

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0906351402

Status:

Active

Overview:

qf50

Description:

1.27mm (.050") Pitch QF-50™, Single Beam, Vertical MIL/DIN Version, 0.76µm (30µ") Gold (Au), 40 Circuits

Documents:

3D Model

Drawing (PDF)

Product Specification PS-99020-0015 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

LR19980

UL

E29179

General

Product Family

Series

Comments

Component Type

Glow-Wire Compliant

Overview

Product Name

Ribbon Cable / Wire Trap Connectors

90635

Preloaded Upper Housing

Housing

No

qf50

QF-50™

Physical

Circuits (Loaded)

Color - Resin

Durability (mating cycles max)

Entry Angle

Flammability

Lock to Mating Part

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

PCB Retention

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

Plating min: Termination (µm)

Polarized to Mating Part

Shrouded

Stackable

Surface Mount Compatible (SMC)

Temperature Range - Operating

Termination Interface: Style

Wire Insulation Diameter

Wire Size AWG

Wire/Cable Type

40

Black

300

90° Angle

94V-0

None

Phosphor Bronze

Gold

Tin

Polyester

2

None

Tray

0.050 In

1.27 mm

30.4

0.76

39

1

Yes

Fully

No

N/A

-25°C to +85°C

IDT or Pierce

1.14mm (.045") max.

26, 28

Ribbon Cable

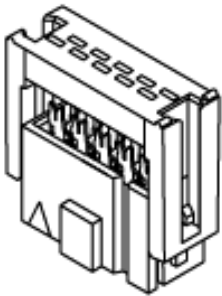
Electrical

Current - Maximum per Contact

Voltage - Maximum

1A

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	0691271150
PB15 C/W Cable Sensor for 90635 Connectors	
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
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

10 9 8 7 6 5 4 3 2 1

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.

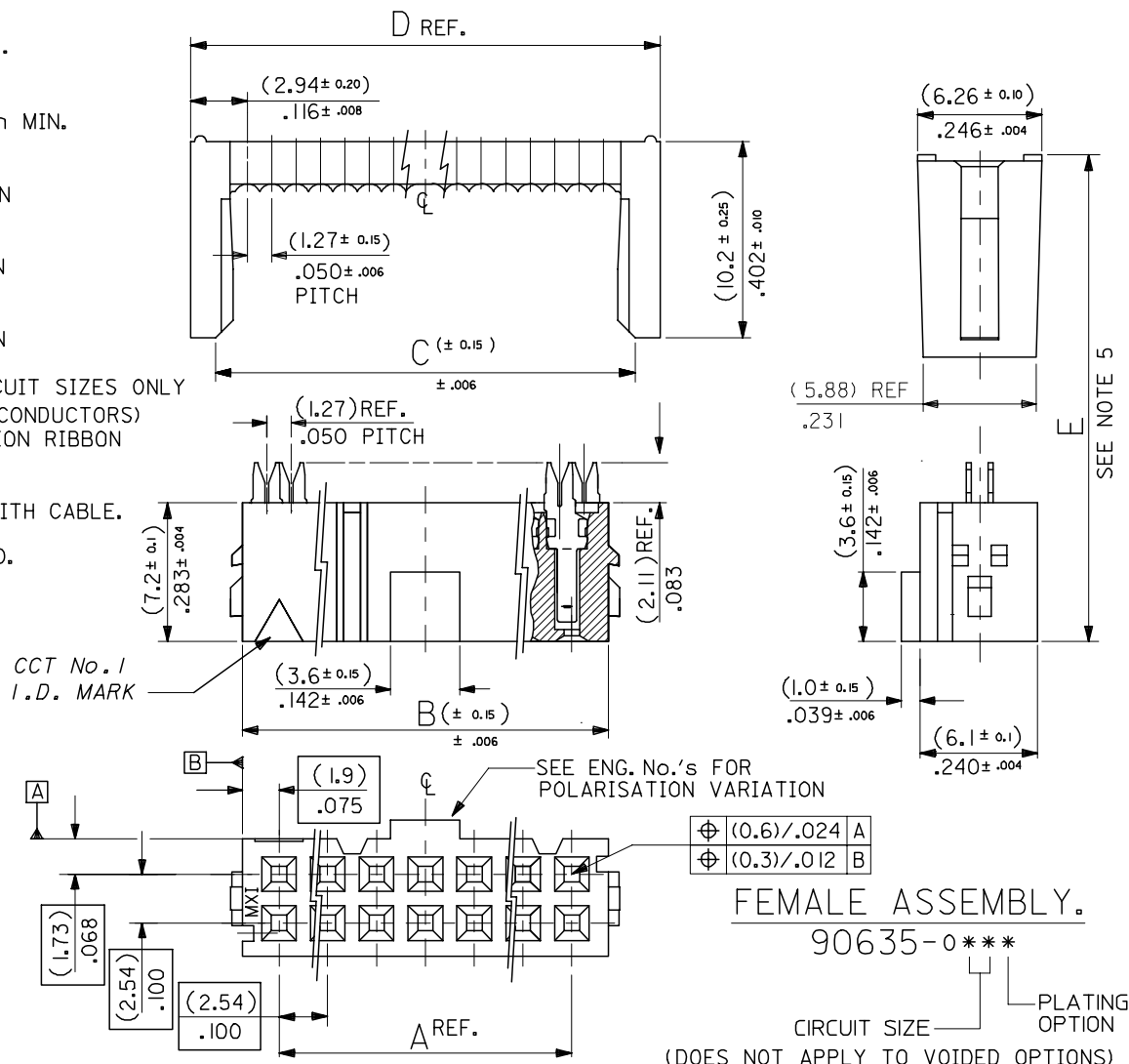
5. DIMENSION "E" IS TOTAL HEIGHT AFTER ASSEMBLED WITH CABLE.
E= 10.5/(.413) REF. WITHOUT STRAIN RELIEF.

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***

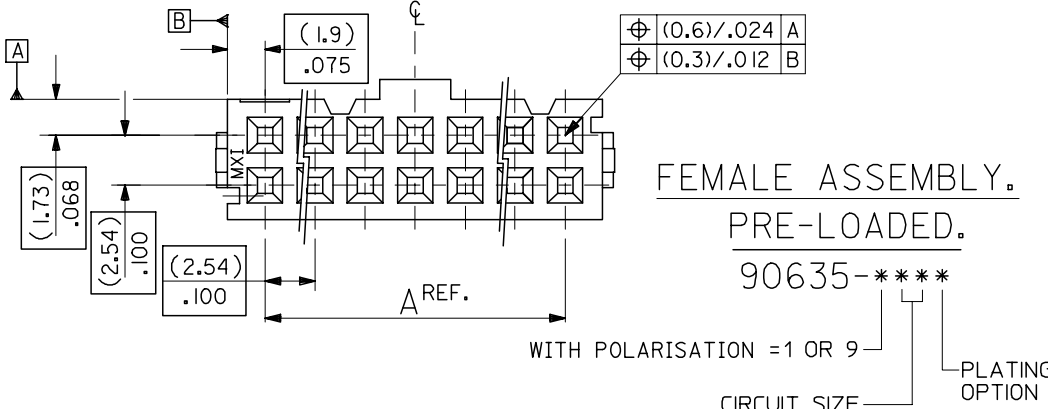
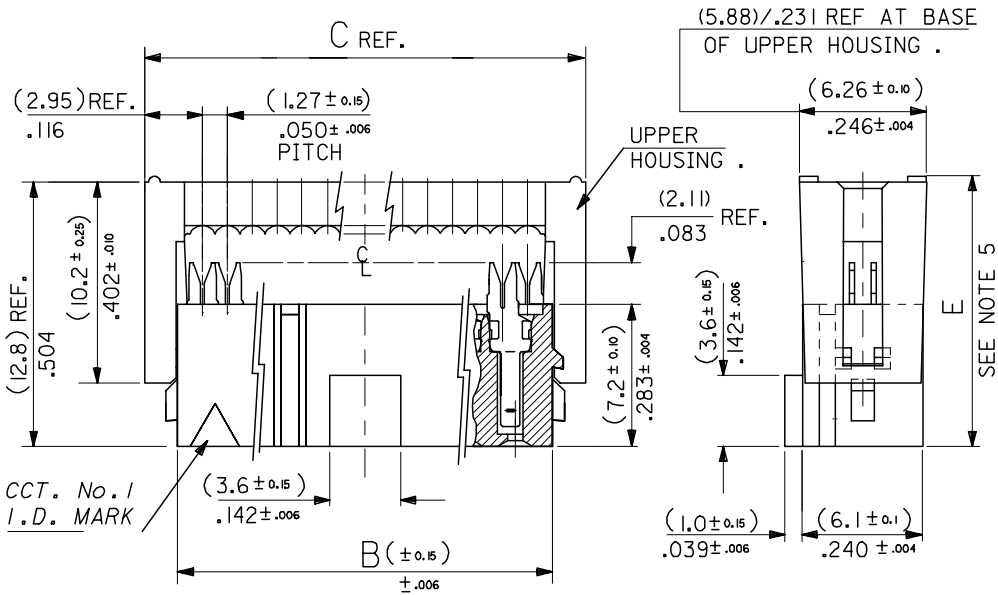
CIRCUIT SIZE PLATING OPTION
(DOES NOT APPLY TO VOIDED OPTIONS)

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

9 8 7 6 5 4 3 2 1

- 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	(85.88) 3.381
60	90635-*60*	(73.66) 2.900	(77.46) 3.050	(80.80) 3.181
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
26	90635-*26*	(30.48) 1.200	(34.28) 1.350	(37.62) 1.481
24	90635-*24*	(27.94) 1.100	(31.74) 1.250	(35.08) 1.381
20	90635-*20*	(22.86) .900	(26.66) 1.050	(30.00) 1.181
16	90635-*16*	(17.78) .700	(21.58) .850	(24.92) .981
14	90635-*14*	(15.24) .600	(19.04) .750	(22.38) .881
10	90635-*10*	(10.16) .400	(13.96) .550	(17.30) .681
NO. OF CKT.	ENG. NO.	A	B	C



REMOVED OPTION
EC NO: E2007-0495
DRWN:DBYRNES 2006/12/06
CHKD: 2006/12/07
APPR:EOMAHONY 2006/12/07

QUALITY
SYMBOLS
▽=0
▽=0

DESCRIPTION
REV

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/IN
DRAWN BY DATE
POB 1990/09/25
CHECKED BY DATE
JDENNEHY 2005/08/10
APPROVED BY DATE
JDENNEHY 2005/08/10
MATERIAL NO.
DOCUMENT NO.
SDA-90635
SHEET NO.
2 OF 3

SCALE
4:1
DESIGN UNITS
METRIC
THIRD ANGLE
PROJECTION
QIK FLECS SINGLE BEAM
FEMALE ASSEMBLY,
PRE-LOADED
MOLEX INCORPORATED
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION