SINGLE THRU HOLE IDC CONTACT 12-18 AWG: 9177-600

General Information





KYOCERA AVX developed the initial SMT discrete wire IDC connector 5 years ago for 26-28AWG wires. Since then, we have seen this Wire-to-Board (WTB) contact technology spread to multiple wire gauges and multiple configurations; standard connectors, capped connectors and single contacts. All of which addresses specific application or cost parameters set forth by our customer in demanding industrial, transportation or commercial applications. The heart of the IDC connector is the true "gas tight" WTB termination that is achieved once the wire is inserted between the dual phosphor bronze contact tines. These opposing tines provide enough spring characteristics to allow the termination to remain stable over extreme levels of temperature, shock and vibration.

The new 9177-600 family of contacts incorporates all of the above mentioned capabilities. From low cost single contacts to fully integrated capped contacts. The unique feature of the 600 series is the fact that it was developed for Plated Through Hole (PTH) termination to the PCB. This addresses the rugged power type boards that have to handle larger wire gauges up to 12AWG and 15 Amps per contact of current. The PTH option provides robust PCB attachment and high current capabilities to replace older technology connectors or in most cases soldering stripped wires directly to the PCB.

APPLICATIONS

- · Industrial pumps, motors and driver boards
- Solar and alternative energy products
- Commercial electrical equipment
- Reference Product Specification & application notes 201-01-141/142

FEATURES AND BENEFITS

- · IDC contact provides a "gas tight" wire termination to the PCB to meet harsh industrial
- Simple, robust design offers a high performance solution to hand soldering large gauge wires to a PCB
- A single contact an handle up to 15A for high current applications with wire replacement up to 3 times
- The versatile family of IDC contact can accept 12-18AWG of stranded wires and can be tested for compliance with solid wires

ELECTRICAL

- Current Rating: 15A
- Voltage Rating: 600 VAC

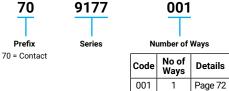
ENVIRONMENTAL

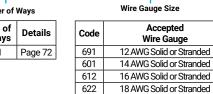
· Operating Temperature: -40°C to +125°C

MECHANICAL

- · Insulator Material: Nylon 46, UL94VO
- Contact Material: Phosphor Bronze
- Plating: Tin over Nickel
- Durability: Wires can be replaced up to 3 time

HOW TO ORDER - CONTACT OPTIONS



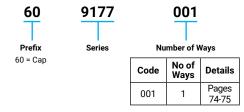


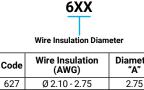




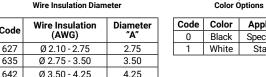
RoHS

HOW TO ORDER - CAP OPTIONS





6XX



	Color (Options		Ass	ser	
ode	Color	Application		Code	Г	
0	Black	Special Order]	00	Г	
1	White	Standard	1	99	Г	

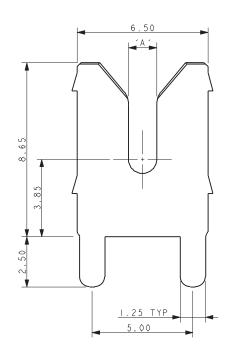
Assembly Options		
Code	Description	
00	Through Wire	
99	With Stop	

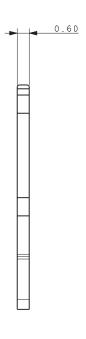
SINGLE THRU HOLE IDC CONTACT 12-18 AWG: 9177-600

Contact Details

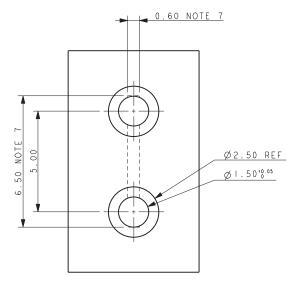


70-9177-001-6XX-006 **CONTACT DETAILS**





PCB LAYOUT FOR CONTACT



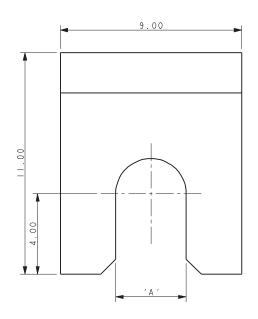
Code	Accepted Wire Gauge	Α
691	12 AWG Solid or Stranded	1.50
601	14 AWG Solid or Stranded	1.10
612	16 AWG Solid or Stranded	0.82
622	18 AWG Solid or Stranded	0.72

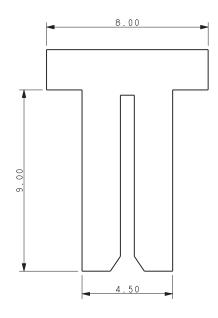
- 1. IDC CONTACT OT ACCEPT WIRES FROM 12 AWG TO 18 AWG.
- 2. MATERIAL: PHOSPHOR BRONZE.
- 3. PLATING PURE TIN OVER NICKEL.
- 4. ALL DIMENSIONS ±0.20 UNLESS SPECIFIED.
- 5. PACKING IN BAGS, 800 PIECES PER BAG.
- 6. PRODUCT SPECIFICATION REFER TO 201-01-141.
- 7. OUTLINE OF CONTACT SEE PAGE 71 FOR ADDITIONAL CLEARANCE REQUIRED FOR WIRE INSERTION TOOL.
- 8. FOR ASSEMBLY DETAILS REFER TO APPLICATION NOTES 201-01-142.



ASSEMBLY TOOLING

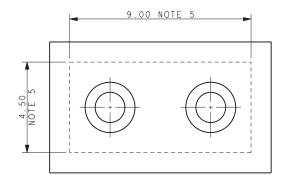
Part Number	Wire Insulation	Α
06-9177-7021-01-000	Ø 3.50 - 4.25	4.25
06-9177-7021-02-000	Ø 3.50 - 4.50	3.50
06-9177-7021-03-000	Ø 3.50 - 2.75	275





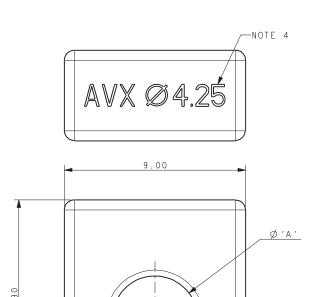
- 1. WIRE INSERTION TOOL 06-9177-7021-0X-000, FULL PART NUMBER REFER TO TABLE.
- 2. TOOL PART NUMBER DEPENDENT ON WIRE INSULATION DIAMETER NOT WIRE GAUGE OR CONTACT NUMBER.
- 3. ASSEMBLY DETAILS REFER TO APPLICATION NOTES 201-01-142
- 4. MATERIAL: TOOL STEEL.
- 5. APACE REQUIRED ON PCB FOR TOO. NO COMPONENTS IN THIS AREA.

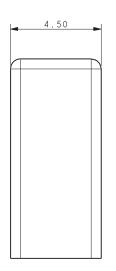
PCB CLEARANCE AREA FOR TOOL

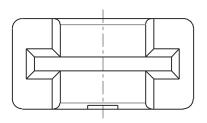




60-9177-001-6XX-X00 1 WAY WIRE THROUGH **CAP DETAILS**







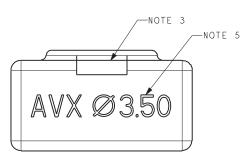
Code page 71	Diameter A	Text Note 4
627	2.75	1.50
635	3.50	1.10
642	4.25	0.82

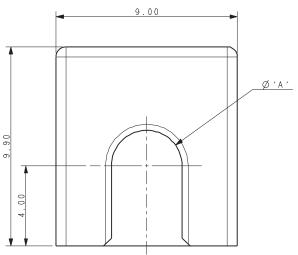
NOTES:

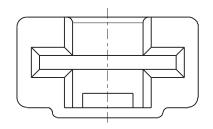
- 1. CAP FOR IDC WIRE TO BOARD CONNECTION, 1 WAY WITH THROUGH WIRE.
- 2. WIRE THROUGH CAP FOR ASSEMBLY AT ANY POSITION ON A WIRE.
- 3. CAP MATERIAL: GLASS FILLED NYLON 46, UL94 V-0. COLOR SEE PAGE 71.
- 4. CAP DESIGNED TO ACCOMMODATE WIRE INSULTATION. DIAMETERS 2.10MM TO 2.75MM, 2.75MM TO 3.50MM AND 3.50MM TO 4.25MM.
- 5. ALL DIMENSIONS ±0.20 UNLESS STATED.
- 6. PACKED IN BAGS, QUANTITY 800 PIECES PER BAG.
- 7. PRODUCT SPECIFICATION REFER TO 201-01-141.
- 8. FOR ASSEMBLY DETAILS REFER TO APPLICATION NOTES 201-01-142.

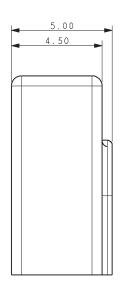


60-9177-001-6XX-X99 1 WAY WIRE STOP **CAP DETAILS**









Code page 71	Diameter A	Text Note 4
627	2.75	2.75
635	3.50	3.50
642	4.25	4.25

NOTES:

- 1. CCAP FOR IDC WIRE TO BOARD CONNECTION, 1 WAY WITH WIRE STOP.
- 2. WIRE STOP FOR USE AT END OF WIRE.
- 3. SLOT TO CHECK WIRE POSITION BEFORE ASSEMBLY.
- 4. CAP MATERIAL: GLASS FILLED NYLON 46, UL94 V-0. COLOR SEE PAGE 71.
- 5. CAP DESIGNED TO ACCOMMODATE WIRE INSULTATION. DIAMETERS 2.10MM TO 2.75MM, 2.75MM TO 3.50MM AND 3.50MM TO 4.25MM.
- 6. ALL DIMENSIONS ±0.20 UNLESS STATED.
- 7. PACKED IN BAGS, QUANTITY 800 PIECES PER BAG.
- 8. PRODUCT SPECIFICATION REFER TO 201-01-141.
- 9. FOR ASSEMBLY DETAILS REFER TO APPLICATION NOTES 201-01-142.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Headers & Wire Housings category:

Click to view products by Kyocera AVX manufacturer:

Other Similar products are found below:

892-18-020-10-001101 58102-G61-06LF 582553-1 0009485154 009176003701906 0050291907 LY20-4P-DT1-P1E-BR 02.125.8002.8
609-3404 61062-3 61082-181009 622-3653LF 63453-116 636-1030 636-1427 636-3427 636-4007 641938-9 641991-4 644827-2 65817010LF 65817-015LF 65863-015LF 66207-023LF 67095-007LF 67601157 68645-018 68648-049 70.362.1628.0 70-4210 70-4226B 704853B 707-5020 707-5028 71.350.2428.0 71918-208LF 71961-016LF 733-134 733-162 754199-000 760-3052 787-8014-00 79531-3000
FCN-360C032-B FCN-367T-T012/H FCN-723D010/2 80.063.4001.1 800-90-001-10-001000 800-90-010-10-002000 801-43-002-10-013000