



DUBOX™ SHUNTS



- Dual-beam contacts for added reliability
- Slotted cutout in low profile housing simplifies electrical testing
- Side-by-side and end-to-end stackable

MATERIALS

- Housing: High temperature, black thermoplastic
- Flammability rating: UL94V-0
- Pin: Phosphor-bronze
- Plating: Gold or tin over 1.27µm (50µin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 2.5A max. per contact
- Insulation resistance: 50,000M Ω min
- Contact resistance: 15MΩ max. initial, 20MΩ max. after environmental tests
- Dielectric withstanding voltage: 800V

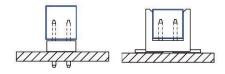
ENVIRONMENTAL

• Operating temperature range: -65°C to +125°C

MECHANICAL PERFORMANCE

- Mating cycles (durability): 50-Gold, 25-Tin
- Insertion force:
 - 450gf max. per gold contact
 - 500gf max. per tin-lead contact
- Withdrawal force:
 - 30gf min. per gold contact
 - · 30gf min. per tin-lead contact
- Insertion depth:
 - 4.85 mm (.191in.) min. [provides 3.81 mm (.015in.) wipe] – Low profile

TYPICAL APPLICATIONS



SPECIFICATIONS

- 🔊 File no. E66906
- 🚯 File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-071-gold BUS-12-070-tin

APPROVALS AND CERTIFICATIONS

• This product is RoHS compatible according to the European Union Directive 2002/95/IEC

PACKAGING

• Plastic bags

PART NUMBERS

CORE RANGE



LOW PROFILE

68786	—	PLA	TIN	G	02	LF
0.76µm (30µin.) gold			old	2		
Tin			3			

MULTI-POSITION

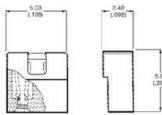
69145	—	PLATING			N	J١
0.76µm	(30µi	in.) g	old	2		4
Tin				3		

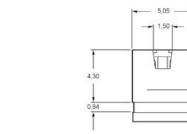


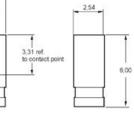
STANDARD

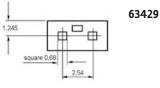
63429	—	PLATING			02	LF
0.76µm (30µin.) gold			old	2		
Tin			3			

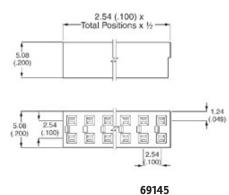
PRODUCT









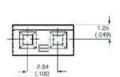




Dimension in mm

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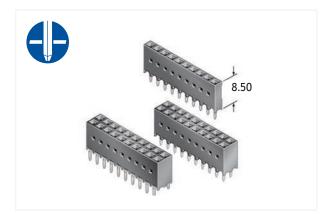




68786



DUBOXTM VERTICAL RECEPTACLES



- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force
- 4-wall contact design for signal protection

MATERIALS

- Housing: Glass filled thermoplastic polyester, blue
- Flammability rating: UL94V-0
- Pin: Phosphor-bronze
- Plating: Gold or tin in accordance with IEC 603-8I

ELECTRICAL PERFORMANCE

- Current rating: 3A max. per individual contact 2A DC max. per contact for fully energized connector
- Insulation resistance: $1 \times 10^{5} M\Omega$ min.
- Contact resistance: 15MΩ max. initial, 20MΩ max. after environmental tests
- Dielectric withstanding voltage: 1000V RMS

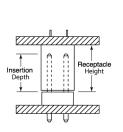
ENVIRONMENTAL

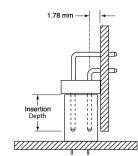
Operating temperature range: -65°C to +125°C

MECHANICAL PERFORMANCE

- Mating cycles (durability): 200
- Insertion force per gold contact: 1.50 N (150gf) max.
- Withdrawal force per gold contact: 0.30 N (30gf) min.
- Insertion depth:
 - Top entry: 3.6mm min. to 6.81mm max. [provides .381mm wipe]
 - Bottom entry: 7mm min. [provides .381mm wipe] plus board thickness

TYPICAL APPLICATIONS





SPECIFICATIONS

- 🔊 File no. E66906
- **(**File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: HE 13/14 and IEC 603-8

APPROVALS AND CERTIFICATIONS

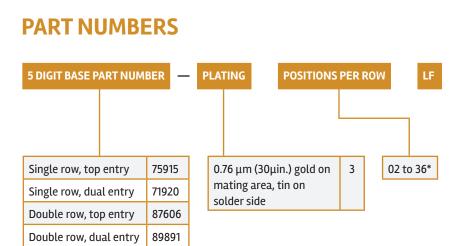
• This product is RoHS compatible according to the European Union Directive 2002/95/IEC

PACKAGING

• Plastic boxes or tubes

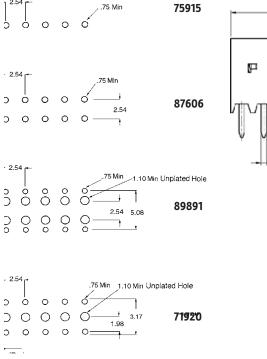
PROCESSING INFORMATION

• Compatible with wave soldering processes



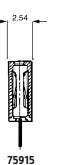
*Other sizes available on request

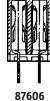
PRODUCT





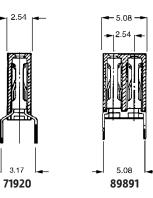
Dimension in mm





- 5.08

2.54



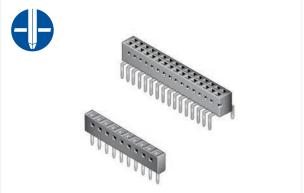
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DUBOX[™] VERTICAL RECEPTACLES LOW PROFILE



- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force
- 4-wall contact design for signal protection

DUBOXTM VERTICAL RECEPTACLES LOW PROFILE

TECHNICAL INFORMATION

MATERIALS

- Housing: Glass filled thermoplastic polyester, blue
- Flammability rating: UL94V-0
- Pin: Phosphor-bronze
- Plating: Gold or tin over 1.27µm (50µin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 3A DC max. per individual contact 2A DC max. per contact for fully energized connector
- Insulation resistance: 1 x 10⁵M Ω min.
- Contact resistance: 15MΩ max. initial, 20MΩ max. after environmental tests
- Dielectric withstanding voltage: 1000V RMS

ENVIRONMENTAL

Operating temperature range: -65°C to +125°C

MECHANICAL PERFORMANCE

- Mating cycles (durability): 200
- Insertion force per gold contact: 1.50 N (150gf) max.
- Withdrawal force per gold contact: 0.30 N (30gf) min.
- Insertion depth:
 Top entry: 3.6mm min. to 6.7mm max.
 - [provides .381mm wipe] • Bottom entry: 6mm min. [provides .381mm wipe] plus board thickness

SPECIFICATIONS

- 🔊 File no. E66906
- 🚯 File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-055

APPROVALS AND CERTIFICATIONS

• This product is RoHS compatible according to the European Union Directive 2002/95/IEC

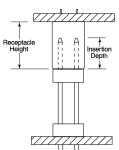
PACKAGING

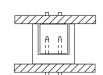
• Plastic boxes or tubes

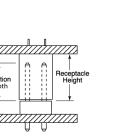
PROCESSING INFORMATION

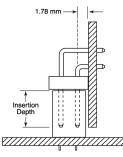
• Compatible with wave soldering processes

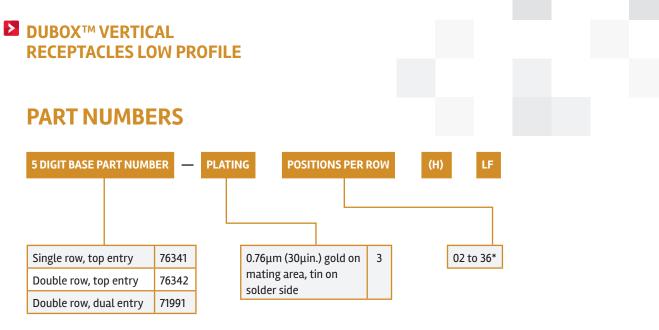
TYPICAL APPLICATIONS





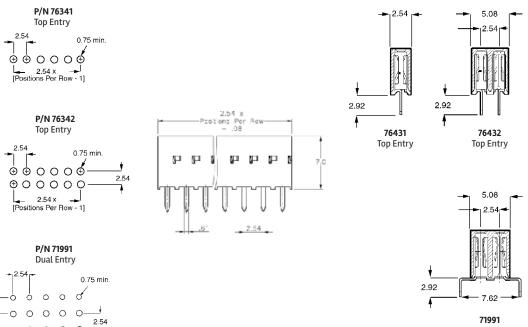






*Other sizes available on request

PRODUCT



Dual Entry

Recommended PCB layouts

0 \ 0 ∅ 1.40 min.

Dimension in mm

00000

0 0 0

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DUBOX[™] VERTICAL RECEPTACLES LOW PROFILE



- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force
- 4-wall contact design for signal protection

DUBOX™ VERTICAL RECEPTACLES LOW PROFILE

TECHNICAL INFORMATION

MATERIALS

- Housing: High temperature body, grey
- Flammability rating: UL94V-0
- Pin: Phosphor-bronze
- Plating: Gold or tin over 1.27µm (50µin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 3A DC max. per individual contact 2A DC max. per contact for fully energized connector
- Insulation resistance: 1x 10⁵MΩ min.
- Contact resistance: 15MΩ max. initial, 20MΩ max. after environmental tests
- Dielectric withstanding voltage: 1000V RMS

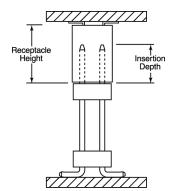
ENVIRONMENTAL

Operating temperature range: -65°C to +125°C

MECHANICAL PERFORMANCE

- Mating cycles (durability): 200
- Insertion force per gold contact: 1.50 N (150gf) max
- Withdrawal force per gold contact: 0.30 N (30gf) min
- Insertion depth:
 - Top entry: 3.6mm min. to 6.7mm max. [provides .381mm wipe]
 - Bottom entry: 6mm min.
 [provides .381mm wipe] plus board thickness

TYPICAL APPLICATIONS



SPECIFICATIONS

- 🔊 File no. E66906
- 🕃 File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-055

APPROVALS AND CERTIFICATIONS

 This product is RoHS compatible according to the European Union Directive 2002/95/IEC

PACKAGING

- Plastic boxes or tubes
- Tape-and-reel as available

PROCESSING INFORMATION

Compatible with vapor-phase, and IR reflow soldering processes

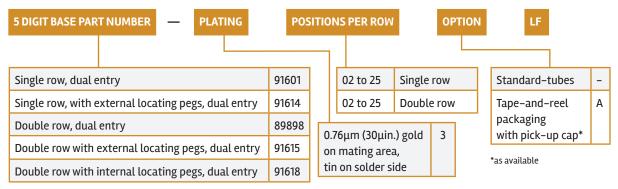
DUBOX™ VERTICAL RECEPTACLES LOW PROFILE

PART NUMBERS

CORE RANGE

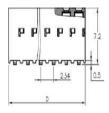


XX = 02, 03, 04, 05, 06, 08, 10

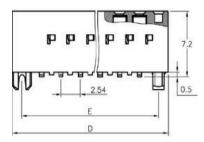


PRODUCT

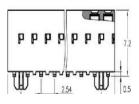
STANDARD



EXTERNAL LOCATING PEGS

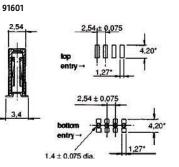


INTERNAL LOCATING PEGS

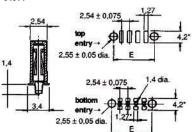


Dimension in mm

SINGLE ROW + PAD LAYOUTS

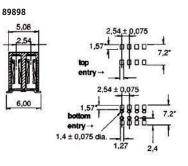


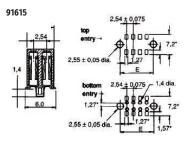




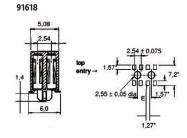
*Note: Available as of 3 positions versions Not available in single row

DOUBLE ROW + PAD LAYOUTS





*Note: Available as of 3 positions versions



Note: All dimensions marked with * are minimum dimensions

*Note: available as of 6 number of positions

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Disclaimer

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DUBOXTM HORIZONTAL RECEPTACLES



- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force
- Floating solder tails self-center on circuit pads and assure coplanarity
- 4-wall contact design for signal protection

MATERIALS

- Housing:
 - Blue thermoplastic -Through hole
 - High temp. grey thermoplastic Surface mount
- Flammability rating: UL94V-0
- Pin: Phosphor-bronze
- Plating: Gold or tin over 1.27μm (50 μin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 3A DC max. per individual contact 2A DC max. per contact for fully energized connector
- Insulation resistance: 1 x 10⁵MΩ min.
- Contact resistance: 15MΩ max. initial, 20MΩ max. after environmental tests
- Dielectric withstanding voltage: 1000V RMS

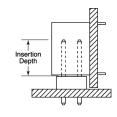
ENVIRONMENTAL

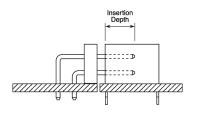
• Operating temperature range: -65°C to +125°C

MECHANICAL PERFORMANCE

- Mating cycles (durability): 200
- Insertion force per gold contact: 1.50 N (150gf) max.
- Withdrawal force per gold contact: 0.30 N (30gf) min.
- Insertion depth:
- 3.6mm min. to 7.50mm max. [provides .381mm wipe]

TYPICAL APPLICATIONS





SPECIFICATIONS

- 🔊 File no. E66906
- 🕒 File no. LR46923
- Product drawing: 71607, 71609, 89882, 89883
- Product specification: HE 13/14 and IEC 603-8
- Application specification: TA-842 for SMT
- Tape-and-reel packaging data : TA-856

APPROVALS AND CERTIFICATIONS

• This product is RoHS compatible according to the European Union Directive 2002/95/IEC

PACKAGING

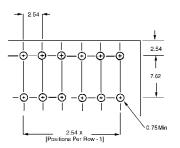
- Standard: Tubes
- Optional: Tape-and-reel

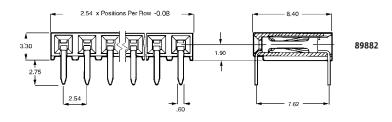
PROCESSING INFORMATION

- Series 89882, 89883: compatible with wave soldering processes
- Series 71607, 71609: compatible with vapor-phase and IR reflow soldering processes

PART NUMBERS 5 DIGIT BASE PART NUMBER POSITIONS PER ROW PLATING 02 to 36 (TMT) 02 to 25 (SMT) Through hole (TMT), single row 89882 Through hole (TMT), double row 89883 0.76µm (30µin.) gold on mating area, tin on solder side Surface mount (SMT), single row 71607 Surface mount (SMT), double row 71609

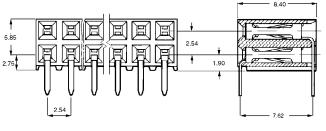
PRODUCT

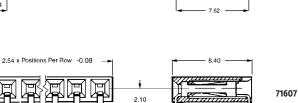




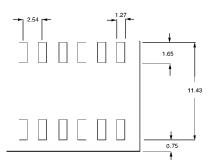
ALF

3



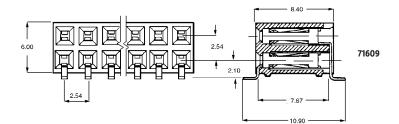


89883



1 3.50

Recommended PCB layouts



Dimension in mm

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DUBOXTM SHROUDED HEADERS



- For use with Dubox[™] crimp-to-wire housings
- Stackable end-to-end
- Passive latching, anti-reverse and anti-miss-match when used with Dubox™ crimp-to-wire housings
- Selective plating

MATERIALS

- Housing: Glass filled thermoplastic polyester
- Housing color for series 76382, 76383: blue Housing color for series 76384, 76385: black
- Flammability rating: UL94V-0
- Contact: Copper alloy
- Plating: Gold or tin over 1.27µm (50µin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 3A continuous
- Insulation resistance: 1 x 10⁵MΩ min.
- Dielectric withstanding voltage: 1000V RMS

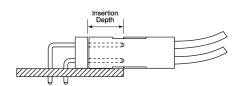
ENVIRONMENTAL

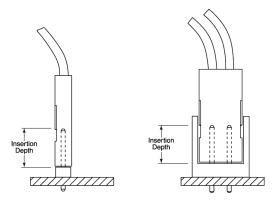
Operating temperature range: -40°C to +125°C

MECHANICAL PERFORMANCE

• Contact retention to housing: 20 N min.

TYPICAL APPLICATIONS





SPECIFICATIONS

- 🔊 File no. E66906
- **(**File no. LR46923
- Product drawing: By 5-digit base part number
- Application specification: TA-531

APPROVALS AND CERTIFICATIONS

• This product is RoHS compatible according to the European Union Directive 2002/95/IEC

PACKAGING

- 1x2 to 1x6 and 2x2 to 2x6: Plastic bags
- Other in tube

PROCESSING INFORMATION

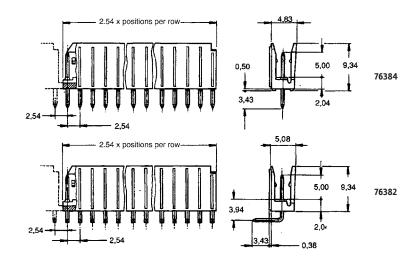
• Compatible with wave soldering processes

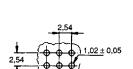
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PART NUMBERS

5 DIGIT BASE F	PART NUMI	BER —	P	PLAT	ING		POSITIONS PER F	ROW	LF
Single row, straight		76384					02 up to 18	3	
Single row, right angle		76382							
Double row, straight		76385		0.76µm (30µin.) gold/GXT or		-	3		
Double row, right angle 763		76383		mating area, tin on solder side					
·			Tir	ı			4		

PRODUCT

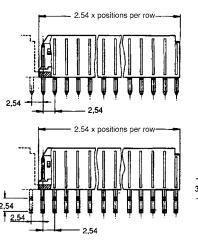


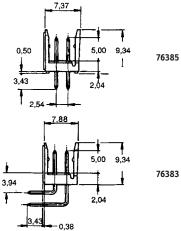


Recommended PCB Layouts

,02 ± 0,05

Recommended PCB Layouts





Dimension in mm

Disclaimer Please note that the above information is subject to change without notice.

subject to change without notice.





DUBOXTM CRIMP-TO-WIRE-CONTACTS



- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force
- Mates with very short pins (5mm)
- Universal crimp barrel accomodates wires from AWG 22-30
- Selective plating

MATERIALS

- Contact: Phosphor-bronze
- Plating: 0.76μm (30μin.) Gold over 1.27μm (50μin.) nickel

ELECTRICAL PERFORMANCE

- Current rating: 3A continuous
- Contact resistance after environmental test: 15mΩ max. - Contact
- Dielectric withstanding voltage: 1000V RMS

ENVIRONMENTAL

Operating temperature range: -65°C to +125°C

MECHANICAL PERFORMANCE

- Mating cycles (durability): 200 Gold
- Insertion force gold finish contact: 1.3 N
- Withdrawal force (min.) gold finish contact: 0.3 N
- Contact retention force to housing: 15 N per contact
- Insertion depth:
 - Discrete wire: 3.6mm min. to 5.6mm max. [provides .381 mm wipe]
- Crimp-to-wire housing: 5.1mm min. to 6.2mm max. [provides .381mm wipe in housing]

TYPICAL APPLICATIONS

Insertion Depth

SPECIFICATIONS

- 🔊 File no. E66906
- 🕃 File no. LR46923
- Product drawing: By 5-digit base part number
- Product specification: BUS-12-055
- Application specification: TA-317, TA-340

APPROVALS AND CERTIFICATIONS

• This product is RoHS compatible according to the European Union Directive 2002/95/IEC

PACKAGING

- 1 Reels
- Boxes Loose piece

PART NUMBERS

CORE RANGE

76347 — 301LF

PART NUMBERS / CONTACTS ON REEL

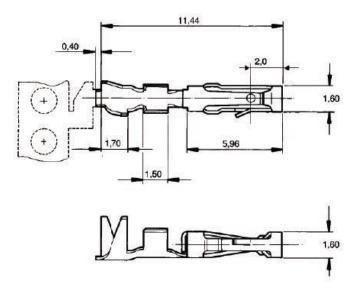
Wire Size	Insulation O.D.	Selective Gold Plated	Tin Plated	Packaging
22-30	0.90 - 1.50	76347-301LF	76347-401LF	15.000/reel
22-30	0.90 - 1.50	76347-302LF•	76347-402LF•	15.000/reel
22-30	0.90 – 1.50	76347-303LF	76347-403LF	500/reel
20-22	1.10 - 1.60	76347-311LF	76347-411LF	15.000/reel
20-22	1.10 - 1.60	76347-312 LF•	76347-412LF•	15.000/reel

PART NUMBERS / CONTACTS LOOSE PIECE

Wire Size	Insulation O.D.	Selective Gold Plated	Tin Plated	Packaging
22-30	0.90 – 1.50	76357-301LF	76357-401LF	1000/box

• : Reeled for application machine with left-to-right feeding

PRODUCT



Contacts to be used with housing = 65239-xxx / 65240-xxxWire strip length = $3,00 \pm 0,25$ mm Mating pin size = 0,62 mm square Mating pin recommended length = 5,00 mm min.

For more information, please contact: Communications@fci.com or visit us at www.fci.com



DUBOX™ CRIMP–TO–WIRE–HOUSINGS



- For use with Dubox[™] crimp-to-wire contacts
- Stackable end-to-end
- Passive latching, anti-reverse and anti-miss-match when used with Dubox™ crimp-to-wire contacts
- Contacts removable for easy repairability

MATERIALS

- Housing: Glass filled thermoplastic polyester
- Housing color: Blue
- Flammability rating: UL94V-0

ELECTRICAL PERFORMANCE

- Insulation resistance: 1 x 10 $^{\scriptscriptstyle 5}\text{M}\Omega$ min.
- Dielectric withstanding voltage: 1000V RMS

ENVIRONMENTAL

• Operating temperature range: -65°C to +125°C

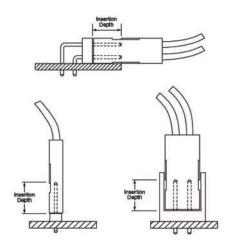
MECHANICAL PERFORMANCE

Insertion depth:
3.6mm min. to 6.0mm max.

SPECIFICATIONS

- 🔊 File no. E66906
- 🚯 File no. LR46923
- Product drawing: By 5-digit base part number
- Application specification: TA-317, TA-340

TYPICAL APPLICATIONS



APPROVALS AND CERTIFICATIONS

 This product is RoHS compatible according to the European Union Directive 2002/95/IEC

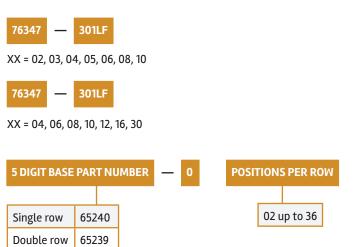
PACKAGING

• Bulk

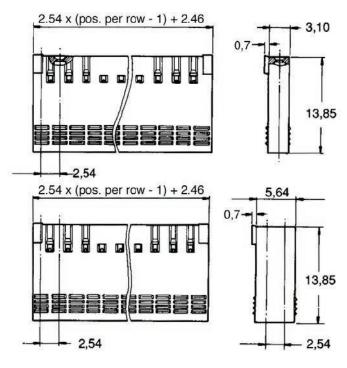
For more information, please contact: Communications@fci.com or visit us at www.fci.com

PART NUMBERS

CORE RANGE



PRODUCT



Pin size: 0.62mm square Recommended pin length: 5.00mm min.

BWBDUB0X2540813EA4

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