

A

B

18-24 AWG IDC WIRE TO BOARD CONNECTOR



00-9176-00X-0XX-X06

PREFIX

SERIES

NO. OF WAYS

CODE	NO. OF WAYS
001	1
002	2
003	3

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WIRE GAUGE SIZE

CODE	ACCEPTED WIRE GAUGE	WIRE INSULATION Ø	CAP CODE SHEETS 5&6
001	18 GAUGE STRANDED	Ø 1.6-2.1	021
011	20 GAUGE STRANDED	Ø 1.6-2.1	021
022	22 GAUGE STRANDED	Ø 1.1-1.6	016
032	24 GAUGE STRANDED	Ø 1.1-1.6	016

COLOUR & APPROVAL

CODE	INSULATOR COLOUR	AVAILABILITY
0	BLACK	STANDARD
1	WHITE	OPTIONAL
8	BLACK	UL APPROVED - SPECIAL ORDER
9	WHITE	UL APPROVED - SPECIAL ORDER

PLATING OPTION

CODE	DESCRIPTION
06	PURE TIN ALL OVER



FOR DETAILS OF ACCESSORY CAPS AVAILABLE REFER TO SHEETS 5&6
FOR DETAILS OF TOOLING AVAILABLE REFER TO SHEETS 7 TO 9.

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SHEET 1 OF 9

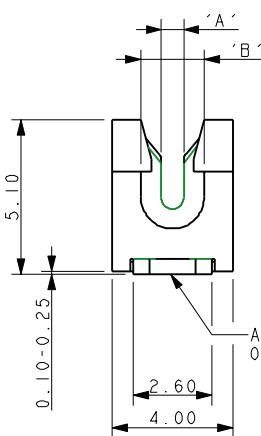
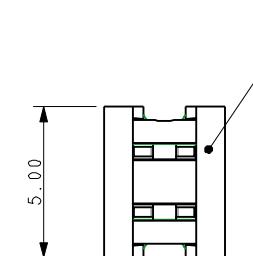
A

B

A

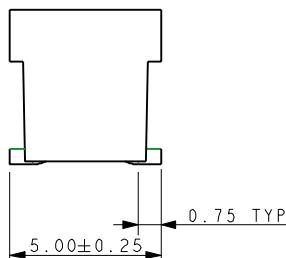
B

18-24 AWG 1 WAY IDC CONNECTOR



NOTES:

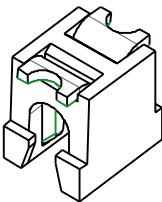
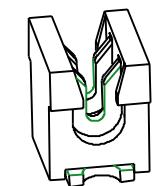
1. CONNECTOR FOR IDC WIRE TO BOARD CONNECTION.
2. CONTACT MATERIAL: PHOSPHORE BRONZE.
3. INSULATION MATERIAL: HIGH TEMP NYLON 46, COLOUR REFER TO SHEET 1.
4. CONNECTOR DESIGNED TO ACCEPT BETWEEN 24 AND 18 GAUGE STRANDED WIRE.
5. ALL DIMS FOR REFERENCE UNLESS OTHERWISE STATED.
6. FOR FULL PRODUCT SPECIFICATION ON STANDARD CONNECTORS REFER TO ELCO SPEC 201-01-106, UL COMPONENTS REFER TO ELCO SPEC 201-01-106UL.
7. APPLICATION NOTES 201-01-124.
8. FOR PCB SPACE RESTRICTED BY WIRE ASSEMBLY TOOLING REFER TO SHEET 5.
9. FOR HAND WIRE ASSEMBLY TOOLING REFER TO SHEET 7.
10. FOR UL PRODUCT CODES UL REFERENCE E320991.
11. ALL DIMENSIONS ± 0.20 UNLESS TOLERANCE SPECIFIED.



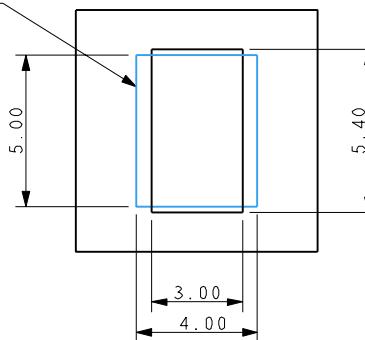
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CODE	ACCEPTED WIRE GAUGE	'A'	WIRE INSULATION	'B'
001	18 GAUGE STRANDED	0.72	$\phi 1.6-2.1$	2.1
011	20 GAUGE STRANDED	0.60	$\phi 1.6-2.1$	2.1
022	22 GAUGE STRANDED	0.47	$\phi 1.1-1.6$	1.6
032	24 GAUGE STRANDED	0.37	$\phi 1.1-1.6$	1.6

SMT PCB LAYOUT PURE TIN PADS

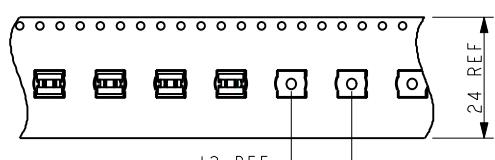
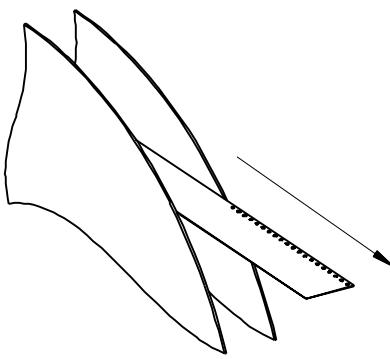


CONNECTOR OUTLINE



PACKING DETAILS

REEL QTY	1000
LEADER	480mm
TRAILER	120mm



SHEET 2 OF 9

3rd ANGLE
ALL DIMENSIONS
IN MILLIMETRES

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Drawn	GKJ	Description	Date
Size	CV	Part Number	10-May-07

00-9176-01S

Issue
12

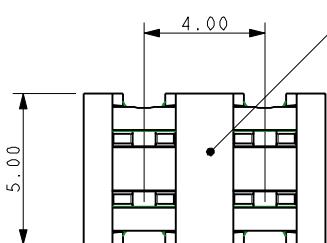
A

B

A

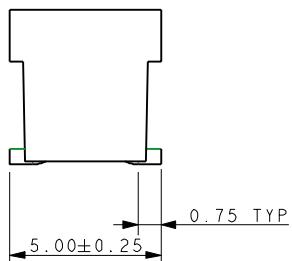
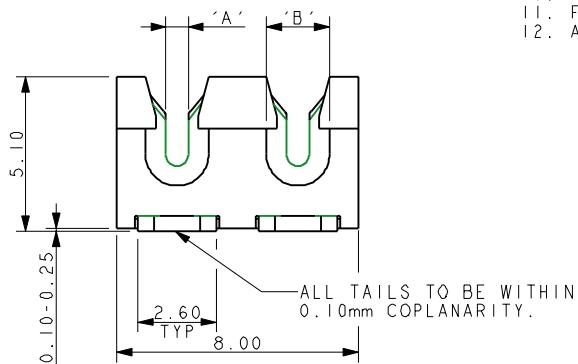
B

18-24 AWG 2 WAY IDC CONNECTOR



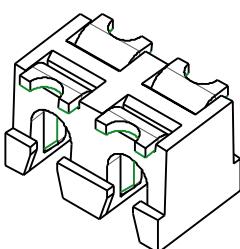
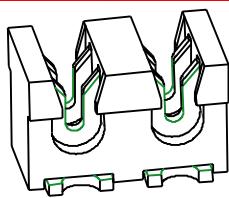
NOTES:

- CONNECTOR FOR IDC WIRE TO BOARD CONNECTION.
- CONTACT MATERIAL : PHOSPHORE BRONZE.
- INSULATION MATERIAL: HIGH TEMP NYLON 46, COLOUR REFER TO SHEET 1.
- CONNECTOR DESIGNED TO ACCEPT BETWEEN 24 AND 18 GAUGE STRANDED WIRE.
- ALL DIMS FOR REFERENCE UNLESS OTHERWISE STATED.
- FOR FULL PRODUCT SPECIFICATION ON STANDARD CONNECTORS REFER TO ELCO SPEC 201-01-106, UL COMPONENTS REFER TO ELCO SPEC 201-01-106UL.
- APPLICATION NOTES 201-01-124.
- FOR PCB SPACE RESTRICTED BY WIRE ASSEMBLY TOOLING REFER TO SHEETS 5.
- FOR HAND WIRE ASSEMBLY TOOLING REFER TO SHEET 7.
- FOR PRESS WIRE ASSEMBLY TOOLING REFER TO SHEET 8.
- FOR ACCESSORY CAPS REFER TO SHEETS 5 AND 6.
- FOR UL PRODUCT CODES UL REFERENCE E320991.
- ALL DIMENSIONS ± 0.20 UNLESS TOLERANCE SPECIFIED.



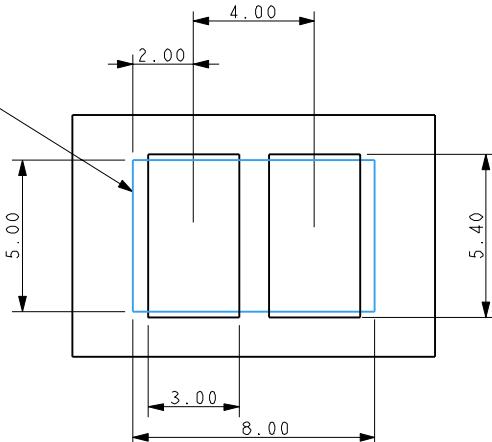
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022	22 GAUGE STRANDED	0.47	$\varnothing 1.1-1.6$	1.6
032	24 GAUGE STRANDED	0.37	$\varnothing 1.1-1.6$	1.6



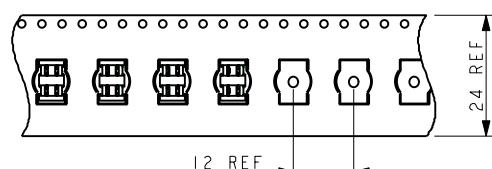
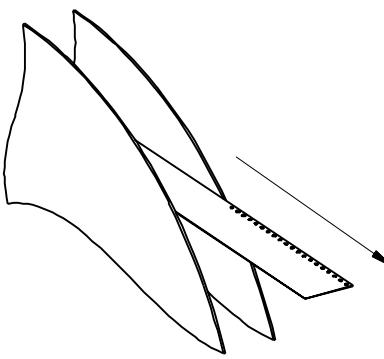
SMT PCB LAYOUT PURE TIN PADS

CONNECTOR OUTLINE



PACKING DETAILS

REEL QTY	1000
LEADER	480mm
TRAILER	120mm



SHEET 3 OF 9

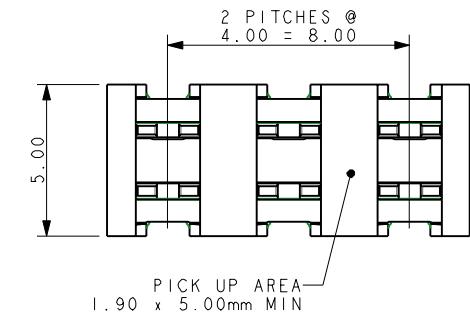
A

B

A

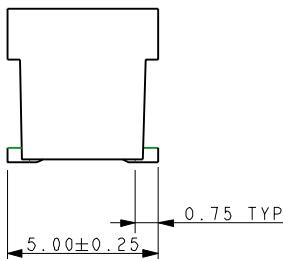
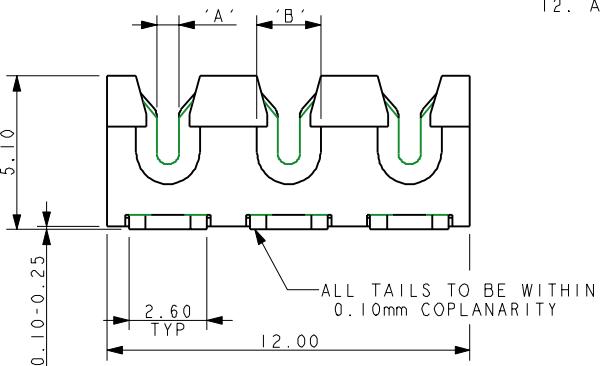
B

18-24 AWG 3 WAY IDC CONNECTOR



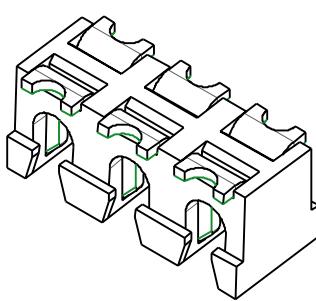
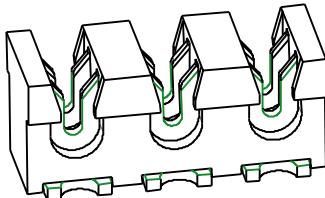
NOTES:

- CONNECTOR FOR IDC WIRE TO BOARD CONNECTION.
- CONTACT MATERIAL : PHOSPHORE BRONZE.
- INSULATION MATERIAL: HIGH TEMP NYLON 46, COLOUR REFER TO SHEET 1.
- CONNECTOR DESIGNED TO ACCEPT BETWEEN 24 AND 18 GAUGE STRANDED WIRE.
- ALL DIMS FOR REFERENCE UNLESS OTHERWISE STATED.
- FOR FULL PRODUCT SPECIFICATION ON STANDARD CONNECTORS REFER TO ELCO SPEC 201-01-106, UL COMPONENTS REFER TO ELCO SPEC 201-01-106UL.
- APPLICATION NOTES 201-01-124.
- FOR PCB SPACE RESTRICTED BY WIRE ASSEMBLY TOOLING REFER TO SHEETS 5.
- FOR HAND WIRE ASSEMBLY TOOLING REFER TO SHEET 7.
- FOR PRESS WIRE ASSEMBLY TOOLING REFER TO SHEET 8.
- FOR ACCESSORY CAPS REFER TO SHEETS 5 AND 6.
- FOR UL PRODUCT CODES UL REFERENCE E320991.
- ALL DIMENSIONS ± 0.20 UNLESS TOLERANCE SPECIFIED.



CODE	ACCEPTED WIRE GAUGE	'A'	WIRE INSULATION	'B'
001	18 GAUGE STRANDED	0.72	$\varnothing 1.6-2.1$	2.1
011	20 GAUGE STRANDED	0.60	$\varnothing 1.6-2.1$	2.1
022	22 GAUGE STRANDED	0.47	$\varnothing 1.1-1.6$	1.6
032	24 GAUGE STRANDED	0.37	$\varnothing 1.1-1.6$	1.6

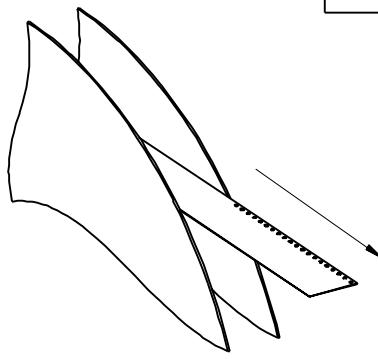
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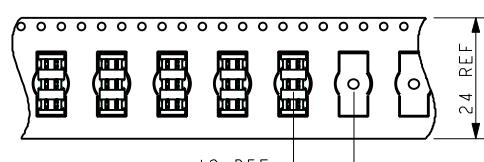
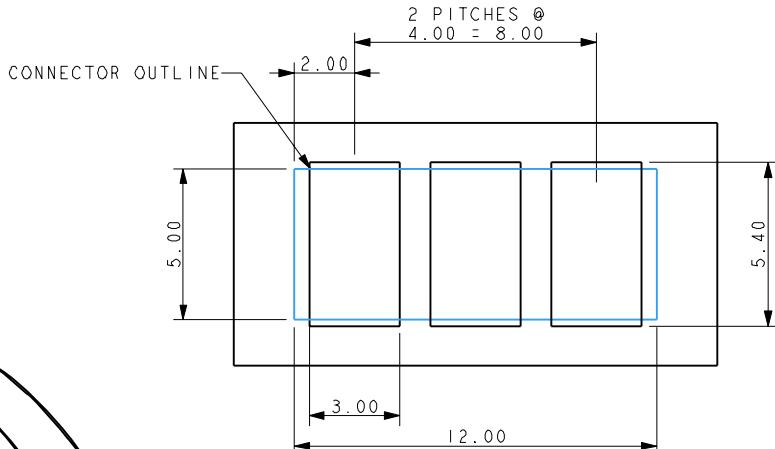
PACKING DETAILS

REEL QTY	1000
LEADER	480mm
TRAILER	120mm

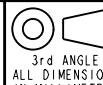
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SMT PCB LAYOUT PURE TIN PADS



SHEET 4 OF 9



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Drawn
GKJ
Size
CV
Description
18-24AWG IDC WIRE TO BOARD CONNECTOR
Part Number
00-9176-01S
Date
10-May-07
Issue
12

A

B

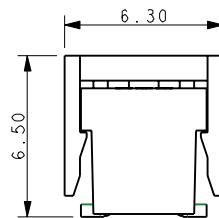
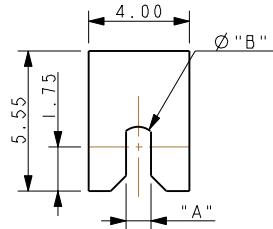
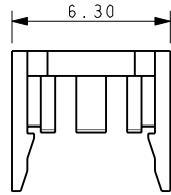
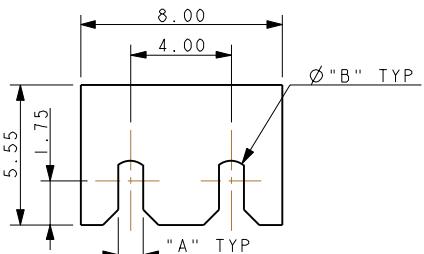
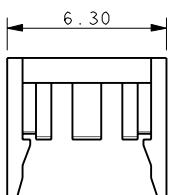
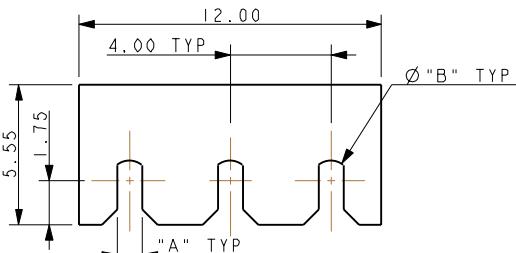
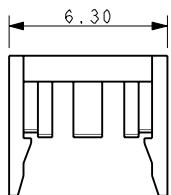


60-9176-00X-0XX-X00

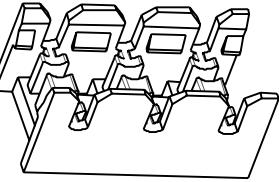
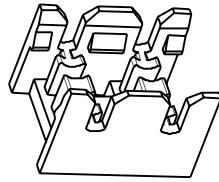
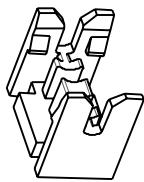
ACCESSORY CAP - THROUGH WIRE

TEXT, REFER TO TABLE
INDICATES CABLE SIZE ϕ 1.6 OR ϕ 2.1

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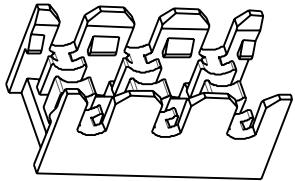
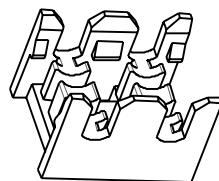
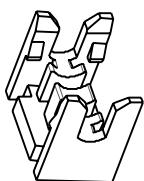
ASSEMBLED CONNECTOR



60-9176-001-016-X00

60-9176-002-016-X00

60-9176-003-016-X00



60-9176-001-021-X00

60-9176-002-021-X00

60-9176-003-021-X00

NOTES:-

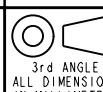
1. CAP FOR IDC WIRE TO BOARD CONNECTION, 1, 2 & 3 WAY.
2. FOR USE WITH STANDARD 9176 IDC CONNECTORS, SEE SHEET 1 FOR THE CORRECT PART CODE TO MATCH WIRE.
3. CAP MATERIAL :- GLASS FILLED NYLON 46, COLOUR SEE TABLE.
4. DIMENSION "A", "B" AND TEXT SEE TABLE.
5. CAPS DESIGNED TO ACCOMODATE WIRE INSULATION DIAMETERS 1.1mm TO 1.6mm AND 1.6mm TO 2.1mm.
6. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
7. PACKED IN BAGS, 1000 PIECES PER BAG.
8. ONE WAY CAP ASSEMBLY AID, REFER TO SHEET 9.
9. ALL DIMENSIONS ± 0.20 UNLESS TOLERANCE SPECIFIED.

CODE	SLOT "A"	DIAMETER "B"	TEXT
016	1.00	1.60	ϕ 1.6
021	1.50	2.10	ϕ 2.1

COLOUR	X00
BLACK	000
WHITE	100

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Release No. 1
History
102742
102751
102775
09.06.2011
102781
30.06.2011
102849
03.02.2012
102853
14.02.2012
102857
22.02.2012
102881
21.05.2012



3rd ANGLE
ALL DIMENSIONS
IN MILLIMETRES

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Drawn
GKJ
Size
CV

Description
18-24AWG IDC WIRE TO BOARD CONNECTOR
Part Number
00-9176-01S
Date
29-JUL-09
Issue
12

SHEET 5 OF 9

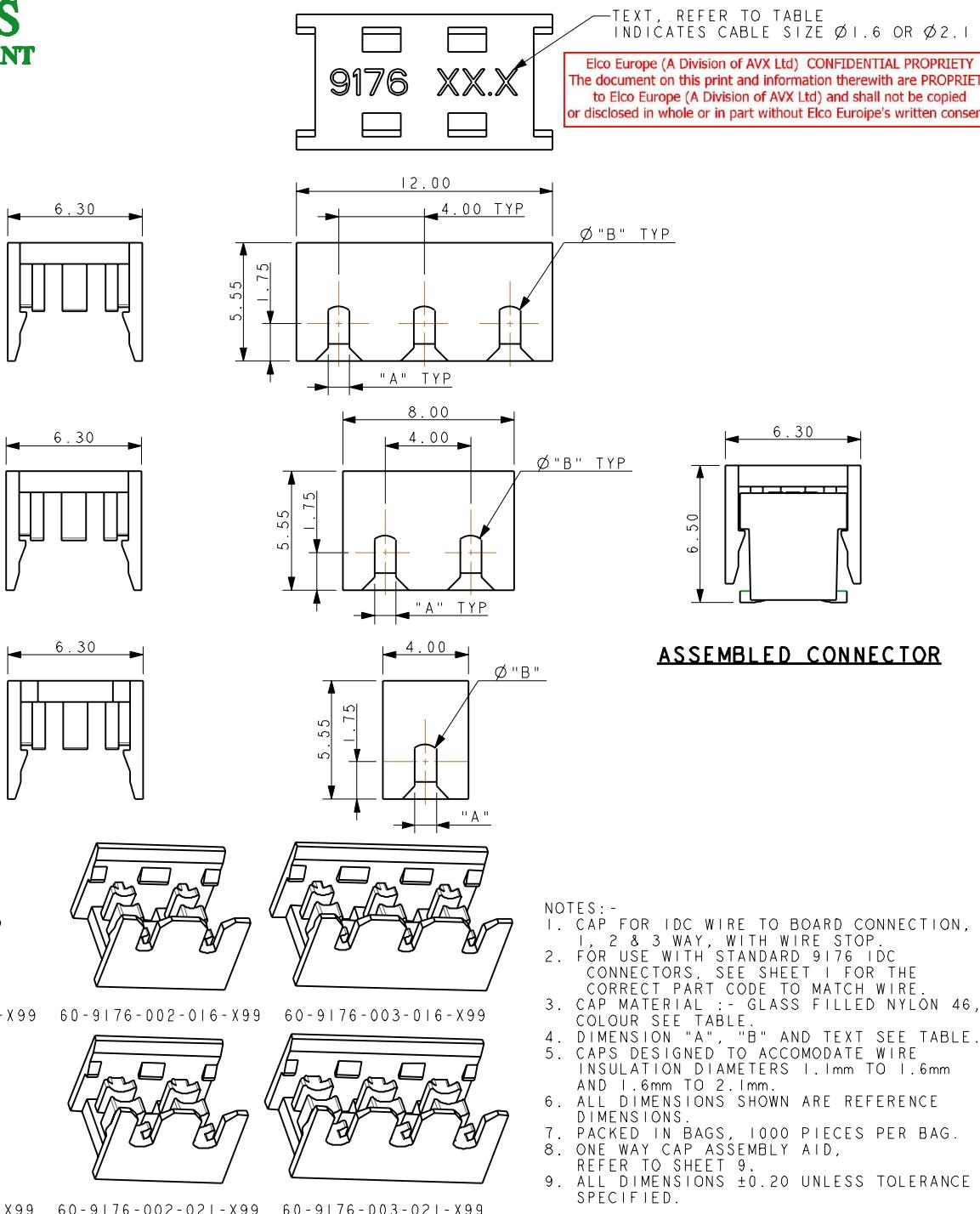


**RoHS
COMPLIANT**

**60-9176-00X-0XX-X99
ACCESSORY CAP - WIRE STOP**

A

B



NOTES:-

1. CAP FOR IDC WIRE TO BOARD CONNECTION, 1, 2 & 3 WAY, WITH WIRE STOP.
2. FOR USE WITH STANDARD 9176 IDC CONNECTORS, SEE SHEET 1 FOR THE CORRECT PART CODE TO MATCH WIRE.
3. CAP MATERIAL :- GLASS FILLED NYLON 46, COLOUR SEE TABLE.
4. DIMENSION "A", "B" AND TEXT SEE TABLE.
5. CAPS DESIGNED TO ACCOMODATE WIRE INSULATION DIAMETERS 1.1mm TO 1.6mm AND 1.6mm TO 2.1mm.
6. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
7. PACKED IN BAGS, 1000 PIECES PER BAG.
8. ONE WAY CAP ASSEMBLY AID, REFER TO SHEET 9.
9. ALL DIMENSIONS ± 0.20 UNLESS TOLERANCE SPECIFIED.

CODE	SLOT "A"	DIAMETER "B"	TEXT
016	1.00	1.60	Ø 1.6
021	1.50	2.10	Ø 2.1

COLOUR	X99
BLACK	099
WHITE	199

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Release No. 1
History
102742
102751
102775
09.06.2011
102781
30.06.2011
102849
03.02.2012
102853
14.02.2012
102857
22.02.2012
102881
21.05.2012



3rd ANGLE
ALL DIMENSIONS
IN MILLIMETRES

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Drawn
GKJ
Size
CV

Description
18-24AWG IDC WIRE TO BOARD CONNECTOR
Part Number
00-9176-01S
Date
29-Jul-09
Issue
12

SHEET 6 OF 9

FORM 106-01-056-6 ISS 7

A

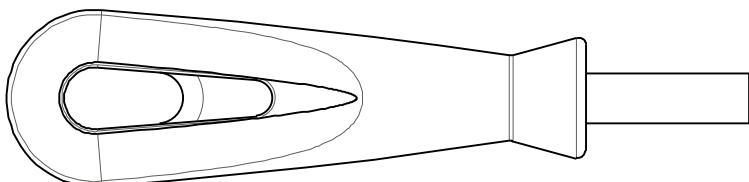
B

A

B

HAND INSERTION TOOLING

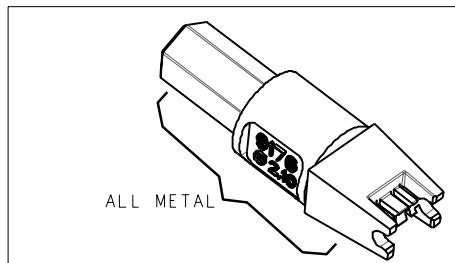
FOR SINGLE 18/24 GAUGE WIRE



UNIVERSAL HANDLE

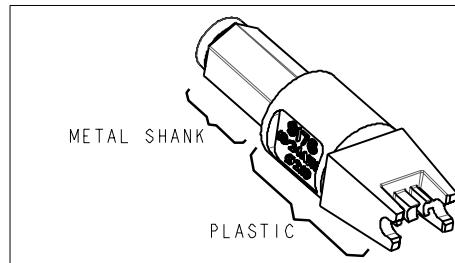
DETAILS	TOOL PART NUMBER
6.35 A/F HEX BIT HOLDER	06-7000-7730-01-000

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HIGH PRODUCTION METAL

MAX INSULATION DIA	TOOL PART NUMBER
Ø 2.10	06-9176-7017-01-000
Ø 1.60	06-9176-7017-02-000

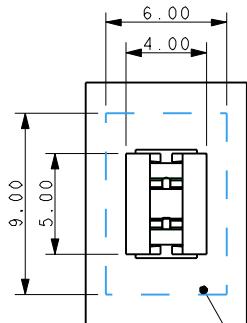


MED PRODUCTION METAL/PLASTIC

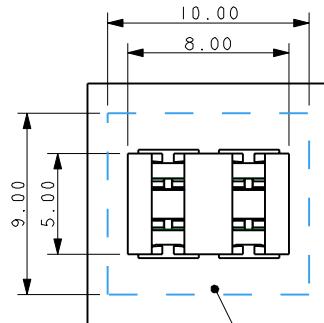
MAX INSULATION DIA	TOOL PART NUMBER
Ø 2.10	06-9176-7016-01-000
Ø 1.60	06-9176-7016-02-000

CLEARANCE AREA ON PCB FOR HAND TOOLING

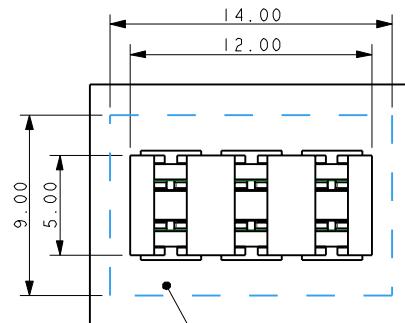
1 WAY 2 WAY 3 WAY



AREA TO BE KEPT CLEAR
FOR TOOLING



AREA TO BE KEPT CLEAR
FOR TOOLING



AREA TO BE KEPT CLEAR
FOR TOOLING

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SHEET 7 OF 9

Release No. :
 History :
 102742
 102751
 102775
 09.06.2011
 102781
 10278
 30.06.2011
 102849
 03.02.2012
 102853
 14.02.2012
 102857
 22.02.2012
 102881
 21.05.2012



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Drawn
GKJ
Size
CV

Description
WIRE INSERTION TOOL - HAND
Part Number
00-9176-01S

Date
10-May-07
Issue
12

A

B

A

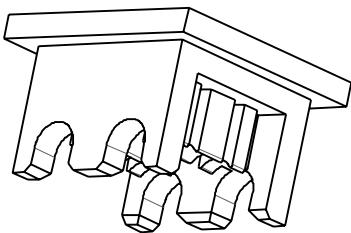
B

INSERTION TOOLING

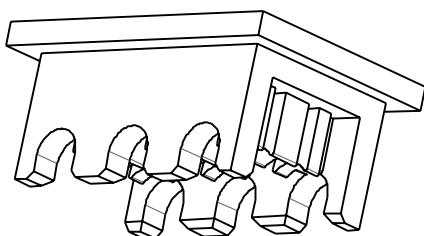
REQUIRES HAND PRESS WITH FLAT ROCK PLATES



2 WAY



3 WAY



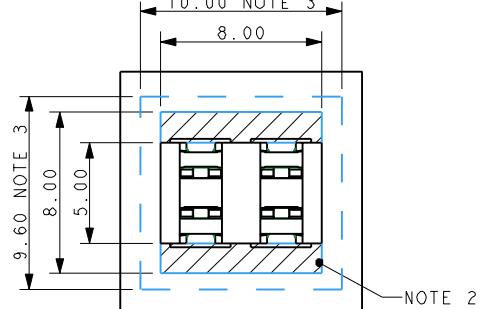
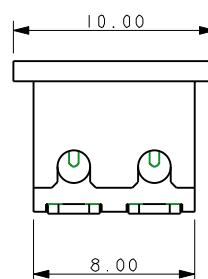
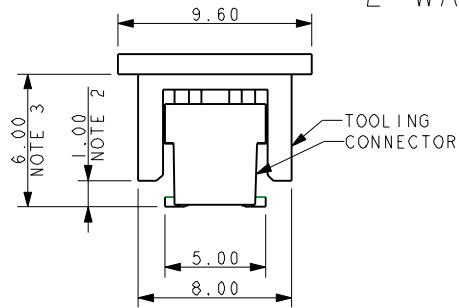
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HIGH PRODUCTION METAL

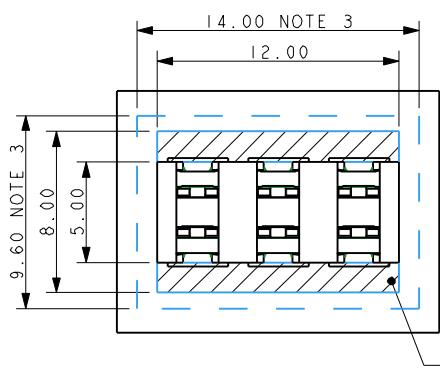
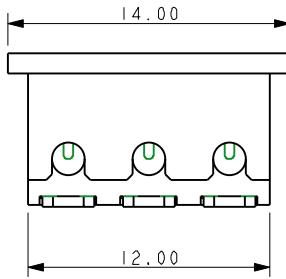
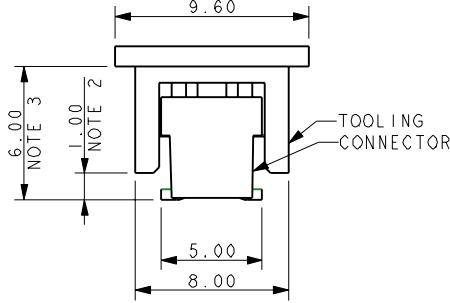
NO. OF WAYS	MAX INSULATION DIA	TOOL PART NUMBER
2	Ø 2.10	06-9176-7017-01-002
	Ø 1.60	06-9176-7017-02-002
3	Ø 2.10	06-9176-7017-01-003
	Ø 1.60	06-9176-7017-02-003

PCB RESTRICTED AREAS FOR PRESS ASSEMBLY TOOLING

2 WAY



3 WAY



NOTES : -
 1. DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
 2. MAXIMUM COMPONENT HEIGHT 1.00mm IN THIS AREA.
 3. MAXIMUM COMPONENT HEIGHT 6.00mm IN THIS AREA.
 4. THE SAME RESTRICTIONS APPLY TO ALL WIRE INSULATION DIAMETERS.
 5. 2 AND 3 WAY TOOLS ONLY, FOR USE UNDER HAND PRESS.
 WITH FLAT PLATES.
 6. FOR HAND TOOLING REFER TO SHEET 5.
 7. ALL DIMENSIONS ± 0.20 UNLESS TOLERANCE SPECIFIED.

SHEET 8 OF 9

A

B

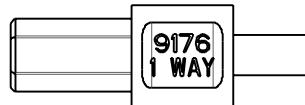
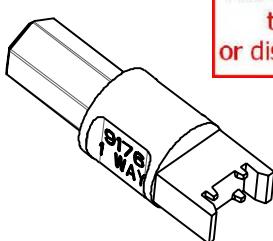
A

B

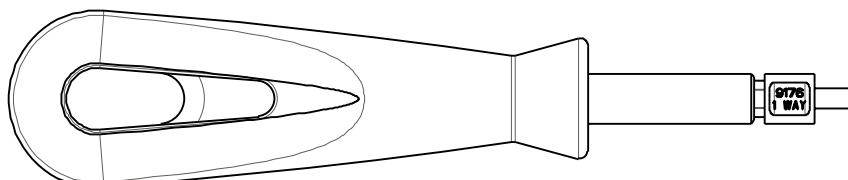
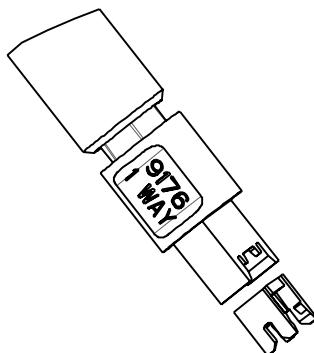
HAND INSERTION TOOLING

FOR ONE WAY CAP INSERTION

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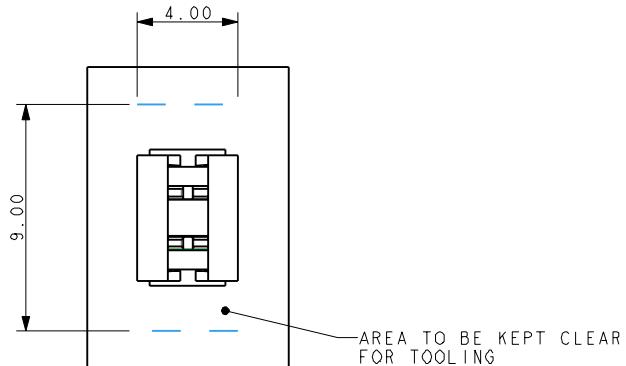


06-9176-7028-01-000

TO BE USED WITH 06-7000-7730-01-000
 UNIVERSAL HANDLE

FOR ASSEMBLY INSTRUCTION REFER TO 201-01-124 APPLICATION NOTES

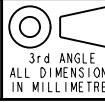
CLEARANCE AREA ON PCB FOR HAND TOOLING



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FORM 106-01-056-6 ISS 7

Release No. 102853
 14.02.2012
 102857
 22.02.2012
 102881
 21.05.2012



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SHEET 9 OF 9

DATE
 14-Feb-12Issue
 12

Drawn	Description	Date
GKJ	18-24AWG IDC WIRE TO BOARD CONNECTOR	14-Feb-12
Size	Part Number	Issue
CV	00-9176-01S	12

A

B