

From: [Chapman, Colleen](#)
To: [Franceschini, Robert](#)
Cc: [Khan, Diana](#); [Westberry, Bruce](#)
Subject: FW: PELCO BRACKET FOR 5/SEC. IISNS (not on QPL List)
Date: Wednesday, November 26, 2014 10:24:16 AM
Attachments: [SP-1004-FL.idw.pdf](#)
[3104-StellarCableMountClampKit.pdf](#)
[SP-1079-FL.idw.pdf](#)
[SP-1079-FL Letter.pdf](#)
[image001.png](#)

Hi Bob,

There has been a part number change on the Pepco quote IT130568. Can you please post the letter that is attached from Pelco explaining the change? Also, below is Donny Dey's e-mail explaining the other attachments.

Have great GOBBLE day.

Thank you,
Colleen Chapman
Senior Account Clerk
Lee County BOCC
Public Works, Internal Services, Fiscal
cchapman@leegov.com
Phone: (239) 533-8588
Fax: (239) 485-8500



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From: Dey, Donny
Sent: Wednesday, November 26, 2014 5:52 AM
To: Chapman, Colleen
Subject: FW: PELCO BRACKET FOR 5/SEC. IISNS (not on QPL List)

Hey Colleen. This is what Bob Magness, the Pelco representative for Florida, provided to Donn

Underwood at TCS to explain the number change on all the Astro-Brac signal mounting brackets we purchase. The first 4 are cut sheets showing the differences on the brackets from the SP-1004 to the SP-1079. The last one is the letter explaining FDOT's required change from using the 1004 and replacing with the 1079. Remember there are 4 of them on the quote. The last part of the stock number will be -62, -84, -120, or -144 and simply refers to the length of the stainless steel cable used to secure the bracket to the mast arm. Thank you.

From: Donn H. Underwood [<mailto:DUnderwood@tcstraffic.com>]
Sent: Tuesday, November 25, 2014 4:51 PM
To: Dey, Donny
Subject: FW: PELCO BRACKET FOR 5/SEC. IISNS (not on QPL List)

Will this help?

Donn Underwood

Director of Sales & Administration
Transportation Control Systems, Inc.
1030 South 86th Street | Tampa | Florida | 33619
813-630-2800, ext 202 [office] | 813-630-2801 [fax]
Emergency Cell 813-735-8094
www.tcstraffic.com

From: Bob.Magness [<mailto:Bob.Magness@PelcoInc.com>]
Sent: Tuesday, November 25, 2014 4:43 PM
To: Donn H. Underwood
Subject: FW: PELCO BRACKET FOR 5/SEC. IISNS (not on QPL List)

Donn,

Please see the attached letter.

Let us know if you need anything else.

Bob Magness

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The SP-1004-FL Astro-Brac clamp kit has been used successfully in FL (and throughout the U.S. as an AB-3009) in several signal and sign mounting assemblies for many years. Item 2 in the attached Assembly Sheet for the SP-1004-FL is the single piece female clamp, AB-0354, that is also shown in the attached picture. When installed, the female clamp closes about and holds the male clamp, Item 3 in the Assembly. One can observe from the female casting picture that as the gap in the casting is closed with two 5/16" bolts that the female casting must actually deform slightly to grasp the male casting.

If, in an improper installation of the clamp kit, both cables holding the female casting about the structure supporting the clamp are securely tightened before tightening the 5/16" gap closing bolts, then the female casting may be prevented from flexing to securely grasp the male. And, increased tightening of those 5/16" bolts can result in fracturing the female casting. This can happen at the initial installation but more likely in subsequently incorrect re-adjustment or incorrect re-installation of the clamp kit. The installation instructions included at the factory with each clamp kit warn against such improper installation. However, in recent years, several fractures of the SP-1004-FL clamp kit were reported to FDOT resulting in TERL's request that it be replaced by the SP-1079-FL.

A two-piece female clamp, the Stellar Cable Mount Clamp Kit shown in the attached Specification 3104 and in the attached SP-1079-FL drawing, is less prone to miss-installation. And, FDOT/TERL required that Pelco replace, beginning in 2014, the SP-1004-FL clamp kit with the SP-1079-FL clamp kit in all assembly shipments where the SP-1004-FL was previously used. Although the SP-1004-FL clamp kit was not separately listed on the APL, the SP-1079-FL had been submitted and listed on the APL in late 2012. It is not clear how FDOT/TERL plans to "de-list" the SP-1004-FL from use in assemblies listed on the APL. However, the SP-1004-FL is no longer offered for sale by Pelco. And, the SP-1079-FL is directly interchangeable with the SP-1004-FL should the need arise on older assemblies employing the SP-1004-FL.

Let me know if you have any other questions regarding these changes.

Best regards,

Gordon Andersen

SPECIFICATION

Stellar Clamp Kit, Cable Mount

DESIGN:

- 1. Application:** The Stellar Clamp Kit is a universal component of traffic signal, camera, sensor, and sign assemblies that mounts to structures of various sizes and shapes. The Stellar Clamp Kit is easy to install and provides adjustability to properly support, position, and plumb the complete assembly.
- 2. Adjustability:** The clamp kit shall be capable of being rotated in any direction shown in Figure 1. Rotational adjustability shall be provided with a cast shoulder on the male clamp half that is securely constrained by the female clamp halves, until fully tightened. Additional adjustability for length and angularity of the assembly's attaching pipe or tube shall be provided by the v-bolts in the male clamp half.
- 3. Attachment:** A one-piece aircraft type stranded cable shall rigidly attach the clamp kit to any supporting structure between 4" and 22" in diameter without any special tools or equipment. The two v-bolts in the male clamp half shall securely attach any 1-7/8" diameter pipe that further supports the assembly. (Figure 1)
- 4. Wiring:** Electrical wiring for the assembly can be concealed by running the conductors through the unobstructed center opening in the Stellar Clamp Kit.

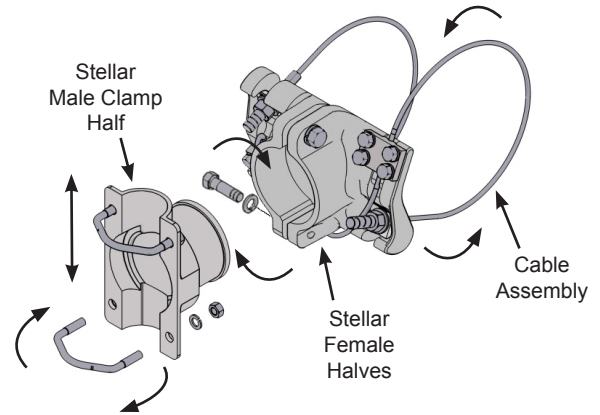


Figure 1

MATERIAL:

Aluminum Alloy	713	Brinell Hardness.....	75
Yield Strength, KSI	22	Elongation (% in 2")	3
Tensile Strength, KSI	32		

- 1. Male Clamp:** The male clamp half shall be cast from 713 aluminum alloy, or equivalent, and be free from casting defects, blemishes, and excessive foundry grinding marks. The male clamp half shall have a 2-1/4" unobstructed opening and be capable of 360° rotation within the female clamp without removal of any part or hardware. The male clamp half shall have an integral cast flange to prevent separation from the female clamp halves. The flange shall match the female to maximize the holding capability of the assembly. Opposite the flange the male clamp half shall have a saddle shape to securely hold a 1-7/8" diameter pipe and have 4 holes to accommodate two 5/16" v-bolts.
- 2. Female Clamp:** The female clamp half shall be cast from 713 aluminum alloy, or equivalent, and be free from casting defects, blemishes, and excessive foundry grinding marks. The female clamp half shall consist of two identical halves which when assembled shall enable the clamp to securely tightened around the arm or pole structure. The female halves shall tighten around the male clamp half with two 7/16"-14 x 1-1/2" bolts. Each female half shall be machined for and supplied with a cable tightening pad. This pad shall be reinforced and profiled to fit a 3/16" cable and be machined for four 1/4"-20 bolts and lock washers. Above the pad locations, casting shall be arched to maximize holding power onto support structure when tightened. Below the pad location shall be a slotted reinforced pawl that receives a clamp screw and bearing washer. This clamp screw and bearing washer, when inserted into the pawl, will allow tightening around various shapes and sizes of structures.

(continued on page 2 of 2)

SPECIFICATION

Stellar Clamp Kit, Cable Mount

(continued from page 1 of 2)

3. **Cable Sub-Assembly:** The one-piece, 3/16" minimum diameter 7 x 19 stranded steel aircraft type cable shall be fabricated to RR-W-410E Federal specifications. If galvanized, each strand of wire shall be galvanized before fabricating the stranded cable. The two ends of the galvanized, or stainless, cable shall have threaded 7/16"-14 UNC stainless steel cable ends with hexagonal shapes that serve as wrench flats for tightening the hardware. The hardware shall consist of 2 each stainless steel flat washers, stainless steel hex nuts, and aluminum bearing washers. The curved shape of the bearing washer shall fit the shape of the pawl area in the female casting to provide a flat bearing surface for the flat washer and hex nut when tensioning the cable.
4. **V-Bolt Kit:** Each clamp kit shall have a v-bolt kit packaged in a plastic bag. Each bag shall contain two 5/16"-18 stainless steel v-bolts, shaped to securely hold a 1-7/8" diameter pipe in the male clamp half and have four stainless steel hex nuts and four split lock washers. Each v-bolt shall be visibly notched for easy identification of the manufacturer.
5. **Hardware:** Each clamp kit shall be complete with all bolts, nuts, and washers to allow installation of the clamp kit to an assembly and the assembly to the structure.

FINISH:

1. The steel hardware, if not stainless, shall be zinc plated per ASTM B633 or galvanized per ASTM A-123.
2. The aluminum surfaces shall be properly cleaned to remove the oils, dirt, oxides, and smudges with an immersion wash process that leaves a thin oxide coating that enhances the castings resistance to atmospheric corrosion. (Ref: Pelco Spec Section L Bulletin 3112).
3. If a paint color is required, the aluminum alloy and die cast components shall be powder coated with an exterior grade of Polyester TGIC resin that meets the corrosion requirements AAMA 2603-02 and ASTM B117. (Ref: Pelco Specification Section L Bulletin 3099).

OPTIONS: *(may be specified)*

1. For corrosion resistance, the cable assembly shall be Type 304 stainless steel wire rope (instead of galvanized steel).
2. Installation Instructions, which include hardware torque values, must be packaged with every clamp kit.
3. Technical information and test data shall be available for application engineering on the intended use of the clamp kit.
4. Component and hardware material certifications shall be made available (if requested before the clamp kit is manufactured).





www.pelcoinc.com
 EDMOND, OK 73013
 405-340-3434
 FAX: 405-340-3435

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ASSEMBLY SHEET

REF:

TITLE:

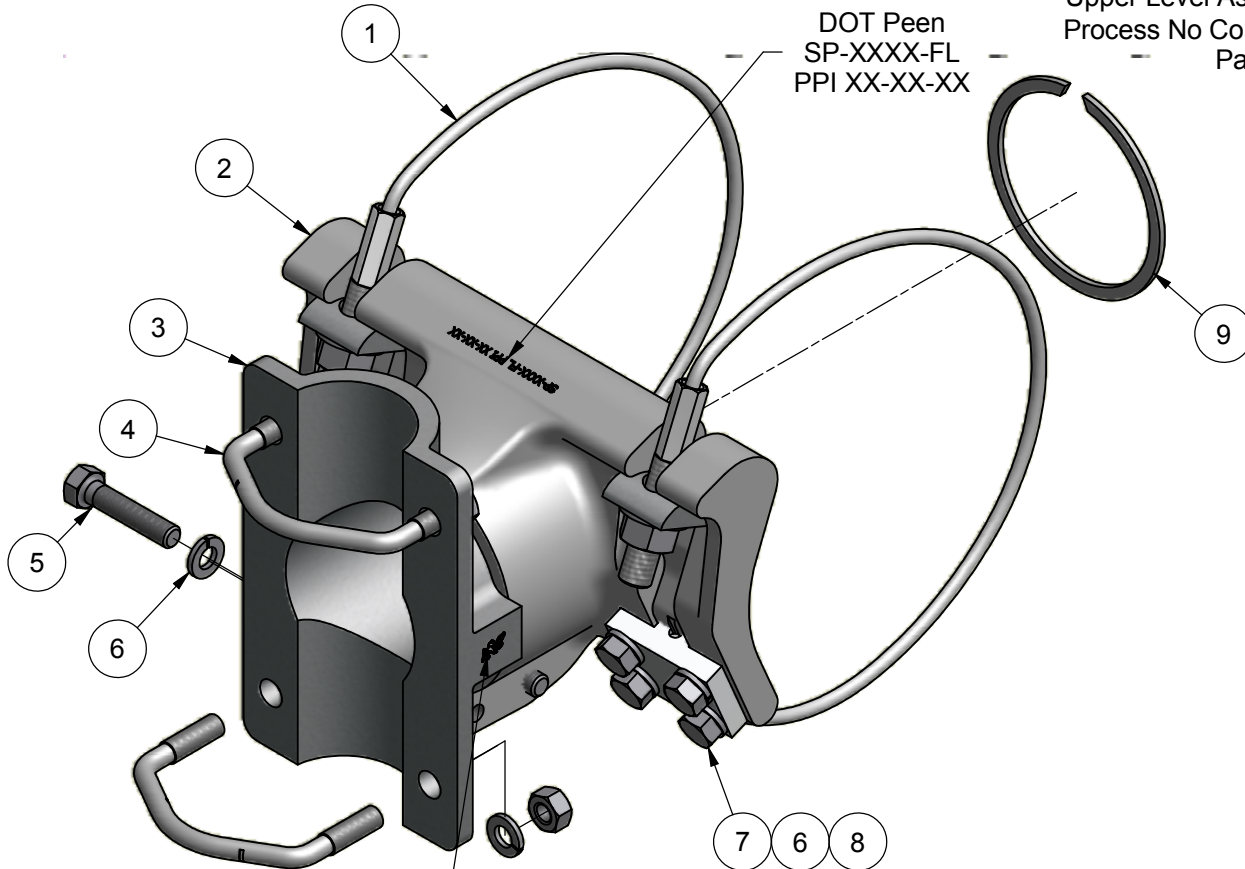
Astro-Brac Clamp Kit, Stainless Cable Mount

PART NO.:

SP-1004-FL

PART NO
 SP-1004-FL-120-XXXX-PNC

Cable Length
 Florida Marking for
 Upper Level Assy
 Process No Color=PNC
 Paint=PXX



DOT Peen
 SP-XXXX-FL
 PPI XX-XX-XX



PART NO	MARKED AS
SP-1004-FL-L-PNC	SP-1004-FL
SP-1004-FL-L-1006	SP-1006-FL
SP-1004-FL-L-1010	SP-1010-FL
SP-1004-FL-L-1045	SP-1045-FL
SP-1004-FL-L-1046	SP-1046-FL
SP-1004-FL-L-1008	SP-1008-FL

OPTIONS
Cable Length:
62" Fits 4"-8.6" Pole Dia
84" Fits 4"-11.6" Pole Dia
96" Fits 4"-14.6" Pole Dia
120" Fits 4"-16" Pole Dia.
Paint

ITEM	PART NUMBER	DESCRIPTION	QTY
1	AB-0320-L	Cable Assy, Astro-Brac, Stainless Cable End & Cable	1
2	AB-0354-M2	Clamp, Female Astro-Brac Cable Mount, Alum	1
3	AB-0265-M1	Clamp, Male Astro-Brac, Alum	1
4	AB-0256-SS	Kit, V-Bolt, 5/16"-18, Stainless	1
5	FS-2025-SS	Bolt, Hex Hd Tap, 5/16"-18 x 1-1/2" , Type 304 Stainless	2
6	FS-4201-SS	Lock Washer, Split, 5/16", Type 304 Stainless	10
7	FS-2098-SS	Bolt, Hex Hd, 5/16"-18 x 7/8", Type 304 Stainless	8
8	AB-0339-1.19	Extrusion, Cable Clamp Plate, 6063-T6 Alum, 1.190" Length	2
9	AB-0263-SS	Retaining Ring, 2-7/8", 316 Stainless	1



PH: 405-340-3434
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 Edmond, OK 73013
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ASSEMBLY SHEET

REF:
 State of Florida

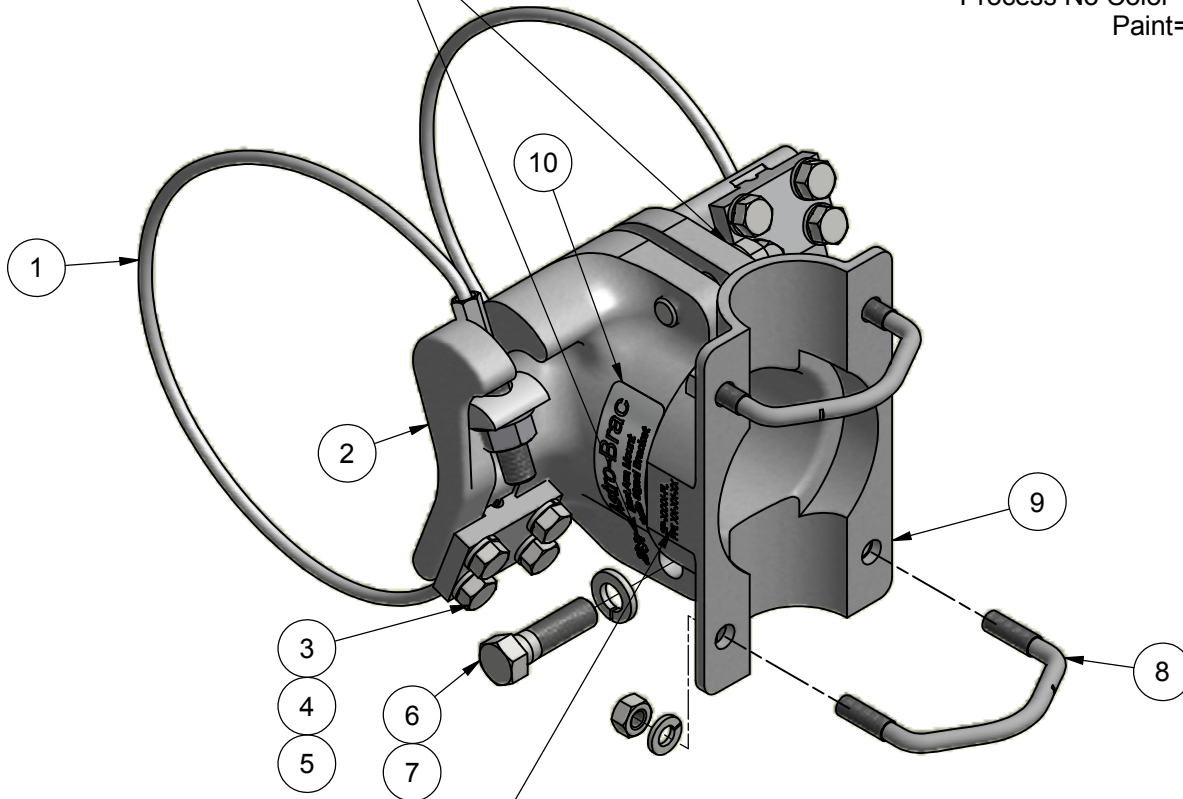
TITLE:
 Astro-Brac Stellar Clamp Kit, Cable Mount w/
 Stainless Cable and Hardware, Alum, Cert#
 65919242011033

PART NO.:
 SP-1079-FL

Pelco Pelican Stamp
 (Each Female Clamp)

PART NO
 SP-1079-FL-62-PNC

Cable Length
 Process No Color=PNC
 Paint=PXX



DOT Peen
 SP-XXXX-FL
 PPI XX-XX-XX

Part No.	Marked As
SP-1079-FL-L-PNC	SP-1079-FL
SP-1079-FL-L-1006	SP-1006-FL
SP-1079-FL-L-1008	SP-1008-FL
SP-1079-FL-L-1010	SP-1010-FL
SP-1079-FL-L-1045	SP-1045-FL
SP-1079-FL-L-1046	SP-1046-FL
SP-1079-FL-L-1106	SP-1106-FL
SP-1079-FL-L-1110	SP-1110-FL

OPTIONS
Cable Length:
62" Fits 4"-8.6" Pole Dia
84" Fits 4"-11.6" Pole Dia
96" Fits 4"-14.6" Pole Dia
120" Fits 4"-18" Pole Dia

ITEM	PART NUMBER	DESCRIPTION	QTY
1	AB-0320-L-SS	Cable Assy, Astro-Brac, Stainless Cable End & Cable	1
2	AS-0346-M2	Clamp, Female Stellar Astro-Brac, Cable Mount, Alum	2
3	FS-2098-SS	Bolt, Hex Hd, 5/16"-18 x 7/8", Type 304 Stainless	8
4	FS-4201-SS	Lock Washer, Split, 5/16", Type 304 Stainless	8
5	AB-0339-1.19	Extrusion, Cable Clamp Plate, 6063-T6 Alum, 1.190" Length	2
6	FS-2125-SS	Bolt, Hex Hd, 7/16"-14 x 1-1/2", Type 304 Stainless	2
7	FS-4213-SS	Lock Washer, Split, 7/16", Type 304 Stainless	2
8	AB-0256-SS	Kit, V-Bolt, 5/16"-18, Stainless	1
9	AS-0347-M1	Clamp, Male Stellar Astro-Brac, Alum	1
10	O-3009	Label, Astro-Brac Mast Arm Mount, White On Clear Laminate	1

PelcoVertical.dwg 9/12/2013