

CABLE DRAWING: MWA-3026

DRAWING TITLE:  
**Power Supply DC Switch Cable**

DRAWING NO.: MWACAB-0026	DRAWN BY: DRC	DATE: 2-Nov-10	REV: A
		SHEET: 1 of 3	

**Cable Detail:**

Connectors:	Description	Parts (Qty)
PSU-DCS-S	TYCO/AMP - 102241-1 Crimp Housing, 3Way	See Note1 Below(1)
PSU-DCS-P	TYCO/AMP - 87667-5 - Crimp Socket, 26-22AWG	See Note2 Below(3)
Conductors:	PTFE-26AWG-BLACK, 7/0.15 strands, 4A	See Note3 Below(30cm)

Overall Length 90+/-5mm

**Notes:**

1. The Housing can be supplied from Element14 #182-2573. Any equivalent will be OK refer to data sheets supplied with this drawing.
2. The Housing Pins can be supplied from Element14 #973-294. Any equivalent will be OK, but must match the housing refer to data sheets supplied with this drawing.
3. The wire can be supplied from Element14 #118-4006 or PSI # PC-0071. Any equivalent will be OK, but must match the housing refer to data sheets supplied with this drawing.

**Typical Drawing:**



**Tyco/Amp  
87667-5  
Element14 # 973-294**

**Tyco/AMP  
102241-1  
Element14 #182-2573**

**REVISION**

Date	Rev	Remarks
18/12/09	A	Draft
21/07/10	A	For Release
02/11/10	A	Salem Version – Farnell to Element14

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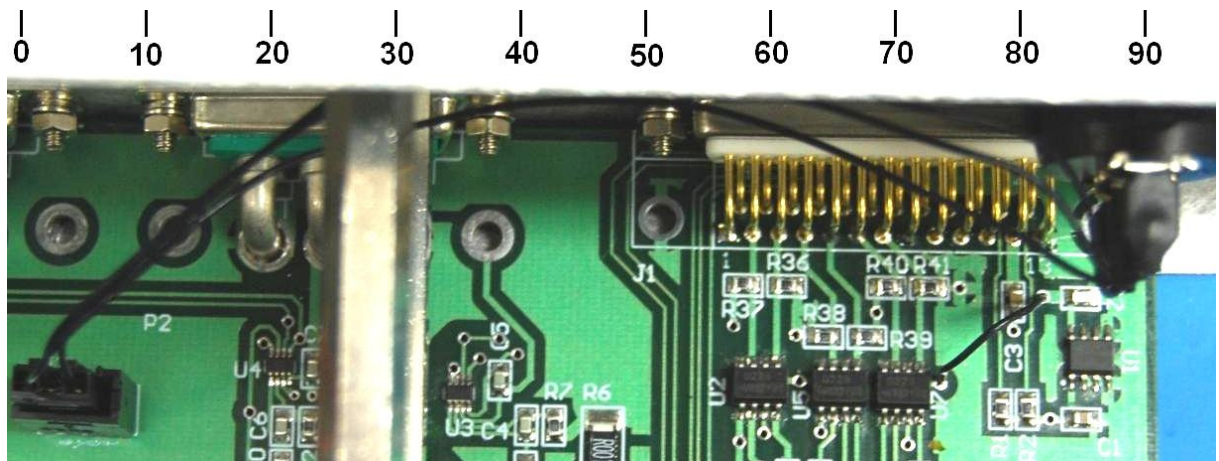
DATE: 2-Nov-10

SHEET: 2 of 3

REV:

A

**Typical Photo: (Cable Fitted)**



**Connection Table:**

PSU-DCS	Description	DC Switch
Pins(3)		Pins(3)
1	+5mcc	1
2	NO	2
3	LED K	3

**Connection Detail:**

From: (PSU-DCS) Attached to the PSU DCS connector  
 To: (DC Switch) Attach to the DC Switch Pins

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		SHEET: 3 of 3	

**Assembly Details:**

**CRIMPING & STRIPPING**

**Wire Preparation**

The wire must be stripped to the dimension provided in Figure 2.

*Do not nick, scrape, or cut the wire conductor during the stripping operation.*

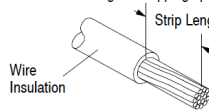
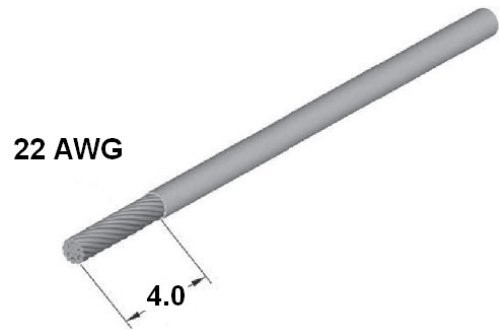


Figure 2

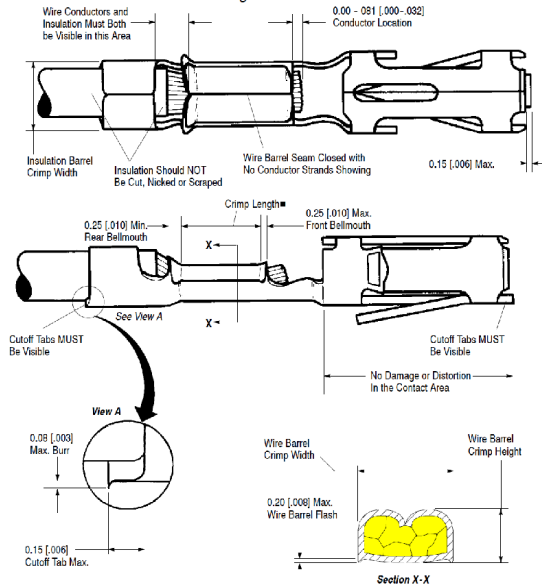
WIRE SIZE RANGE, (AWG)	INSUL DIA MAX.	STRIP LENGTH	WIRE BARREL		INSUL BARREL CRIMP WIDTH
			CRIMP HEIGHT	CRIMP WIDTH	
20	•	4.78-3.58	0.94-0.72	1.4	1.57
22	•	4.78-3.58	0.84-0.72		
24	•	4.78-3.58	0.83-0.64		
22	1.55	4.37-2.77	0.97-0.81	1.07	
24	1.55	4.37-2.77	0.86-0.71		
26	1.55	4.37-2.77	0.81-0.71		
26-30	1.22	4.37-2.77	0.74-0.64	1.4	1.4
27, 28	1.02	4.37-2.77	0.61-0.51	0.84	
30, 32	1.02	4.37-2.77	0.61-0.48		



**Crimp Length**

For optimum crimp effectiveness, the crimp must be within the area shown and must meet the crimp dimensions provided in Figure 3. Effective crimp length shall be defined as that portion of the wire barrel, excluding bellmouth(s), fully formed by the crimping tool.

Figure 3



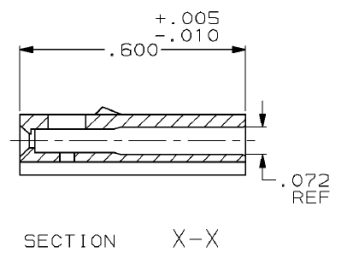
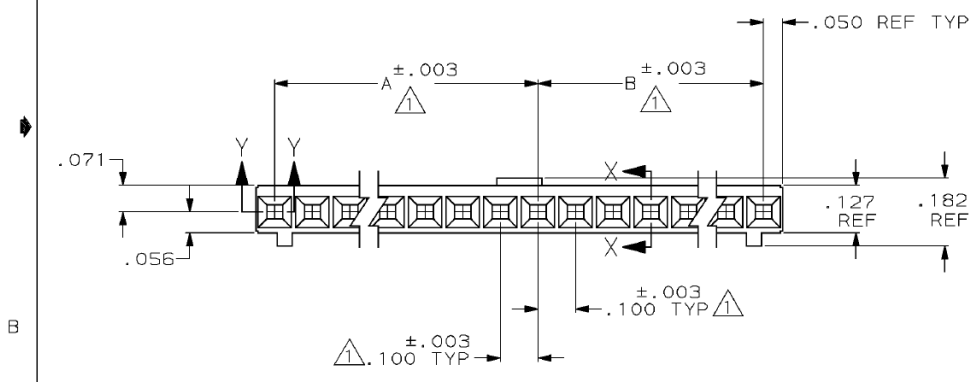
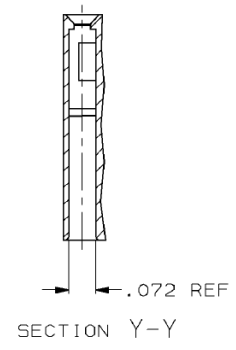
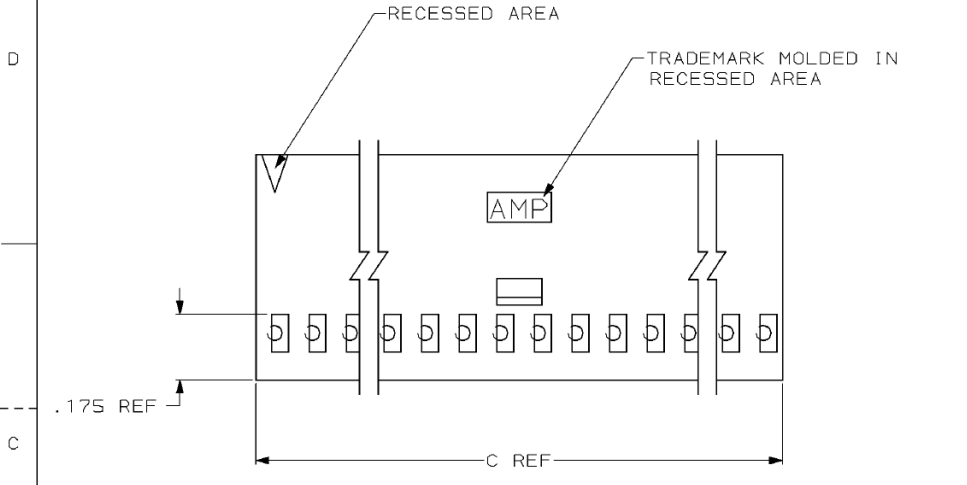
**NOTE:** Comparing a crimped contact to an uncrimped contact should reveal any fault that may have occurred to front shoulder or locking lances during crimping.

■ Effective crimp length shall be 2.67 mm minimum for 20-24 AWG wire, and 2.16 mm minimum for all other wire sizes; and is defined as that portion of the wire barrel fully formed by the tool, excluding the bellmouths.

**REVISION**

Date	Rev	Remarks
18/12/09	A	Draft
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LOC	DIST	P	F	ZONE	LTR	DESCRIPTION	DATE	APPD
AD	39							
				C		REV LOC & DIST AD-4171	3-90	BF
				D		OBS PER 0010-0743-93	9/14/93	PS
				E		OBS PER 0010-1031-93	12-7-93	PS
				F		OBS PER 0010-1049-93	12-7-93	PS
				G		REACT. -11 PER 0010-1231-94	8-23-94	PS
				H		REACT. -26 PER 0010-1273-94	8-23-94	PS
				J		REV PER 0010-0641-95	5-18-95	PS
				K		REV PER 0010-0187-95	1-24-96	SAS
				L		REV PER 0310-0074-97	3-5-97	JS
				M		REV PER 0310-0484-97	2-6-98	BS



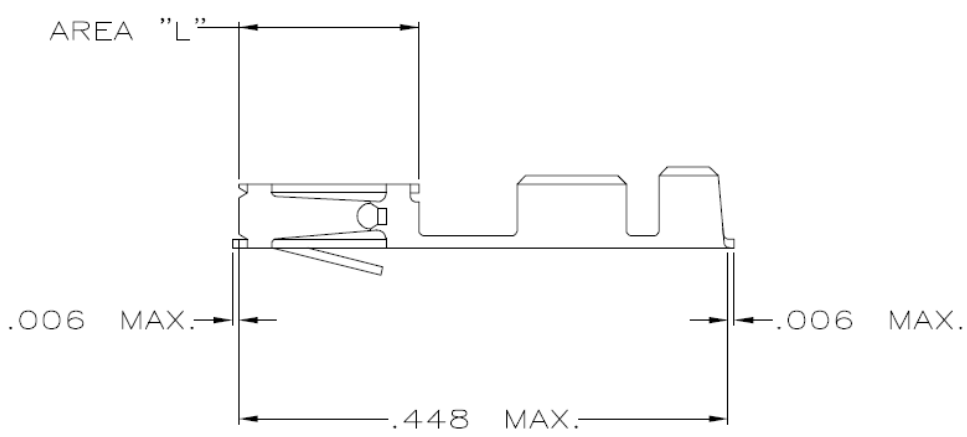
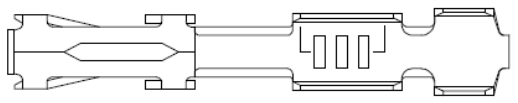
3.600	1.700	1.800	36	3-102241-4
3.500	1.700	1.700	35	3-102241-3
3.400	1.600	1.700	34	3-102241-2
3.300	1.600	1.600	33	3-102241-1
3.200	1.500	1.600	32	3-102241-0
3.100	1.500	1.500	31	2-102241-9
3.000	1.400	1.500	30	2-102241-8
2.900	1.400	1.400	29	2-102241-7
2.800	1.300	1.400	28	2-102241-6
2.700	1.300	1.300	27	2-102241-5
2.600	1.200	1.300	26	2-102241-4
2.500	1.200	1.200	25	2-102241-3
2.400	1.100	1.200	24	2-102241-2
2.300	1.100	1.100	23	2-102241-1
2.200	1.000	1.100	22	2-102241-0
2.100	1.000	1.000	21	1-102241-9
2.000	.900	1.000	20	1-102241-8
1.900	.900	.900	19	1-102241-7
1.800	.800	.900	18	1-102241-6
1.700	.800	.800	17	1-102241-5
1.600	.700	.800	16	1-102241-4
1.500	.700	.700	15	1-102241-3
1.400	.600	.700	14	1-102241-2
1.300	.600	.600	13	1-102241-1
1.200	.500	.600	12	1-102241-0
1.100	.500	.500	11	102241-9
1.000	.400	.500	10	102241-8
.900	.400	.400	9	102241-7
.800	.300	.400	8	102241-6
.700	.300	.300	7	102241-5
.600	.200	.300	6	102241-4
.500	.200	.200	5	102241-3
.400	.100	.200	4	102241-2
.300	.100	.100	3	102241-1
C	B	A	NO OF POS	PART NUMBER

- ① CAVITY LOCATION DIMENSIONS INCREASE IN INCREMENTS OF .100 TOLERANCE NON-CUMULATIVE
- ② USE EXTRACTION TOOL 91052-1 TO REMOVE RECEPTACLE CONTACTS
- ③ OBSOLETE PART NUMBER

DO NOT SCALE PRINT. UNLESS SPECIFIED DIMENSIONS IN INCHES TOLERANCES ON: 2 PLC DEC ± - 3 PLC DEC ± .005 ANGLES ± -		DR 8-2-78 D FABIAN		AMP INCORPORATED Harrisburg, Pa. 17105	
MATERIAL FLAME RETARDANT GLASS FILLED NYLON COLOR: BLACK		CHK 10-27-78 B WOLFE			
FINISH -		APPD 10-27-78 D LITTLE		NAME CONN HOUSING, CRIMP SNAP-IN MOD IV, SINGLE ROW, .100 CENTERS, WITH POLARIZATION & DETENTS	
APPLICATION SPEC -		APPD 10-27-78 J MULLIGAN		DRAWING NO 102241	
WEIGHT -		PRODUCT SPEC -		SHEET 1 OF 1	
SIZE <b>C</b>		FSCM NO 00779		PART NO	
SCALE -		-		CUSTOMER DRAWING	

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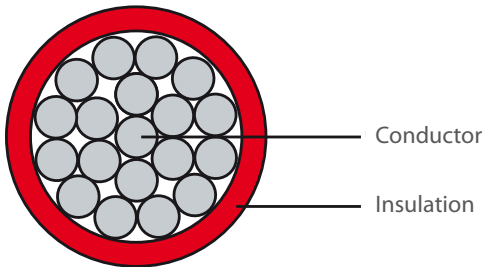
LOC	DIST	REVISIONS					
AD	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		B		RELEASED	-	-	-



1. LOOSE PIECE TERMINAL MUST MEET ALL APPLICABLE STRIP SPECIFICATIONS IN ADDITION TO THOSE SHOWN.
2. .000030 MIN. GOLD OVER .000050-.000100 NICKEL.
3. GOLD FLASH OVER .000050-.000100 NICKEL .000030 GOLD ON CONTACT AREA.
4. PREPLATING: .000078-.000158 BRIGHT TIN (HALT) PER 112-20-6
5. .000050 GOLD OVER .000050-.000100 NICKEL.
6. GOLD FLASH OVER .000050-.000100 NICKEL .000015 GOLD ON CONTACT AREA.
7. GOLD FLASH ON AREA "L" .000050 GOLD ON CONTACT AREA. ALL OVER .000050-.000100 NICKEL ENTIRE CONTACT.

		-	-
OBSOLETE	7	1-87666-6	87667-6
	6	87666-5	87667-5
	5	87666-4	87667-4
	4	87666-3	87667-3
	3	87666-2	87667-2
	2	87666-1	87667-1
FINISH		MAKE FROM STRIP PART NO.	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	M.BINNER	27JUN06	<b>tyco</b> Electronics	Tyco Electronics Corporation	
		CHK	D.ROHDE	27JUN06		Harrisburg, PA 17105-3608	
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD	D.ROHDE	27JUN06	NAME	CONTACT, FEMALE, MOD IV, CRIMP SNAP-IN (LOOSE PIECE)	
INCHES		PRODUCT SPEC			SIZE	CAGE CODE	DRAWING NO
	0 PLC ± -	APPLICATION SPEC			A3	00779	87667
	1 PLC ± -				RESTRICTED TO		
	2 PLC ± .02				SCALE	8:1	SHEET 1 OF 1
	3 PLC ± .005				REV	B	
	4 PLC ± .0005						
	ANGLES ± 0°30'						
MATERIAL	FINISH	WEIGHT					
SEE TABLE	SEE TABLE	-					
		CUSTOMER DRAWING					



### PTFE INSULATED EQUIPMENT WIRE TO BS 3G 210 UNSCREENED TYPE A AND NA

Size	Number of Strands	Nominal diameter of strands mm	Nom. diameter of conductor mm	Max Resistance $\Omega/\text{km}$ @ 20°C		Max Weight Kg/km
				A	NA	
30	1	0.250	0.250	377.0	387.0	0.96
28	1	0.320	0.320	229.0	234.0	1.32
26	1	0.400	0.400	146.0	148.0	1.83
32	7	0.080	0.240	558.0	65.0	0.84
30	7	0.100	0.300	353.0	28.6	1.10
28	7	0.120	0.360	244.0	258.0	1.40
26	7	0.150	0.450	159.0	166.0	1.96
24	7	0.200	0.600	88.30	91.2	3.04
26	19	0.100	0.500	130.0	139.0	2.26
24	19	0.120	0.600	89.8	94.9	2.99
22	19	0.150	0.750	58.6	61.3	4.41
20	19	0.200	1.000	32.5	33.6	7.19

#### PRODUCT CHARACTERISTICS:

PTFE insulated conductors are widely used for internal and external connectors for electronic equipment and instrumentation or environments that demand high levels of thermal, chemical, electrical or mechanical protection.

PTFE is highly resistant to oils, lubricants, fuels and is non flammable whilst being very flexible.

If required for termination, PTFE cables can be surface treated, or 'etched'.

#### PRODUCT CHARACTERISTICS:

##### Cable Characteristics

Temperature rating:	Type A - 190°C
	Type NA - 260°C
Voltage rating:	300 Volts

Available in a wide range of ROHS compliant solid and bi-colours.