

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0906351162](#)
Status: **Active**
Overview: [qf50](#)
Description: 1.27mm (.050") Pitch QF-50™, Single Beam, Vertical MIL/DIN Version, 0.76µm (30µ") Gold (Au), 16 Circuits

Documents:

[3D Model](#) [Product Specification PS-99020-0015 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E29179

General

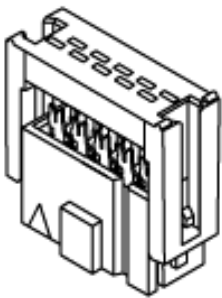
Product Family Ribbon Cable / Wire Trap Connectors
Series [90635](#)
Comments Preloaded Upper Housing
Component Type Housing
Glow-Wire Compliant No
Overview [qf50](#)
Product Name QF-50™

Physical

Circuits (Loaded) 16
Color - Resin Black
Durability (mating cycles max) 300
Entry Angle 90° Angle
Flammability 94V-0
Lock to Mating Part None
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin Polyester
Number of Rows 2
PCB Retention None
Packaging Type Tray
Pitch - Mating Interface (in) 0.050 In
Pitch - Mating Interface (mm) 1.27 mm
Plating min: Mating (µin) 30.4
Plating min: Mating (µm) 0.76
Plating min: Termination (µin) 39
Plating min: Termination (µm) 1
Polarized to Mating Part Yes
Shrouded Fully
Stackable No
Surface Mount Compatible (SMC) N/A
Temperature Range - Operating -25°C to +85°C
Termination Interface: Style IDT or Pierce
Wire Insulation Diameter 1.14mm (.045") max.
Wire Size AWG 26, 28
Wire/Cable Type Ribbon Cable

Electrical

Current - Maximum per Contact 1A
Voltage - Maximum 250V AC/DC



Series

image - Reference only

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Contains SVHC: No
**Halogen-Free
Status**

China RoHS



**Need more information on product
environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any
non-product compliance questions.

Search Parts in this Series

[90635Series](#)

Mates With

[90663](#)

Use With

[90170](#)

Application Tooling | FAQ

*Tooling specifications and manuals are
found by selecting the products below.
Crimp Height Specifications are then
contained in the Application Tooling
Specification document.*

Global

Description	Product #
Semi-Automatic Bench Press PB15 C/W Cable Sensor for 90635 Connectors	0691271150
Changehead for Parallel	0690080250

Material Info

Reference - Drawing Numbers

Product Specification
Sales Drawing

PS-99020-0015
SDA-90635

Action Handtool
69008-0949, for
QF-50™ and
MX-50™ Connectors
Arbor Press Fixture 0690200680

This document was generated on 05/31/2010
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NOTES: 1. MATERIAL:

HOUSING: POLYESTER, G.F. (UL 94V-0), COLOUR - BLACK.
TERMINAL: PHOSPHOR BRONZE.

2. TERMINAL PLATING:

90635-***1 : CONTACT AREA: GOLD FLASH (0.1um)/ 4uin MIN.

I.D. AREA: TIN (1um)/ 39uin MIN. OVER

NICKEL (1um)/ 39uin MIN.

90635-***2 :CONTACT AREA: GOLD (0.76um)/ 30uin MIN

I.D. AREA: TIN (1um)/ 39uin MIN. OVER

NICKEL (1um)/ 39uin MIN.

90635-***3 :CONTACT AREA: GOLD (0.38um)/ 15uin MIN

I.D. AREA: TIN (1um)/ 39uin MIN. OVER

NICKEL (1um)/ 39uin MIN.

90635-***4 :CONTACT AREA: GOLD (0.51um)/ 20uin MIN

I.D. AREA: TIN (1um)/ 39uin MIN. OVER

NICKEL (1um)/ 39uin MIN.. 20 & 50 CIRCUIT SIZES ONLY

3. FOR USE WITH No. 26 & 28 AWG STRANDED WIRE (7 CONDUCTORS)
AND No. 28 SOLID WIRE 1.14/(.045) DIA. MAX. INSULATION RIBBON
CABLE WITH 1.27/(.050) CENTERS.

4. MATING STRAIN RELIEF: MOLEX No. 90170.

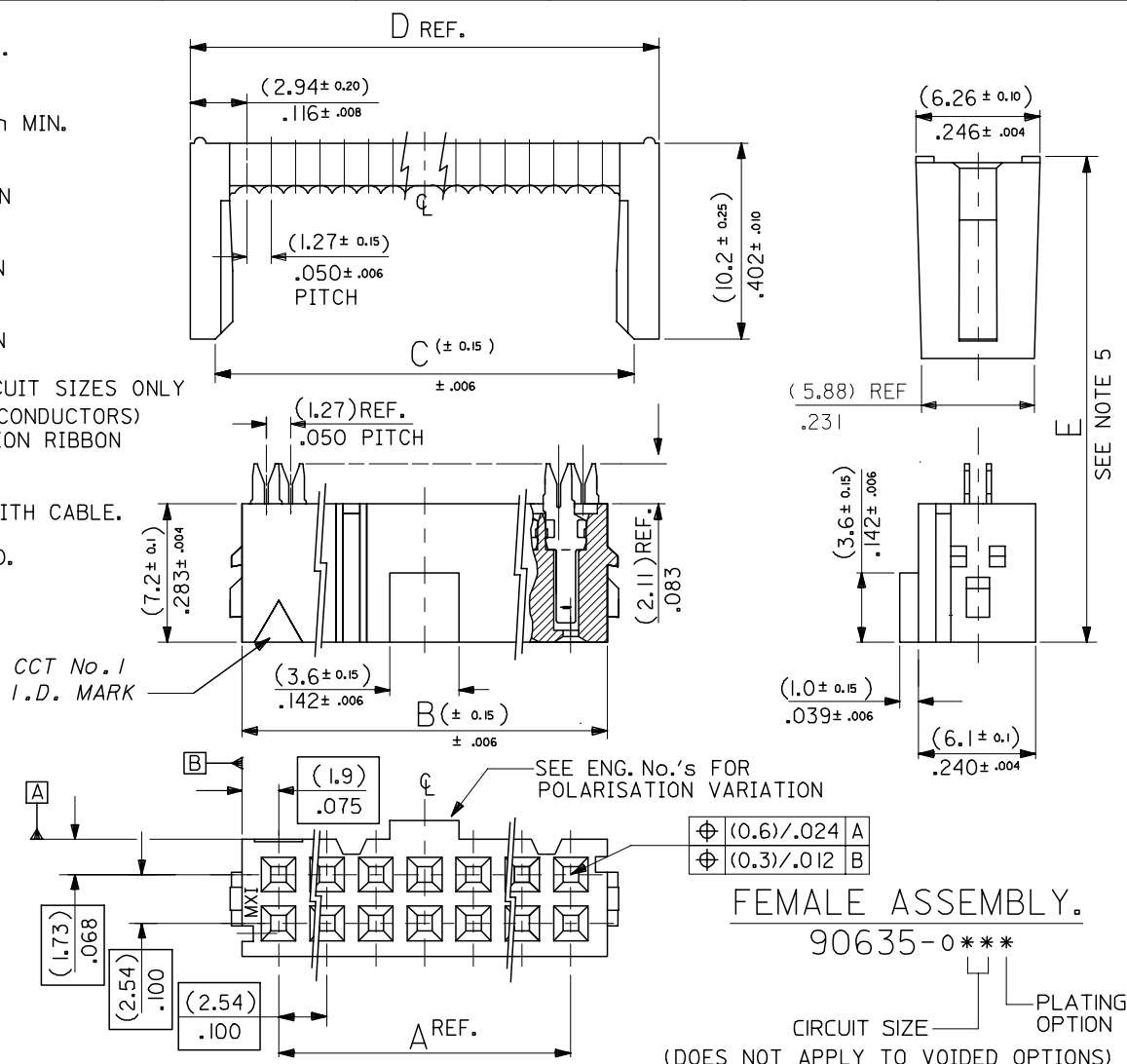
5. DIMENSION "E" IS TOTAL HEIGHT AFTER ASSEMBLED WITH CABLE.
E= 10.5/(.413) REF. WITHOUT STRAIN RELIEF.

E= (15.2)/.598 MAX. WITH STRAIN RELIEF No. 90170.

(14.5)/.571 REF. WHEN COMPRESSED .

6. FOR PRODUCT SPECIFICATION, SEE PS 99020-0015.

64	90635-64*	(78.74) 3.100	(82.54) 3.250	(83.31) 3.280	(85.88) 3.381
60	90635-60*	(73.66) 2.900	(77.46) 3.050	(78.23) 3.080	(80.80) 3.181
50	90635-50*	(60.96) 2.400	(64.76) 2.55	(65.53) 2.580	(68.10) 2.681
40	90635-40*	(48.26) 1.900	(52.06) 2.050	(52.83) 2.080	(55.40) 2.181
34	90635-34*	(40.64) 1.600	(44.44) 1.750	(45.21) 1.780	(47.78) 1.881
30	90635-30*	(35.56) 1.400	(39.36) 1.550	(40.13) 1.580	(42.70) 1.681
26	90635-26*	(30.48) 1.200	(34.28) 1.350	(35.05) 1.380	(37.62) 1.481
24	90635-24*	(27.94) 1.100	(31.74) 1.250	(32.51) 1.280	(35.08) 1.381
20	90635-20*	(22.86) .900	(26.66) 1.050	(27.43) 1.080	(30.00) 1.181
16	90635-16*	(17.78) .700	(21.58) .850	(22.35) .880	(24.92) .981
14	90635-14*	(15.24) .600	(19.04) .750	(19.81) .780	(22.38) .881
10	90635-10*	(10.16) .400	(13.96) .550	(14.73) .580	(17.30) .681
NO. OF CKT.	ENG. NO.	A	B	C	D REF.



FEMALE ASSEMBLY.

90635-0***

CIRCUIT SIZE
(DOES NOT APPLY TO VOIDED OPTIONS)

REMOVED POLARIZATION EC NO: E2007-0495 DRAWN:DBYRNES CHKD: APPR:EOM/HONY	2006/12/06 2006/12/07 2006/12/07		DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
							MM/IN		4:1	METRIC				
				▼=0			DRAWN BY	DATE	QIK FLECS SINGLE BEAM FEMALE ASSEMBLY					
				▽=0			POB	1990/09/25						
							CHECKED BY	DATE	MOLEX MOLEX INCORPORATED					
							JDENNEHY	2005/08/10						
							APPROVED BY	DATE	MOLEX MOLEX INCORPORATED					
							JDENNEHY	2005/08/10						
							ANGULAR ±---°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
							DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SDA-90635		1 OF 3	
							SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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NICKEL (1um)/ 39uin MIN.

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I.D. AREA: TIN (1um)/ 39uin MIN. OVER
NICKEL (1um)/ 39uin MIN.

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I.D. AREA: TIN (1um)/ 39uin MIN. OVER
NICKEL (1um)/ 39uin MIN.

20 & 50 CIRCUIT SIZES ONLY.

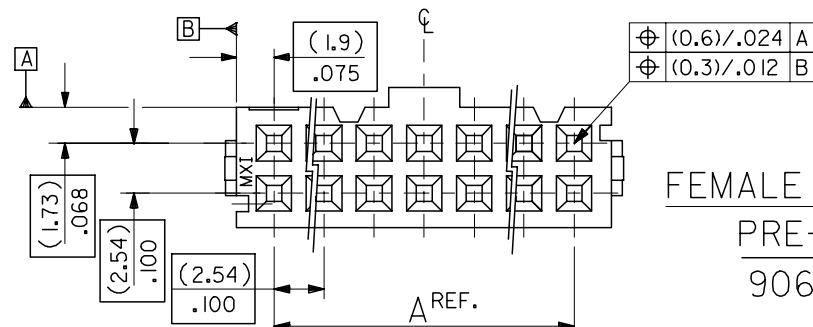
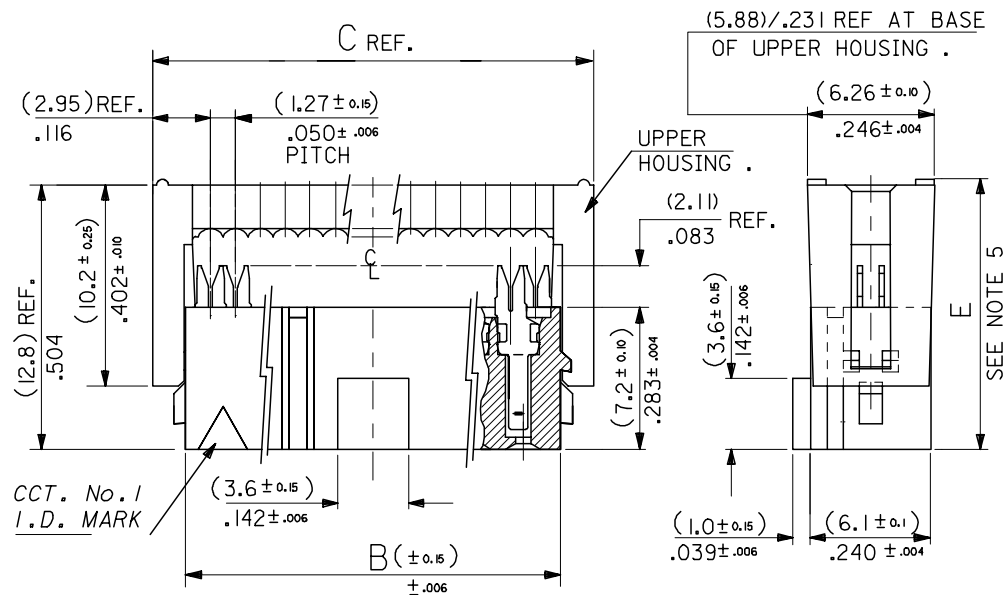
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(14.5)/.571 REF. WHEN COMPRESSED.

6. FOR PRODUCT SPECIFICATION, SEE PS 99020-0015.



FEMALE ASSEMBLY.
PRE-LOADED.
90635-***

WITH POLARISATION = 1 OR 9

CIRCUIT SIZE

PLATING
OPTION

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50	90635-50*	(60.96) 2.400	(64.76) 2.55	(68.10) 2.681
40	90635-40* 90635-9402 (CUSTOMER SPECIFIC)	(48.26) 1.900	(52.06) 2.050	(55.40) 2.181
34	90635-34*	(40.64) 1.600	(44.44) 1.750	(47.78) 1.881
30	90635-30*	(35.56) 1.400	(39.36) 1.550	(42.70) 1.681
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NO. OF CKT.	ENG. NO.	A	B	C

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					DRAWN BY POB		DATE 1990/09/25	TITLE QIK FLECS SINGLE BEAM FEMALE ASSEMBLY, PRE-LOADED			
					CHECKED BY JDENNEHY		DATE 2005/08/10				
					APPROVED BY JDENNEHY		DATE 2005/08/10	MOLEX MOLEX INCORPORATED			
					MATERIAL NO.		DOCUMENT NO. SDA-90635				
C	REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART						
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