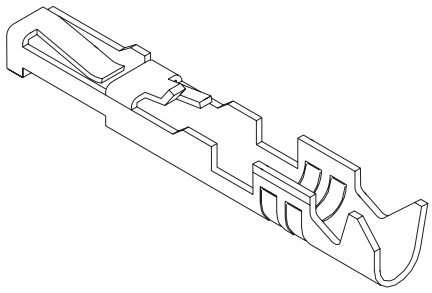
Jameco Part Number 1978764

2.54mm (.100") Pitch C-Grid III™ Terminal

90119
Female Crimp



Features and Benefits
- Fully enclosed contact box
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress

Reference Information
Product Specification: PS-99020-0001
Packaging: Chain or bag
Mates With: 0.64mm (.025") square pins
Use With: 90123, 90142, 90143, 90156 and 90160
Designed In: Inches

Electrical
Voltage: 350V
Current: 3.0A
Contact Resistance: 20 milliohms max.

Mechanical
Contact Retention to Housing: 15N (1.5kgf)
Normal Force: 1N

Physical
Contact: Copper Alloy
Plating: See Table
Wire Range: 22 to 24 and 26 to 28 AWG
Wire Insulation Diameter: 1.70mm (.067") max.

Plating A: 1.00µm (39µ") min. Hot Tin dip
Plating E: 0.38µm (15µ") selective Gold over Nickel and 4µm (160µ") Tin over Nickel
Plating F: 0.76µm (30µ") selective Gold over Nickel and 4µm (160µ") Tin over Nickel

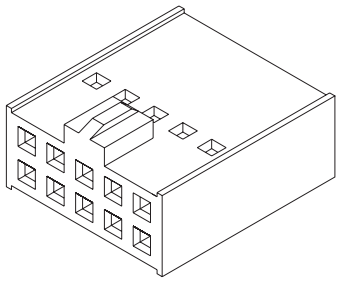
Not For Use With Molex SL™ Components

Order No.	Plating Option	Packaging	Wire Size (AWG)	Insulation Diameter Range	Lead-free
90119-0109	A	Chain—Left Hand Feed	22-24	1.02/1.47 (.040/.058)	Yes
90119-0110	E				
90119-0111	F				
90119-0120	A		26-28	0.76/1.22 (.030/.048)	
90119-0121	E				
90119-0122	F				
90119-2109	A	Bag	22-24	1.02/1.47 (.040/.058)	
90119-2110	E				
90119-2111	F				
90119-2120	A		26-28	0.76/1.22 (.030/.048)	
90119-2121	E				
90119-2122	F				

For other available versions contact Molex

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

90142
Dual Row



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: 20 milliohms max.
Insulation Resistance: 1000 Megohms 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

Delivered on a carrier with 20 pieces per strip.

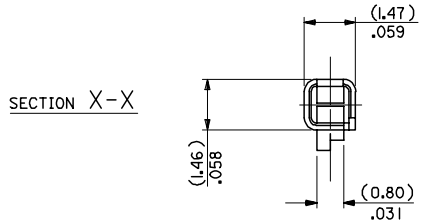
Actual Size

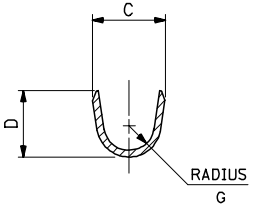
Universal Polarizing Pin 40713-1
Order No. 15-04-0292

Not For Use With Molex SL™ Components

Circuits	Order No.	Circuits	Order No.	Circuits	Order No.
6	90142-0006	20	90142-0020	38	90142-0038
8	90142-0008	22	90142-0022	40	90142-0040
10	90142-0010	24	90142-0024	44	90142-0044
12	90142-0012	26	90142-0026	50	90142-0050
14	90142-0014	30	90142-0030	54	90142-0054
16	90142-0016	34	90142-0034	60	90142-0060
18	90142-0018	36	90142-0036	64	90142-0064

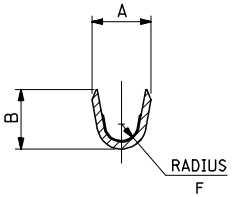
For other available circuit sizes contact Molex





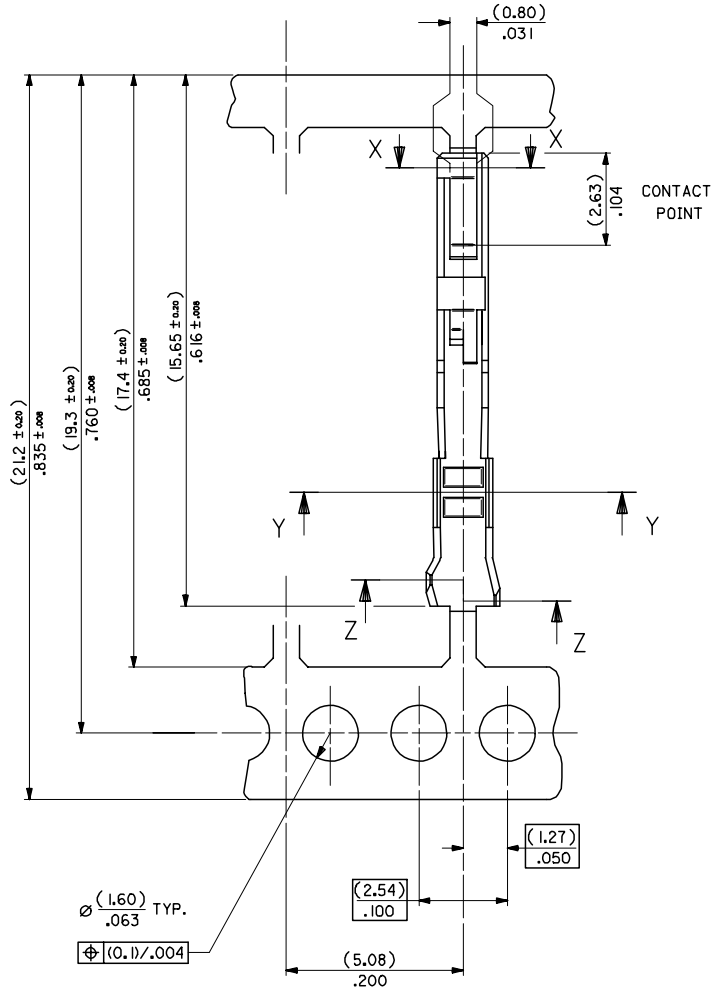
SECTION Z-Z

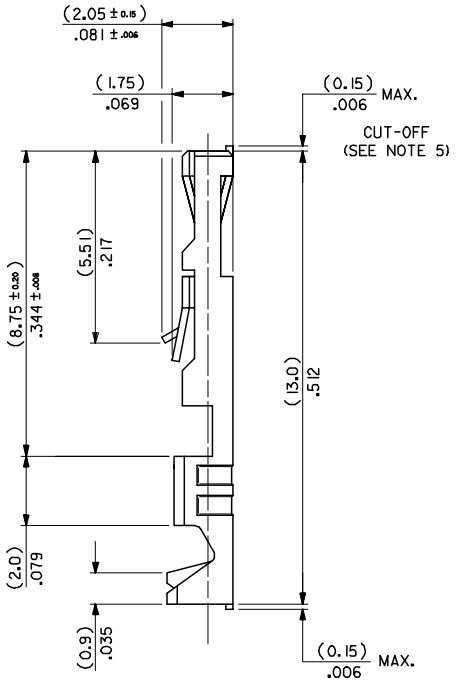
INSULATION BARREL



SECTION Y-Y

WIRE BARREL





NOTES:

1. *MATERIAL-*
   PHOSPHOR BRONZE CDA 521
   THICKNESS: (0.200)/.008
   TENSILE STRENGTH= 655-760 N/mm²
   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)/.025 SQUARE PIN
5. *MAX BURR AFTER CUT-OFF*
   (0.025)/.001

REMOVED LEAD REF.
EC NO: E2006-0155
DRWN: JDENNEHY 2005/08/29
CH'KD: DMORIARTY 2005/08/29
APPR: JDENNEHY 2005/09/05
DESCRIPTION
REV
K

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .004
2 PLACES	± 0.1	± .008
1 PLACE	± 0.2	± ---

ANGULAR ± .5 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 10:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

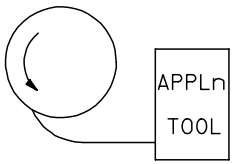
MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-90119
SHEET NO.: 1 OF 2

SIZE A2

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

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.



L.H FEED

REMOVED LEAD REF.
EC NO: E2006-0155
DRWN: JDENNEHY 2005/08/29
CHKD: DMORIARTY 2005/08/29
APPR: JDENNEHY 2005/09/05
DESCRIPTION
K
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ±---°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: KS DATE: 1987/09/01
CHECKED BY: DMORIARTY DATE: 2005/08/26
APPROVED BY: JDENNEHY DATE: 2005/08/26
MATERIAL NO.: SEE CHART

TITLE: C-GRID III FEMALE CRIMP TERMINAL

molex MOLEX INCORPORATED

DOCUMENT NO.: SD-90119
SHEET NO.: 2 OF 2

SIZE A3