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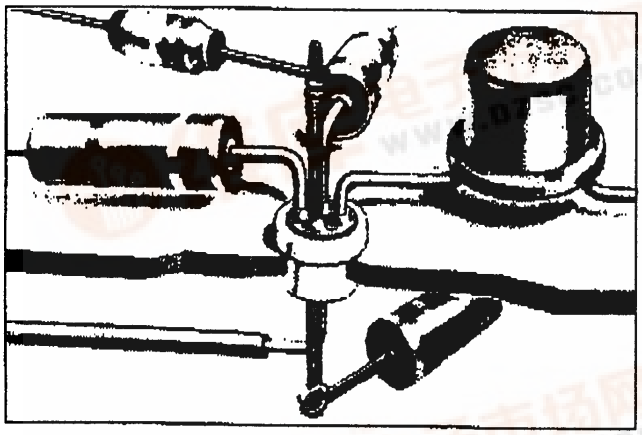
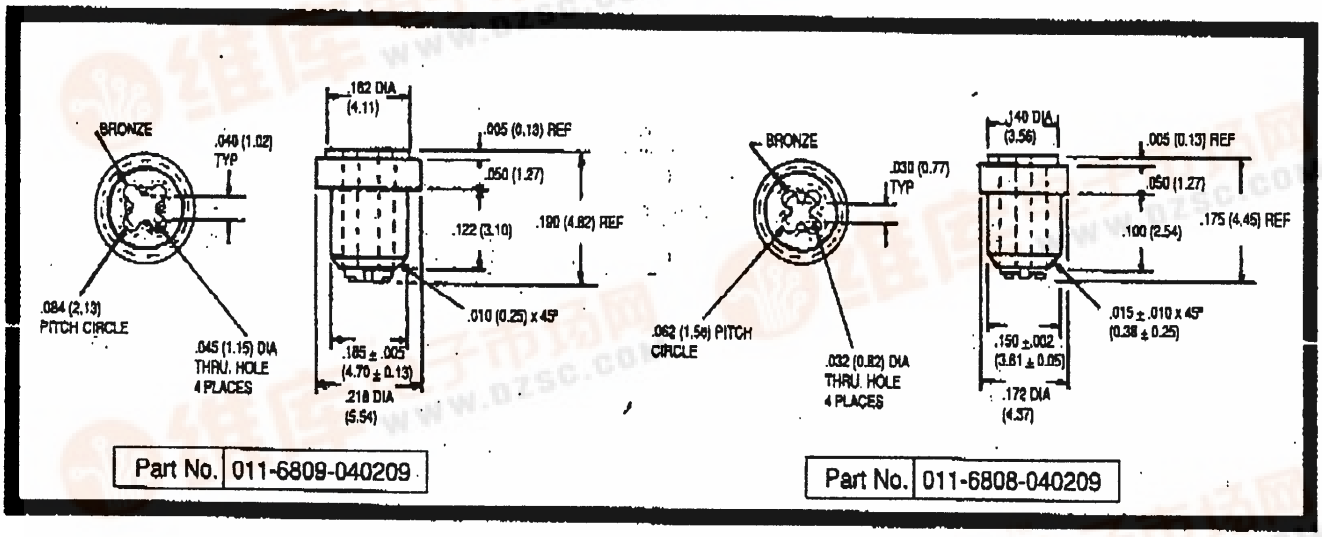
CLOVERLEAF® FEED-THROUGHS Press-Fit Terminals

The Press-Fit Cloverleaf Receptacle provides economical, yet uniformly perfect solder joints by means of dip soldering with metal chassis. The unique Cloverleaf configuration permits insertion of four or more wire leads.
The reliability of dip solder joints made with the Cloverleaf receptacle, combined with the inherent dependability and repairability of metal chassis construction makes it ideal for use in high density, complex electronic instrumentation packaging, while the low cost of the terminal and its installation provides a new and better assembly technique for premium quality radio and television manufacturing.



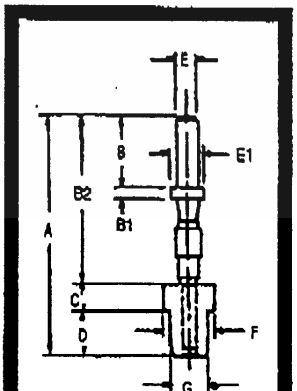
Specification	011-6808-040209	011-6809-040209
Insertion Tool No.	B-9-4	B-9-5
Chassis Thickness	.040 - .060 *1.02 - 1.54*	.040 - .060 *1.02 - 1.54*
Chassis Hole Dia.	.136 ± .002 *3.45 ± 0.05*	.172 ± .002 *4.4 ± 0.05*
Chassis Hole Countersink Dia.(60°)	.160+.010-.000 *4.06+0.03-0.00*	.195+.010-.000 *5.00+0.03-0.00*
Insert Material & Finish	Bronze P20 (Gold)	
Suitable for Wire Lead	23 SWG or smaller *0.6*	20 SWG or smaller *0.9*
Approx. Capacitance	0.75 mmf	0.90 mmf
Voltage Rating Nom. (RMS)	500V	500V
Voltage Rating Flash-over (RMS)	2000V	2000V



SEMI-ASSEMBLED FEED-THROUGHS Insulated Terminals

This style of terminal is positioned in the unchamfered chassis hole with the terminal pin partly inserted in the insulator. The pin is then pressed fully home expanding the insulator and locking the terminal in position.

Fig.	Part No.	Tool No.	Approx Capac. mmf	Peak Voltage Rating	Chassis Hole Size	Recommended Chassis Thickness	A	B	B1	B2	C	D	E	E1	F	G
25	001-1407-041609	R9	0.75	1000	.091-.095 *2.32-2.42*	.030-.056 *0.076-1.42*	.460 *11.69*	.120 *3.05*	.020 *0.51*	.311 *7.90*	.055 *1.40*	.092 *2.34*	.040 *1.00*	.093 *2.36*	.124 *3.15*	.090 *2.29*
25	011-1409-041609	R8	1.00	2000	.154-.158 *3.91-4.02*	.058-.115 *0.076-2.92*	.691 *17.55*	.125 *3.18*	.030 *0.076*	.443 *11.25*	.093 *2.36*	.155 *3.94*	.075 *1.91*	.125 *3.18*	.188 *4.78*	.153 *3.89*



TECHNICAL DATA Press-Fit Insulated Terminals

Press-Fit Terminals have outstanding electrical, mechanical, thermal and chemical properties made possible through the use of uncontaminated ptfe resin - long known for its exceptional inherent physical properties - as well as close fabrication control. The highest production standards are assured because quality control at ITT Sealectro is based on United Kingdom Ministry specifications and methods and these inspection procedures are carried on from receipt of the ptfe right down to the assembled terminals.

Characteristics of ptfe

Electrical Properties

Volume Resistivity (50% RH, 23°C)	10^{18}ohm/cm
Dielectric Constant (60 Hz to 10^6 Hz)	2.0-2.2
Dielectric Strength (volts/mil)	400-450
Dissipation (power) Factor (60 Hz to 10^6Hz)	0.0002
Corona Resistance (see ratings in tables)	No tracking or carbonizing
Capacitance (see ratings in tables)	Very low

Mechanical Properties

Tensile Strength	1500-2500 psi (105 kgf/cm² - 175 kgf/cm²)
Elongation	75-150%
Modulus of Elasticity	50000-55000 psi (3500 kgf/cm² - 3850 kgf/cm²)

Chemical Properties

Resistant to all acids and alkalis of all concentrations, as well as to all common solvents, fungus and rot.

Water absorbtion [24 hour immersion 1/8" (3.175) thickness]	0.01%
Burning Rate	None
Effect of Sunlight, Ultra-violet and Infra-red light	None
Temperature Range (not affected by soldering operations or cryogenic environs)	-100°C to +250°C (-148°F to +482°F)

Testing Data

Capacitance and voltage measured with terminals installed in chassis permitting 0.040" (1.016) protrusion of the ptfe bushing but not more than 0.050" (1.27) thick.

Note: While the above values are typical of the materials used, they should not be quoted on users specifications or drawings of ITT Sealectro Insulated Terminals

Plating

Standard plating code for the lug portion of each terminal is given in the 13th & 14th digits of the part number.

20	Gold flash 0.000005" (0.13 micron) min. over silver 0.0003" (7.62 micron) min.
51	Greville Tinned to ITT Sealectro specification A0143502
59	Bright acid tin 0.0003" (7.62 micron) min. over 0.0002" (5.08 micron) min. copper
60	Silver 0.0002" (5.08 micron) over copper flash.

Bushing Colour

All terminals are manufactured with white ptfe

Dimensions

All dimensions are in inches with metric equivalents given in brackets or green throughout.