



DUBOXTM 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: $15M\Omega$ max. initial, $20M\Omega$ max. after environmental tests
- Dielectric withstanding voltage: 800V

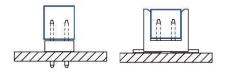
ENVIRONMENTAL

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

- 31 File no. E66906
- **G** 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



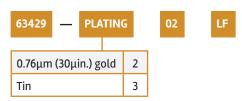
CORE RANGE



LOW PROFILE



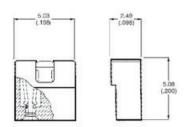
STANDARD

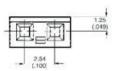


MULTI-POSITION

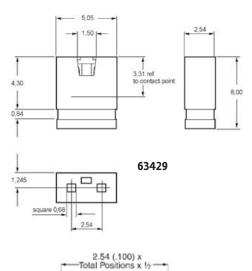


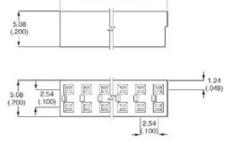
PRODUCT





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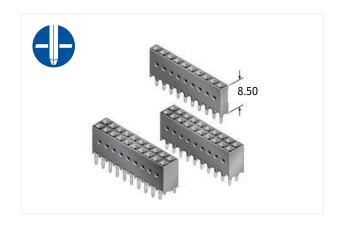


69145





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 603-81

ELECTRICAL PERFORMANCE

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

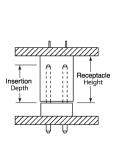
ENVIRONMENTAL

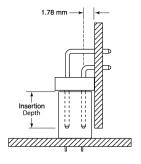
• Operating temperature range: -65°C to +125°C

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

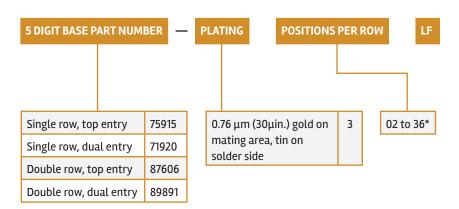
 This product is RoHS compatible according to the European Union Directive 2002/95/IEC

PACKAGING

· Plastic boxes or tubes

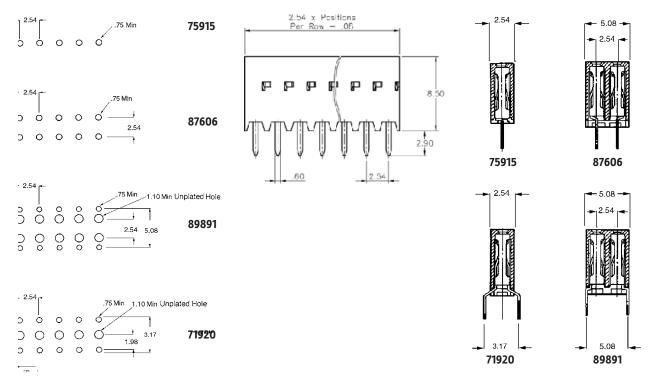
PROCESSING INFORMATION

• Compatible with wave soldering processes



^{*}Other sizes available on request

PRODUCT



Recommended PCB layouts





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: 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: $1 \times 10^5 M\Omega$ min.
- Contact resistance: $15M\Omega$ max. initial, $20M\Omega$ 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

- **51** File no. E66906
- **G** 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

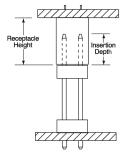
PACKAGING

· Plastic boxes or tubes

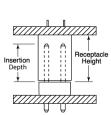
PROCESSING INFORMATION

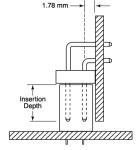
· Compatible with wave soldering processes

TYPICAL APPLICATIONS



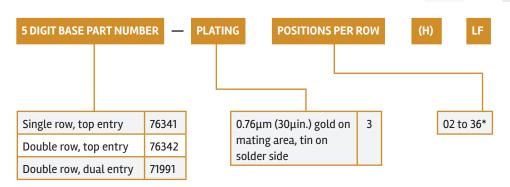






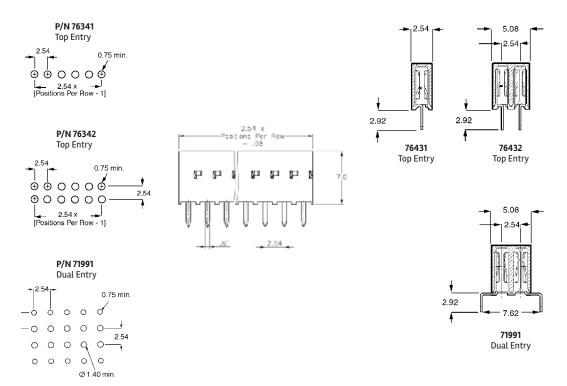
DUBOX™ VERTICALRECEPTACLES LOW PROFILE

PART NUMBERS



^{*}Other sizes available on request

PRODUCT



Recommended PCB layouts





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 RECEPTACLESLOW 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: $1x 10^5 M\Omega$ min.
- Contact resistance: $15M\Omega$ max. initial, $20M\Omega$ max. after environmental tests
- · Dielectric withstanding voltage: 1000V RMS

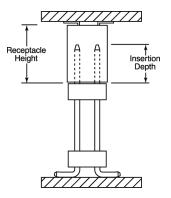
ENVIRONMENTAL

• 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
- **G** 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

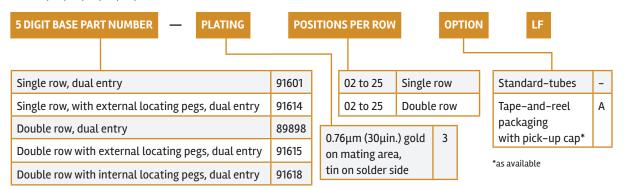
DUBOX™ VERTICAL RECEPTACLESLOW PROFILE

PART NUMBERS

CORE RANGE

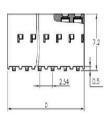


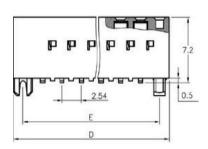
XX = 02, 03, 04, 05, 06, 08, 10



PRODUCT

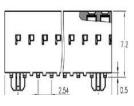
STANDARD





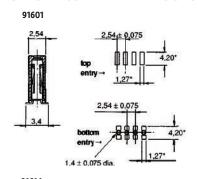
EXTERNAL LOCATING PEGS

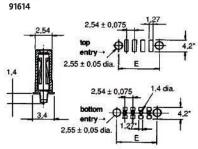
INTERNAL LOCATING PEGS



Dimension in mm

SINGLE ROW + PAD LAYOUTS

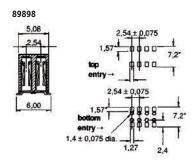


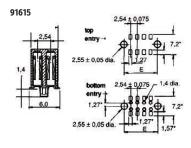


*Note: Available as of 3 positions versions

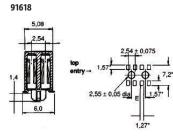
Not available in single row

DOUBLE ROW + PAD LAYOUTS





*Note: Available as of 3 positions versions



Note: All dimensions marked with * are minimum dimensions

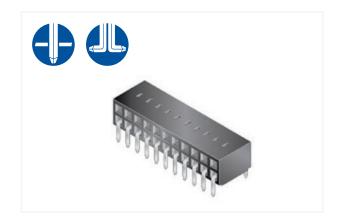
*Note: available as of 6 number of positions

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





DUBOX™ 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: $15M\Omega$ max. initial, $20M\Omega$ max. after environmental tests
- Dielectric withstanding voltage: 1000V RMS

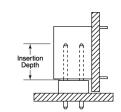
ENVIRONMENTAL

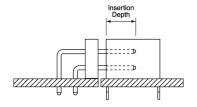
• Operating temperature range: -65°C to +125°C

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
- **G** 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

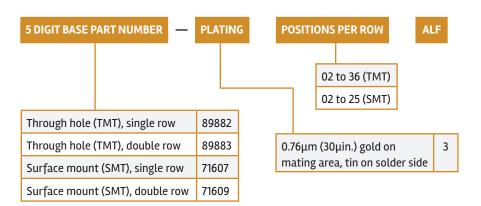
 This product is RoHS compatible according to the European Union Directive 2002/95/IEC

PACKAGING

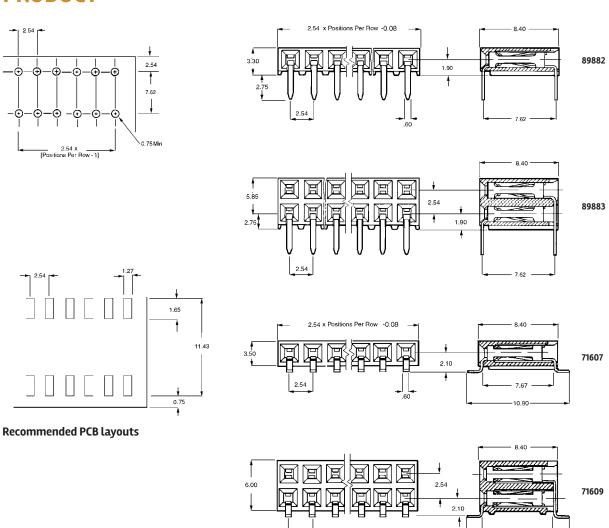
- · Standard: Tubes
- Optional: Tape-and-reel

PROCESSING INFORMATION

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



PRODUCT







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

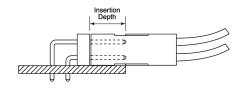
ENVIRONMENTAL

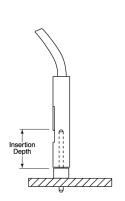
• Operating temperature range: -40°C to +125°C

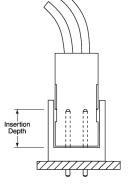
MECHANICAL PERFORMANCE

· Contact retention to housing: 20 N min.

TYPICAL APPLICATIONS







SPECIFICATIONS

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

APPROVALS AND CERTIFICATIONS

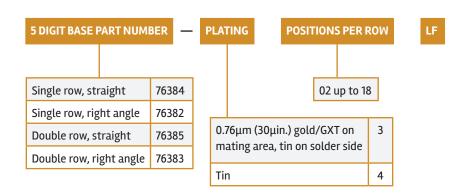
 This product is RoHS compatible according to the European Union Directive 2002/95/IEC

PACKAGING

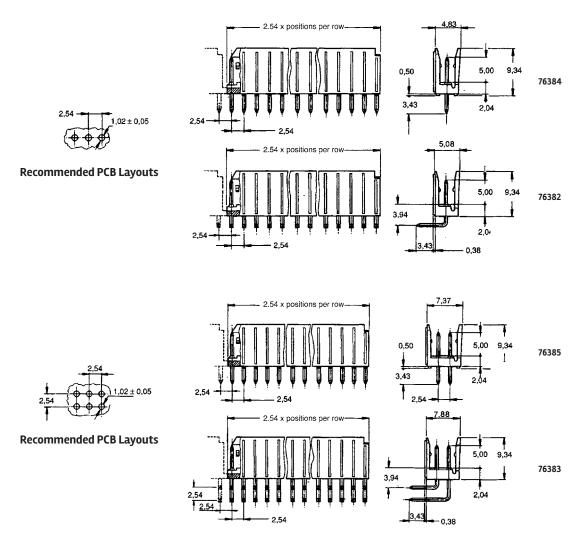
- 1x2 to 1x6 and 2x2 to 2x6: Plastic bags
- · Other in tube

PROCESSING INFORMATION

• Compatible with wave soldering processes



PRODUCT







DUBOX™ 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

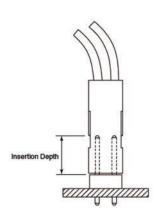
ENVIRONMENTAL

• 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



SPECIFICATIONS

- 🔊 File no. E66906
- **G** 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

CORE RANGE

76347 — 301LF

PART NUMBERS / CONTACTS ON REEL

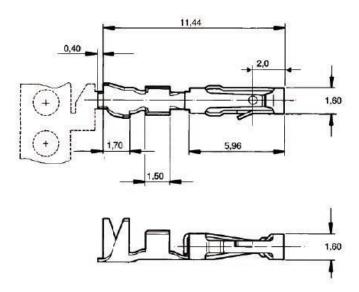
Wire Size	Insulation O.D.	Selective Gold Plated	Tin Plated	Packaging
22-30	0.90 - 1.50	76347-301LF	76347-401LF	15.000/reel
22-30	0.90 - 1.50	76347-302LF•	76347-402LF•	15.000/reel
22-30	0.90 - 1.50	76347-303LF	76347-403LF	500/reel
20-22	1.10 – 1.60	76347-311LF	76347-411LF	15.000/reel
20-22	1.10 – 1.60	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-xxx Wire strip length = $3,00 \pm 0,25$ mm Mating pin size = 0,62 mm square Mating pin recommended length = 5,00 mm min.





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 105MΩ min.
- Dielectric withstanding voltage: 1000V RMS

ENVIRONMENTAL

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

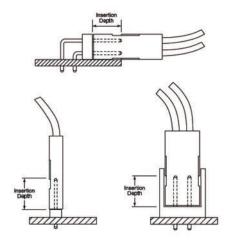
MECHANICAL PERFORMANCE

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

SPECIFICATIONS

- 🛪 File no. E66906
- **G** 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

CORE RANGE



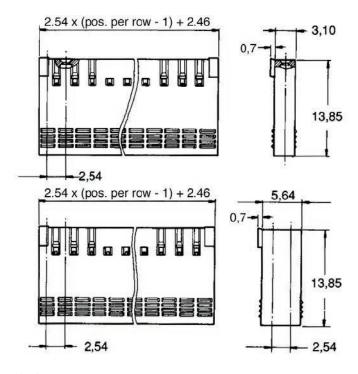
XX = 02, 03, 04, 05, 06, 08, 10



XX = 04, 06, 08, 10, 12, 16, 30



PRODUCT



Pin size: 0.62mm square

Recommended pin length: 5.00mm min.

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609-3404 61062-3 622-0430 622-3653LF 63453-116 636-1030 636-1427 636-3427 636-4007 641938-9 641991-4 644827-2 65817-010LF
65817-015LF 65863-015LF 66207-023LF 67095-007LF 67601157 68648-049 70.362.1628.0 70-4210 70-4226B 70-4853B 707-5020 7075028 71.350.2428.0 71918-208LF 71961-016LF 733-134 733-162 754199-000 760-3052 787-8014-00 79531-3000 FCN-360C032-B FCN367T-T012/H FCN-723D010/2 80.063.4001.1 800-90-001-10-001000 800-90-010-10-002000 801-43-002-10-013000 801-43-006-10-002000