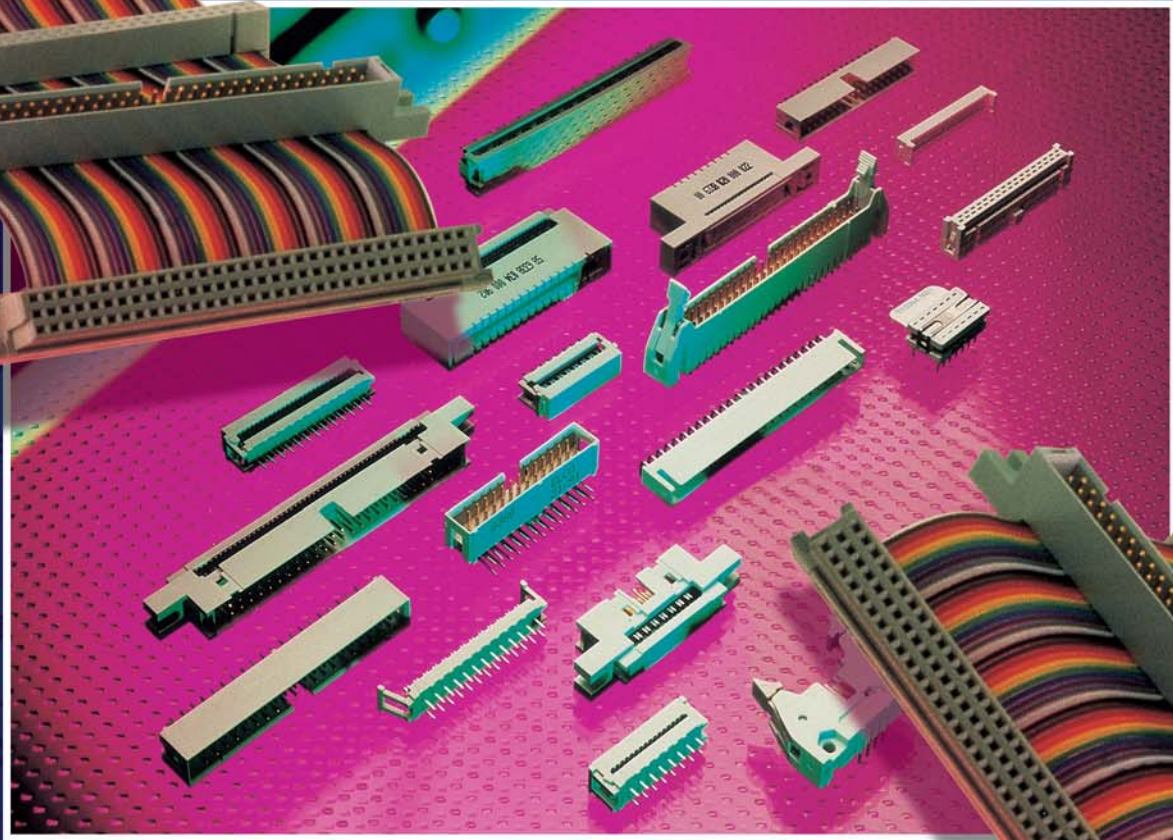


AVX
A KYOCERA GROUP COMPANY



**IDC For Round
Conductor Flat Cable**

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Connector Approvals



File No. E90723

Series

8289	IDC P.C.B. Header
8290	IDC Socket Connector
6338	IDC Card Edge Connector
8399	IDC Transition Connector (Dual In-Line)
8380	Low Profile Box Header

UL Wiring Harness - 764 File No.

E137836 IDC Cable Assemblies



File No. 1255749

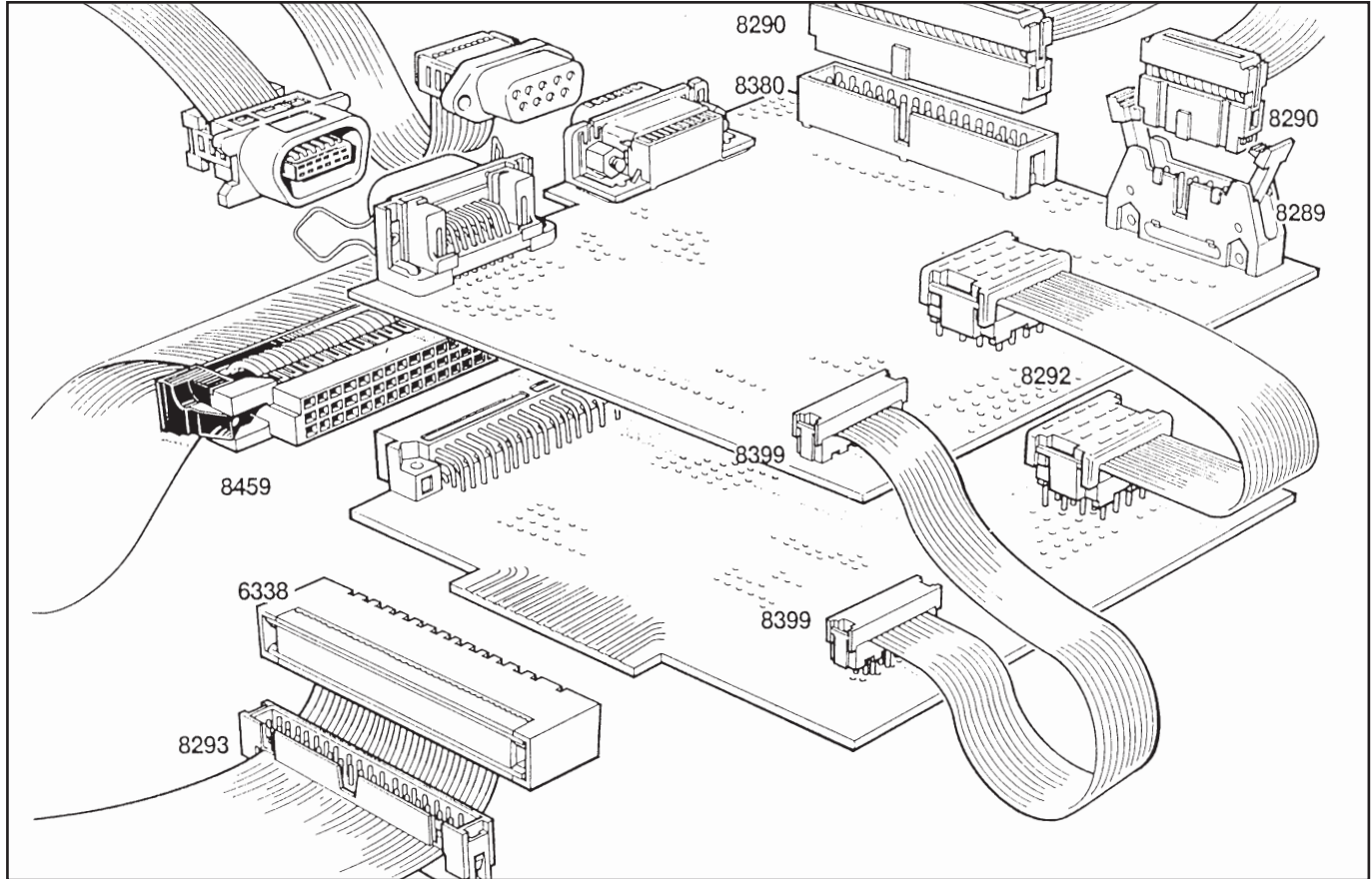
Series

8289	IDC P.C.B. Header
8290	IDC Socket Connector
6338	IDC Card Edge Connector
8399	IDC Transition Connector (Dual In-Line)
8380	Low Profile Box Header

NOTICE: Specifications are subject to change without notice. Contact your nearest AVX Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable, but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all applications.

Introduction

Your Complete IDC Connector Source



AVX is approved by B.S.I. to B.S.E.N. ISO 9001 to manufacture a broad line of popular IDC connector configurations for a wide variety of applications:

- Telecommunications
- Computers & Peripherals
- Consumer & Business/Office Equipment
- Robotics
- Terminals
- Appliances
- Automotive Electronics
- Military & Aerospace Equipment

And any other cable-to-board, board-to-board and cable-to-cable interface on 0.050" - (1.27mm) and 0.100" (2.54mm) spacing!

BENEFITS OF FLAT CABLE MASS TERMINATION

- Space efficient and easy to route in tight enclosures
- Easy, fast and reliable termination, with controlled centerline spacing
- Reliable coplanarity provides accurate spacing from #1 to last conductor
- No need for wire stripping, prepping or soldering
- Operators easily trained, to achieve minimal error or variability

Your Complete IDC Connector Source

IDC FOR 0.050" (1.27mm) ROUND CONDUCTOR FLAT CABLE

No. of Positions	Socket	Header Latched	Low Profile Header		Card Edge	2 Row Transition	IDC DIN 41612
	Series 8290	Series 8289	Series 8380	Series 8383 High Temp.	Series 6338	Series 8399	Series 8459
4							
6				○			
8				●			
9							
10	●	●	●	●	●	●	
12							
14	●	●	●	●		●	
15							
16	●	●	●	●	●	●	
20	●	●	●	●	●	●	
24							
25							
26	●	●	●	●	●	●	
30							
32							●
34	●	●	●	●	●	●	
36			●	●			
37							
40	●	●	●	●	●	●	
44	●				●		
50	●	●	●	●	●	●	
52							
56							
60	●	●	●	●	●	●	
64	●	●	●	●		●	●
Accessories							
Strain Relief	●				●	●	●
Coding Key	●		●	●			
Polarizing Key		●			●		
Latch / Eject	●	●					
Tooling							
Base Plate	○				○	○	○
Options							
PCB Retention	○	○	○	○		○	

Available ● Consult Sales ○

IDC FOR 0.100" (2.54mm) ROUND CONDUCTOR FLAT CABLE

No. of Positions	Socket	Header
	Series 8284	Series 8284
8	●	●
14	●	●
16	●	●
18	●	●
20	●	●
24	●	●

COMPATIBILITY & APPROVALS

- UL
- CSA
- Intermateable and interchangeable with many other manufacturers
- Compatible with MIL-83503 product

ADVANCED DESIGN & QUALITY

- Contact design pierces the cable insulation, providing a reliable gas-tight termination, with positive electrical characteristics
- Contacts accommodate solid or stranded wire
- Single beam contact face makes early contact with mating pin to give maximum contact wipe
- Industry-standard P.C.B. footprints provide easy circuit routing and efficient use of board real estate
- Popular header variations, such as press-fit, straight (vertical) and right-angle (horizontal) through-hole, for a variety of board thicknesses
- Headers in 4-wall configurations for pin protection

A FULL RANGE OF FEATURES AND ACCESSORIES

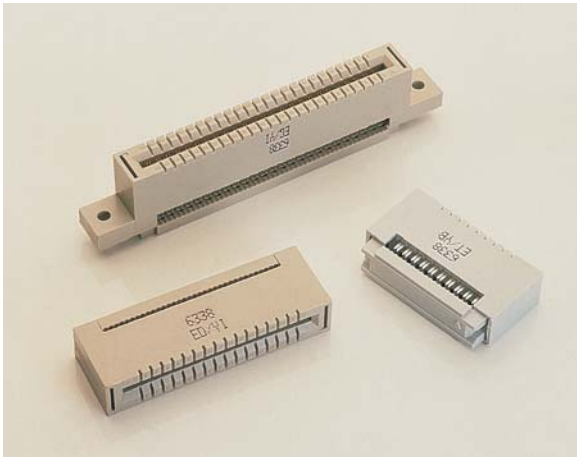
- Lock & ejects that can accommodate sockets with or without strain relief mechanisms, to avoid stressing cable terminations
- Feed-through or closed-end sockets accommodate daisy chain or cable-end applications
- Ridged covers and marked #1 contact positions that provide accurate cable to contact alignment
- S.M.T. header styles molded in high thermal resistant material
- IDC connectors are available in packaging designed for automated cable or P.C.B. assembly

Card Edge Connector



Series 6338

UL Approved File No. E90732.
 CSA Approved File No. 1255749.
 10, 16, 20, 26, 34, 40, 44, 50 & 60 positions.
 Copper alloy contacts.
 Accepts printed circuit boards of 1.6mm thickness.
 Compatible with other leading manufacturers.



TECHNICAL SPECIFICATION

Material:

Molding - UL94VO rated glass filled grey polyester

Contact - Phosphor bronze

Contact Plating:

Contacts are selective gold-plated over nickel, pure tin on IDC section

Current Rating:

1 ampere at 70°C maximum ambient

Working Voltage:

350V DC or AC peak

Insulation Resistance:

>1000 megohms

Voltage Proof:

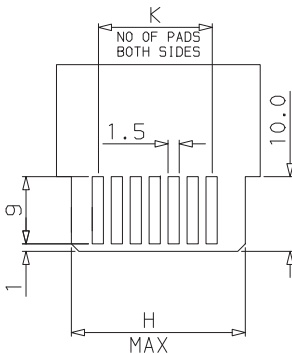
1050 DC or AC peak

Operating Temperature:

-55°C to +105°C

Wire Gauge:

26 AWG Solid & Stranded
 28 AWG Solid & Stranded



SUGGESTED PCB LAYOUT



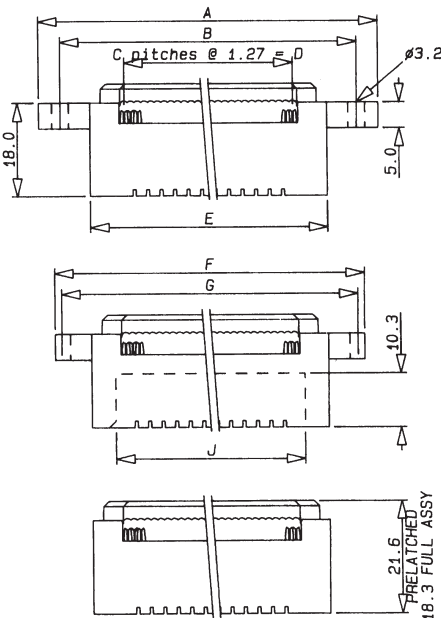
FULL END FLANGE



HALF END FLANGE



NO END FLANGE



21.6 PRELATCHED
 18.3 FULL ASSY

DIMENSIONS: millimeters (inches)

No. of Positions	A	B	C	D	E	F	G	H	J	K
010	43.69 (1.72)	35.56 (1.40)	9	11.43 (0.450)	24.36 (0.959)	38.10 (1.50)	33.02 (1.30)	15.11 (0.595)	15.34 (0.604)	5
016	51.31 (2.02)	43.18 (1.70)	15	19.05 (0.750)	31.98 (1.26)	45.72 (1.80)	40.64 (1.60)	22.73 (0.895)	22.96 (0.904)	8
020	56.39 (2.22)	48.26 (1.90)	19	24.13 (0.950)	37.06 (1.46)	50.80 (2.00)	45.72 (1.80)	27.81 (1.09)	28.04 (1.10)	10
026	64.01 (2.52)	55.88 (2.20)	25	31.75 (1.25)	44.68 (1.76)	58.42 (2.30)	53.34 (2.10)	35.43 (1.39)	35.66 (1.40)	13
030	69.09 (2.72)	60.96 (2.40)	29	36.83 (1.45)	49.76 (1.96)	63.50 (2.50)	58.42 (2.30)	40.51 (1.59)	40.74 (1.60)	15
034	74.17 (2.92)	66.04 (2.60)	33	41.91 (1.65)	54.84 (2.16)	68.58 (2.70)	63.50 (2.50)	45.59 (1.79)	45.82 (1.80)	17
040	81.79 (3.22)	73.66 (2.90)	39	49.53 (1.95)	62.46 (2.46)	76.20 (3.00)	71.12 (2.80)	53.21 (2.09)	53.44 (2.10)	202
044	86.87 (3.42)	78.74 (3.10)	43	54.61 (2.15)	67.54 (2.66)	81.28 (3.20)	76.20 (3.00)	58.29 (2.29)	58.52 (2.30)	22
050	94.49 (3.72)	86.36 (3.40)	49	62.23 (2.45)	75.16 (2.96)	88.90 (3.50)	83.82 (3.30)	65.91 (2.59)	66.14 (2.60)	25
060	107.19 (4.22)	99.06 (3.90)	59	74.93 (2.95)	87.86 (3.46)	101.60 (4.00)	96.52 (3.80)	78.61 (3.09)	78.84 (3.10)	30



Card Edge Connector



Series 6338

ORDERING CODE

00	6338	016	000	02	2
Connector Code Prefix	Series Number	Number of Circuits	Strain Relief	Plating	Variation Insulator End Flanges
		010 = 10 position 016 = 16 position 020 = 20 position 026 = 26 position 034 = 34 position 040 = 40 position 044 = 44 position 050 = 50 position 060 = 60 position	000 = Without strain relief	02 = Selective Plating 30µ Gold 04 = Selective Plating 10µ Gold	0 = No end flanges 1 = Half end flanges 2 = Full end flanges

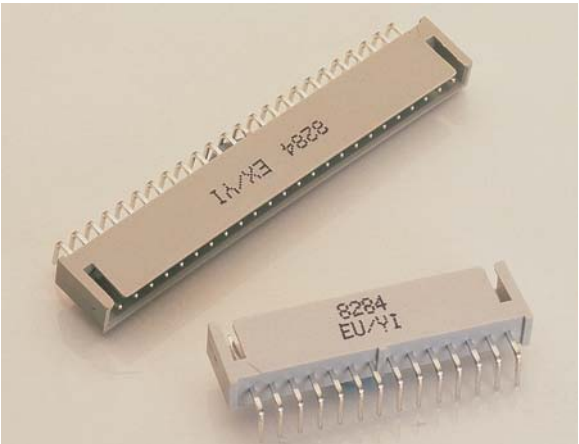


Single Row IDC Header

Series 8284



IDC header/socket for 0.100" (2.54mm) pitch IDC for 0.100" (2.54mm) round conductor flat cable uses similar 8289/8290 contact components recognized under UL & CSA specifications, but housed in a single row insulator format. The header is a 1-piece insulator with right angle, straight solder or press-fit terminations. The socket is a 2-piece insulator design with IDC contacts suitable for termination to 26/28 AWG stranded ribbon cable or dip solder terminations.



TECHNICAL SPECIFICATION

Material:

Molding - UL94VO rated grey polyester
Contact - Brass

Current Rating:

1.5 Amp maximum at 25°C
1 Amp maximum at 70°C

Insulation Resistance:

1000 megohms

Dielectric Withstanding Voltage:

1050V DC or AC peak

Voltage Rating:

350V DC or AC peak

Contact Resistance:

20 milliohms maximum

Operating Temperature:

-55°C to +125°C

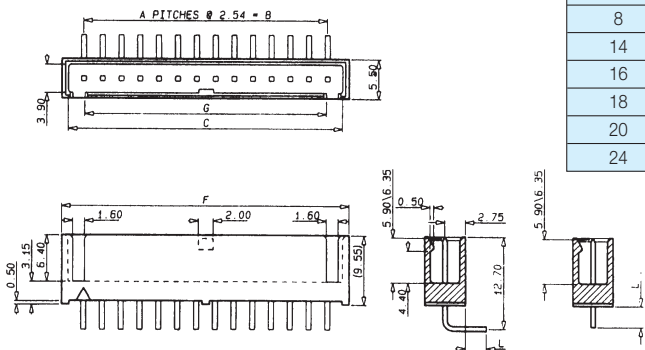
Mechanical Endurance:

Standard tin plating - 10 cycles

Insertion/Withdrawal Forces:

2.7N max insertion force per contact
0.2N min withdrawal force per contact

HEADER



DIMENSIONS: millimeters (inches)

No. of Positions	A	B	C	D	E	F	G
8	7	17.78 (0.70)	21.30 (0.84)	18.54 (0.73)	19.30 (0.76)	23.70 (0.93)	17.54 (0.69)
14	13	33.02 (1.30)	36.54 (1.44)	33.78 (1.33)	34.54 (1.36)	38.94 (1.53)	32.78 (1.29)
16	15	38.10 (1.50)	42.22 (1.66)	38.86 (1.53)	39.62 (1.56)	44.02 (1.73)	37.86 (1.49)
18	17	43.18 (1.70)	46.70 (1.84)	43.94 (1.73)	44.70 (1.76)	49.10 (1.93)	42.94 (1.69)
20	19	48.26 (1.90)	52.38 (2.06)	49.02 (1.93)	49.78 (1.96)	54.18 (2.13)	48.02 (1.89)
24	23	58.42 (2.30)	61.94 (2.44)	59.18 (2.33)	59.94 (2.36)	64.34 (2.53)	58.18 (2.29)

ORDERING CODE

10

Connector Code Prefix

10 = Header Connector

8284

Series Number

014

Number of Contacts

008 = 8 position
014 = 14 position
016 = 16 position
018 = 18 position
020 = 20 position
024 = 24 position

000

Contact Variation

000 = 0.110" (2.8mm)
Straight PC Tail
001 = 0.146" (3.7mm)
Straight PC Tail
002 = 0.110" (2.8mm)
R.A. PC Tail
003 = 0.146" (3.7mm)
R.A. PC Tail
009 = 0.209" (4.5mm)
Straight PF Tail

030

Plating Variation

030 = Tin plating,
10 cycles
040 = Gold plating,
50 cycles

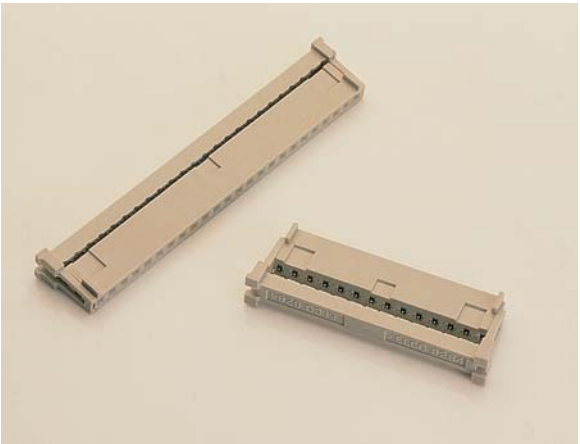
Not all versions are available, please check with AVX Customer Service for availability.



Single Row IDC Socket

Series 8284

IDC header/socket for 0.100" (2.54mm) pitch IDC for 0.100" (2.54mm) round conductor flat cable uses similar 8289/8290 contact components recognized under UL & CSA specifications, but housed in a single row insulator format. The header is a 1-piece insulator with right angle, straight solder or press-fit terminations. The socket is a 2-piece insulator design with IDC contacts suitable for termination to 26/28 AWG stranded ribbon cable or dip solder terminations.



TECHNICAL SPECIFICATION

Material:

Molding - UL94VO rated grey polyester
Contact - Phosphor bronze

Current Rating:

1.5 Amp maximum at 25°C
1 Amp maximum at 70°C

Insulation Resistance:

1000 megohms

Dielectric Withstanding Voltage:

1050V DC or AC peak

Voltage Rating:

350V DC or AC peak

Contact Resistance:

20 milliohms maximum

Operating Temperature:

-55°C to +125°C

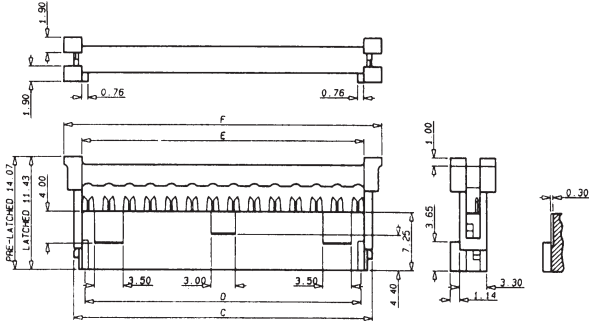
Mechanical Endurance:

Standard tin plating - 10 cycles

Insertion/Withdrawal Forces:

2.7N max insertion force per contact
0.2N min withdrawal force per contact

SOCKET



DIMENSIONS: millimeters (inches)

No. of Positions	A	B	C	D	E	F
8	7	17.78 (0.70)	21.30 (0.84)	18.54 (0.72)	19.30 (0.76)	23.70 (0.93)
14	13	33.02 (1.18)	36.54 (1.45)	33.78 (1.33)	34.54 (1.36)	38.94 (1.53)
16	15	38.10 (1.50)	42.22 (1.66)	38.86 (1.53)	39.62 (1.56)	44.02 (1.73)
18	17	43.18 (1.70)	46.70 (1.84)	43.94 (1.73)	44.70 (1.76)	49.10 (1.93)
20	19	48.26 (1.90)	52.38 (2.06)	49.02 (1.93)	49.78 (1.96)	54.18 (2.13)
24	23	58.42 (2.30)	61.94 (2.44)	59.18 (2.33)	59.94 (2.36)	64.34 (2.53)

ORDERING CODE

20

Connector Code Prefix

20 = Socket Connector

8284

Series Number

014

Number of Contacts

008 = 8 position
014 = 14 position
016 = 16 position
018 = 18 position
020 = 20 position
024 = 24 position

000

Contact Variation

000 = Standard IDC contact 26/28 AWG

030

Plating Variation

030 = Tin plating, 10 cycles
040 = Gold plating, 50 cycles

Not all versions are available, please check with AVX Customer Service for availability.



Ejector Style Header



Series 8289

Available in industry standard sizes of 10-64 positions, they mate to AVX Series 8290 IDC sockets, as well as other industry compatible connectors. Solder or press-fit contacts are available in either straight or right angle formats. The four wall design and optional molded in polarizing keys ensure positive polarization without pin loss. Latch/eject levers can also be specified to suit the mating Series 8290 socket, either with or without strain relief. Stand-off are incorporated to facilitate flux washing and de-gassing.



TECHNICAL SPECIFICATION

Material:

Molding - UL94VO rated glass filled grey polyester

Contact - Phosphor bronze

Contact Plating:

Selective gold over nickel plating on the mating face, pure tin in IDC section

Current Rating:

1 ampere at 70°C maximum ambient

Voltage Rating:

350V DC or AC peak

Contact Resistance:

Initially 10 milliohms maximum

Dielectric Withstanding Voltage:

1050 DC or AC peak

Insulation Resistance:

>1000 megohms

Operating Temperature:

-55°C to +125°C

UL File No. E90723

CSA File No. 1255749

Latch/Eject Levers

Part Numbers when ordered separately.

Long (For 8290 socket with strain relief) 60 8289 6301 00 000

Short (For 8290 socket without strain relief) 60 8289 6302 00 000

ORDERING CODE

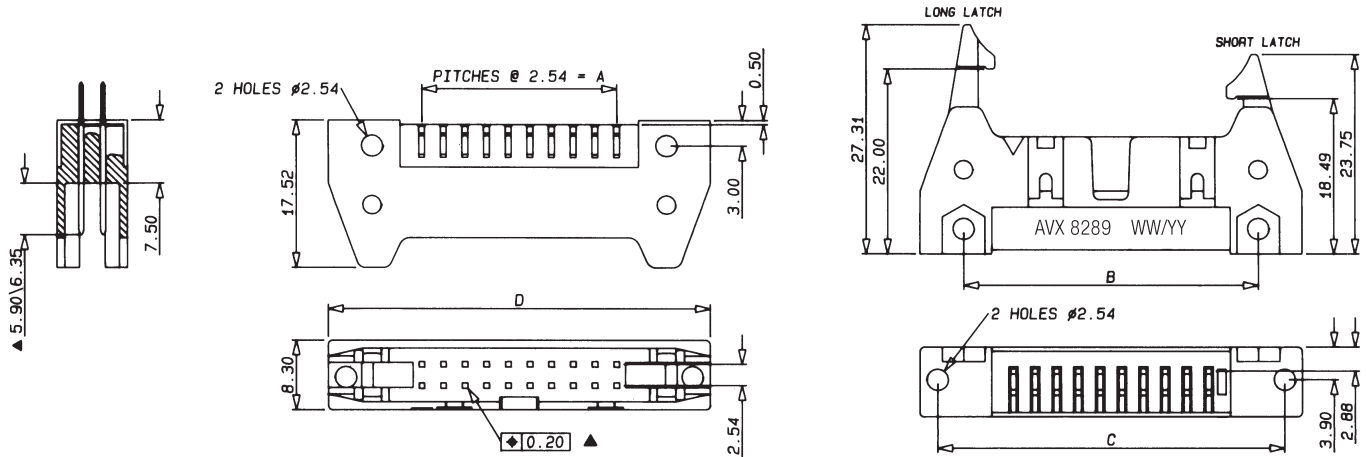
00	8289	050	002	1	1	1
Connector Code Prefix	Series Number	Number of Contacts	Contact Termination	Latch/Eject Lever	Plating	Polarization
00 = Standard		010 = 10 position 014 = 14 position 016 = 16 position 020 = 20 position 026 = 26 position 034 = 34 position 040 = 40 position 050 = 50 position 060 = 60 position 064 = 64 position	002 = Straight PC Tail for 2.4mm PCB - 0.142" (3.60mm) 004 = Right Angle PC Tail for 2.4mm PCB - 0.142" (3.60mm) 006 = Straight PC Tail for 1.6mm PCB - 0.110" (2.80mm) 007 = Right Angle PCB Tail for 1.6mm PCB - 0.110" (2.80mm) 009 = Press-Fit PC Tail 2.4/3.2mm PCB - 0.209" (4.5mm)	0 = No Latch/Eject Lever 1 = Latch/Eject Lever for use with Series 8290 with strain relief 2 = Latch/Eject Lever for use with Series 8290 without strain relief	1 = Selective Plating 30µ" Gold over Nickel 4 = Selective Plating 10µ" Gold over Nickel	1 = Type A BS9525 & BT224 Dual Height molding in polarizing key/keys 3 = No Polarizing key/keys - Standard



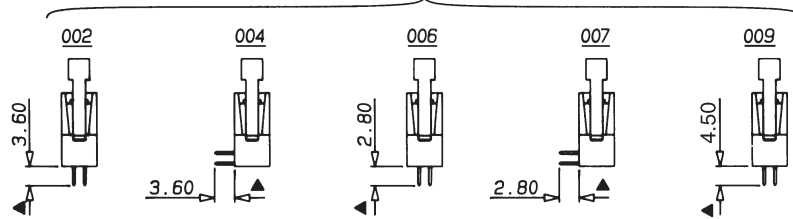
Ejector Style Header



Series 8289



CONTACT VARIATIONS

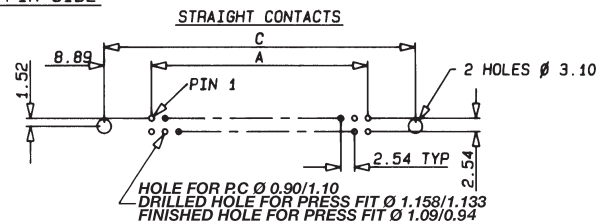
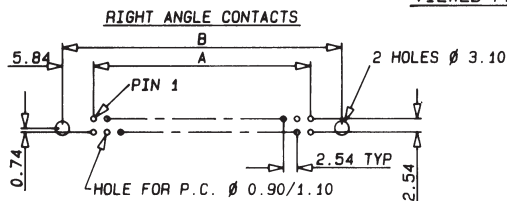


TAIL LENGTH TOLERANCES STANDARD $\pm 0.30\text{mm}$.

▲ $\diamond 0.20$ POSITIONAL TOLERANCE OF TAILS

BOARD HOLE DETAILS

VIEWED FROM PIN SIDE



DIMENSIONS: millimeters (inches)

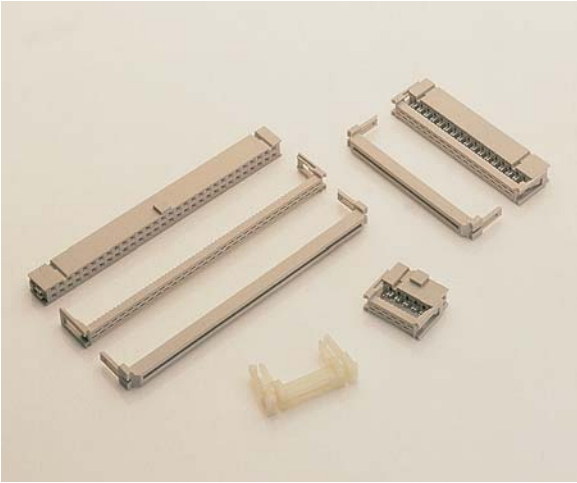
No. of Ways	A	B	C	D
10	10.16 (.040)	21.84 (.860)	27.94 (1.10)	32.11 (1.26)
14	15.24 (.060)	26.92 (1.06)	33.02 (1.30)	37.19 (1.46)
16	17.78 (.070)	29.46 (1.16)	35.56 (1.40)	39.73 (1.56)
20	22.86 (.090)	34.54 (1.36)	40.64 (1.60)	44.81 (1.76)
26	30.48 (1.20)	42.16 (1.66)	40.64 (1.90)	52.43 (2.06)
34	40.64 (1.60)	52.32 (2.06)	58.42 (2.30)	62.59 (2.46)
40	48.26 (1.90)	59.94 (2.36)	66.04 (2.60)	70.21 (2.76)
50	60.96 (2.40)	72.64 (2.86)	78.74 (3.10)	82.91 (3.26)
60	73.66 (2.90)	85.34 (3.36)	91.44 (3.60)	95.61 (3.76)
64	78.74 (3.10)	90.42 (3.56)	96.52 (3.80)	100.69 (3.96)

Low Profile IDC Socket Connector



Series 8290

Available in industry standard sizes of 10-64 positions. They mate to AVX Series 8289, 8293, 8380 and 8383 headers, as well as other industry compatible connectors. An optional strain relief, which can be easily fitted, eliminates stress on the cable. Contacts are copper alloy for added reliability, and are designed to mate to 0.024" (0.60mm) to 0.025" (0.64mm) square pins. The contact design facilitates maximum wipe on the header pins. (early mate, late break).



TECHNICAL SPECIFICATION

Material:

Molding - UL94VO rated glass filled grey polyester

Contact - Phosphor bronze

Contact Plating:

Contacts are selective gold-plated over nickel, pure tin in IDC section

Current Rating:

1 ampere at 70°C maximum ambient

Voltage Rating:

350V DC or AC peak

Dielectric Withstanding Voltage:

1050V DC or AC peak

Insulation Resistance:

>1000 megohms

Contact Resistance:

Initially, 10 milliohms maximum

Operating Temperature:

-55°C to +105°C

Wire Gauge:

26 AWG Solid & Stranded

28 AWG Solid & Stranded

ORDERING CODE

00
Connector Code
Prefix

8290
Series Number

010
Number of
Circuits
010 = 10 position
014 = 14 position
016 = 16 position
020 = 20 position
026 = 26 position
034 = 34 position
040 = 40 position
044 = 44 position*
050 = 50 position
060 = 60 position
064 = 64 position

000
Strain Relief
000 = Without strain
relief (feed thru)
Standard
001 = With strain relief
(feed thru)
Standard
006 = With latching
strain relief
(feed thru)
see series 8380
page 13

01
Plating
01 = 30µ Gold over
Nickel
04 = 10µ Gold over
Nickel

1
Polarization
1 = With central
polarizing boss
2 = Without central
polarizing boss

*44 position connector is only available without strain relief - consult sales office for availability.



[illegible]

No. of Contacts	A	B
10	17.22 (0.68)	10.16 (0.40)
14	22.30 (0.88)	15.24 (0.60)
16	24.84 (0.98)	17.78 (0.70)
20	29.92 (1.18)	22.86 (0.90)
26	37.54 (1.48)	30.48 (1.20)
34	47.70 (1.88)	40.64 (1.60)
40	55.32 (2.18)	48.26 (1.90)
44	60.40 (2.38)	53.34 (2.10)
50	68.02 (2.68)	60.69 (2.39)
60	80.72 (3.18)	73.66 (2.90)
64	85.80 (3.38)	78.74 (3.10)

The diagram shows two components: the 8290 socket and the 8380 boxed header. The 8290 socket is a rectangular component with a central slot and two side slots. The 8380 boxed header is a rectangular component with a central slot and two side slots. The 8290 socket is shown inserted into the 8380 boxed header. The 8290 socket is labeled "8290 SOCKET" and the 8380 boxed header is labeled "8380 BOXED HEADER".

10 position	60 8290 6610 00 000
14 position	60 8290 6614 00 000
16 position	60 8290 6616 00 000
20 position	60 8290 6620 00 000
26 position	60 8290 6626 00 000
34 position	60 8290 6634 00 000
40 position	60 8290 6640 00 000
50 position	60 8290 6650 00 000
60 position	60 8290 6660 00 000
64 position	60 8290 6664 00 000

8290 SOCKET

8380
BOXED HEADER

10 position	60 8290 68 10 000 00
14 position	60 8290 68 14 000 00
16 position	60 8290 68 16 000 00
20 position	60 8290 68 20 000 00
26 position	60 8290 68 26 000 00
34 position	60 8290 68 34 000 00
40 position	60 8290 68 40 000 00
50 position	60 8290 68 50 000 00
60 position	60 8290 68 60 000 00
64 position	60 8290 68 64 000 00

Low Profile Box Header

Series 8380



Low profile box headers are available in industry standard sizes of 10-64 positions. They mate to AVX Series 8290 IDC sockets, as well as other industry compatible connectors. Both straight and right angle solder dip pins for PC boards are available together with straight press-fit versions. The connector is shrouded on all four sides for polarization and contact protection. Polarizing keys are molded in for correct socket alignment with contact loss.



TECHNICAL SPECIFICATION

Material: Molding - UL94VO rated glass filled grey polyester Contact - Brass	Current Rating: 1 ampere at 70°C maximum ambient	Insulation Resistance: >1000 megohms
Contact Plating: Selective gold over nickel plating on the mating face, pure tin on IDC section	Voltage Rating: 350V DC or AC peak	Operating Temperature: -55°C to +105°C
	Contact Resistance: Initially 10 milliohms maximum	UL File No. E90723
	Dielectric Withstanding Voltage: >1050 DC or AC peak	CSA File No. 1255749

ORDERING CODE

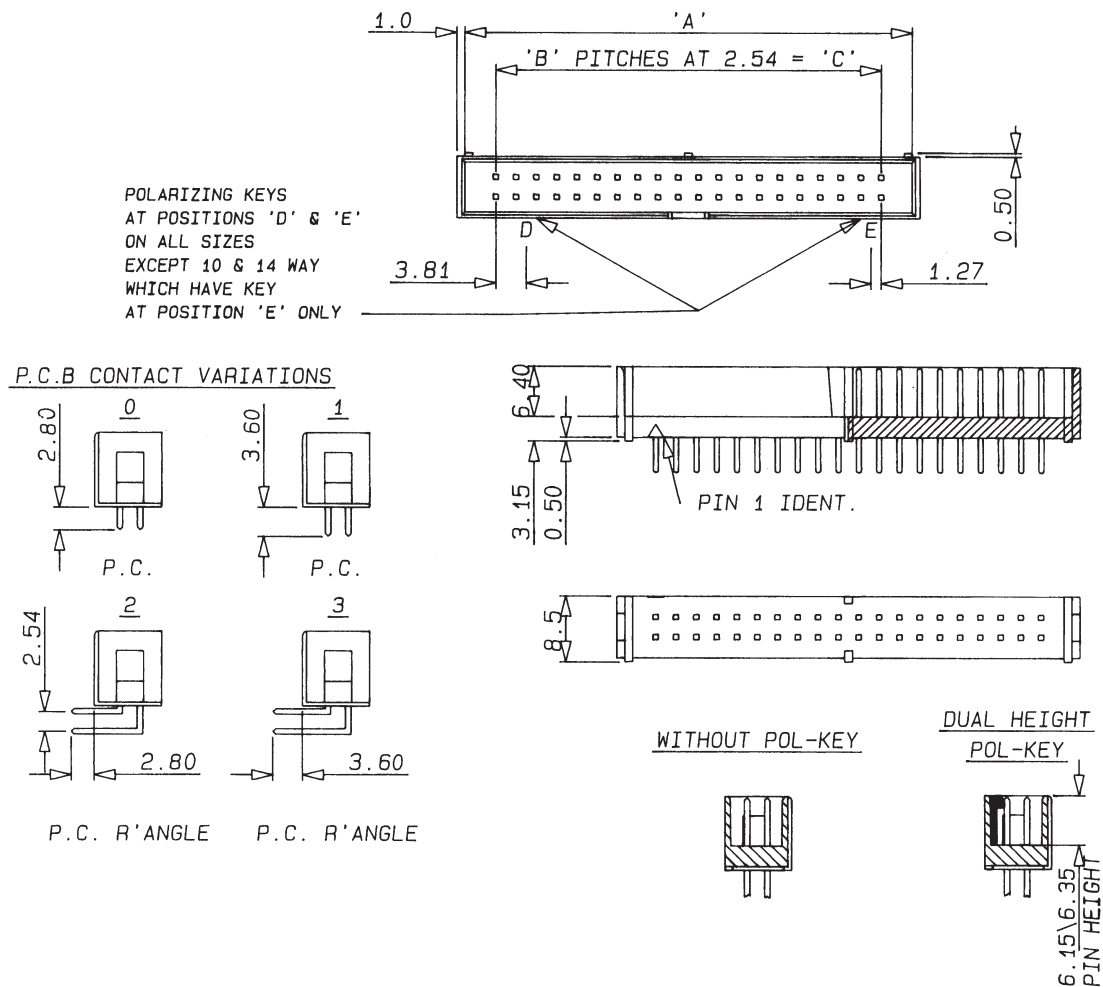
00	8380	050	000	01	X
Connector Code Prefix	Series Number	Number of Contacts	Contact Variation	Plating Variation	Polarization
00 = Standard Connector Assembly		010 = 10 position 014 = 14 position 016 = 16 position 020 = 20 position 026 = 26 position 034 = 34 position 040 = 40 position 050 = 50 position 060 = 60 position 064 = 64 position	000 = Solder Tail Straight Contact for 1.6mm PCB - Contact Length (2.8mm) 001 = Solder Tail Straight Contact for 2.4mm PCB - Contact Length (3.6mm) 002 = Solder Tail Right Angle Contact for 1.6mm PCB - Contact Length (2.8mm) 003 = Solder Tail Right Angle Contact for 2.6mm PCB - Contact Length (3.6mm) 009 = Press-Fit Contact for 2.4/3.2 PCB - Contact Length (4.5mm)	01 = 30μ" Gold over Nickel solder 04 = 10μ" Gold over Nickel	0 = No Polarizing Keys Standard 2 = Type B - Dual Height molded in polarizing key(s)

NB: Additional plating and tail lengths are available. Consult sales office for availability.



Low Profile Box Header

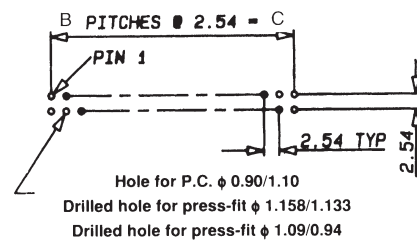
Series 8380



DIMENSIONS: millimeters (inches)

No. of Contacts	A	B	C
10	17.90 (0.705)	4	10.16 (0.40)
14	22.98 (0.905)	6	15.24 (0.60)
16	25.52 (1.00)	7	17.78 (0.70)
20	30.60 (1.20)	9	22.86 (0.90)
26	38.22 (1.50)	12	30.48 (1.20)
34	48.38 (1.90)	16	40.64 (1.60)
40	56.00 (2.20)	19	48.26 (1.90)
50	68.70 (2.70)	24	60.96 (2.40)
60	81.40 (3.20)	29	73.66 (2.90)
64	86.48 (3.20)	31	78.74 (3.10)

BOARD HOLE DETAILS VIEWED FROM PIN SIDE

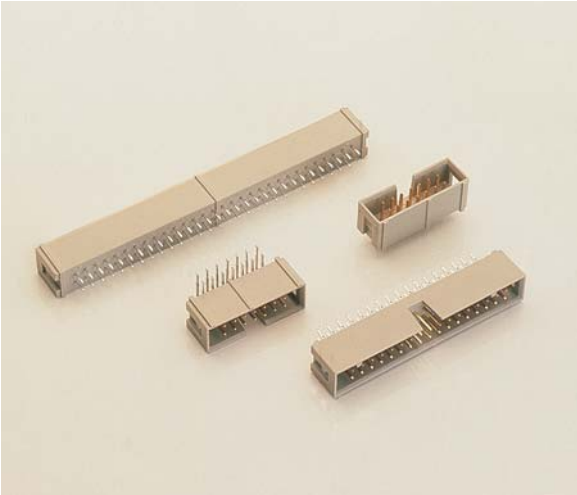


High Temperature Box Header



Series 8383

Series 8383 box headers are designed to be suitable for applications using either infra red or vapor phase equipment. These connectors are designed to mate with Series 8290 IDC sockets as well as other industry compatible connectors.



TECHNICAL SPECIFICATION

Termination Type:

Plated Through Hole

Termination Pitch:

0.100" (2.54mm)

Material:

Housing - UL94VO rated high thermal resistant nylon

Contact - Brass

Contact Plating:

Gold over nickel

Contact Resistance:

Initially 10 milliohms maximum

Current Rating:

1 ampere at 70°C maximum ambient

Insulation Resistance:

>1000 megohms

Voltage Rating:

350V DC or AC peak

Heat Deflection Temperature:

285°C

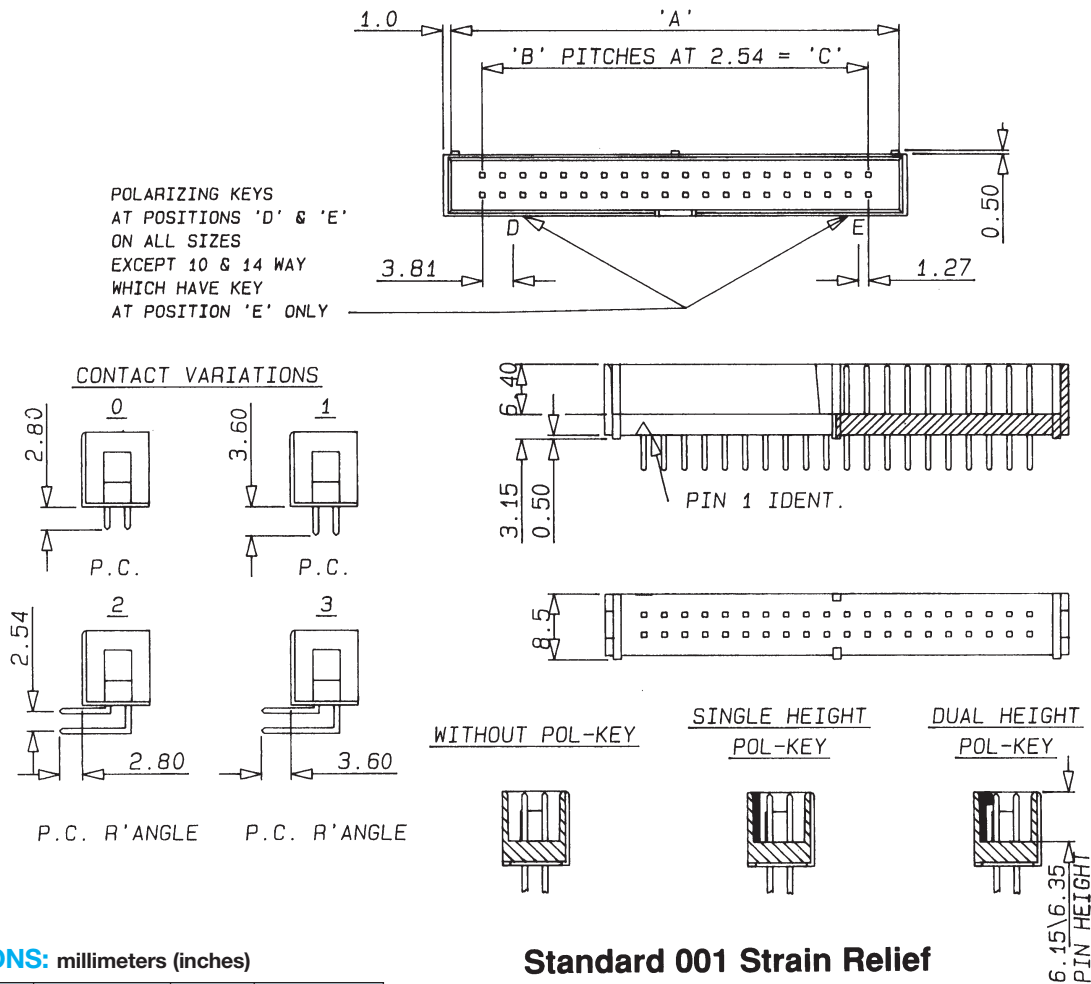
ORDERING CODE

00	8383	050	000	0	1	0
Connector Code Prefix	Series Number	Number of Contacts	Contact Variation	Clip Variation	Plating Variation	Polarization
00 = Standard Connector Assembly		010 = 10 position 014 = 14 position 016 = 16 position 020 = 20 position 026 = 26 position 034 = 34 position 040 = 40 position 050 = 50 position 060 = 60 position 064 = 64 position	000 = Solder PC Straight (1.60mm PCB) Length 2.90mm 001 = Solder PC Right Angle (2.40mm PCB) Length 3.70mm 002 = Solder PC Right Angle (1.6mm PCB) Length 2.90mm 003 = Solder PC Straight (2.40mm PCB) Length 3.70mm 009 = Press Fit contact for 2.4/3.2mm PCB or contact length 4.5mm	0 = No Clip	1 = 30µ" Gold over Nickel 4 = 10µ" Gold over Nickel	0 = No Polarizing



High Temperature Box Header

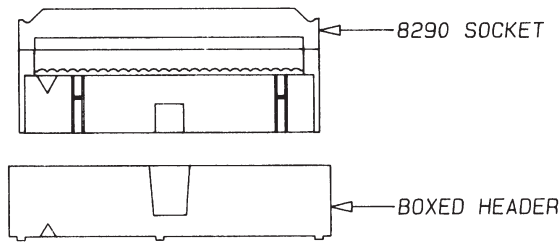
Series 8383



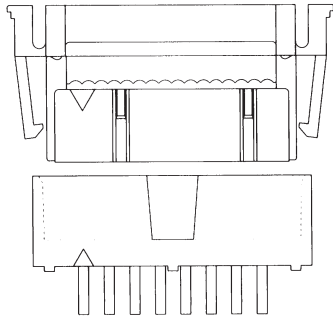
DIMENSIONS: millimeters (inches)

No. of Contacts	A	B	C
10	17.90 (0.705)	4	10.16 (0.40)
14	22.98 (0.905)	6	15.24 (0.60)
16	25.52 (1.00)	7	17.78 (0.70)
20	30.60 (1.20)	9	22.86 (0.90)
26	38.22 (1.50)	12	30.48 (1.20)
34	48.38 (1.90)	16	40.64 (1.60)
40	56.00 (2.20)	19	48.26 (1.90)
50	68.70 (2.70)	24	60.96 (2.40)
60	81.40 (3.20)	29	73.66 (2.90)
64	86.48 (3.20)	31	78.74 (3.10)

Standard 001 Strain Relief



Latching 006 Strain Relief



8383

Dual In-Line Transition Connector



Series 8399

Series 8399 dual in-line transition connector is available in industry standard sizes of 10-64 positions. It will accommodate Series 2026 0.050" (1.27mm) ribbon cable, and is available with or without strain relief and has an optional cable stop facility. It forms a simple and cost effective method of terminating IDC ribbon cable to a PCB.



TECHNICAL SPECIFICATION

Material:

Molding - UL94VO rated glass filled grey polyester

Contact - Phosphor bronze

Contact Plating:

Pure Tin

Current Rating:

1 ampere

Voltage Rating:

350V DC or AC peak

Insulation Resistance:

>1000 megohms

Dielectric Withstanding Voltage:

1050 DC or AC peak

Operating Temperature:

-55°C to +105°C

Wire Gauge:

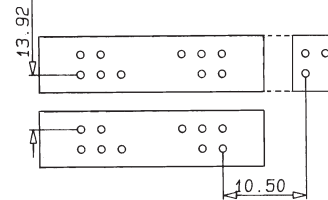
26 AWG Solid & Stranded

28 AWG Solid & Stranded

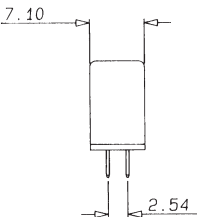
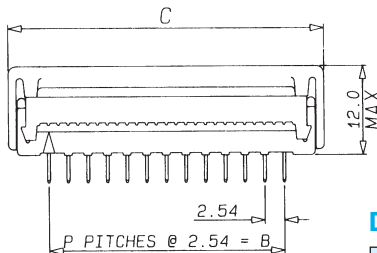
UL File No. E90723

CSA File No. 1255749

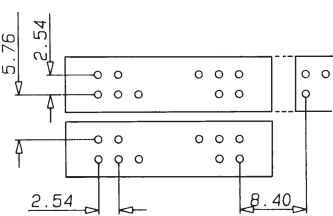
PCB FOOTPRINT WITH STRAIN RELIEF



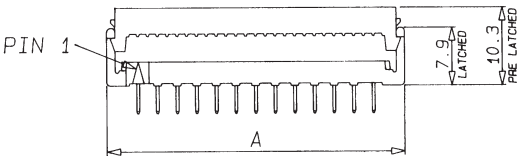
WITH STRAIN RELIEF



PCB FOOTPRINT WITHOUT STRAIN RELIEF



WITHOUT STRAIN RELIEF



DIMENSIONS: millimeters (inches)

No. of Positions	A	B	P	C
010	18.45 (0.726)	10.16 (.400)	4	20.27 (0.798)
014	23.53 (0.926)	15.24 (.600)	6	25.65 (1.01)
016	26.07 (1.03)	17.78 (.700)	7	28.19 (1.11)
020	31.15 (1.23)	22.86 (.900)	9	33.27 (1.31)
026	38.77 (1.53)	30.48 (1.20)	12	40.89 (1.61)
034	48.93 (1.93)	40.64 (1.60)	16	51.05 (2.01)
040	56.55 (2.23)	48.26 (1.90)	19	58.67 (2.31)
050	69.25 (2.73)	60.96 (2.40)	24	71.37 (2.81)
060	81.95 (3.23)	73.66 (2.90)	39	84.07 (3.31)
064	87.03 (3.42)	78.74 (3.10)	31	89.15 (3.51)



Dual In-Line Transition Connector



Series 8399

ORDERING CODE

00	8399	016	00	0	2	02
Connector Code Prefix	Series Number	Number of Contacts	Strain Relief	Cable Stop	Contact	Plating
00 = Standard		010 = 10 position 014 = 14 position 016 = 16 position 020 = 20 position 026 = 26 position 034 = 34 position 040 = 40 position 050 = 50 position 060 = 60 position 064 = 64 position	00 = Without strain relief 01 = With strain relief	0 = Without cable stop Standard	2 = 3.6mm tail phosphor bronze 3 = 2.8mm tail phosphor bronze	02 = Pure Tin



IDC DIN Connector

Series 8459



Series 8459 IDC DIN connector are based on DIN 41612. This series is loaded with 64 contacts in 2 rows of 32 in rows "A" and "C". Also available is a 1/2 "C" version, with 2 rows of 16 contacts, also loaded in rows "A" and "C". A strain relief is available as an option. Use of the Series 2521 accessory, which is optional, provides a connector latch and eject system from inverted format shells. This connector series will mate with any industry standard DIN connectors that are loaded only in rows "A" and "C".



TECHNICAL SPECIFICATION

Material:

Molding - UL94VO rated grey polyester
Contact - Phosphor bronze

Contact Plating:

Gold over nickel

Current Rating per contact

at ambient +20°C 3 amp
+70°C 1.5 amp
+100°C 1 amp

Working Voltage:

350V DC or AC peak

Contact Resistance:

15 milliohms max.

Operating Temperature:

-55°C to +125°C

Insertion/Withdrawal Force (Mating):

1N max/0.2N min per contact

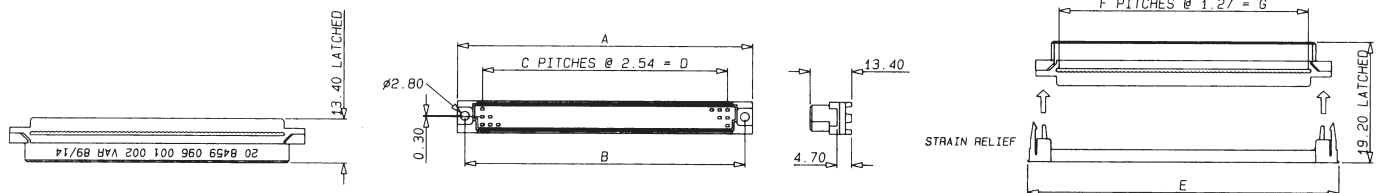
Wire Gauge:

26 AWG Solid & Stranded
28 AWG Solid & Stranded

ORDERING CODE

20	8459	096	001	026
Connector Code Prefix	Series Number	Insulator Size 048 or 096 (See note)	Variation 001 = With strain relief 002 = Without strain relief	Plating Gold over Nickel 002 = DIN Class III 026 = Class II 050 = Class I

Note: 96 position insulator fitted with 2 rows of 32 contacts, rows A and C.
48 position insulator fitted with 2 rows of 16 contacts, rows A and C.



DIMENSIONS: millimeters (inches)

Insulator Size	A	B	C	D	E	F	G
048 position (3 x 16)	54.90 (2.16)	50.00 (1.97)	15	38.10 (1.50)	60.00 (2.36)	31	39.37 (1.55)
096 position (3 x 32)	94.90 (3.74)	90.00 (3.54)	31	78.74 (3.10)	100.00 (3.94)	63	80.01 (3.15)



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