

Stan Redford, President
P.O. Box 1065
Raymore, MO 64083



Phone: 816-540-2030
www.redfordconstruction.com
Fax: 816-540-3071

Certified D/MBE

MATERIAL SUBMITTAL

PROJECT: Woodside Ridge 1st Plat
Lee's Summit, MO

DATE: 11/8/2019

TO: City of Lee's Summit, MO
220 SE Green St.
Lee's Summit, MO 64063

RE: Traffic Signal Componets

ATTN: Mke Weisenborn

PROJECT #: 39-35

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
<input type="checkbox"/> Samples	<input checked="" type="checkbox"/> Approval	<input type="checkbox"/> Approved as Noted
<input checked="" type="checkbox"/> Shop Drawings	<input type="checkbox"/> As Requested	<input type="checkbox"/> Approved as Submitted
<input checked="" type="checkbox"/> Specifications	<input type="checkbox"/> Review and Comment	<input type="checkbox"/> Resubmit
<input type="checkbox"/> Concrete Mix Designs	<input type="checkbox"/> Your Use	<input type="checkbox"/> Returned for Corrections
<input type="checkbox"/> Other: Product Data Sheets	<input type="checkbox"/> Other:	<input type="checkbox"/> Other:

SUBMITTAL #	SPECIFICATION SECTION	DESCRIPTION OF PRODUCT AND MANUFACTURER
4	City of Lee's Summit	Traffic Signal Componets - Various

CC: Job File

Signed: Thomas Hudgens



CAPITAL ELECTRIC LINE BUILDERS, INC.
 4400 N. W. Mattox Road
 Riverside, Missouri 64150
 Phone: (816) 389-4000 Fax: (816) 329-8260

Date: 9/16/2019

David Haggard 816-329-8206

To: Tom Hudgens
 Redford Construction Company
 Via email thomas@redfordconstruction.com <Thomas@redfordconstruction.com>

Re: Shop Drawing Submittals
 Pryor Road and O'Brien Road Intersection Improvements

Attached please find our submittal package for the referenced job. Please return a set with approvals or comments. Thank you.

ITEM	SUPPLIER	COMMENTS		
		APPROVED	NOT APPROVED	RESUBMIT
Polymer concrete box and lid	Martin Enterprises			
	2 pages			
Schedule 40 PVC conduit	Cantex			
	1 page			
HDPE/PVC coupler	Duraline			
	1 page			
PVC elbows 90 Degree	Cantex			
	1 page			
Ground Rod	Pentair			
	3 pages			
Ground rod clamp	Burndy			
	1 page			
1C #6 Ground wire	Service Wire			
	1 page			
Pedestrian pole and hardware	Pelco			
	5 pages			
Opticom detecor cable	3M			
	1 page			
16/3 Str20-1 IMSA	Falcon Wire			
	1 page			
Signal cable	ADC			
	1 page			
Conduit Marker	Generic			
	1 page			
Pull box	Martin Enterprises			
	2 pages			
Schedule 40 Rigid PVC conduit	Cantex			
	1 page			
Pvc coupler	Duraline			
	1 page			



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	1 page			

IMSA Spec 20-1 • Stranded Conductor

Specifications		Color Code	Put-Ups
Conductor - Stranded Bare Copper per ASTM B-3, B-8 Insulation	Jacket - PE Voltage Rating - 600 V Temp. Rating - 75°C	Per Specification, See Color Code Tables on Page 15.	Standard Reels 2,500' and 5,000' Other lengths available. Please consult your factory representative for availability.
16 AWG - .025" (.635mm) PE			
14 AWG - .025" (.635mm) PE			
12 AWG - .030" (.762mm) PE			

PART NO.	NO. OF COND	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
16 AWG						
8362	2	.045	1.143	.310	7.88	45
8363	3	.045	1.143	.326	8.28	56
8364	4	.045	1.143	.354	8.99	73
8365	5	.045	1.143	.386	9.80	87
8367	7	.045	1.143	.417	10.59	108
8369	9	.060	1.524	.497	12.62	147
83610	10	.060	1.524	.517	13.13	160
83612	12	.060	1.524	.554	14.07	195
83616	16	.060	1.524	.620	15.75	235
83620	20	.060	1.524	.678	17.22	284
14 AWG						
8302	2	.045	1.143	.340	8.64	58
8303	3	.045	1.143	.358	9.09	76
8304	4	.045	1.143	.390	9.91	94
8305	5	.045	1.143	.428	10.87	113
8307	7	.045	1.143	.465	11.81	148
8309	9	.060	1.524	.570	14.48	203
8310	10	.060	1.524	.612	15.55	224
8312	12	.060	1.524	.612	15.55	256
8314	14	.060	1.524	.666	16.92	293
8315	15	.060	1.524	.702	17.83	315
8316	16	.060	1.524	.702	17.83	332
8319	19	.060	1.524	.739	18.77	383
8320	20	.060	1.524	.771	19.58	403
8321	21	.060	1.524	.777	19.74	419
8325	25	.060	1.524	.911	23.14	529
8326	26	.060	1.524	.991	25.17	544
12 AWG						
8702	2	.045	1.143	.398	10.11	84
8703	3	.045	1.143	.421	10.69	111
8704	4	.045	1.143	.464	11.79	139
8705	5	.045	1.143	.506	12.85	168
8707	7	.045	1.143	.582	14.78	242
8709	9	.060	1.524	.674	17.12	304
8710	10	.060	1.524	.674	17.12	321
8712	12	.060	1.524	.755	19.18	402
8716	16	.060	1.524	.878	22.30	535
8719	19	.060	1.524	.930	23.62	623
8720	20	.080	2.03	.951	24.16	652
8721	21	.080	2.03	.971	24.66	682
8725	25	.080	2.03	1.044	25.52	798



Cable Identification

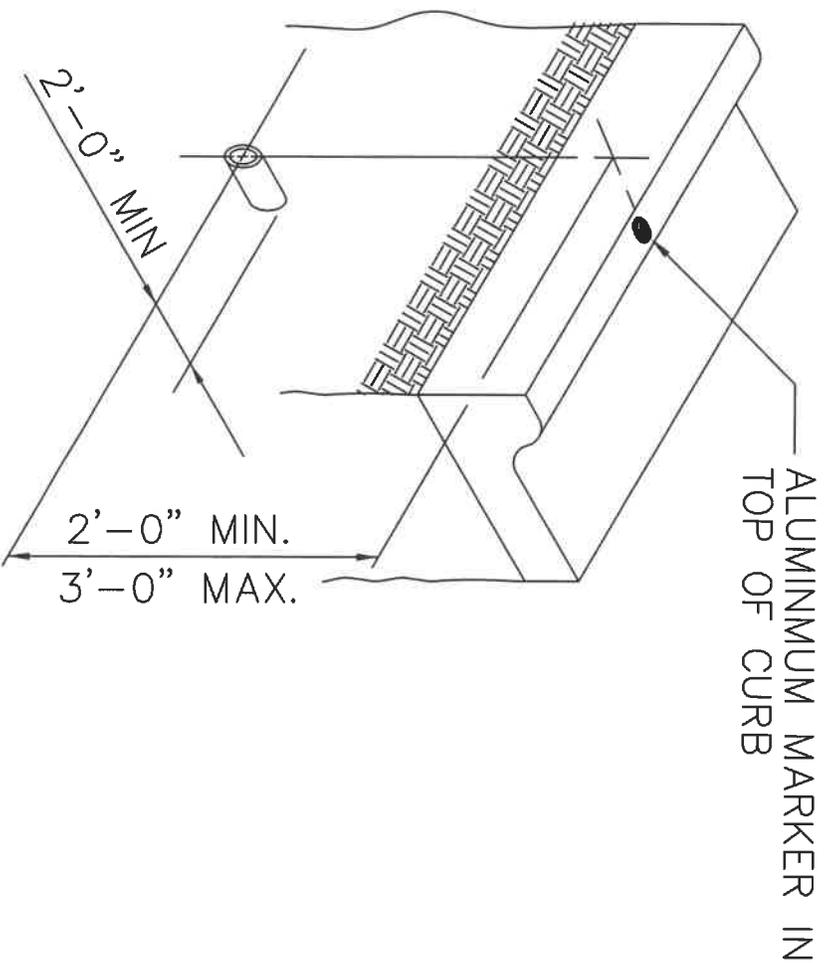
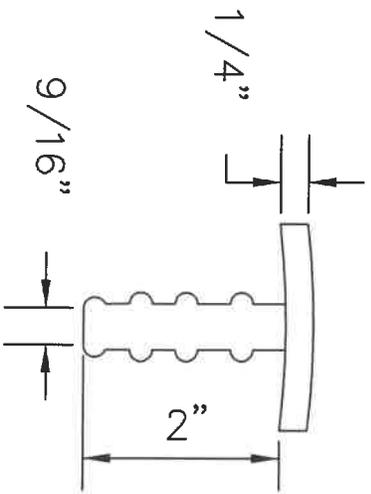
Indent print on jacket
**"ADVANCED DIGITAL CABLE,
 INC. IMSA 20-1 YYYY* 600V"**
**replace YYYY with year of manufacture*

Inkjet print on reverse side of jacket with footage markers.

The information contained on this specification is intended to be used as a guide in product selection and is believed to be reliable. ADC has made every effort to ensure the data shown above is accurate at the time of publication. This specification is subject to change anytime without notice.

Phone: (800) 343 2579 • Fax: (828) 389 3922 • www.adcable.com



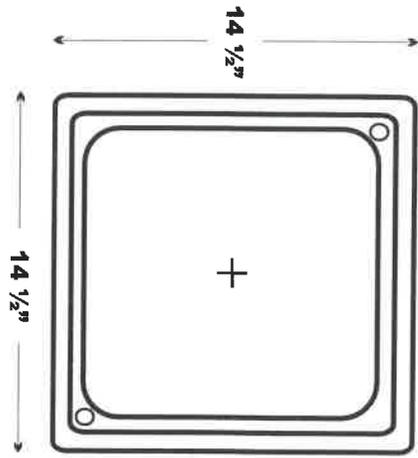


CONDUIT SHALL BE PLACED 2'-0" TO 3'-0" BELOW THE TOP OF CURB ELEVATION AND SHALL EXTEND 2'-0" MINIMUM BEYOND THE BACK OF CURB. CONDUIT SHALL BE INSTALLED TO DRAIN, AND ALL ENDS SHALL BE THREADED AND CAPPED. AN ALUMINUM MARKER SHALL BE PLACED IN THE TOP OF THE CURB DIRECTLY OVER THE CONDUIT. ALUMINUM MARKERS WILL BE FURNISHED BY THE CONTRACTOR.

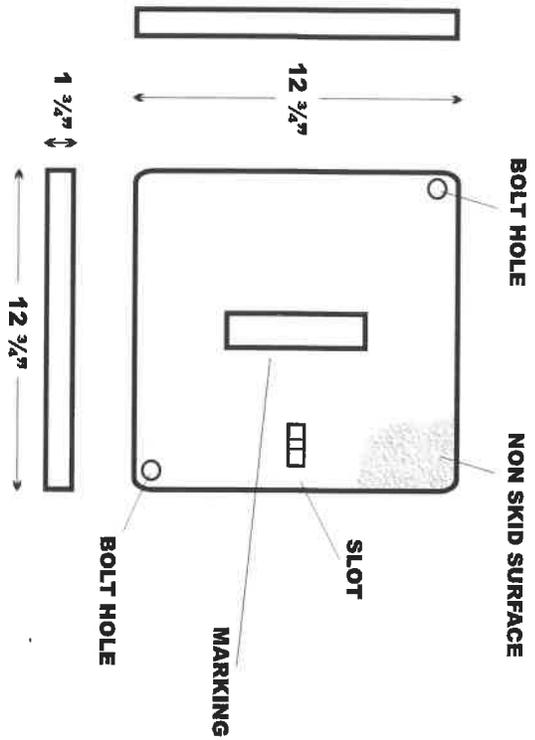
CONDUIT MARKING DETAIL

121212 PC Ring and Cover Tier 15 / 22,500#

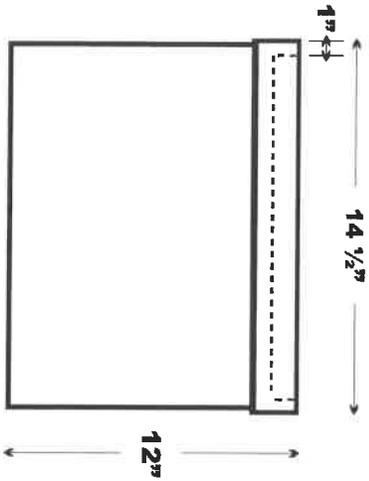
TOP VIEW



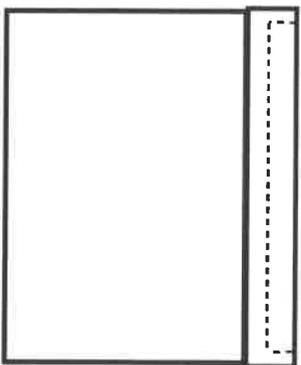
COVER VIEW



END VIEW



SIDE VIEW



Part No. 121212 PC HD "STREET LIGHTING"			
BODY:	POLYMER CONCRETE		
COVER:	POLYMER CONCRETE		
Weight	55 lbs.	Tolerance	+/- 1/8"
Date	Oct 8 2011	File	121212 PC HD
	ANSI Tier 15		22,500#

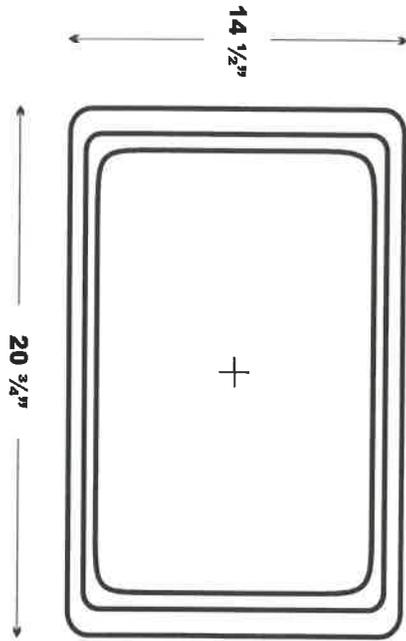
WWW.MARTINER.COM
Martin Enterprises
 Registered Firm
 ISO 9001:2008
 Certificate # A3389US

7231 Boulder Ave. #282
 Highland, CA 92346
 Tel: 951.928.9713
 Fax: 951.928.4023

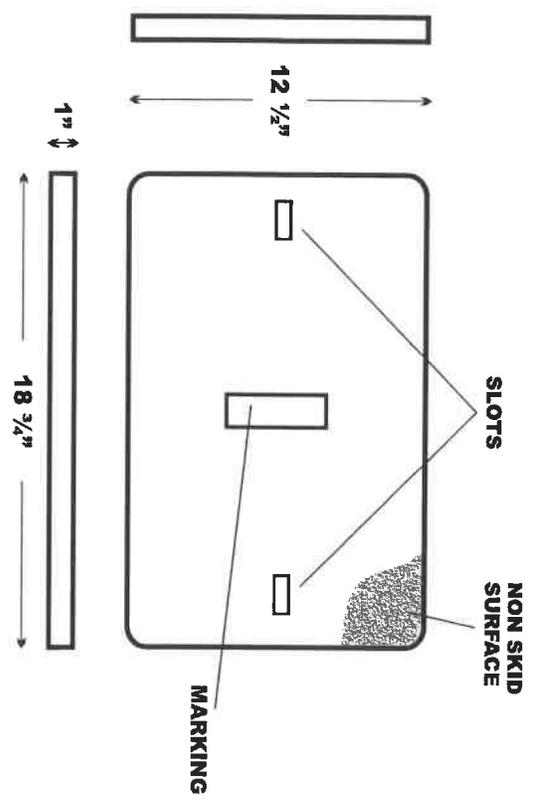
This product complies with the requirements of the California Fire Code and is approved for use in California. This design is owned by Martin Enterprises only.

111812 PC Tier 15 / 22,500#

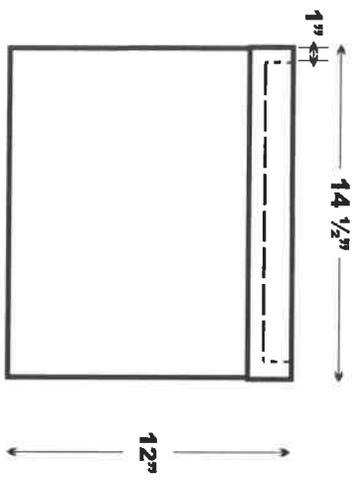
TOP VIEW



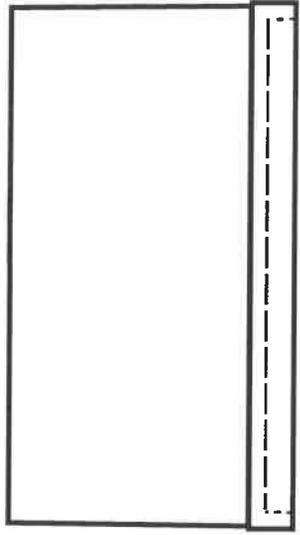
COVER VIEW



END VIEW



SIDE VIEW



Part No. 111812 PC "STREET LIGHTING"			
BODY: POLYMER CONCRETE			
COVER: POLYMER CONCRETE			
Weight 58 lbs.	Tolerance +/- .18"	ANSI Tier 15	
Date Jan 8 2010	File 111812 PC	22,500#	



Martin Enterprises

Your Underground Environment Expert

www.martincorp.com

 7331 Boulder Ave. #282

 111812 PC

 Tel: 951.928.8713

 Fax: 951.928.4623

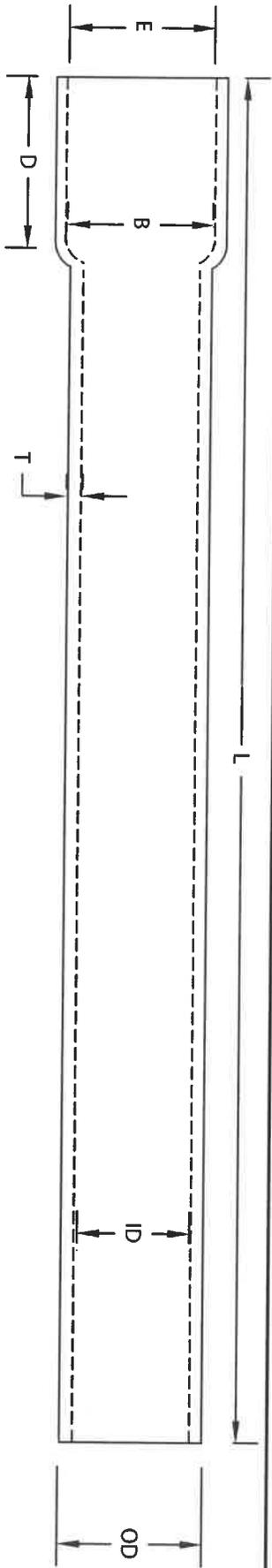
ISO 9001:2008

 Registered Firm

 Certificate # A3395US



The product design is the sole property of Martin Enterprises. The design shall not be copied, reproduced, or otherwise used without the written permission of Martin Enterprises, Inc.



Part Number	Size	T Min.	OD	ID Min.	E	B	D Min.	L Min.
A52AE12	1/2"	0.109"	0.840"	0.578"	0.852"	0.836"	1.50"	120"
A52AG12	3/4"	0.113"	1.050"	0.780"	1.064"	1.046"	1.75"	120"
A52BA12	1"	0.133"	1.315"	1.004"	1.330"	1.310"	2.00"	120"
A52BC12	1 1/4"	0.140"	1.660"	1.335"	1.677"	1.655"	2.25"	120"
A52BE12	1 1/2"	0.145"	1.900"	1.564"	1.918"	1.894"	2.50"	120"
A52CA12	2"	0.154"	2.375"	2.021"	2.393"	2.369"	3.00"	120"
A52CE12	2 1/2"	0.203"	2.875"	2.414"	2.890"	2.868"	3.25"	120"
A52DA12	3"	0.216"	3.500"	3.008"	3.515"	3.492"	3.75"	120"
A52DE12	3 1/2"	0.226"	4.000"	3.486"	4.015"	3.992"	4.00"	120"
A52EA12	4"	0.237"	4.500"	3.961"	4.515"	4.491"	4.50"	120"
A52FA12	5"	0.258"	5.563"	4.975"	5.593"	5.553"	5.50"	120"
A52GA12	6"	0.280"	6.625"	5.986"	6.658"	6.614"	6.12"	120"
A52JA12 *	8"	0.322"	8.625"	7.853"	8.670"	8.610"	6.12"	120"

* 8 inch not ETL Listed
 ETL LISTED
 CONFORMS TO UL651
 ETL CONTROL #3107144
 CONFORMS TO NEMA TC2
 SEE NEC ARTICLE 352 FOR USE
 MATERIAL IS RIGID PVC
 SUNLIGHT RESISTANT
 MAX 90° C WIRE
 Complies with Federal Specification WC-1094A

Dimensions are Nominal

CONFORMS TO UL651
 ETL CONTROL #3107144
 CONFORMS TO NEMA TC2
 SEE NEC ARTICLE 352 FOR USE
 MATERIAL IS RIGID PVC
 SUNLIGHT RESISTANT
 MAX 90° C WIRE
 Complies with Federal Specification WC-1094A



Intertek
 US



Fort Worth, TEXAS

Schedule 40 Rigid PVC Conduit

SHUR-LOCK™ II

www.duraline.com



Customer Service
800-847-7661



FEATURES:

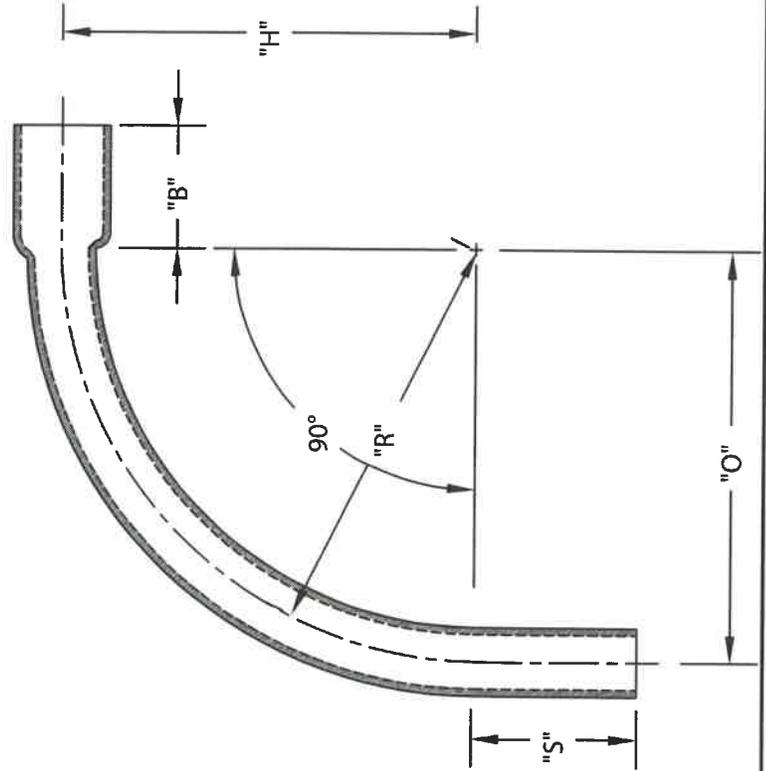
- One person installation
- Re-enterable, no special tools required
- Air and water tight
- No I.D. reduction
- Excellent pull out strength on HDPE, PVC, FRP and steel
- No-Stop version available for confined areas or repairs (*NS)
- ETL Listed
- Listed to CSA STD C22.2 18.3-04
- Listed to UL STD 514B

Plastic coupler designed for coupling HDPE & PVC conduit. Can also be used to couple dissimilar conduits such as HDPE to PVC, threaded or non-threaded metal conduit, or fiberglass (FRP) conduit. The coupler features stainless steel band clamps (hand tightened using a 5/16" nut driver) and locking ring. A pre-lubricated O-ring forms an air-tight seal to withstand 125 psi. Also, a specialized coupler for use by electrical installers requiring ETL/UL listing. **NOTE:** Certain sizes ETL-Listed for use with HDPE and PVC for underground and concrete encased applications only! Not for use with PVC in above-ground applications. Not premise (indoor) rated.

PART #	SHUR-LOCK II COUPLER	NOMINAL PULL-OUT STRENGTH	PACKAGING WEIGHT (lbs)	SHIP
1-400756	1.00" Shur-Lock II Coupler SDR 1.315" ± 0.020"	600 lbs	10/CTN	5
1-400757	1.00" Shur-Lock II Coupler HYB 1.350" ± 0.020"	600 lbs	10/CTN	5
1-400758	1.25" Shur-Lock II Coupler SDR 1.660" ± 0.020"	700 lbs	10/CTN	6
1-400759	1.25" Shur-Lock II Coupler HYB 1.590" ± 0.020"	700 lbs	10/CTN	6
1-401875	1.25" Shur-Lock II Coupler 1.534" ± 0.020"	700 lbs	10/CTN	5
1-400760	1.50" Shur-Lock II Coupler SDR 1.900" ± 0.020"	800 lbs	10/CTN	6
1-400761	2.00" Shur-Lock II Coupler SDR 2.375" ± 0.020"	800 lbs	10/CTN	7
1-403650	2.00" Shur-Lock II Coupler-Extended SDR 2.375" ± 0.020" (8.25" long vs 5.75" standard)	800 lbs	10/CTN	8
1-401633	2.50" Shur-Lock II Coupler SDR 2.875" ± 0.020"	1,000 lbs	6/CTN	8
1-401634	3.00" Shur-Lock II Coupler SDR 3.500" ± 0.020"	1,000 lbs	6/CTN	11
1-403543	4.00" Shur-Lock II Coupler SDR 4.500" ± 0.020"	1,000 lbs	4/CTN	15
1-407004	4.00" Shur-Lock II Coupler SDR 13.5 4.657" + 0.020"	1,000 lbs	4/CTN	15
1-403565	5.00" Shur-Lock II Coupler SDR 5.563" ± 0.020"	1,000 lbs	2/CTN	18
1-403568	6.00" Shur-Lock II Coupler SDR 6.625" ± 0.020"	1,000 lbs	2/CTN	20

Please specify if ETL listing is required.

PART NUMBER	SIZE	"R"	"O"	"H"	"S" MIN	"B" MIN	"L"
5233823	1/2"	4"	4"	4"	1 1/2"	1"	6 1/4"
5233824	3/4"	4 1/2"	4 1/2"	4 1/2"	1 1/2"	1 1/2"	7 1/8"
5233825	1"	5 3/4"	5 3/4"	5 3/4"	1 7/8"	1 1/2"	9"
5233826	1 1/4"	7 1/4"	7 1/4"	7 1/4"	2"	1 1/2"	11 3/8"
5233827	1 1/2"	8 1/4"	8 1/4"	8 1/4"	2"	2"	13"
5233828	2"	9 1/2"	9 1/2"	9 1/2"	2"	2"	15"
5233829	2 1/2"	10 1/2"	10 1/2"	10 1/2"	3"	2 1/4"	16 1/2"
5233830	3"	13"	13"	13"	3 1/8"	2 1/2"	20 3/8"
5233831	3 1/2"	15"	15"	15"	3 1/4"	3 1/4"	23 1/2"
5233832	4"	16"	16"	16"	3 3/8"	3 1/4"	25 1/8"
5233835	5"	24"	24"	24"	3 5/8"	4 1/4"	37 5/8"
5233834	6"	30"	30"	30"	3 3/4"	5"	47 1/8"



ETL LISTED
 CONFORMS TO UL651
 ETL CONTROL #3107144
 CONFORMS TO NEMA TC3
 SEE NEC ARTICLE 352 FOR USE
 MATERIAL IS RIGID PVC
 BEND TOLERANCE IS ±2°
 "B" TOLERANCE IS -1/8", +1/2"



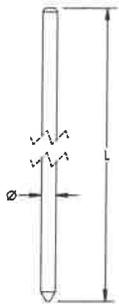
90° Elbows Bell End
 Schedule 40 Standard Radius Elbows

Drawn By: CD Branch Date: 10/15/07 Ref.

Copper-Bonded Ground Rod, Pointed



- 99.9% pure electrolytic copper coating
- Molecular bond to nickel-sealed high strength steel core
- Rods have a high carbon steel core and tip that provide superior strength when driving
- Copper coating will not crack when bent or tear when driven
- Minimum copper coating of 10 mils on rods listed to UL® 467
- ERICO name, length, diameter and part number is roll-stamped within 12" (304,8 mm) of chamfered end
- UL logo and control number where applicable stamped on each rod for easy inspection after installation



Material: Copper-Bonded Steel
Tensile Strength: 80,000 psi Min



Part Number	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual Ø	Length L	Plating Thickness	Unit Weight	UPC Label	Complies With	Certifications
613840	3/8"	0.358"	4.0'	10 mil	1.30 lb	No	-	-
613840UPC	3/8"	0.358"	4.0'	10 mil	1.30 lb	Yes	-	-
613850	3/8"	0.358"	5.0'	10 mil	1.60 lb	No	-	-
613860	3/8"	0.358"	6.0'	10 mil	2.00 lb	No	-	-
613880	3/8"	0.358"	8.0'	10 mil	2.70 lb	No	-	-
611330	1/2"	0.504"	3.0'	10 mil	2.20 lb	No	-	-
611340	1/2"	0.504"	4.0'	10 mil	2.80 lb	No	-	-
611350	1/2"	0.504"	5.0'	10 mil	3.50 lb	No	-	-
611360	1/2"	0.504"	6.0'	10 mil	4.40 lb	No	-	-
611360UPC	1/2"	0.504"	6.0'	10 mil	4.40 lb	Yes	-	-
611380	1/2"	0.504"	8.0'	10 mil	5.50 lb	No	ANSI*/NEMA® GR1	UL
611380UPC	1/2"	0.504"	8.0'	10 mil	5.50 lb	Yes	ANSI*/NEMA® GR1	UL
611300	1/2"	0.504"	10.0'	10 mil	6.90 lb	No	ANSI*/NEMA® GR1	CSA, cULus

Part Number	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual \emptyset	Length L	Plating Thickness	Unit Weight	UPC Label	Complies With	Certifications
613460	3/4"	0.681"	6.0'	10 mil	7.50 lb	No	IEC® EN 62561-2	-
613480	3/4"	0.681"	8.0'	10 mil	10.10 lb	No	IEC® EN 62561-2, ANSI®/ NEMA® GR1	UL
613483	3/4"	0.681"	8.0'	13 mil	10.00 lb	No	IEC® EN 62561-2, ANSI®/ NEMA® GR1	UL
613400	3/4"	0.681"	10.0'	10 mil	12.60 lb	No	IEC® EN 62561-2, ANSI®/ NEMA® GR1	CSA, cULus
613400UPC	3/4"	0.681"	10.0'	10 mil	12.60 lb	Yes	IEC® EN 62561-2, ANSI®/ NEMA® GR1	cULus
613403	3/4"	0.681"	10.0'	13 mil	12.40 lb	No	IEC® EN 62561-2, ANSI®/ NEMA® GR1	cULus
613412	3/4"	0.681"	12.0'	10 mil	14.90 lb	No	IEC® EN 62561-2, ANSI®/ NEMA® GR1	cULus
613415	3/4"	0.681"	15.0'	10 mil	18.50 lb	No	IEC® EN 62561-2, ANSI®/ NEMA® GR1	cULus
693450	3/4"	0.750"	5.0'	10 mil	6.17 lb	No	-	-
693480	3/4"	0.750"	8.0'	10 mil	10.06 lb	No	IEC® EN 62561-2, ANSI®/ NEMA® GR1	UL
693400	3/4"	0.750"	10.0'	10 mil	12.30 lb	No	IEC® EN 62561-2, ANSI®/ NEMA® GR1	cULus
614400	1"	0.911"	10.0'	10 mil	22.00 lb	No	ANSI®/ NEMA® GR1	CSA, cULus

For rods to be listed to UL* 467, they must be at least 8' (2.43 m) in length.

IEC® EN 62561-2 supercedes EN 50164-2.

Additional lengths available.

ANSI is a registered trademark of American National Standards Institute. CSA, CSA-US and C-CSA-US are registered trademarks of Canadian Standards Association. IEC is a registered trademark of the International Electrotechnical Commission. NEMA is a registered service mark of National Electrical Manufacturers Association. UL, UR, cUL, cUR, cULus and cURus are registered certification marks of UL LLC.

WARNING

Pentair products shall be installed and used only as indicated in Pentair's product instruction sheets and training materials. Instruction sheets are available at erico.pentair.com and from your Pentair customer service representative. Improper installation, misuse, misapplication or other failure to completely follow Pentair's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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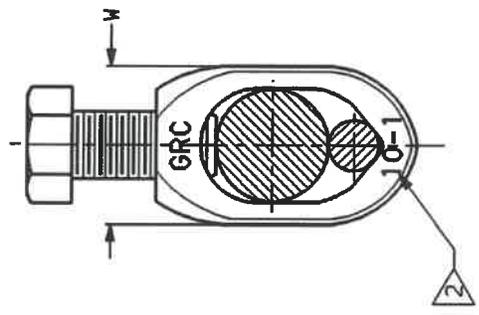
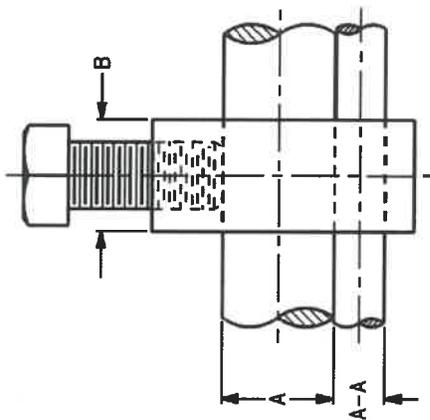
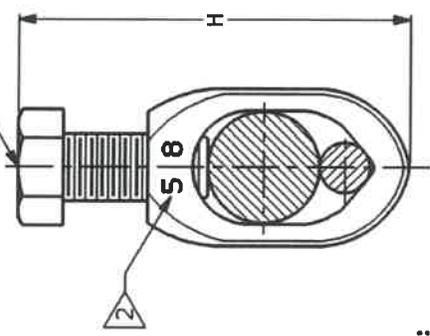
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ROD 'A'		CABLE 'A-A'		CAT. NO.	B	H	W	RECOMMENDED TORQUE	
NOMINAL O.D.	ACTUAL O.D. (IN)	AMG	METRIC WIRE SIZE					Lb*in	N*mm
1/2	.500	10 SOL (.102) - 2 STR (.292)	6mm ² STR [3.21] - 35mm ² STR [7.62]	GRC12	.63	2.00	.89	240	27.0
5/8	.625	10 SOL (.102) - 1 STR (.332)	6mm ² STR [3.21] - 35mm ² STR [7.62]	GRC58	.63	2.18	.95		
3/4	.750	8 SOL (.128) - 1/0 STR (.373)	10mm ² SOL [3.58] - 35mm ² STR [7.62]	GRC34	.65	2.47	1.09		



3/8-16 SILICON BRONZE
HEX HD BOLT



NOTES:

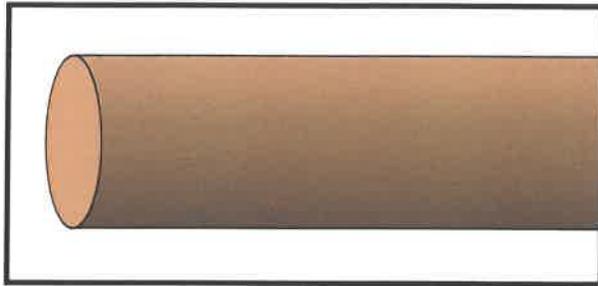
1. MATERIAL: BODY CAST FROM HIGH STRENGTH COPPER ALLOY.
2. TYPICAL LETTERING
3. UL 467 LISTED, FILE NO. E9999.
4. SUITABLE FOR DIRECT BURIAL IN EARTH OR CONCRETE.
5. REA ACCEPTED
6. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS ROUNDED OFF TO THE NEAREST MILLIMETER, UNLESS OTHERWISE NOTED, AND ARE FOR REFERENCE ONLY.

GROUNDING ROD CONNECTOR

CAT NO. GRC-- (TABLE)
 SCALE N/A
 DRAWN: TJH 6/17/75 CHECKED: TJH
 DESIG APP'L: ESK 6/18/75 DWG APP'L: N/A
 Q.A. APP'L: N/A
 CAD FILE: SA76868-SHT01
 PH REF: N/A
 VOL REF: N/A
 PROJECT: DO 36695
 DRAWING NO. SA76868
 SHEET 1 OF 1

BURNEDY
 on FCI Company
 U.S. ELECTRICAL DIVISION
 MANCHESTER, NH 03108

REV.	DATE	DESCRIPTION	BY	C'K'D.	RDP	DF/KM	JLM	MSP
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Bare Copper Solid Conductor

Bare or Tinned,
Soft (Annealed), Medium
Hard, Hard Drawn

Applications:

For use in electrical grounding systems, and on insulators for overhead transmission and distribution applications.

Standards:

- ASTM B-1 (Hard Drawn)
- ASTM B-2 (Medium Hard Drawn)
- ASTM B-3 (Soft or Annealed)
- ASTM B-33 (Tinned Soft or Annealed)
- REA/RUS Approved
- Federal standard QQ-W-343

Size AWG or MCM	Nominal Diameter (inch)	Approximate Net Weight per 1000ft. (lbs.)	Hard Drawn		Medium Hard Drawn		Soft (Annealed)		Ampacity*	
			Minimum Break- ing Strength (lbs.)	DC Resistance (Ohms/1000ft.) @ 20° C	Minimum Break- ing Strength (lbs.)	DC Resistance (Ohms/1000 ft.) @ 20° C	DC Resistance (Ohms/1000ft.) @ 20° C			
							Bare	Tinned		
SOLID BARE COPPER	18	.0403	4.985	85	6.6400	67	6.6100	6.3900	6.6400	-
	16	.0508	7.800	135	4.1800	106	4.1600	4.0200	4.1800	-
	14	.0641	12.400	214	2.6300	167	2.6100	2.5200	2.6200	-
	12	.0808	19.800	337	1.6500	262	1.6400	1.5900	1.6500	-
	10	.1019	31.400	529	1.0390	410	1.0330	.9988	1.0430	-
	8	.1285	50.000	826	.6532	644	.6498	.6281	.6426	98
	6	.1620	79.400	1280	.4110	1010	.4088	.3952	.4109	124
	4	.2043	126.400	1970	.2584	1584	.2571	.2485	.2528	155
	2	.2576	200.900	3002	.1625	2450	.1617	.1563	.1580	209
	1	.2893	253.300	3688	.1289	3024	.1282	.1239	-	-
	1/0	.3249	319.500	4518	.1011	3731	.1016	.0982	-	282
	2/0	.3648	402.800	5519	.0802	4600	.0798	.0779	-	329
	3/0	.4096	507.800	6720	.0636	5666	.0633	.0618	-	382
4/0	.4600	640.500	8143	.0504	6980	.0502	.0490	-	444	

* Per NEC Table 310-21. Based on conductor temperature of 80° C; ambient temperature of 40° C; 2 ft./sec. wind.
NOTE: The data shown is approximate and subject to standard industry tolerances.

MID-AMERICAN SIGNAL, INC.

2429 South Mill Street,
Kansas City, Kansas 66103
913- 432 5002
www.midamsignal.com

Submittals for City of Lee's Summit-Pryor Road
Job Number 31507
Produced for Dave Haggard-Capital Electric

MAS POLICY IS TO EXCLUSIVELY SEND SUBMITTALS ELECTRONICALLY VIA PDF DOCUMENT, IN THE INTEREST OF REDUCING PAPERWORK AND PROJECT COSTS

SALESPERSON CONTACT

SHAWN BATALIA
913-432-5002 X 35
shawn.batalia@midamsignal.com

PROJECT MATERIALS-ORDER CONTROL AND SCHEDULING

Seth Krouse
913-432-5002 X 31
seth.krouse@midamsignal.com

- Project Orders are on hold pending approval of submittals
- Mid American Signal shall be provided with copy of approved submittals or written/electronic acceptance of materials as submitted prior to orders being released
- Electronic Documents are accepted and encouraged



Shawn Batalia, Mid American Signal, Inc

Pedestal Poles

Pelco offers aluminum, iron, and plastic bases in various sizes as well as poles in aluminum and steel. Pelco's cast aluminum square base is FHWA certified and meets or exceeds AASHTO break-away requirements. Plastic replacement doors offer an economical way to deter vandalism.



1



1. Pedestal Pole, 4" Sch 40, Spun Alum No Threads

PB-5101 - Length - Coating

PNC=Process No Color
P__=Paint

2



2. Pedestal Pole, 4"- 8 NPT Sch 40, Spun Alum w/ Pelican ID

PB-5100 - Length - Coating

PNC=Process No Color
P__=Paint

3



Pedestal Pole, 4"- 8 NPT Sch 80, Spun Alum

PB-5102 - Length - Coating

PNC=Process No Color
P__=Paint

Pedestal Pole, 4"- 8 NPT Sch 40, Steel

PB-5201 - Length - Coating

P__=Paint

Pedestal Pole, 4"- 8 NPT Sch 40, Galv Steel

PB-5200 - Length - Coating

Blank=Galvanized Only
P__=Paint over Galvanized

3. Pedestal Pole, Welded, 4"- 8 NPT w/ 5-1/2" Nipple Length, Steel

PB-5219 - Length - Coating

GLV=Galvanized
P__=Paint

Note: 1. Standard poles are typically sold in 1 foot increments. For other lengths contact sales.
2. See Reference Section for available paint colors.



Square Pedestal Bases Aluminum

Pelco offers aluminum, iron, and plastic bases in various sizes as well as poles in aluminum and steel. Pelco's PB-5334 and PB-5335 cast aluminum square bases are FHWA certified and meets or exceeds AASHTO break-away requirements. Plastic replacement doors offer an economical way to deter vandalism.



Square Base Assembly, Alum w/ Alum Door



PB-5334	-	<input type="checkbox"/>	-	<input type="checkbox"/>	-	<input type="checkbox"/>	-	<input type="checkbox"/>
		Door		Set Screws in Collar		Grounding Lug		Coating
		NL=No Logo Blank=Pelco Logo		1S=1 Hex Bolt 3S=3 Set Screws Blank=None		GL=Ground Lug Blank=None		PNC=Process No Color P__=Paint

Square Base Assembly, Alum w/ Plastic Door

PB-5335	-	<input type="checkbox"/>	-	<input checked="" type="checkbox"/> 1S	-	<input checked="" type="checkbox"/> GL	-	PNC
		Door		Set Screws in Collar		Grounding Lug		
		NL=No Logo Blank=Pelco Logo		1S=1 Hex Bolt 3S=3 Set Screws Blank=None		GL=Ground Lug Blank=None		

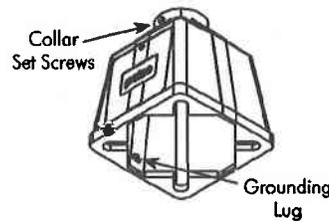
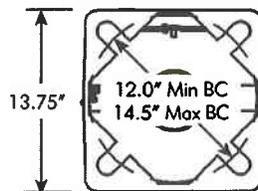
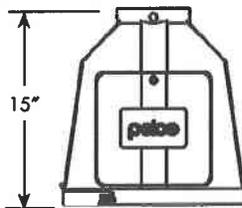
Square Base Assembly, Alum Heat Treated w/ Alum Door



PB-5336	-	<input type="checkbox"/>	-	<input type="checkbox"/>	-	<input type="checkbox"/>	-	<input type="checkbox"/>
		Door		Set Screws in Collar		Grounding Lug		Coating
		NL=No Logo Blank=Pelco Logo		1S=1 Hex Bolt 3S=3 Set Screws Blank=None		GL=Ground Lug Blank=None		PNC=Process No Color P__=Paint

Square Base Assembly, Alum Heat Treated w/ Plastic Door

PB-5337	-	<input type="checkbox"/>	-	<input type="checkbox"/>	-	<input type="checkbox"/>	-	PNC
		Door		Set Screws in Collar		Grounding Lug		
		NL=No Logo Blank=Pelco Logo		1S=1 Hex Bolt 3S=3 Set Screws Blank=None		GL=Ground Lug Blank=None		



- Note: 1. PB-5334 and PB-5335 aluminum square bases above are available with AASHTO certifications and FHWA approval. Please specify by adding the Certification Part No. C-1001 in addition to the base part number.
2. All assemblies are supplied standard with stainless fasteners.
3. See Reference Section for available paint colors.



Pole & Arm Caps

Pelco offers pole and arm caps in various sizes in both aluminum and steel. Caps for 4-1/2" OD posts are available in aluminum and ABS plastic.



Pole Cap, Acorn Type, Alum, 3" OD Pole

PB-5403 - Coating
PNC=Process No Color
P__=Paint



Pole Cap, Acorn Type, Alum, 3-1/2" OD Pole

PB-5407 - Coating
PNC=Process No Color
P__=Paint

Pole Cap, Acorn Type, Alum, 4-1/2" OD Pole

PB-5401 - Coating
PNC=Process No Color
P__=Paint



Pole Cap, Dome Type, Alum, 4-1/2" OD Pole

PB-5402 - PNC Coating
PNC=Process No Color
P__=Paint

Note: 1. All assemblies are supplied standard with stainless fasteners.
2. See Reference Section for available paint colors.



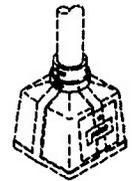
Collars & Adapters

Pole and base collar assemblies, for both square and octagonal bases, are available in highwind areas to add strength and help prevent loosening of connection.



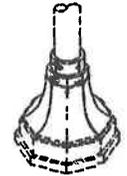
Pole & Base Collar Assembly, Alum Square Base

PB-5325 - Coating
 PNC
 PNC=Process No Color
 P__=Paint



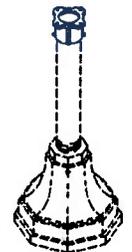
Pole & Base Collar Assembly, Alum Octagonal Base

PB-5326 - Coating
 PNC
 PNC=Process No Color
 P__=Paint



Pedestal Adapter, 4" (4-1/2" OD Pole), Alum 6-1/2" Bolt Circle

SE-3104 - Coating
 PNC
 PNC=Process No Color
 P__=Paint



Note: 1. All assemblies are supplied standard with stainless steel fasteners.
 2. Specify options when ordering.
 3. See Reference Section for available paint colors.



Anchor Bolt Sets

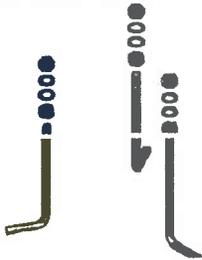
Pelco's galvanized anchor bolt sets are available in a variety of sizes.



**Anchor Bolt Set of 4 w/ Hardware
1/2"-13NC x 7-1/2", Galv**

AP-1046-GLV

Note: Includes 4 Bolts, 8 Washers, and 8 Nuts.



**Anchor Bolt Set of 3 w/ Hardware
3/4"-10NC x 18", Galv**

PB-5305-GLV

Note: Includes 3 Bolts, 6 Washers and 6 Nuts.



**Anchor Bolt Set of 4 w/ Hardware
3/4"-10NC x 18", Galv**

PB-5306-GLV

Note: Includes 4 each: Bolts, Washers and Nuts.

PB-5518-GLV

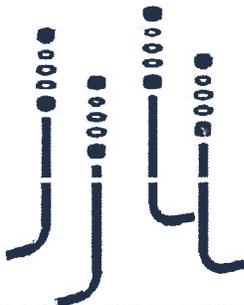
Note: Includes 4 Bolts, 8 Washers and 8 Nuts.



**Anchor Bolt Set of 4 w/ Plate Washers
3/4"-10NC x 18", Galv**

PB-5371-GLV

Includes 4 Bolts, 4 Plate Washers, 4 Washers, and 4 Nuts.



**Anchor Bolt Set of 4 w/ Hardware
1"-8NC x 36", Galv**

AP-1007-  -GLV

Template

- 1=12" Bolt Circle
- 2=12.75" Bolt Circle
- 3=11" Bolt Circle

Includes 4 Bolts, 4 Lock Washers, 8 Washers, and 8 Nuts.

Note: 1. All assemblies are supplied standard with galvanized fasteners.



PELCO POLES & BASES
PELCO INDUSTRIES, INC.

Opticom™ Priority Control System

Detector Cable Model 138

An Opticom™ System Matched Component Product

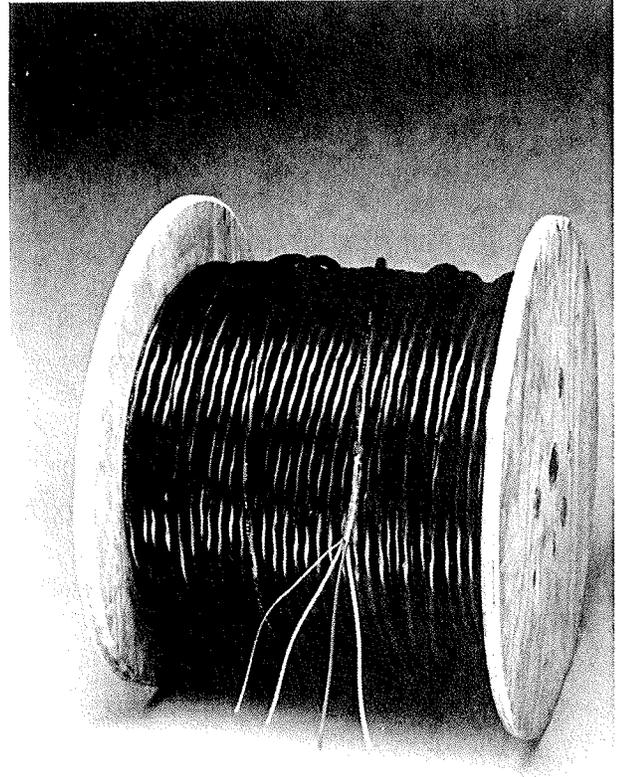
Description

The M138 Optical Detector Cable is designed and manufactured explicitly for use with Opticom Detectors. M138 has three color-coded conductors, a conductive shield and drain, and a black PVC jacket.

This durable, high quality cable carries the appropriate power to the Optical detectors from the Phase Selector and delivers the necessary quality signal to the Phase Selector discriminator circuitry up to 1000 ft. (305 m).

Features

- Optimized to interface M205 detectors to an Opticom Phase Selector
- Assures effective range of 2800 ft. (853 m) with Opticom System components
- Durable construction
 - Suitable for direct burial
 - Suitable for conduit and mast arm pull
 - Suitable for exposed overhead installation (messenger wire required)



SPEC NUMBER: 98031620-1



DESCRIPTION 16/3 Str 20-1 IMSA

CONSTRUCTION

AWG	16 AWG 7/BC
Conductors	3
Primary Insulation	Polyethylene
Nominal Wall	.025
Shield	Clear Mylar
% Overlap	20
Drain	N/A
Jacket	Polyethylene
Nominal Wall	.045
Nominal OD	.325
Tempature Rating	75°C
Operating Voltage	600V
Characteristics	Twisted and jacketed

Print: "FALCON FINE WIRE "Year" IMSA 20-1 600V

Color Code: Blk-Wht-Red