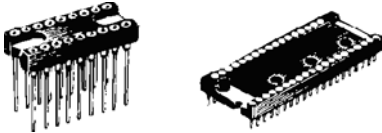


ICA Series Screw Machine Sockets

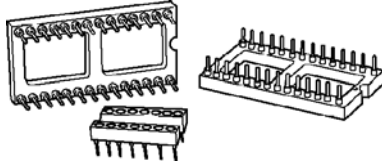


Feature four finger beryllium copper contacts with high retention design. Low profile body with mounting holes. "S" in Mfr.'s Type number indicates solder dip sockets. "WB" in Mfr.'s Type number indicates 3-level wire wrap. **Body Material:** Glass-filled black polyester. **PCB Hole:** 0.035" ±0.002". IC lead and socket leads are coincident. **Plating:** TG30 has 30 µ inch minimum gold on contact area. 200 µ inch minimum tin in the terminal area. TG30 includes an underplate of 50 µ inch minimum nickel. **Temperature Range:** -65°C to +125°C.

3-Level Wire Wrap

| Stock No. | Mfr.'s Type     | No. of Contacts | Length |       | Width |       | EACH |         |         |
|-----------|-----------------|-----------------|--------|-------|-------|-------|------|---------|---------|
|           |                 |                 | In.    | mm    | In.   | mm    | 1-99 | 100-499 | 500-999 |
| 906-5150  | ICA-083-WB-TG30 | 8               | 0.395  | 10.03 | 0.395 | 10.03 | .91  | .79     | .67     |
| 906-5155  | ICA-143-WB-TG30 | 14              | 0.695  | 17.65 | 0.395 | 10.03 | 1.32 | 1.15    | .96     |
| 906-5160  | ICA-163-WB-TG30 | 16              | 0.795  | 20.19 | 0.395 | 10.03 | 1.43 | 1.24    | 1.04    |
| 906-5165  | ICA-203-WB-TG30 | 20              | 0.995  | 25.27 | 0.395 | 10.03 | 1.85 | 1.57    | 1.38    |
| 906-5170  | ICA-246-WB-TG30 | 24              | 1.195  | 30.35 | 0.695 | 17.65 | 2.14 | 1.86    | 1.56    |
| 906-5185  | ICA-286-WB-TG30 | 28              | 1.395  | 35.43 | 0.695 | 17.65 | 2.55 | 2.25    | 1.89    |
| 906-5190  | ICA-406-WB-TG30 | 40              | 1.995  | 50.67 | 0.695 | 17.65 | 3.97 | 3.50    | 2.94    |

ICE Series Open Body Screw Machine Sockets



Features four finger beryllium copper contact that accepts short IC leader. Open body provides connection cooling. Solder DIP sockets. **Body Material:** Black polyester, glass filled. **Shell:** Half hard brass. **Mounting Information:** 0.030" ± 0.002" PCB hole. **Contact Plating:** TG — 10 µ inch minimum gold on contact area. 200 µ inch minimum tin/lead on terminal area. TG30 — 30 µ inch minimum gold on contact area. 200 µ inch minimum tin/lead on terminal area. Both include 50 µ inch minimum nickel underplate. **Temperature Range:** -65°C to +125°C.

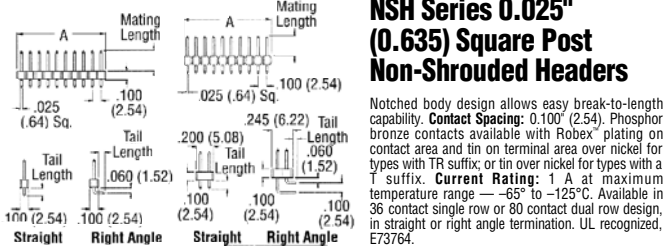
| Stock No. | Mfr.'s Type    | No. of Contacts | Length |       | Width |       | EACH |         |         |
|-----------|----------------|-----------------|--------|-------|-------|-------|------|---------|---------|
|           |                |                 | In.    | mm    | In.   | mm    | 1-99 | 100-499 | 500-999 |
| 906-9989  | ICE-063-S-TG   | 6               | 0.295  | 7.49  | 0.395 | 10.03 | .38  | .32     | .27     |
| 906-8688  | ICE-063-S-TG30 | 6               | 0.295  | 7.49  | 0.395 | 10.03 | .40  | .33     | .29     |
| 906-5905  | ICE-083-S-TG   | 8               | 0.395  | 10.03 | 0.395 | 10.03 | .30  | .22     | .18     |
| 906-8690  | ICE-083-S-TG30 | 8               | 0.395  | 10.03 | 0.395 | 10.03 | .58  | .48     | .41     |
| 906-5910  | ICE-143-S-TG   | 14              | 0.695  | 17.65 | 0.395 | 10.03 | .38  | .33     | .29     |
| 906-8692  | ICE-143-S-TG30 | 14              | 0.695  | 17.65 | 0.395 | 10.03 | .68  | .57     | .48     |
| 906-5915  | ICE-163-S-TG   | 16              | 0.795  | 20.19 | 0.395 | 10.03 | .40  | .37     | .33     |
| 906-8694  | ICE-163-S-TG30 | 16              | 0.795  | 20.19 | 0.395 | 10.03 | .80  | .68     | .57     |
| 906-8696  | ICE-183-S-TG   | 18              | 0.895  | 22.73 | 0.395 | 10.03 | .44  | .37     | .32     |
| 906-8698  | ICE-183-S-TG30 | 18              | 0.895  | 22.73 | 0.395 | 10.03 | .86  | .72     | .61     |
| 906-5920  | ICE-203-S-TG   | 20              | 0.995  | 25.27 | 0.395 | 10.03 | .83  | .70     | .58     |
| 906-8700  | ICE-203-S-TG30 | 20              | 0.995  | 25.27 | 0.395 | 10.03 | .95  | .80     | .67     |
| 906-8702  | ICE-243-S-TG   | 24              | 1.195  | 30.35 | 0.395 | 10.03 | .57  | .48     | .40     |
| 906-8704  | ICE-243-S-TG30 | 24              | 1.195  | 30.35 | 0.395 | 10.03 | .68  | .57     | .48     |
| 906-8706  | ICE-244-S-TG   | 24              | 1.195  | 30.35 | 0.495 | 12.57 | 1.44 | 1.20    | 1.01    |
| 906-8708  | ICE-244-S-TG30 | 24              | 1.195  | 30.35 | 0.495 | 12.57 | 1.45 | 1.21    | 1.02    |
| 906-5925  | ICE-246-S-TG   | 24              | 1.195  | 30.35 | 0.695 | 17.65 | .57  | .48     | .40     |
| 906-8710  | ICE-246-S-TG30 | 24              | 1.195  | 30.35 | 0.695 | 17.65 | .68  | .57     | .48     |
| 906-8712  | ICE-283-S-TG   | 28              | 1.395  | 35.43 | 0.395 | 10.03 | .68  | .57     | .48     |
| 906-8714  | ICE-283-S-TG30 | 28              | 1.395  | 35.43 | 0.395 | 10.03 | .85  | .72     | .60     |
| 906-5930  | ICE-286-S-TG   | 28              | 1.395  | 35.43 | 0.695 | 17.65 | .71  | .62     | .56     |
| 906-8716  | ICE-286-S-TG30 | 28              | 1.395  | 35.43 | 0.695 | 17.65 | .78  | .66     | .55     |
| 906-5935  | ICE-326-S-TG   | 32              | 1.595  | 40.51 | 0.695 | 17.65 | .76  | .64     | .54     |
| 906-8718  | ICE-326-S-TG30 | 32              | 1.595  | 40.51 | 0.695 | 17.65 | .91  | .76     | .64     |
| 906-5940  | ICE-406-S-TG   | 40              | 1.995  | 50.67 | 0.695 | 17.65 | .95  | .80     | .67     |
| 906-8720  | ICE-406-S-TG30 | 40              | 1.995  | 50.67 | 0.695 | 17.65 | 1.12 | .94     | .79     |
| 906-8722  | ICE-649-S-TG   | 64              | 3.195  | 81.15 | 0.995 | 25.27 | 2.06 | 1.72    | 1.44    |
| 906-8724  | ICE-649-S-TG30 | 64              | 3.195  | 81.15 | 0.995 | 25.27 | 2.81 | 2.39    | 2.00    |

ICB Series Solder DIP Production Sockets

Dual contact, low profile socket allows dense board-to-board spacing. Features closed bottom body design and self-locking tail. Dual wiping contact design offers high compression for gas-tight reliability. Beryllium copper contacts. **Body:** Black polyester, glass-filled. **Contact Finish:** 200 µ inch min. tin/lead in contact area; 100 µ inch tin/lead on terminal area. **Terminal Area:** 100 µ inch min. electro tin over 50 µ inch min. nickel. **Temperature Range Rating:** -65°C to +125°C. **PCB Hole Mounting:** 0.040" ±0.002" 3 dia.



| Stock No. | Mfr.'s Type  | No. of Contacts | Length |       | Width |       | EACH |         |         |
|-----------|--------------|-----------------|--------|-------|-------|-------|------|---------|---------|
|           |              |                 | In.    | mm    | In.   | mm    | 1-99 | 100-499 | 500-999 |
| 906-8670  | ICB-083-S8-T | 8               | 0.395  | 10.03 | 0.400 | 10.16 | .21  | .16     | .14     |
| 906-8672  | ICB-143-S8-T | 14              | 0.695  | 17.65 | 0.400 | 10.16 | .37  | .27     | .23     |
| 906-8674  | ICB-163-S8-T | 16              | 0.795  | 20.19 | 0.400 | 10.16 | .23  | .20     | .19     |
| 906-8676  | ICB-203-S8-T | 20              | 0.995  | 25.27 | 0.400 | 10.16 | .27  | .24     | .21     |
| 906-8678  | ICB-243-S8-T | 24              | 1.195  | 30.35 | 0.400 | 10.16 | .32  | .28     | .25     |
| 906-8680  | ICB-246-S8-T | 24              | 1.195  | 30.35 | 0.700 | 17.78 | .32  | .28     | .25     |
| 906-8682  | ICB-286-S8-T | 28              | 1.395  | 35.43 | 0.700 | 17.78 | .38  | .33     | .30     |
| 906-8684  | ICB-406-S8-T | 40              | 1.995  | 50.67 | 0.700 | 17.78 | .53  | .45     | .41     |



NSH Series 0.025" (0.635) Square Post Non-Shrouded Headers

Notched body design allows easy break-to-length capability. **Contact Spacing:** 0.100" (2.54). Phosphor bronze contacts available with Robex® plating on contact area and tin on terminal area over nickel for types with TR suffix; or tin over nickel for types with a T suffix. **Current Rating:** 1 A at maximum temperature range — -65° to -125°C. Available in 36 contact single row or 80 contact dual row design, in straight or right angle termination. UL recognized, E73764.

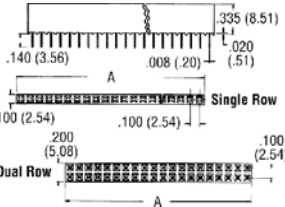
36 Contacts Single Row, 3.60" (91.44) Wide

| Stock No. | Mfr.'s Type     | Mount       | Dim. "A"      | EACH |         |
|-----------|-----------------|-------------|---------------|------|---------|
|           |                 |             |               | 1-99 | 100-499 |
| 906-3140  | NSH-36SA-S2-T   | Straight    | 0.318" (8.08) | .60  | .53     |
| 906-3142  | NSH-36SA-S2-TR  | Straight    | 0.318" (8.08) | .89  | .77     |
| 906-3144  | NSH-36SA-SR2-TR | Right Angle | 0.318" (8.08) | .75  | .66     |
| 906-3146  | NSH-36SB-SR2-TR | Right Angle | 0.230" (5.84) | .73  | .64     |

80 Contacts Dual Row, 4.00" (101.60) Wide

| Stock No. | Mfr.'s Type     | Mount       | Dim. "A"      | EACH |         |
|-----------|-----------------|-------------|---------------|------|---------|
|           |                 |             |               | 1-99 | 100-499 |
| 906-3148  | NSH-80DA-S2-T   | Straight    | 0.318" (8.08) | 1.02 | .88     |
| 906-3150  | NSH-80DA-S2-TR  | Straight    | 0.318" (8.08) | 1.30 | 1.12    |
| 906-3152  | NSH-80DA-SR2-TR | Right Angle | 0.318" (8.08) | 1.51 | 1.31    |
| 906-3154  | NSH-80DB-SR2-TR | Right Angle | 0.230" (5.84) | 1.36 | 1.18    |

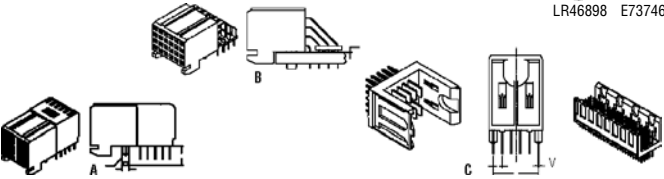
SBQ Series 0.025" (0.635) Square Post Receptacles



Socket mates to square post non-shrouded headers. **Contact Spacing (Available in Single or Dual Rows):** 0.100" × 0.100" (2.54 × 2.54). High-temperature back thermoplastic body can be cut to size; rated UL94V-0. Excellent for add-on cards. Phosphor bronze contacts available with 10 µ" gold over nickel on contact area and 100 µ" tin on terminal area. **Current Rating:** 1 A. **Temperature Range:** -65°C to +105°C.

| Stock No. | Mfr.'s Type      | Rows   | Contacts | EACH |         |
|-----------|------------------|--------|----------|------|---------|
|           |                  |        |          | 1-99 | 100-499 |
| 906-3172  | SBQ-36P-S-100-TG | Single | 36       | 1.56 | 1.35    |
| 906-3174  | SBQ-72P-D-100-TG | Dual   | 72       | 3.80 | 3.35    |

METPACK® 2 Sockets and Headers



**Materials.** **Housing:** High temperature, 30% glass filled, liquid crystal polymer. UL94V-0. **Contacts:** Standard header — phosphor bronze; Socket — beryllium copper. **Plating:** 30 µ" ROBEX® (27 µ" minimum palladium nickel with 3 µ" minimum gold flash on contact area). **Terminal Area:** 100 µ" minimum tin/lead. **Underplate:** 50 µ" minimum nickel. **Current Rating:** Signal — 1.0 A - All contacts simultaneously, 3.0 A - Single contact; Power — 6.5 A per power socket/header. **Contact Temperature:** 70°C.

Female Power Socket, Right Angle Molded, 4 or 5 Row, Solder Termination

| Stock No. | Mfr.'s Type        | Fig. | Positions/ Rows | Tail Length (mm) | PCB Thickness (mm) | EACH |       |
|-----------|--------------------|------|-----------------|------------------|--------------------|------|-------|
|           |                    |      |                 |                  |                    | 1-24 | 25-49 |
| 906-3500  | MP2-SP08-41M1-TR30 | A    | 8 (4 × 2)       | 2.72             | 1.6                | 3.28 | 2.74  |
| 906-3505  | MP2-SP10-51M1-TR30 | A    | 10 (5 × 2)      | 2.72             | 1.6                | 3.94 | 3.28  |

Female Signal Socket, Right Angle Molded, 4 or 5 Row, Press-In, Hold Down, Solder Termination

|          |                    |   |              |      |     |       |       |
|----------|--------------------|---|--------------|------|-----|-------|-------|
| 906-3510 | MP2-SQ24-41M1-TR30 | B | 24 (4 × 6)   | 2.72 | 1.6 | 2.43  | 2.03  |
| 906-3515 | MP2-SQ30-51M1-TR30 | B | 30 (5 × 6)   | 2.72 | 1.6 | 3.02  | 2.52  |
| 906-3520 | MP2-SQ60-51M1-TR30 | B | 60 (5 × 12)  | 2.72 | 1.6 | 5.28  | 4.41  |
| 906-3525 | MP2-SQ72-41M1-TR30 | B | 72 (4 × 18)  | 2.72 | 1.6 | 6.47  | 5.39  |
| 906-3530 | MP2-S144-41M2-TR30 | B | 144 (4 × 36) | 3.53 | 2.4 | 12.36 | 10.31 |

Male Power Header, Straight PCB Solder Tail, 4 or 5 Row, Solder Termination

|          |                    |   |            |      |   |      |      |
|----------|--------------------|---|------------|------|---|------|------|
| 906-3550 | MP2-HP08-41S1-TR30 | C | 8 (4 × 2)  | 4.60 | — | 3.04 | 2.54 |
| 906-3555 | MP2-HP10-51S1-TR30 | C | 10 (5 × 2) | 4.60 | — | 3.49 | 2.91 |

Male Signal Header, Straight, PCB Solder Tail, 4 or 5 Row, Solder Termination

|          |                    |   |              |      |   |      |      |
|----------|--------------------|---|--------------|------|---|------|------|
| 906-3560 | MP2-HQ24-41S1-TR30 | C | 24 (4 × 6)   | 4.60 | — | 2.10 | 1.75 |
| 906-3565 | MP2-HQ30-51S1-TR30 | C | 30 (5 × 6)   | 4.60 | — | 2.53 | 2.11 |
| 906-3570 | MP2-HQ60-51S1-TR30 | C | 60 (5 × 12)  | 4.60 | — | 3.86 | 3.22 |
| 906-3575 | MP2-HQ72-41S1-TR30 | C | 72 (4 × 18)  | 4.60 | — | 4.57 | 3.81 |
| 906-3580 | MP2-H144-41S1-TR30 | C | 144 (4 × 36) | 4.60 | — | 8.53 | 7.11 |