

CABLE DRAWING: **CAB-0XXX (SALEM CODE)**

DRAWING TITLE:  
**SBC RJ45 Internal Cable**

DRAWING NO.: <b>MWACAB-0033</b>	DRAWN BY: <b>DRC</b>	DATE: 5-Jan-10	REV: <b>A</b>
		SHEET: 1 of 3	

**Cable Detail:**

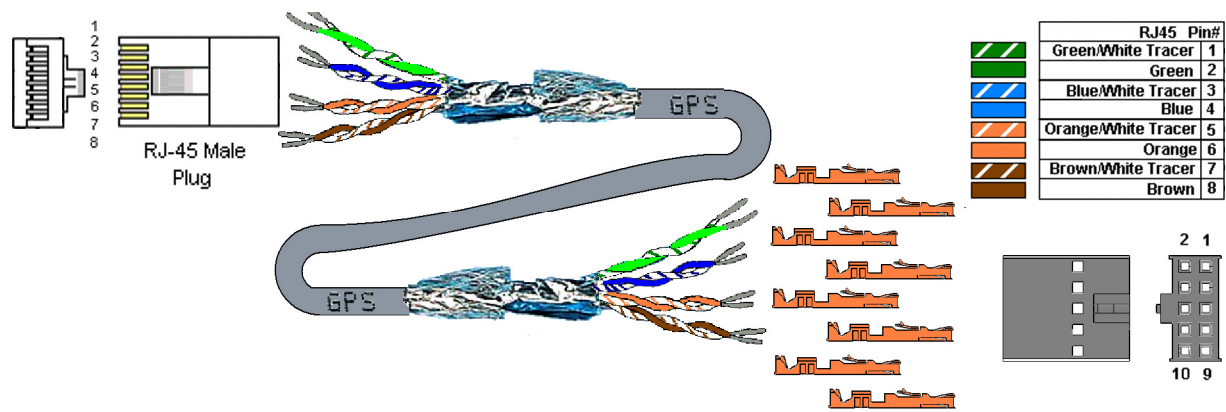
Connectors:	Description	Parts (Qty)
SBC-FP	Plug RJ45 TYCO 5-569552-3	See Note1 Below(1)
SBC-P4/6	MOLEX – 90142-0010 – Housing - 2row 10Way	See Note2 Below(1)
SBC-P4/6	Crimp Socket, 22-24AWG MOLEX 90119-2110	See Note3 Below(8)
Conductors:		
	Shielded Ethernet Cable REX GPS	See Note4 Below(?)

Overall Length ??+/-5mm

**Notes:**

1. The RJ-45 Plug can be supplied from Farnell #120-5942. Any equivalent will be OK refer to data sheets supplied with this drawing.
2. The Housing can be supplied from Farnell #392-1583. Any equivalent will be OK refer to data sheets supplied with this drawing.
3. The Housing Pins can be supplied from Farnell #973-3272. Any equivalent will be OK, but must match the housing refer to data sheets supplied with this drawing.
4. The cable can be supplied from Farnell #126-8071. Any equivalent will be OK, but must match the housing refer to data sheets supplied with this drawing.

**Typical Drawing:**



**REVISION**

Date	Rev	Remarks
05/01/10	A	Draft



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		SHEET: 2 of 3	

**Connection Table:**

SBC FP Pins(8)	Description		SBC-P4/6 Pins(10)
	P4	P6	
1	SDA	SCTN1	1
2	Shield	SCTN2	2
3	SCL	NC	3
4	+3V3	NC	4
5	+3V3	NC	5
6	+5V	NC	6
7	+5V	NC	7
8	0V	NC	8
	NC	NC	9
	NC	NC	10

**Connection Detail:**

From: (SBC FP) Attached to the SBC Front Panel  
To: (SBC PCB P4/6) Attach to the SBC PCB P4/6

Note: This cable is used in two places. P4 is CLK-Mod I2C and P6 is SCTN.

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**SBC RJ45 Internal Cable**

DRAWING NO.:  
MWACAB-0033

DRAWN BY:  
DRC

DATE: 5-Jan-10

SHEET: 3 of 3

REV:

**A**

**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.*

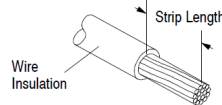


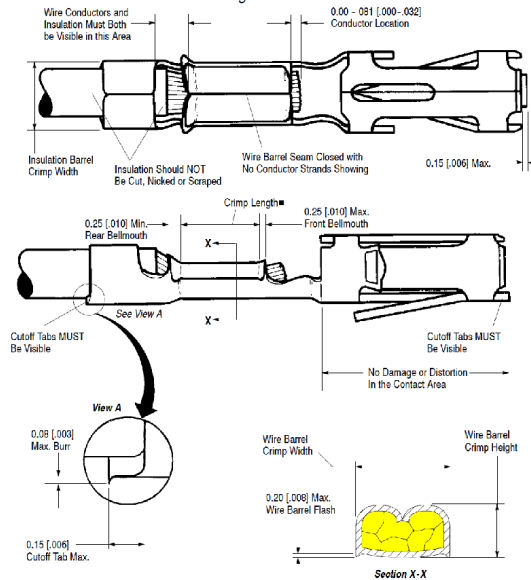
Figure 2

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.

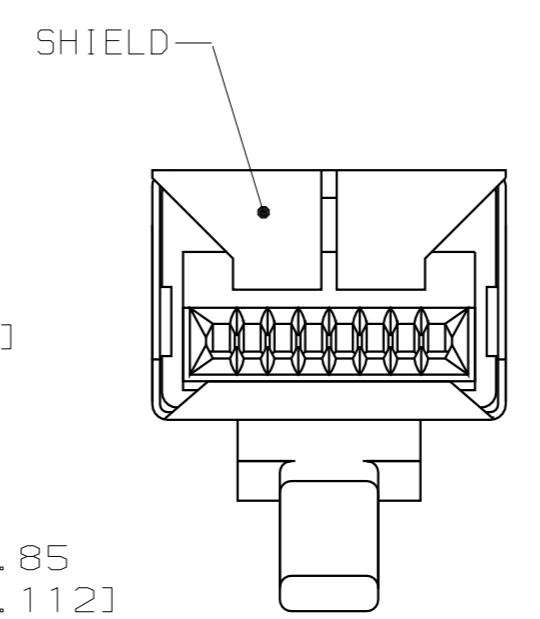
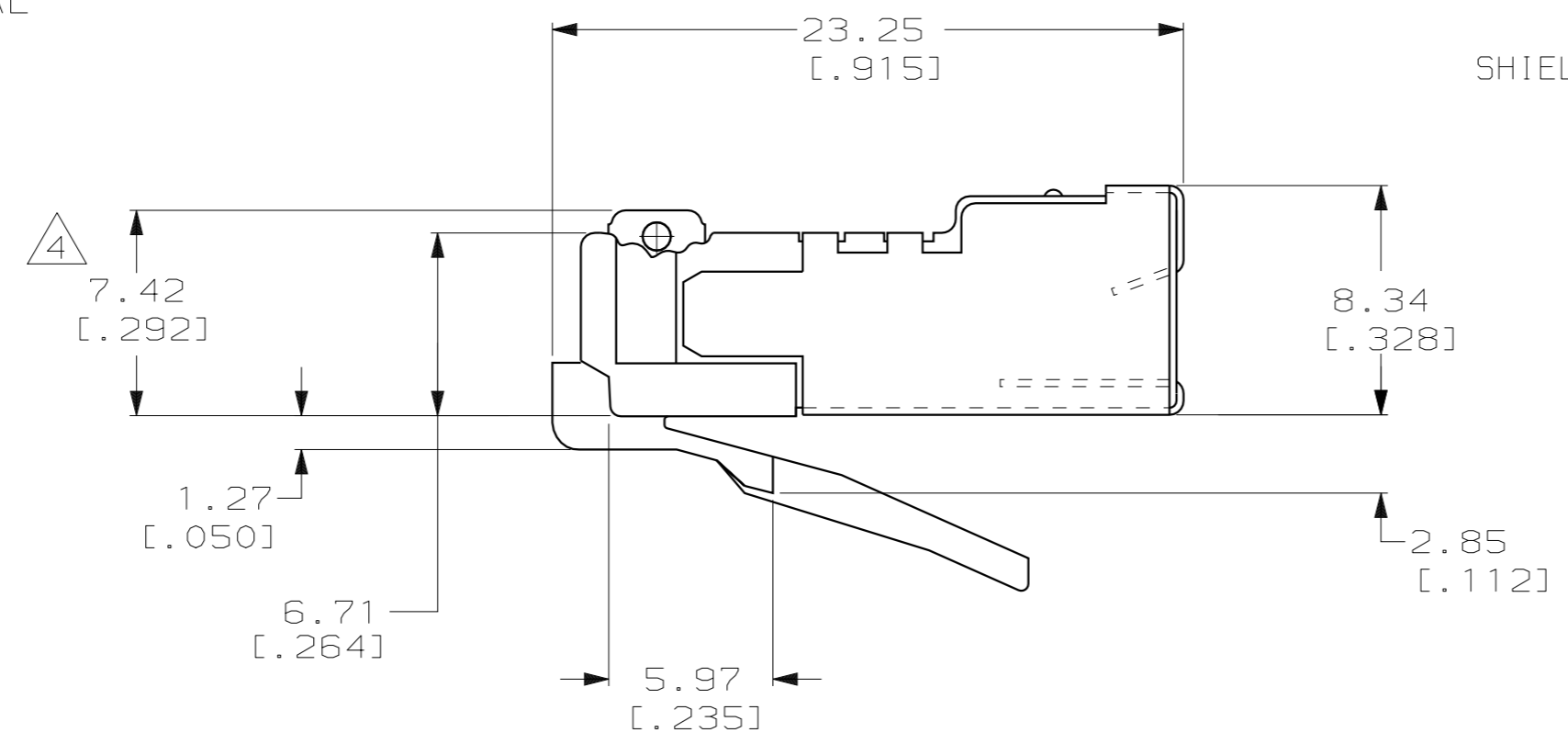
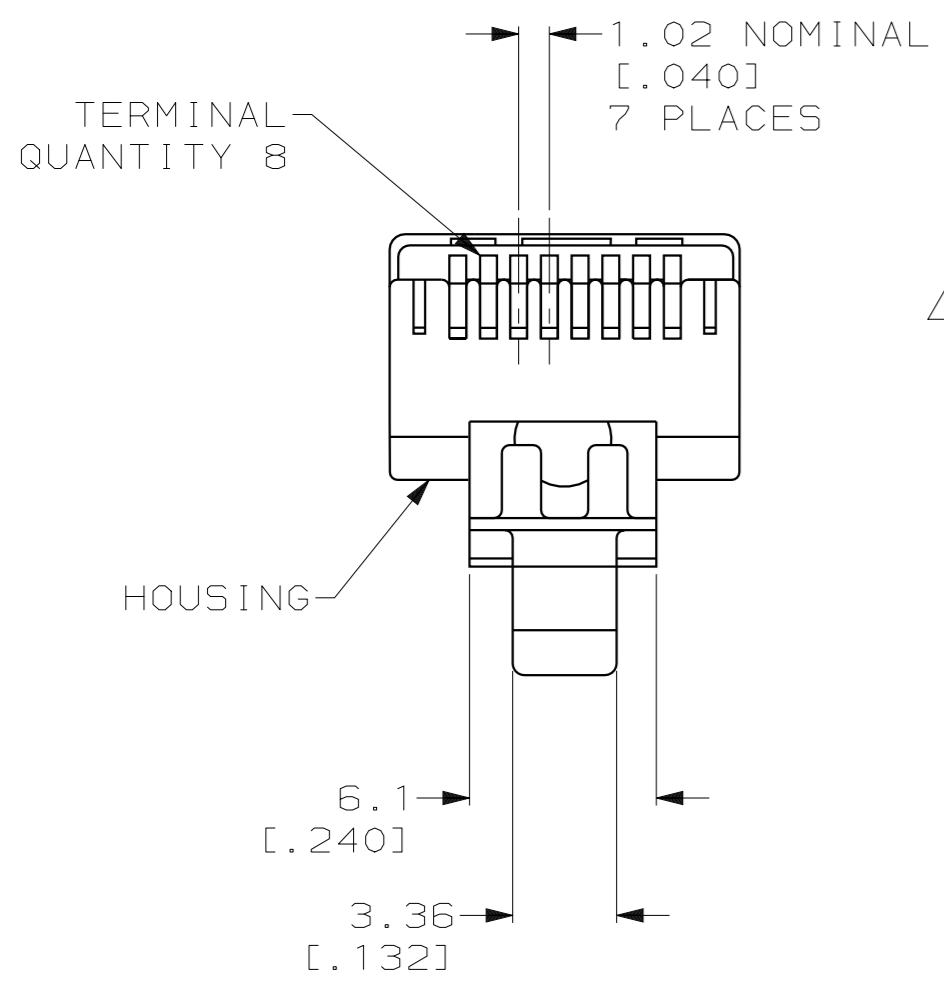
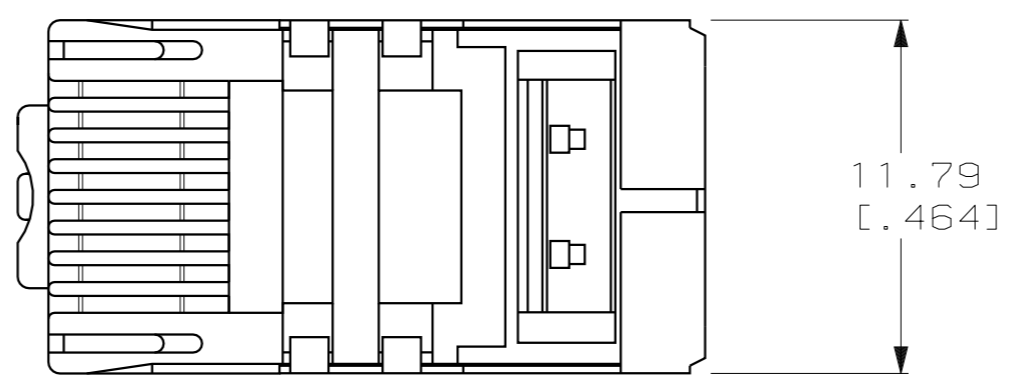
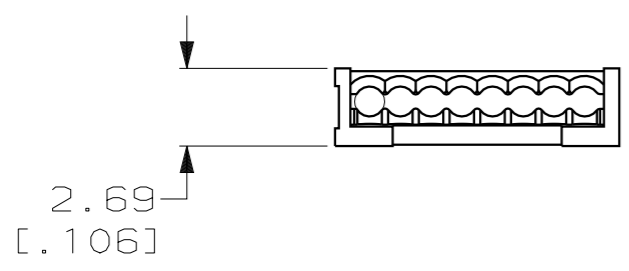
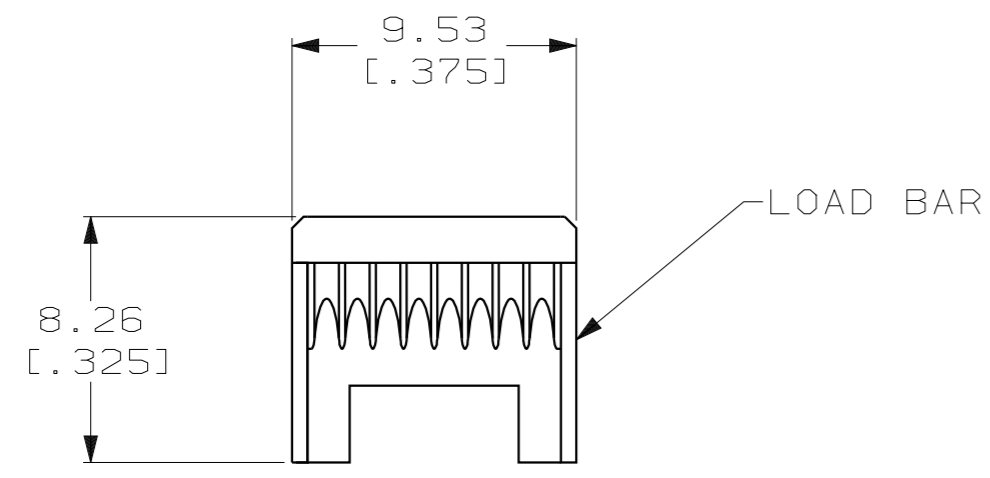
Effective crimp length shall be 2.67 mm minimum for 20-24 AWG wire, and 2.16 mm minimum for all other wire sizes; and is defined as that portion of the wire barrel fully formed by the tool, excluding the bellmouths.

**REVISION**

Date	Rev	Remarks
05/01/10	A	Draft

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LOC	DIST	REVISIONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD
AA	22	A	REVISED PER EC 0515-0123-03	11APR03	DD EL



- 1 DIMENSIONS ARE MAXIMUM UNLESS OTHERWISE SPECIFIED.
- 2 MATERIAL: HOUSING - POLYCARBONATE, CLEAR  
 TERMINAL - PHOSPHOR BRONZE, PLATED WITH 1.27µm [.000050] MINIMUM THICK GOLD IN LOCALIZED GOLD PLATE AREA, GOLD FLASH OVER THE REMAINDER, OVER 2.54µm [.000100] MINIMUM THICK NICKEL UNDERPLATE.  
 SHIELD - COPPER ALLOY WITH 1.27µm [.000050] MINIMUM SEMI-BRIGHT (SATIN) NICKEL.  
 LOAD BAR - PBT POLYESTER, BLACK.
- 3. PLUG WILL ACCEPT A 24 OR 26 AWG STRANDED CONDUCTOR, PROVIDED THE INSULATED CONDUCTOR DIAMETER IS 0.89 [.035] TO 0.99 [.039] WITH A SHIELDED, PLIABLE, LOOSE CABLE JACKET OF 4.83 [.190] TO 5.21 [.205] DIAMETER OR A SHIELDED, RIGID, HARD CABLE JACKET OF 4.83 [.190] TO 5.08 [.200] DIAMETER.
- 4 TERMINATED DIMENSION 6.15 [.242] MAXIMUM.
- 5 PACKAGED 500 ASSEMBLIES AND 500 LOAD BARS PER CARTON.
- 6 PACKAGED 100 ASSEMBLIES AND 100 LOAD BARS PER BOX.
- 7 PACKAGED 25 ASSEMBLIES AND 25 LOAD BARS PER BAG.

LEAD FREE

7	5-569552-4
6	5-569552-3
5	5-569552-2
PACKAGED	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT FOR AMP INCORPORATED. IT IS SUBJECT TO CHANGE AND THE CONTROLLING ENGINEERING ORGANIZATION SHOULD BE CONTACTED FOR THE LATEST REVISION.		DWN G. GARRETT 10-12-95	AMP Incorporated Harrisburg, PA 17105-3608	
DIMENSIONS: mm [INCHES]		CHK C. WHITT 10-31-95	NAME	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD E. LAURER 11-7-95	PRODUCT SPEC	
0 PLC ±	1	108-1163		
1 PLC ±	2	APPLICATION SPEC		
2 PLC ±	3	114-6053		
3 PLC ±	4	WEIGHT		
4 PLC ±	ANGLE	-		
FINISH	2	CUSTOMER DRAWING		
MATERIAL		SIZE A2	CAGE CODE 00779	DRAWING NO C-569552
		SCALE 4:1	SHEET 1 OF 1	REV A

569552

**FEATURES AND SPECIFICATIONS**

**Features and Benefits**

- Sizes 6 to 64 circuits
- Polarized
- Friction lock

**Reference Information**

Product Specification: PS-99020-0001  
 Packaging: Bag  
 Mates With: 90122, 90130 and 90131  
 Use With: 90119  
 Designed In: Inches

**Electrical**

Voltage: 350V  
 Current: 3.0A max.  
 Contact Resistance: 20mΩ max.  
 Insulation Resistance: 1000 MΩ min.

**Mechanical**

Contact Retention to Housing: 15N min.  
 Normal Force: 1N

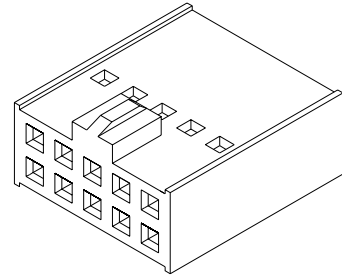
**Physical**

Housing: Black polyphenylene oxide, UL 94V-1  
 Operating Temperature: -55 to +105°C



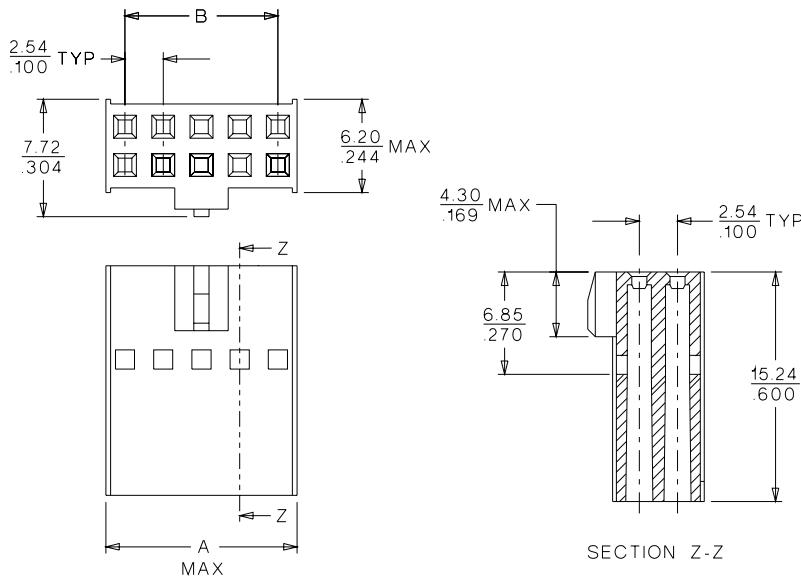
**2.54mm (.100") Pitch  
 C-Grid III™  
 Crimp Connector Housing**

**90142  
 Dual Row**



**CATALOG DRAWING (FOR REFERENCE ONLY)**

**Not For Use With Molex SL™ Components**



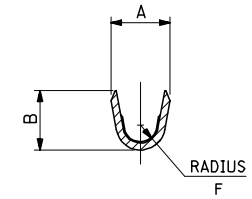
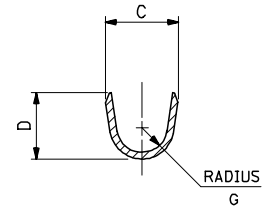
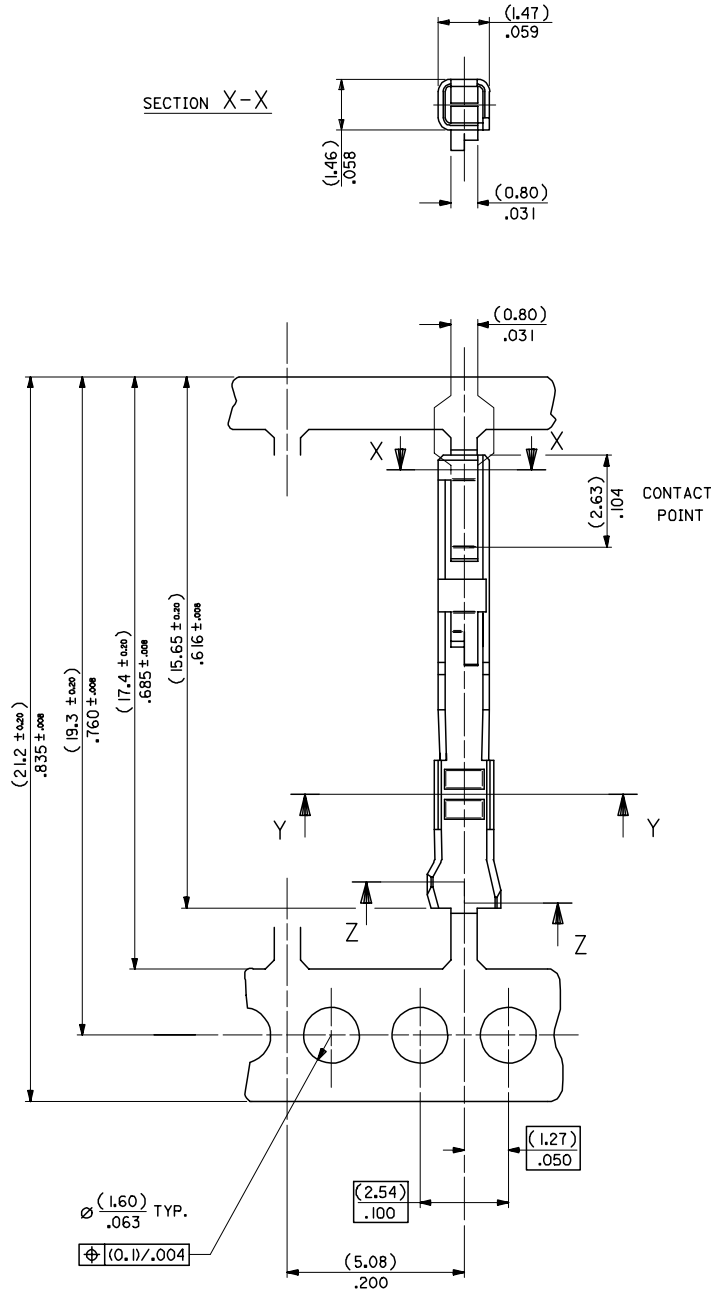
Delivered on a carrier with 20 pieces per strip.  
**Actual Size** **Universal Polarizing Pin 40713-1**  
 Order No. 15-04-0292

**ORDERING INFORMATION AND DIMENSIONS**

Circuits	Order No.	Dimension	
		A	B
6	90142-0006	7.77 (.306)	5.08 (.200)
8	90142-0008	10.31 (.406)	7.62 (.300)
10	90142-0010	12.85 (.506)	10.16 (.400)
12	90142-0012	15.39 (.606)	12.70 (.500)
14	90142-0014	17.93 (.706)	15.24 (.600)
16	90142-0016	20.47 (.806)	17.78 (.700)
18	90142-0018	23.01 (.906)	20.32 (.800)
20	90142-0020	25.55 (1.006)	22.86 (.900)
22	90142-0022	28.09 (1.106)	25.55 (1.006)
24	90142-0024	30.63 (1.206)	27.94 (1.100)
26	90142-0026	33.17 (1.306)	30.48 (1.200)

Circuits	Order No.	Dimension	
		A	B
30	90142-0030	38.25 (1.506)	35.56 (1.400)
34	90142-0034	43.33 (1.706)	40.64 (1.600)
36	90142-0036	45.87 (1.806)	43.18 (1.700)
38	90142-0038	48.41 (1.906)	45.72 (1.800)
40	90142-0040	50.95 (2.006)	48.26 (1.900)
44	90142-0044	56.03 (2.206)	53.34 (2.100)
50	90142-0050	63.65 (2.506)	60.96 (2.400)
54	90142-0054	68.73 (2.706)	66.06 (2.600)
60	90142-0060	76.35 (3.006)	73.66 (2.900)
64	90142-0064	81.43 (3.206)	78.74 (3.100)
68	90142-0068	86.51 (3.406)	83.82 (3.300)

For other available circuit sizes contact Molex



NOTES:

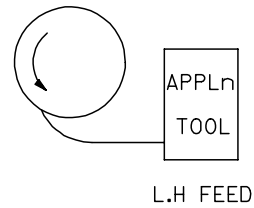
1. MATERIAL -  
PHOSPHOR BRONZE CDA 521  
THICKNESS:  $(0.200)_{-0.008}$   
TENSILE STRENGTH: 655-760 N/mm<sup>2</sup>  
PLATING - SEE SHEET 2
2. FOR DIMENSIONS A, B, C, D, F & G  
SEE SHEET 2
3. FOR WIRE SIZE & INSULATION DIA  
SEE SHEET 2
4. THIS TERMINAL TO MATE WITH  
 $(0.635)_{-0.025}$  SQUARE PIN
5. MAX BURR AFTER CUT-OFF  
 $(0.025)_{-0.001}$

REMOVED LEAD REF. ECN NO. E2006-0155 DRAWN: JDENNEHY 2005/08/29 CHKD: DMORIARTY 2005/08/29 APPR: JDENNEHY 2005/09/05	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION																	
	$\nabla=0$ $\nabla=0$	<table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± .004</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.1</td> <td>± .008</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.2</td> <td>± ---</td> </tr> <tr> <td colspan="3">ANGULAR ± 5°</td> </tr> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± .004	2 PLACES	± 0.1	± .008	1 PLACE	± 0.2	± ---	ANGULAR ± 5°			MM ONLY	10:1	METRIC
	mm	INCH																					
4 PLACES	± ---	± ---																					
3 PLACES	± ---	± .004																					
2 PLACES	± 0.1	± .008																					
1 PLACE	± 0.2	± ---																					
ANGULAR ± 5°																							
DESCRIPTION	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWN BY: NPC DATE: 1987/08/27 CHECKED BY: D.MORIARTY DATE: 2005/08/26 APPROVED BY: JDENNEHY DATE: 2005/08/26	TITLE: C-GRID III FEMALE CRIMP TERMINAL MOLEX INCORPORATED DOCUMENT NO. SD-90119 SHEET NO. 1 OF 2																			
REV	SIZE A2		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																				

10 9 8 7 6 5 4 3 2 1

PART No	PLATING	REELING	WIRE SIZE (AWG)	INSULATION RANGE	CRIMP DIMENSIONS					
					WIRE BARREL			INSULATION BARREL		
					A $\pm \frac{(0.15)}{.006}$	B $\pm \frac{(0.15)}{.006}$	F $\pm \frac{(0.15)}{.006}$	C $\pm \frac{(0.15)}{.006}$	D $\pm \frac{(0.15)}{.006}$	G $\pm \frac{(0.15)}{.006}$
90119-0109	A	L.H FEED	22,24	(1.02-1.47)	(1.70)	(1.70)	(0.51)	(2.10)	(1.90)	(0.70)
-0110	E			.040-.058	.067	.067	0.20	.083	.075	0.27
-0111	F			26,28	(0.76-1.22)	(1.37)	(1.37)	(0.28)	(2.00)	(1.70)
-0120	A		.030-.048		.054	.054	0.11	.079	.067	0.24
-0121	E		22,24		(1.02-1.47)	(1.70)	(1.70)	(0.51)	(2.10)	(1.90)
-0122	F			.040-.058	.067	.067	0.20	.083	.075	0.27
-2109	A	26,28		(0.76-1.22)	(1.37)	(1.37)	(0.28)	(2.00)	(1.70)	(0.60)
-2110	E		.030-.048	.054	.054	0.11	.079	.067	0.24	
-2111	F		LOOSE PIECE PARTS	(1.02-1.47)	(1.70)	(1.70)	(0.51)	(2.10)	(1.90)	(0.70)
-2120	A	.040-.058		.067	.067	0.20	.083	.075	0.27	
-2121	E	22,24		(0.76-1.22)	(1.37)	(1.37)	(0.28)	(2.00)	(1.70)	(0.60)
90119-2122	F		.030-.048	.054	.054	0.11	.079	.067	0.24	

TYPE	PLATING
A	PRE-PLATED HOT DIP TIN (1.0 to 2.5 um)/.00004 TO .0001
E	(1.27 TO 1.78um)/.00005 TO .00007 NICKEL OVERALL. (0.38 TO 0.64um)/.000015 TO .000025 GOLD ON CONTACT AREA. (3.0 TO 5.0 um)/.00012 TO .0002 TIN ON TERMINATION AREA.
F	(1.27 TO 1.78um)/.00005 TO .00007 NICKEL OVERALL. (0.76 TO 01.0 um)/.00003 TO .00004 GOLD ON CONTACT AREA. (3.0 TO 5.0 um)/.00012 TO .0002 TIN ON TERMINATION AREA.



REMOVED LEAD REF. EC NO: E2006-0155 DRWN: DENNEHY 2005/08/29 CHKD:DMORIARTY 2005/08/29 APPR: DENNEHY 2005/09/05	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± ---°	DIMENSION STYLE MM ONLY DRAWN BY DATE KS 1987/09/01 CHECKED BY DATE DMORIARTY 2005/08/26 APPROVED BY DATE JDENNEHY 2005/08/26	SCALE --- DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE C-GRID III FEMALE CRIMP TERMINAL
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE CHART	DOCUMENT NO. SD-90119	SHEET NO. 2 OF 2	
		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
		MOLEX INCORPORATED				

9 8 7 6 5 4 3 2 1

**SF/UTP, 100Ω, 4x2xAWG24/1, premium grade Category 5e cables for installation in horizontal and backbone areas**

### Network Applications:

CCITT I.430 (1) ISDN 0,64/2 Mbit/s; Ethernet IEEE 802.3 10 BaseT 10 Mbit/s; Token Ring IEEE 802.5 4/16 Mbit/s; IEEE 802.12 100 VG AnyLAN 100 Mbit/s; IEEE 802.3u Fast Ethernet 100 BaseT 100 Mbit/s; DQDB; Video; ANSI X3T9.5 FDDI TP-PMD 125 Mbit/s; ATM Forum 155 Mbit/s; IEEE 802.3ab Gigabit Ethernet 1000 BaseT

### Applicable Cable & Cabling Standards:

ISO 11801:1995; ISO 11801:1995 & A1,A2:1999; FDIS ISO 11801:2002; FDIS ISO 61156-5  
EN 50173:1995 & A1:2000; prEN 50173:2002; EN50167, EN 50169, prEN 50288-2-1

### Conformance verified by:

3P Third Party Testing,  
Denmark

### Cable Structure:



#### Core

Conductor: 24 AWG Plain Annealed Copper Wire  
Insulation: Polyolefin  
Diameter: 1.10 mm nominal  
Pair: 2 of the above cores  
Pair colour code: Blue -White/Blue, Orange - White/Orange, Green - White/Green, Brown - White/Brown

#### Final Assembly

Cable: 4 of the above pairs  
Binder: Wrapped with polyester tape, 100% coverage  
Tape screen: Wrapped with aluminium polyester tape, applied metal side out  
Braid screen: 0.127mm Tinned Annealed Copper Wire, 30% minimum coverage  
Sheath: RAL 7037 Grey PVC or RAL 4005 Violet, flame retardant, zero halogen, thermoplastic, polyolefin compound

#### Example of print legend for GPS

BRAND-REX LTD GPS 4 PAIR 24 AWG GigaPlus Rev 1 S-FTP IEC 60332-1 ENHANCED  
CATEGORY 5 EN 50173 + ISO/IEC 11801 + TIA/EIA 568B NVP 68% WWYY ββββββ \*\*\*\*\*  
(WWYY = Week/Year of manufacture, ββββββ = batch number, \*\*\*\*\* = sequential metre mark)

Brand-Rex Part No.	GPS	GPS-D	GPS-HF1	GPS-HF1-D	GPS-HF3	GPS-HF3-D
Outer sheath	PVC	PVC	LSF/OH	LSF/OH	FR-LSF/OH	FR-LSF/OH
Construction	Simplex	Duplex	Simplex	Duplex	Simplex	Duplex
Cable weight	48.9 Kg/km	97.8 Kg/km	51.0 Kg/km	102.0 Kg/km	58.8 Kg/km	117.6 Kg/km
Calorific value	0.14 kWh/m	0.28 kWh/m	0.12 kWh/m	0.24 kWh/m	0.16 kWh/m	0.32 kWh/m
Outer diameter ( nom. )	6.1 mm	12.2 x 6.1 mm	6.1 mm	12.2 x 6.1 mm	6.7 mm	13.4 x 6.7 mm
Sheath colour	Grey RAL 7037		Violet RAL 4005			
Fire Safety rating	IEC 60332 Part 1				IEC 60332 Part 3c	
Acid Gas Emissions	na		IEC 60754-2			
Smoke Index	na		IEC 61034			

Rev	Date	Author	Review	Amendment	Description:
	26/04/01	PS	JW	First issue replacing DAT5790	<b>Communication Cable</b> <b>SF/UTP, 100Ω, 4x2xAWG24/1</b>
1	19.11.02	KGH	PK,JW	Changed format & updated specs., added typicals	
					Datasheet No. G40547

**Headquarters and Registered Offices : Glenrothes Fife KY6 2RS, Scotland**

**Tel+44 (0) 1592 772124**

**Fax +44 (0) 1592 775314**

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## Mechanical characteristics

Minimum bend radius: 8 x Outer Diameter (installation) & 4 x Outer Diameter (operational)  
 Temperature range: 0 to 50 °C (installation) & -20 to 75 °C (operational)  
 Max Tensile load: 10kg simplex cable (installation)

## Electrical Characteristics @ 20°C

Characteristic	Specification	Typical performance
Conductor Loop Resistance	Max 19 Ω/100m	16 Ω/100m
Conductor Resistance Unbalance	Max 2 %	0.5 %
Dielectric Strength	1.0kV d.c. or 0.7kV a.c. for 1min	100% in process test
Insulation resistance	>500 MΩ.km @ 100-500V test voltage	>5 GΩ.km
Capacitance Unbalance to Earth	Max 1600 pF/km	40 pF/km
Velocity of Propagation	<537.6 nS/100m @ 100MHz	496 nS/100m @ 100MHz (NVP for hand held testers = 0.68)
Skew	Max 40 nsec/100m @ 100MHz	25 nsec/100m @ 100MHz
Mean Characteristic Impedance	100 Ω ± 5Ω @ 100 MHz	100 Ω ± 3Ω @ 100 MHz
Transfer Impedance	Max 100 mΩ/m @ 10MHz	20 mΩ/m @ 10MHz (ISO 61156 grade 2 cable - see fig 2)
Coupling Attenuation up to 1GHz (ffs)	Min 55dB	80dB

frequency (MHz)		1	4	10	16	20	31.25	62.5	100	155	200	250
Insertion Loss (dB/100m)	Spec*	2.1	4.0	6.3	8.0	9.0	11.4	16.5	21.4	na	na	na
	Typical	2.0	3.8	6.0	7.6	8.6	10.8	15.8	20.4	26.1	30.3	34.5
NEXT (dB)	Spec*	65.3	56.3	50.3	47.2	45.8	42.9	38.4	35.3	na	na	na
	Typical	73.3	64.3	58.3	55.2	53.8	50.9	46.4	43.3	40.4	38.8	37.3
PSNEXT (dB)	Spec*	62.3	53.3	47.3	44.2	42.8	39.9	35.4	32.3	na	na	na
	Typical	70.3	61.3	55.3	52.2	50.8	47.9	43.4	40.3	37.4	35.8	34.3
ELFEXT (dB/100m)	Spec*	63.8	51.8	43.8	39.7	37.8	33.9	27.9	23.8	na	na	na
	Typical	78.8	66.8	58.8	54.7	52.8	48.9	42.9	38.8	35.0	32.8	30.8
PSELFEXT (dB/100m)	Spec*	60.8	48.8	40.8	36.7	34.8	30.9	24.9	20.8	na	na	na
	Typical	76.8	64.8	56.8	52.7	50.8	46.9	40.9	36.8	33.0	30.8	28.8
Return loss (dB)	Spec*	na	23.0	25.0	25.0	25.0	23.6	21.5	20.1	na	na	na
	Typical	25.0	28.0	30.0	30.0	30.0	28.6	26.5	25.1	23.8	23.0	22.3
ACR (dB/100m)	Typical	71.3	60.5	52.3	47.6	45.2	40.0	30.6	22.9	14.3	8.5	2.9
PSACR (dB/100m)	Typical	68.3	57.5	49.3	44.6	42.2	37.0	27.6	19.9	11.3	5.5	-0.1

\*prEN50288-2-1 December 2001

Figure 1: ACR chart

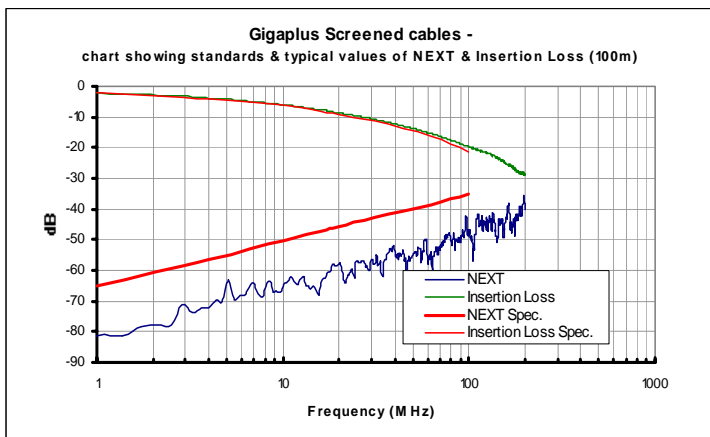


Figure 2: STI chart

