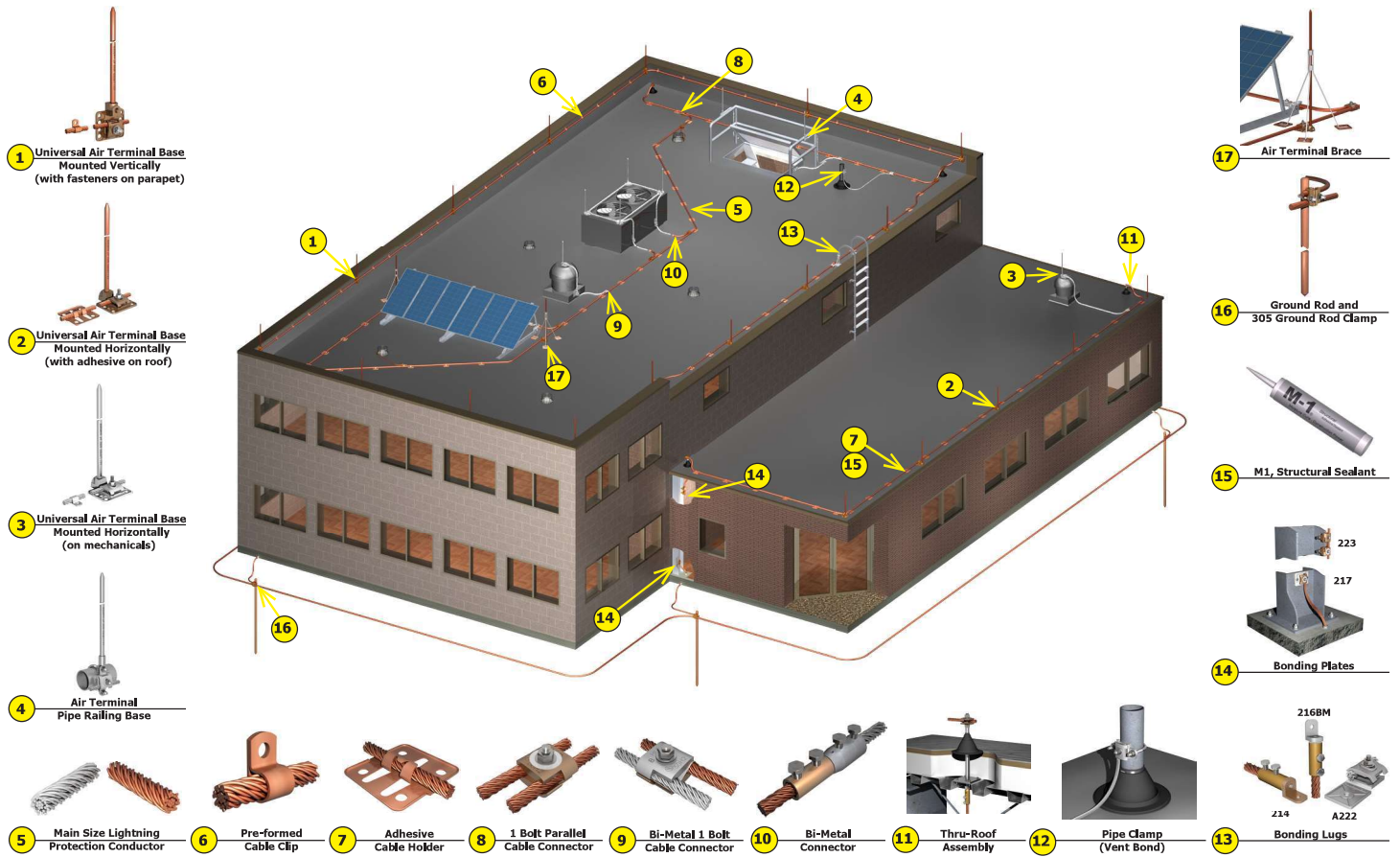


Typical Roof Lightning Protection Layout



Lightning Protection Equipment

1 thru 4 - Copper Air Terminals

Part No.	Diameter	Length	Class
3812CUAT	3/8"	12"	I
3824CUAT	3/8"	24"	I
1212CUAT	1/2"	12"	II
1224CUAT	1/2"	24"	II
5812CUAT	5/8"	12"	II
5824CUAT	5/8"	24"	II

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1 thru 4 - Aluminum Air Terminals

Part No.	Diameter	Length	Class
1212ALAT	1/2"	12"	I
1224ALAT	1/2"	24"	I
5812ALAT	5/8"	12"	II
5824ALAT	5/8"	24"	II

- For nickel or tin plated air terminals add suffix N for nickel and suffix T for tin.

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1 thru 3 - Air Terminal Bases

Part No.	Material	Internally Threaded Hub Diameter
CUBU38I	Copper	3/8"
CUBU12I	Copper	1/2"
CUBU58I	Copper	5/8"
AUBU12I	Aluminum	1/2"
AUBU58I	Aluminum	5/8"

- Add prefix T for electro-tin plated copper base.
- Accepts #14 bonding conductor up thru Class II main lightning conductor.

4 - Pipe Railing Bases

Part No.	Material	Air Terminal Diameter
CPRB1.5/2AT38*	ETPB**	3/8"
CPRB1.5/2AT12*	ETPB**	1/2"
CPRB1.5/2AT58*	ETPB**	5/8"
APRB1.5/2AT12*	Aluminum	1/2"
APRB1.5/2AT58*	Aluminum	5/8"

* Nominal pipe size range 1.25" - 2"

**Electro Tin Plated Bronze

- Fits all main size conductors up to 9/16" diameter.
- Other sizes available. Please contact factory.

5 - Class I - Copper Conductors

Part No.	No. of Strands	Strand Size	Reel/Coil Size
29-50COIL	29	16 AWG	50'
29-100	29	16 AWG	100'
29-250	29	16 AWG	250'

- Approximate diameter 3/8" and 72,500 x-sectional area.
- Electro Tin Plated conductors also available.

5 - Class II - Copper Conductors

Part No.	No. of Strands	Strand Size	Reel/Coil Size
28-50COIL	28	14 AWG	50'
28-100	28	14 AWG	100'
28-250	28	14 AWG	250'

- Approximate diameter is 1/2" and 115,000 x-sectional area.
- Electro Tin Plated conductor also available.

Lightning Protection Equipment



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A37R (rope lay)

5 - Class I - Aluminum Conductors

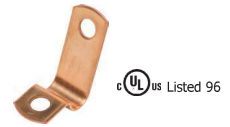
Part No.	No. of Strands	Strand Size	Reel/Coil Size
A24-50COIL	24	14 AWG	50'
A24-100	24	14 AWG	100'
A24-250	24	14 AWG	250'

- Approximate diameter is 7/16" and 98,600 x-sectional area.

5 - Class II - Aluminum Conductors

Part No.	No. of Strands	Strand Size	Reel/Coil Size
A37R-50COIL	37	13 AWG	50'
A37R-100	37	13 AWG	100'
A37R-250	37	13 AWG	250'

- Approximate diameter is 19/32" and 98,600 x-sectional area.



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6 - Cable Clips

Part No.	Material	Fits Lightning Conductors	Fits Grounding Conductors
ACC2	Aluminum	A28 & A24	N/A
ACC4	Aluminum	A37R	N/A
CCC1	Copper	#14	2 Str., 4 Str., 2 Sol.
CCC2	Copper	29 & 32	1/0 Str. & 2/0 Str.
CCC3	Copper	28 & 24	4/0

- Electro Tin Plated clips also available.

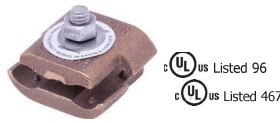


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7 - Cable Holders

Part No.	Material
262	Copper
A262	Aluminum

- For use with all cables thru 4/0 or up to 9/16" diameter.
- Electro Tin Plated copper holders also available.



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8 - 1 Bolt Parallel Connectors

Part No.	Material	Class
B1BC	Copper	II
A1BC	Aluminum	II
TB1BC	ETPB*	II

- * Electro Tin Plated Bronze
- Accepts all main size conductors up to 5/8" diameter.



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9 - Bi-Metal 1 Bolt Parallel Connector

Part No.	Material	Class
BM1BC	Bi-Metal	II

- 2" x 1-1/2" bi-metal connector allows splicing of aluminum conductors to copper conductors.



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10 - Bi-Metal Connector

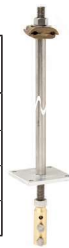
Part No.	Material	Class
211R	Bi-Metal	II

- Brass side accepts all main size conductors up to 17/32" diameter.
- Aluminum side accepts all main size conductors up to 19/32" diameter.

11 - Thru-Roof Assemblies

Part No.	Description	Riser Length
SSTRCC15812	Vertical, Stainless Steel	12"
SSTRCC15824		24"
SSTRACBM15812	Vertical, Stainless Steel, Bi-Metal	12"
SSTRACBM15824		24"

- Other sizes available. Please contact factory.



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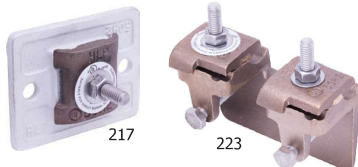
214 216BM A222
UL US Listed 96

13 - Bonding Lugs

Part No.	Material
214	Copper
A214	Aluminum
216BM	Bi-Metal
222	Copper
A222	Aluminum

- * Electro Tin Plated Bronze

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217

223

14 - Bonding Plate

Part No.	Material	Class
217	ETPB*	II
223	Copper	II

- * Electro Tin Plated Bronze
- Accepts all main size conductors up to 9/16" diameter.
- 8 square inches of bonding surface.



15 - M-1 Structural Sealant

Part No.	Color
M1-10OZ-B	Black
M1-10OZ-G	Gray
M1-10OZ-L	Limestone
M1-10OZ-W	White

- 10.1 fluid oz. cartridge.
- Application coverage (per tube) is approximately 40 cable holders or 40 bases.
- For use on metal, masonry and wood. Not for use on TPO or hypolon roofs.
- Install on clean surfaces in temperatures not below 30°F.



15 - DuraSill

Part No.	Color	Box Qty.	Approx Box Wt. (lbs.)
DURASIL	Translucent	24	24

- 10.1 fluid oz. cartridge
- Bonds to Kynar 500® and Tedlar® PVF coated surfaces
- Contains no volatile organic solvents. (No VOC's)
- Service temperature: -80 °F to 400°F

Copper Clad Steel Ground Rods

NEC 2014 Article 250.53(G) (Summarized)

The electrode shall be installed so that 8' of length is in contact with the soil. It shall be driven to a depth of not less than 8' except where rock bottom is encountered. In the case of bedrock, the electrode shall be driven at an angle not to exceed 45 degrees from the vertical or shall be buried in a trench that is at least 2-1/2' deep.



UL[®] US Listed 467

Part No.	Size	Approx. Each Wt. (lbs.)	Standard Bundle	Approx. Wt. lbs./Bundle	UL Mark	With UPC Label
1208UPC	1/2" x 8'	6	5	30	Yes	Yes
1210	1/2" x 10'	7	5	35	Yes	No
588	5/8" x 8'	7	5	35	Yes	No
588RUS	5/8" x 8'	7	5	35	Yes	No
588UPC	5/8" x 8'	7	5	35	Yes	Yes
5810	5/8" x 10'	9	5	45	Yes	No
5810UPC	5/8" x 10'	9	5	45	Yes	Yes
348	3/4" x 8'	11	5	55	Yes	No
3410	3/4" x 10'	13	5	65	Yes	No
3412	3/4" x 12'	15	5	75	Yes	No
110	1" x 10'	23	3	69	Yes	No

Sectional Copper Clad Steel Ground Rods

APPLICATION NOTES:

- Sectional ground rods are used to help reduce ground resistance in poor soils such as sand and gravel.
- Doubling ground rod length theoretically reduces resistance 40%.



UL[®] US Listed 467

Part No.	Size	Approx. Each Wt. (lbs.)	Standard Bundle	Approx. Wt. lbs./Bundle	UL Mark
S582	5/8" x 2'	2	5	10	No
S583	5/8" x 3'	3	5	15	No
S585	5/8" x 5'	5	5	25	No
S588	5/8" x 8'	7	5	35	Yes
S5810	5/8" x 10'	9	5	45	Yes
S348	3/4" x 8'	11	5	55	Yes
S3410	3/4" x 10'	13	5	65	Yes
S110	1" x 10'	23	3	69	Yes

Universal Ground Rod Clamp - Light Duty

- Light duty ground rod clamp for securing cable to ground rod.
- Eliminates the need to inventory assorted different size clamps.
- Manufactured from corrosion resistant silicon bronze.
- UL and CSA listed for Direct Burial.



UL[®] US Listed 467

Part No.	Ground Rod Size	Conductor Range (AWG)	Box Qty.	Approx. Box Wt. (lbs.)
302UGRC	1/2"	1/0 - 10 Sol.	10	2
	5/8"	1/0 - 10 Sol.		
	3/4"	1/0 - 8 Sol.		

CPC Pipe Clamps

- Wide conductor range; #6 Solid through 250 MCM.
- * Electro Tin Plated Bronze includes stainless steel hardware.
- CPC series only Dual UL Listing (UL96 and UL467).
- CPC series only suitable for direct burial in earth & concrete.

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Part No.	Material	Nom. Pipe Size Range	Pipe Outside Diameter
CPC.5/.75	Tinned Bronze	.5" - .75"	.375" - 1"
CPC1/1.25	Tinned Bronze	1" - 1.25"	.75" - 1.7"
CPC1.5/2	Tinned Bronze	1.5" - 2"	1" - 2.4"
CPC2.5/3	Tinned Bronze	2.5" - 3"	2.25" - 3.5"
CPC3.5/4	Tinned Bronze	3.5" - 4"	3.2" - 4.5"
CPC5/6	Tinned Bronze	5" - 6"	4.75" - 6.63"

Universal Pipe Clamp

- Provides bi-directional grounding capabilities making it the perfect connection for grounding large diameter pipes.
- Clamps include mechanical connector to connect ground conductors #6 AWG thru 250 MCM.
- Manufactured from electro tinned copper; includes stainless steel hardware.
- Lug ends are 1/4" x 1" and have holes that are 7/16" diameter 1" on center spacing.
- For conductors larger than 250 MCM exothermically weld to the clamp.
- Suitable for direct burial in earth & concrete.

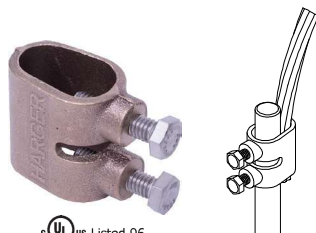


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Part No.	Material	Nominal Pipe Size	Torque Rating (in./lb.)	Box Qty.	Approx. Box Wt. (lbs.)
UPC8C	Tinned Copper	8"	210	5	14
UPC10C	Tinned Copper	10"	210	5	15-1/4
UPC12C	Tinned Copper	12"	210	5	17-3/4

Universal Ground Rod Clamp - Heavy Duty

- Heavy duty bronze ground rod clamps.
- Provides over 1-1/2 inches of contact area with cables and ground rod.
- Two stainless steel cap screws secure the cable to the ground electrode for a positive electrical connection.



UL US Listed 96

Part No.	Ground Rod Size	Conductor Range (AWG)	Box Qty.	Approx. Box Wt. (lbs.)
302U	1/2"	#6 Sol. - 350 MCM	5	5
	5/8"	#6 Sol. - 350 MCM		
	3/4"	#2 Sol. - 250 MCM		

Ground Rod Couplers

- Corrosion resistant silicon bronze threaded ground rod coupler for sectional ground rods.
- Stainless steel couplers are not UL Listed.



UL US Listed 467

Part No.	Ground Rod Size	Material	Box Qty.	Approx. Box Wt. (lbs.)
GRC12	1/2"	Bronze	5	2-1/2
GRC12SS	1/2"	Stainless Steel	5	2-1/2
GRC58	5/8"	Bronze	5	2-1/2
GRC58SS	5/8"	Stainless Steel	5	2-1/2
GRC34	3/4"	Bronze	5	2-1/2
GRC34SS	3/4"	Stainless Steel	5	2-1/2
GRC1	1"	Bronze	5	5
GRC1SS	1"	Stainless Steel	5	5

- Corrosion resistant bronze ground rod compression coupler for use on non-sectional copper clad ground rods.



UL US Listed 467

Part No.	Ground Rod Size	Box Qty.	Approx. Box Wt. (lbs.)
GRCC58	5/8"	5	2-1/2
GRCC34	3/4"	5	2-1/2

Drive Studs

- High strength alloy driving stud prevents damage to the coupler or ground rod threads when driving ground rods.



Part No.	Ground Rod Size	Box Qty.	Approx. Box Wt. (lbs.)
GDS12	1/2"	5	2-1/2
GDS58	5/8"	5	2-1/2
GDS34	3/4"	5	2-1/2
GDS1	1"	3	3

Ultrafill - Earth (Ground) Enhancement Material

Ultrafill is a low resistance carbon based backfill material, which dramatically lowers ground system resistance in difficult soil situations. Ultrafill contains no bentonite or concrete components, which, in very dry conditions, can cause shrinkage around the ground electrode, thus rendering it ineffective.



Part No.	Approx. Wt.
ULTRAFILL25	25 lbs.
ULTRAFILL	50 lbs.

Pounds of Ultrafill Required Per Foot		
Hole Size	5/8" Ground Rod	2" EGR
4"	3.5	2.7
6"	8.1	7.3
8"	14.5	13.6
10"	22.6	21.8
12"	32.6	31.8

For example, placing a 5/8" x 10' ground rod in a 4" hole would require 35 pounds of Ultrafill. (3.5 x 10 = 35 pounds)

Pounds of Ultrafill Required Per Foot				
Trench Width	Thickness of Ultrafill (Inches)			
	1"	2"	3"	4"
4"	1.2	2.3	3.5	4.6
6"	1.7	3.5	5.2	6.9
8"	2.3	4.6	6.9	9.3
10"	2.5	5.8	8.7	11.6
12"	3.5	6.9	10.4	13.9

For example, using 2" of material in a 6" wide by 10' long trench would require 35 pounds of Ultrafill. (3.5 x 10 = 35 pounds)

Concentric Lay Soft-Drawn Bare Copper



7 Strand Concentric



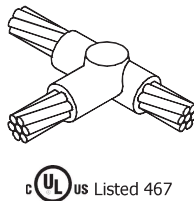
19 Strand Concentric

Part No.	Electro Tin Plated	Size (AWG)	No. of Strands	CM Area	Approx. Wt. lbs./M ft.
8-7	No	8	7	16,510	51
87T	Yes	8	7	16,510	51
6-7	No	6	7	26,240	81
67T	Yes	6	7	26,240	81
4-7	No	4	7	41,740	127
47T	Yes	4	7	41,740	127
2-7	No	2	7	66,360	204
27T	Yes	2	7	66,360	204
1/0-19	No	1/0	19	105,600	325
1/019T	Yes	1/0	19	105,600	325
2/0-7	No	2/0	7	133,100	410

Part No.	Electro Tin Plated	Size (AWG)	No. of Strands	CM Area	Approx. Wt. lbs./M ft.
2/07T	Yes	2/0	7	133,100	410
2/0-19	No	2/0	19	133,100	410
2/019T	Yes	2/0	19	133,100	410
3/0-19	No	3/0	19	167,800	518
3/019T	Yes	3/0	19	167,800	518
4/0-7	No	4/0	7	211,600	653
4/07T	Yes	4/0	7	211,600	653
4/0-19	No	4/0	19	211,600	653
4/019T	Yes	4/0	19	211,600	653
250MCM-19	No	250	19	250,000	772
250MCMT	Yes	250	19	250,000	772

Cable to Cable Connections - RT Connection Type

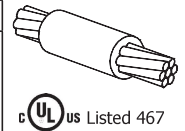
Cable Size		Mold Part No.	Weld Metal	
Run	Tap		UltraShot	NUWTUBE
#2	#2	RT-22B	US45	NUWTUBE45
#2 Sol	#2 Sol	RT-2S2SB	US45	NUWTUBE45
1/0	#2	RT-1/02B	US45	NUWTUBE45
	1/0	RT-1/01/0B	US90	NUWTUBE90
2/0	#2	RT-2/02B	US45	NUWTUBE45
	1/0	RT-2/01/0B	US90	NUWTUBE90
	2/0	RT-2/02/0B	US90	NUWTUBE90
3/0	#2	RT-3/02B	US45	NUWTUBE45
	1/0	RT-3/01/0B	US90	NUWTUBE90
	2/0	RT-3/02/0B	US90	NUWTUBE90
	3/0	RT-3/03/0B	US115	NUWTUBE115
4/0	#2	RT-4/02B	US90	NUWTUBE90
	1/0	RT-4/01/0B	US90	NUWTUBE90
	2/0	RT-4/02/0B	US90	NUWTUBE90
	3/0	RT-4/03/0B	US115	NUWTUBE115
	4/0	RT-4/04/0B	US150	NUWTUBE150



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Cable to Cable Connections - BS Connection Type

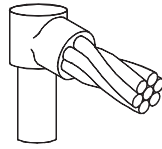
Cable Size	Mold Part No.	Weld Metal	
		UltraShot	NUWTUBE
#6 Sol	BS-6SL	US25	NUWTUBE25
#4	BS-4L	US25	NUWTUBE25
#2	BS-2L	US32	NUWTUBE32
1/0	BS-1/0B	US45	NUWTUBE45
2/0	BS-2/0B	US65	NUWTUBE65
3/0	BS-3/0B	US90	NUWTUBE90
4/0	BS-4/0B	US90	NUWTUBE90
250 MCM	BS-25CMB	US115	NUWTUBE115



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Cable to Ground Rod Connections - GD Connection Type

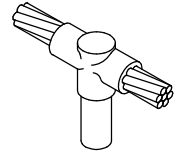
Ground Rod Size	Cable Size	Mold Part No.	Weld Metal	
			UltraShot	NUWTUBE
5/8"	#2 Sol	GD-582SB	US65	NUWTUBE65
	#2	GD-582B	US65	NUWTUBE65
	1/0	GD-581/0B	US90	NUWTUBE90
	2/0	GD-582/0B	US90	NUWTUBE90
	3/0	GD-583/0B	US90	NUWTUBE90
4/0	GD-584/0B	US90	NUWTUBE90	
3/4"	#2 Sol	GD-342SB	US90	NUWTUBE90
	#2	GD-342B	US90	NUWTUBE90
	1/0	GD-341/0B	US90	NUWTUBE90
	2/0	GD-342/0B	US90	NUWTUBE90
	3/0	GD-343/0B	US90	NUWTUBE90
	4/0	GD-344/0B	US90	NUWTUBE90



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Cable to Ground Rod Connections - GO Connection Type

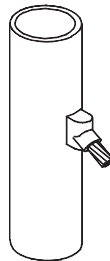
Ground Rod Size	Cable Size	Mold Part No.	Weld Metal	
			UltraShot	NUWTUBE
5/8"	#2 Sol	GO-582SB	US90	NUWTUBE90
	#2	GO-582B	US90	NUWTUBE90
	1/0	GO-581/0B	US90	NUWTUBE90
	2/0	GO-582/0B	US115	NUWTUBE115
	3/0	GO-583/0B	US115	NUWTUBE115
4/0	GO-584/0B	US115	NUWTUBE115	
3/4"	#2 Sol	GO-342SB	US90	NUWTUBE90
	#2	GO-342B	US90	NUWTUBE90
	1/0	GO-341/0B	US115	NUWTUBE115
	2/0	GO-342/0B	US115	NUWTUBE115
	3/0	GO-343/0B	US115	NUWTUBE115
	4/0	GO-344/0B	US115	NUWTUBE115



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Cable to Steel Surface/Pipe Connections - VA (Pipe) Connection Type (Range Taking)

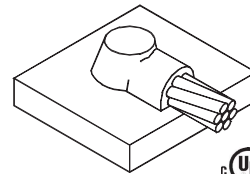
Cable Size	Nominal Pipe Size	Mold Part No.	Weld Metal	
			UltraShot	NUWTUBE
#2 Sol	1/2" to 1" Pipe	VA-2SV.5X1B	US45	NUWTUBE45
	1-1/2" to 4" Pipe	VA-2SV1.5X4B	US45	NUWTUBE45
	4" to 6" Pipe	VA-2SV4X6B	US45	NUWTUBE45
	6" to 10" Pipe	VA-2SV6X10B	US45	NUWTUBE45
#2	1-1/2" to 4" Pipe	VA-2V1.5X4B	US45	NUWTUBE45
	4" to 6" Pipe	VA-2V4X6B	US45	NUWTUBE45
	6" to 10" Pipe	VA-2V6X10B	US45	NUWTUBE45
1/0	2" to 4" Pipe	VA-1/0V2X4B	US90	NUWTUBE90
	4" to 6" Pipe	VA-1/0V4X6B	US90	NUWTUBE90
	6" to 10" Pipe	VA-1/0V6X10B	US90	NUWTUBE90
2/0	2" to 4" Pipe	VA-2/0V2X4B	US90	NUWTUBE90
	4" to 6" Pipe	VA-2/0V4X6B	US90	NUWTUBE90
	6" to 10" Pipe	VA-2/0V6X10B	US90	NUWTUBE90
4/0	2" to 4" Pipe	VA-4/0V2X4B	US115	NUWTUBE115
	4" to 6" Pipe	VA-4/0V4X6B	US115	NUWTUBE115
	6" to 10" Pipe	VA-4/0V6X10B	US115	NUWTUBE115



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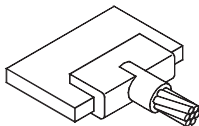
Cable to Steel Surface/Pipe Connections - HD Connection Type

Cable Size	Mold Part No.	Weld Metal	
		UltraShot	NUWTUBE
#2 Sol	HD-2SA	US45	NUWTUBE45
#2	HD-2A	US45	NUWTUBE45
1/0	HD-1/0B	US90	NUWTUBE90
2/0	HD-2/0B	US90	NUWTUBE90
3/0	HD-3/0B	US115	NUWTUBE115
4/0	HD-4/0B	US115	NUWTUBE115
250 MCM	HD-25CMB	US115	NUWTUBE115



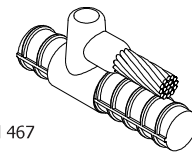
cUL^{us} Listed 467

Cable to Busbar Connections - BE Connection Type



Bus/Lug Size	Cable Size	Mold Part No.	Weld Metal	
			UltraShot	NUWTUBE
1/4 x 1-1/2 & WIDER	#6	BE-141.56B	US65	NUWTUBE65
	#2 Sol	BE-141.52SB	US65	NUWTUBE65
	#2	BE-141.52B	US65	NUWTUBE65
	1/0	BE-141.51/0B	US90	NUWTUBE90
	2/0	BE-141.52/0B	US90	NUWTUBE90
	3/0	BE-141.53/0B	US90	NUWTUBE90
4/0	BE-141.54/0B	US90	NUWTUBE90	
3/8 x 1-1/2 & WIDER	1/0	BE-381.51/0B	US90	NUWTUBE90
	2/0	BE-381.52/0B	US90	NUWTUBE90
	3/0	BE-381.53/0B	US115	NUWTUBE115
	4/0	BE-381.54/0B	US115	NUWTUBE115
1/2 x 1-1/2 & WIDER	1/0	BE-121.51/0B	US115	NUWTUBE115
	2/0	BE-121.52/0B	US115	NUWTUBE115
	3/0	BE-121.53/0B	US150	NUWTUBE150
	4/0	BE-121.54/0B	US150	NUWTUBE150

Cable to Reinforcing Steel Connections - RP Connection Type



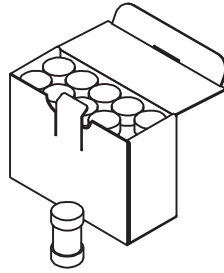
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Size	Cable Size	Mold Part No.	Packing Mat'l No.	Weld Metal	
				UltraShot	NUWTUBE
3	#6	RP-36B	WRPSLV	US25	NUWTUBE25
	#2	RP-32B	WRPSLV	US45	NUWTUBE45
	2/0	RP-32/0B	WRPSLV	US90	NUWTUBE90
	3/0	RP-33/0B	WRPSLV	US115	NUWTUBE115
	4/0	RP-34/0B	WRPSLV	US115	NUWTUBE115
4 & Larger	#6	RP-4L6A	CERPM1	US25	NUWTUBE25
	#2	RP-4L2A	CERPM1	US45	NUWTUBE45
4	2/0	RP-42/0B	WRPSLV	US90	NUWTUBE90
	4/0	RP-44/0B	WRPSLV	US115	NUWTUBE115
5	2/0	RP-52/0B	WRPSLV	US90	NUWTUBE90
	4/0	RP-54/0B	WRPSLV	US115	NUWTUBE115
6** & Larger	2/0	RP-6L2/0B	CERPM2	US90	NUWTUBE90
	4/0	RP-6L4/0B	CERPM2	US115	NUWTUBE115

- ** Requires #UMHDKIT Hold Down Kit for welds made to #6 and Larger reinforcing steel.
- (2) #WRPSLV Wrap Sleeve required per weld.
 - (1) #CERPM1 or #CERPM2 Ceramic Packing Material required per weld.

NUWTube® (Pour & Shoot Weld Metal)

- The weld metal, a mixture of copper oxide and aluminum, is packaged in individual, moisture resistant plastic tubes.
- Dual chamber design holds starting material and weld metal separately, in the same tube.
- Easy to identify with color coded caps. Clear = Weld Metal, Orange = Starting Material.
- Each cartridge is marked with the size.
- Each box also contains instructions and metal disks. One metal disk is used for each connection.

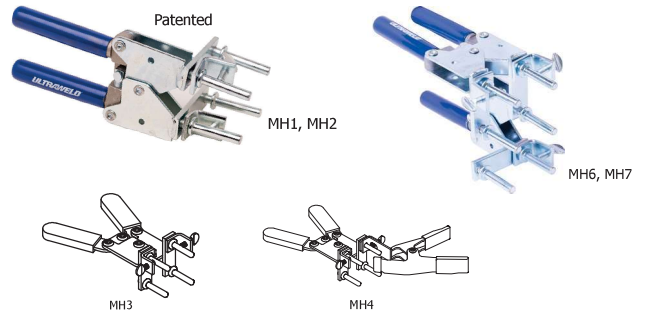


Size	Qty. Per Carton	Size	Qty. Per Carton
NUWTUBE15	20	NUWTUBE90	10
NUWTUBE25	20	NUWTUBE115	10
NUWTUBE32	20	NUWTUBE150	10
NUWTUBE45	20	NUWTUBE200	10
NUWTUBE65	20	NUWTUBE250	10

Mold Handle Clamps

Part No.	Application	Qty.	Approx. Each Wt. (lbs.)
MH1	For All molds with B, E, K, P & Q mold price key (3" wide)	EA	2-3/4
MH2	For All molds with C, D, F, Y & Z mold price key	EA	3-1/2
MH3	For Combo molds with L & M mold price key	EA	1/4
MH4	For Combo molds with R mold price key	EA	1-1/2
MH6	For 3 Piece I mold price key	EA	4-3/4
MH7	For 3 Piece J mold price key	EA	5

- Mold Handle Clamps are required for all molds.
- Some molds are used with specialized frames.
- Handle clamps have a Zinc plated finish.



Ground Access Wells - High Security

- The Harger traffic rated security wells can support vehicle loading up to AASHTO H-20 rating of 32,000 lbs. (14,500 kgs) per axle. This rating refers to the ability of a roadway to safely accommodate 3-4 axle vehicles, such as a large semi-truck and trailer.
- 3/8" steel top cover with 120 degree opening latch.
- Must be shipped by truck only.



Part No.	Dimensions	Approx. Each Wt. (lbs.)
GAW121212DLH	12" x 12" x 12" deep	40
GAW181818DLH	18" x 18" x 18" deep	80
GAW242424DLH	24" x 24" x 24" deep	140
GAW363636DLH	36" x 36" x 36" deep	300

Ground Access Wells - Light Weight Polymer Concrete

- Lid & Grade Ring manufactured from high density polymer concrete.
- Body manufactured from sheet molding compound for exceptional toughness and reduced weight.
- Comes with load category Tier 15 rated covers.
- Suitable for installation and use through a temperature range of -40°C to +90°C.
- Gray color.
- * GAW121224HD is a two piece stackable, each 12" high.

Part No.	Dimensions	Approx. Each Wt. (lbs.)
GAW121212HD	12" x 12" x 12" deep	52
GAW121218HD	12" x 12" x 18" deep	57
GAW121224HD*	12" x 12" x 24" deep	67
GAW132418HD	13" x 24" x 18" deep	97-1/2



GAW121212HD



GAW121218HD



GAW121224HD*



GAW132418HD