Part Number:	**0906351403**
Status:	**Active**
Overview:	qf50
Description:	1.27mm (.050") Pitch QF-50™, Single Beam, Vertical MIL/DIN Version, 0.38µm (15µ") Gold (Au), 40 Circuits

Documents:

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

Series
image - Reference only

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)	40
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)	15.2
Plating min: Mating (µm)	0.38
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
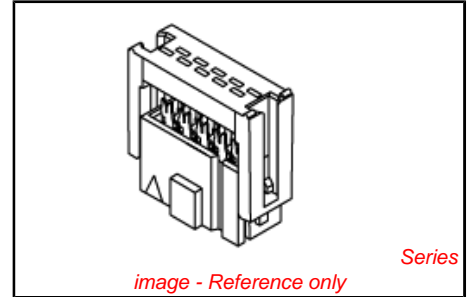
EU RoHS **China RoHS**
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Not Halogen-Free

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

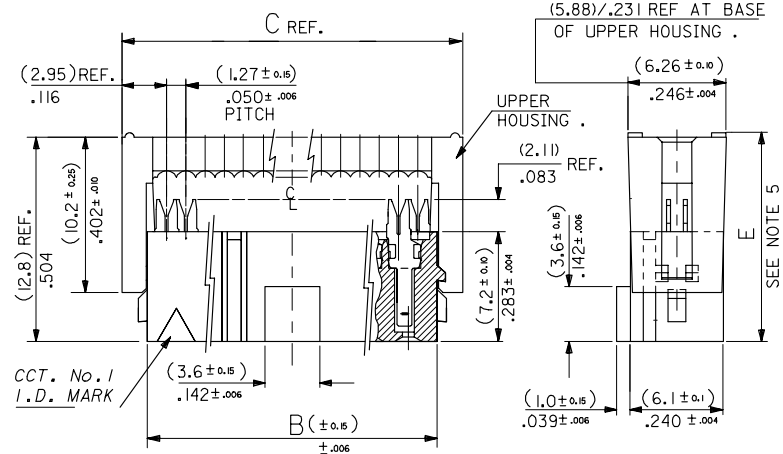|	
Product Specification	PS-99020-0015
Sales Drawing	SDA-90635

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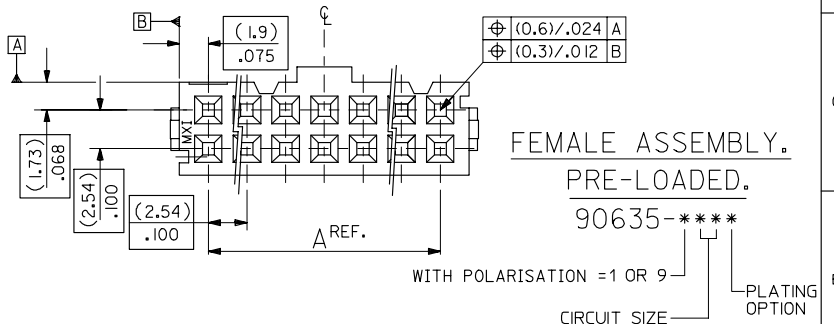MX-50™ Connectors
Arbor Press Fixture   0690200680

This document was generated on 05/31/2010
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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 (0.5um)/ 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.

NO.OF CKT.	ENG. NO.	A	B	C	D REF.
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

D REF.
(2.94 ± 0.20) .116 ± .008
(1.27 ± 0.15) .050 ± .006 PITCH
(10.2 ± 0.25) .402 ± .010
C (± 0.15) ± .006
(1.27) REF. .050 PITCH
(7.2 ± 0.1) .283 ± .004
(2.11) REF. .083
CCT No. 1 I.D. MARK
(3.6 ± 0.15) .142 ± .006
B (± 0.15) ± .006
(6.26 ± 0.10) .246 ± .004
(5.88) REF .231
(3.6 ± 0.15) .142 ± .006
SEE NOTE 5
(1.0 ± 0.15) .039 ± .006
(6.1 ± 0.1) .240 ± .004

(1.9) .075
SEE ENG. No.'s FOR POLARISATION VARIATION
⊕ (0.6)/.024 A
⊕ (0.3)/.012 B
(1.73) .068
(2.54) .100
(2.54) .100
A REF.

FEMALE ASSEMBLY.
90635-0***
PLATING OPTION
CIRCUIT SIZE
(DOES NOT APPLY TO VOIDED OPTIONS)

NOTES: I. MATERIAL:
    HOUSING: POLYESTER, G.F. (UL 94V-0), COLOUR - BLACK.
    TERMINAL: PHOSPHOR BRONZE.
  2. TERMINAL PLATING:
    90635-***I: CONTACT AREA: GOLD FLASH (0.Ium)/ 4uin MIN.
        I.D. AREA: TIN (Ium)/ 39uin MIN. OVER
        NICKEL (Ium)/ 39uin MIN.
    90635-***2 :CONTACT AREA: GOLD (0.76um)/ 30uin MIN
        I.D. AREA: TIN (Ium)/ 39uin MIN. OVER
        NICKEL (Ium)/ 39uin MIN.
    90635-***3 :CONTACT AREA: GOLD (0.38um)/ I5uin MIN
        I.D. AREA: TIN (Ium)/ 39uin MIN. OVER
        NICKEL (Ium)/ 39uin MIN.
    90635-***4 :CONTACT AREA: GOLD (0.5Ium)/ 20uin MIN
        I.D. AREA: TIN (Ium)/ 39uin MIN. OVER
        NICKEL (Ium)/ 39uin MIN.
        20 & 50 CIRCUIT SIZES ONLY.
  3. FOR USE WITH No. 26 & 28 AWG STRANDED WIRE (7 CONDUCTORS)
    AND No. 28 SOLID WIRE I.I4/(.045) DIA. MAX. INSULATION RIBBON
    CABLE WITH I.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 99020-00I5.

NO.OF CKT.	ENG. NO.	A	B	C
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
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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
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14	90635-*14*	(15.24) .600	(19.04) .750	(22.38) .881
10	90635-*10*	(10.16) .400	(13.96) .550	(17.30) .681

(5.88)/.231 REF AT BASE OF UPPER HOUSING .
(6.26 ±0.10) .246±.004

C REF.

(2.95) REF. .116
(1.27 ±0.15) .050± .006 PITCH

UPPER HOUSING .

(2.11) REF. .083

(10.2 ± 0.25) .402±.010
(12.8) REF. .504

(3.6 ± 0.15) .142±.006

(7.2 ± 0.10) .283±.004

SEE NOTE 5
E

CCT. No.I I.D. MARK

(3.6 ±0.15) .142±.006

B (±0.15) ±.006

(1.0 ±0.15) .039±.006
(6.1 ±0.1) .240 ±.004

B
A
(1.9) .075

⊕ (0.6)/.024 A
⊕ (0.3)/.012 B

(1.73) .068
(2.54) .100
(2.54) .100

A REF.

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

WITH POLARISATION =1 OR 9
PLATING OPTION
CIRCUIT SIZE

QUALITY SYMBOLS
▼=0
C/=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/IN
SCALE 4:1
DESIGN UNITS METRIC
◎ ◁ THIRD ANGLE PROJECTION

DRAWN BY POB DATE 1990/09/25
CHECKED BY JDENNEHY DATE 2005/08/10
APPROVED BY JDENNEHY DATE 2005/08/10
MATERIAL NO. SEE CHART

TITLE
QIK FLECS SINGLE BEAM FEMALE ASSEMBLY, PRE-LOADED

molex MOLEX INCORPORATED

DOCUMENT NO. SDA-90635
SHEET NO. 2 OF 3
SIZE A3

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Rev. D 2004/04/02