

## FEATURES AND SPECIFICATIONS

## Features and Benefits

- Sizes 10 to 64 circuits
- Available with or without polarization
- Complies with industry-standard DIN 41651 and MIL-3-83503 keying
- Selective Gold plating option for contacts
- Available in various packaging styles

## Reference Information

Product Specification: PS-99020-0015  
 Packaging: Tray (contact Molex for chain)  
 Tooling Information: See end of section  
 Mates With: 90663  
 Use With: 90170 strain relief  
 Designed In: Millimeters

## Electrical

Voltage: 250V  
 Current: 1.0A  
 Contact Resistance: 20mΩ max.  
 Dielectric Withstanding Voltage: 500V AC  
 Insulation Resistance: 1000 MΩ min.

## Mechanical

Mating Force: 350g (0.77 lb) max. per circuit  
 Unmating Force: 50g (0.11 lb) min. per circuit  
 Durability: 300 cycles max.

## Physical

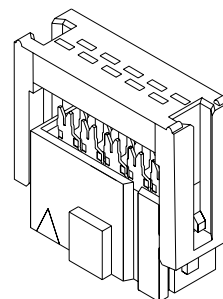
Housing: Glass-filled polyester, UL 94V-0  
 Contact: Copper Alloy  
 Plating: See Table  
 Operating Temperature: -25 to +85°C  
 Cable Accommodation: 26 AWG stranded and 28 AWG stranded and solid



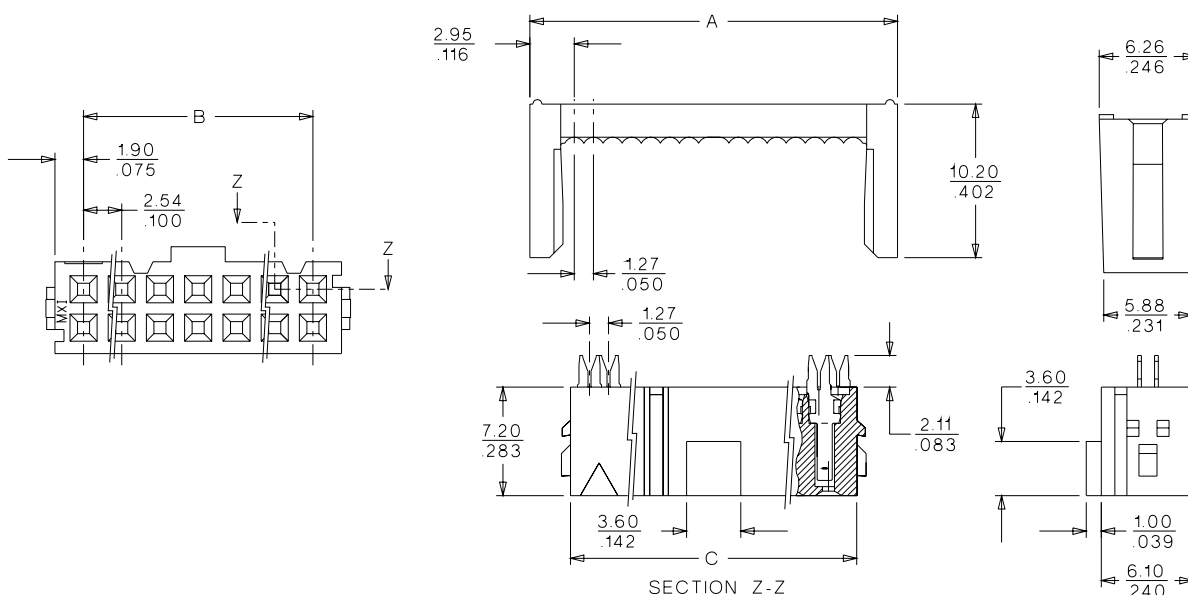
**1.27mm (.050") Pitch**  
**QF 50™**  
**Receptacle**

**90635**

**Vertical, MIL/DIN Version**



## CATALOG DRAWING (FOR REFERENCE ONLY)



## ORDERING INFORMATION AND DIMENSIONS

| Circuits | Order No.         |            |            |                      |            |            | Dimension     |               |               |
|----------|-------------------|------------|------------|----------------------|------------|------------|---------------|---------------|---------------|
|          | With Polarization |            |            | Without Polarization |            |            | A             | B             | C             |
|          | Plating 1         | Plating 2  | Plating 3  | Plating 1            | Plating 2  | Plating 3  |               |               |               |
| 10       | 90635-1101        | 90635-1102 | 90635-1103 | 90635-3101           | 90635-3102 | 90635-3103 | 17.30 (.681)  | 10.16 (.400)  | 13.96 (.550)  |
| 14       | 90635-1141        | 90635-1142 | 90635-1143 | 90635-3141           | 90635-3142 | 90635-3143 | 22.38 (.881)  | 15.24 (.600)  | 19.04 (.750)  |
| 16       | 90635-1161        | 90635-1162 | 90635-1163 | 90635-3161           | 90635-3162 | 90635-3163 | 24.92 (.981)  | 17.78 (.700)  | 21.58 (.850)  |
| 20       | 90635-1201        | 90635-1202 | 90635-1203 | 90635-3201           | 90635-3202 | 90635-3203 | 30.00 (1.181) | 22.86 (.900)  | 26.66 (1.050) |
| 24       | 90635-1241        | 90635-1242 | 90635-1243 | 90635-3241           | 90635-3242 | 90635-3243 | 35.08 (1.381) | 27.94 (1.100) | 31.74 (1.250) |
| 26       | 90635-1261        | 90635-1262 | 90635-1263 | 90635-3261           | 90635-3262 | 90635-3263 | 37.62 (1.481) | 30.48 (1.200) | 34.28 (1.350) |
| 30       | 90635-1301        | 90635-1302 | 90635-1303 | 90635-3301           | 90635-3302 | 90635-3303 | 42.70 (1.681) | 35.56 (1.400) | 39.36 (1.550) |
| 34       | 90635-1341        | 90635-1342 | 90635-1343 | 90635-3341           | 90635-3342 | 90635-3343 | 47.78 (1.881) | 40.64 (1.600) | 44.44 (1.750) |
| 40       | 90635-1401        | 90635-1402 | 90635-1403 | 90635-3401           | 90635-3402 | 90635-3403 | 55.40 (2.181) | 48.26 (1.900) | 52.06 (2.050) |
| 50       | 90635-1501        | 90635-1502 | 90635-1503 | 90635-3501           | 90635-3502 | 90635-3503 | 68.10 (2.681) | 60.96 (2.400) | 64.76 (2.550) |
| 60       | 90635-1601        | 90635-1602 | 90635-1603 | 90635-3601           | 90635-3602 | 90635-3603 | 80.80 (3.181) | 73.66 (2.900) | 77.46 (3.050) |
| 64       | 90635-1641        | 90635-1642 | 90635-1643 | 90635-3641           | 90635-3642 | 90635-3643 | 85.88 (3.381) | 78.74 (3.100) | 82.54 (3.250) |

Plating 1: Contact area: 4μ" Gold flash min. IDT area: 39μ" min. Tin/Lead over Nickel.

Plating 2: Contact area: 30μ" Gold min. IDT area: 39μ" min. Tin/Lead over Nickel.

Plating 3: Contact area: 15μ" Gold min. IDT area: 39μ" min. Tin/Lead over Nickel.