

APPENDIX B - CABLES AND ACCESSORIES

“CABLES FOR MOTORS WITH RESOLVERS” TABLE B.1

“CABLES FOR MOTORS WITH BRAKES” TABLE B.2

“CABLES FOR MOTORS WITH ENCODERS” TABLE B.3

“ACCESSORIES “ TABLE B.4

B.1 CABLE PART NUMBERS FOR MOTORS WITH RESOLVERS

DELTA PACKAGE	RESOLVER CABLE	MOTOR CABLE
D30HRA	C-245YYY	C-686YYY
D30HRB	C-245YYY	C-686YYY
D50HRA	C-245YYY	C-686YYY
D50HRB	C-245YYY	C-686YYY
D100HRA	C-268YYY	C-578YYY
D100HRB	C-268YYY	C-578YYY
120HRA	C-245YYY	C-686YYY
120HRB	C-245YYY	C-686YYY
200HRA	C-245YYY	C-686YYY
200HRB	C-245YYY	C-686YYY
D200HRA	C-268YYY	C-578YYY
D200HRB	C-268YYY	C-578YYY
B380HRA	C-245YYY	C-687BYYY
B380HRA1X	C-245YYY	C-687BYYY
400LRA	C-246YYY	C-687YYY
400HRA	C-245YYY	C-686YYY
D400HRA	C-268YYY	C-578YYY
500HRA	C-246YYY	C-687YYY
D600HRA	C-268YYY	C-578YYY
B630HRA	C-245YYY	C-687BYYY
B630HRA1X	C-245YYY	C-687BYYY
800LRA	C-246YYY	C-688YYY
800HRA	C-246YYY	C-687YYY
800HRAA	C-253YYY	C-687YYY
B800HRA	C-245YYY	C-687BYYY
D800HRA	C-268YYY	C-578YYY
1000LRA	C-246YYY	C-688YYY
1000HRA	C-246YYY	C-688YYY
1050LRA1X	C-246YYY	C-689YYY
B1060HRA	C-245YYY	C-688BYYY
1360HRA	C-245YYY	C-688YYY
1400HRA	C-246YYY	C-689YYY
1500LRA	C-246YYY	C-689YYY
1500LRA1X	C-246YYY	C-689YYY
B1600HRA	C-245YYY	C-689BYYY
1800HRA	C-246YYY	C-689YYY
B1900HRA	C-245YYY	C-689BYYY
2200LRA	C-246YYY	C-690YYY
2399HRA	C-246YYY	C-689YYY
2400HRA	C-246YYY	C-689YYY
2600LRA	C-246YYY	C-690YYY
2860MRA1X	C-245YYY	C-689YYY

B.1 CABLE PART NUMBERS FOR MOTORS WITH RESOLVERS (cont'd)

DELTA PACKAGE	RESOLVER CABLE	MOTOR CABLE
3300LRA	C-246YYY	C-691YYY
B3000HRA	C-245YYY	C-691BYYY
3400HRA	C-246YYY	C-691YYY
3700LRA	C-246YYY	C-691YYY
3700HRA	C-246YYY	C-691YYY
3740MRA1X	C-245YYY	C-689BYYY
B3950MRA	C-246YYY	C-689BYYY
B4400HRA	C-245YYY	C-691BYYY
4200MRA1X	C-263YYY & C-245CYYY	C-691BCEYYY
5000LRA	C-246YYY	C-692YYY
5000HRA	C-246YYY	C-551YYY
5500HRA	C-246YYY	C-692YYY
B5600HRA	C-245YYY	C-548YYY
6100CRA	C-262YYY	C-689BYYY
6500HRA	C-246YYY	C-692YYY
7500MRA	C-246YYY	C-548YYY
8600MRA	C-245YYY	C-674YYY
10000MRA	C-246YYY	C-548YYY
10300LRA	C-245YYY	C-674YYY
13500LRA	C-200YYY	C-674YYY
14300CRA	C-245YYY	C-692YYY

The C-245YYY, C-246YYY and C-268YYY cables have connectors on each end. This may not be the optimum way to implement field wiring of the resolver. IIS offers the C-262YYY, C-263YYY and C-269YYY cables that have a connector at the motor end and ferrules at the driver end. By using these cables in combination with the DINT-350 terminal strip adapter with ribbon cable, the field wiring can be done without pulling a connector through the field-wiring conduit.

C-245YYY → C-263YYY + DINT-350

C-246YYY → C-262YYY + DINT-350

C-268YYY → C-269YYY + DINT-350

Where YYY is the cable length in feet.

Motor cables are standard with ring lugs on the driver end of the cable. The ring lugs can be replaced with ferrules for terminal strip interface by simply adding an "F" to the standard cable number. For example, a C-689050 50ft motor cable has ring lugs but a C-689F050 has ferrule termination on the driver end.

All motor cables are available with full shielding for CE compliance. Simply add the letters "CE" into the motor cable part number. For example, the C-688020 20ft motor cable for CE compliance is C-688CE020. A C-688BF030 30ft cable with ferrules would be C-688BFCE030.

B.2 CABLE PART NUMBERS FOR MOTORS WITH MECHANICAL BRAKES

DELTA PACKAGE	RESOLVER CABLE	MOTOR CABLE
120HRAB	C-245YYY	C-686BYYY
120HRBB	C-245YYY	C-686BYYY
200HRAB	C-245YYY	C-686BYYY
200HRBB	C-245YYY	C-686BYYY
400LRAB	C-246YYY	C-687BYYY
400HRAB	C-245YYY	C-686BYYY
500HRAB	C-246YYY	C-687BYYY
800LRAB	C-246YYY	C-688BYYY
800HRAB	C-246YYY	C-687BYYY
D800HEAAB*	C-277YYY	C-578YYY & C-585YYY
D800HRAB*	C-268YYY	C-578YYY & C-585YYY
1000LRAB	C-246YYY	C-688BYYY
1000HRAB	C-246YYY	C-688BYYY
1400HRAB	C-246YYY	C-689BYYY
1500LRAB	C-246YYY	C-689BYYY
1800HRAB	C-246YYY	C-689BYYY
1800HRAAB	C-253YYY	C-689B777
2200LRAB	C-246YYY	C-690BYYY
2400HRAB	C-246YYY	C-689BYYY
2600LRAB	C-246YYY	C-690BYYY
3300LRAB	C-246YYY	C-691BYYY
B3000HRAB*	C-245YYY	C-575BYYY & C-576YYY
3400HRAB	C-246YYY	C-691BYYY
3700LRAB	C-246YYY	C-691BYYY
3700HRAB	C-246YYY	C-691BYYY
5000LRAB	C-246YYY	C-692YYY
5000HRAB	C-246YYY	C-551BYYY
5500HRAB	C-246YYY	C-692YYY
6500HRAB	C-246YYY	C-692YYY
7500MRAB	C-246YYY	C-548YYY
10000MRAB	C-246YYY	C-548YYY

*The DBM-D800/30EAB, DBM-D800/30RAB and DBM-B3000/30RB motors have 2 motor cables.

The C-245YYY, C-246YYY and C-268YYY cables have connectors on each end. This may not be the optimum way to implement field wiring of the resolver. IIS offers the C-262YYY, C-263YYY and C-269YYY cables that have a connector at the motor end and ferrules at the driver end. By using these cables in combination with the DINT-350 terminal strip adapter with ribbon cable, the field wiring can be done without pulling a connector through the field-wiring conduit.

C-245YYY → C-263YYY + DINT-350

C-246YYY → C-262YYY + DINT-350

C-268YYY → C-269YYY + DINT-350

Where YYY is the cable length in feet.

Motor cables are standard with ring lugs on the driver end of the cable. The ring lugs can be replaced with ferrules for terminal strip interface by simply adding an "F" to the standard cable number. For example, a C-689050 50ft motor cable has ring lugs but a C-689F050 has ferrule termination on the driver end.

All motor cables are available with full shielding for CE compliance. Simply add the letters "CE" into the motor cable part number. For example, the C-688020 20ft motor cable for CE compliance is C-688CE020. A C-688BF030 30ft cable with ferrules would be C-688BFCE030.

B.3 CABLE PART NUMBERS FOR MOTORS WITH ENCODERS

DELTA PACKAGE	ENCODER CABLE	MOTOR CABLE
B380HEA	C-333YYY	C-687BYYY
85E400MEA	C-333YYY	C-687BYYY
480LEA	C-333YYY	C-687BYYY
120E500LEA	C-351YYY	C-571BYYY
85E525HEA	C-333YYY	C-687BYYY
B630HEA	C-333YYY	C-687BYYY
85E650MEA	C-333YYY	C-687BYYY
C740LEA	C-333YYY	C-687BYYY
120E750LEA	C-351YYY	C-571BYYY
120E750MEA	C-351YYY	C-571BYYY
85E750MEA	C-333YYY	C-687BYYY
B800HEA	C-333YYY	C-687BYYY
85E850HEA	C-333YYY	C-687BYYY
120E1000MEA	C-351YYY	C-571BYYY
85E1000MEA	C-333YYY	C-687BYYY
B1060HEA	C-333YYY	C-688BYYY
120E1100LEA	C-351YYY	C-571BYYY
85E1200HEA	C-333YYY	C-687BYYY
120E1500LEA	C-351YYY	C-571BYYY
120E1500MEA	C-351YYY	C-571BYYY
B1600HEA	C-333YYY	C-689BYYY
B1900HEA	C-333YYY	C-689BYYY
120E2000LEA	C-351YYY	C-571BYYY
120E2200MEA	C-351YYY	C-571BYYY
120E3000MEA	C-351YYY	C-571BYYY
B3000HEA	C-333YYY	C-691BYYY
120E4000MEA	C-351YYY	C-571BYYY
B4400HEA	C-333YYY	C-691BYYY
B5600HEA	C-333YYY	C-548YYY

The C-333YYY (C-351YYY) cable has connectors on both ends. This may not be the optimum way to implement field wiring for the encoder. IIS offers the C-329YYY (C-350YYY) cable, which has a connector at the motor end and ferrules at the driver end. By using the C-329YYY (C-350YYY) cable in combination with the DINT-350 terminal strip adapter with ribbon cable, the field wiring can be done without pulling a connector through the field-wiring conduit.

C-333YYY → C-329YYY + DINT-350
 C-351YYY → C-350YYY + DINT-350

Where YYY is the cable length in feet.

NOTE

The C-329YYY or C-350YYY cable must be used for encoder cable lengths in excess of 20 ft.

Motor cables are standard with ring lugs on the driver end of the cable. The ring lugs can be replaced with ferrules for terminal strip interface by simply adding an "F" to the standard cable number. For example, a C-689050 50ft motor cable has ring lugs but a C-689F050 has ferrule termination on the driver end.

All motor cables are available with full shielding for CE compliance. Simply add the letters "CE" into the motor cable part number. For example, the C-688020 20ft motor cable for CE compliance is C-688CE020. A C-688BF030 30ft cable with ferrules would be C-688BFCE030.

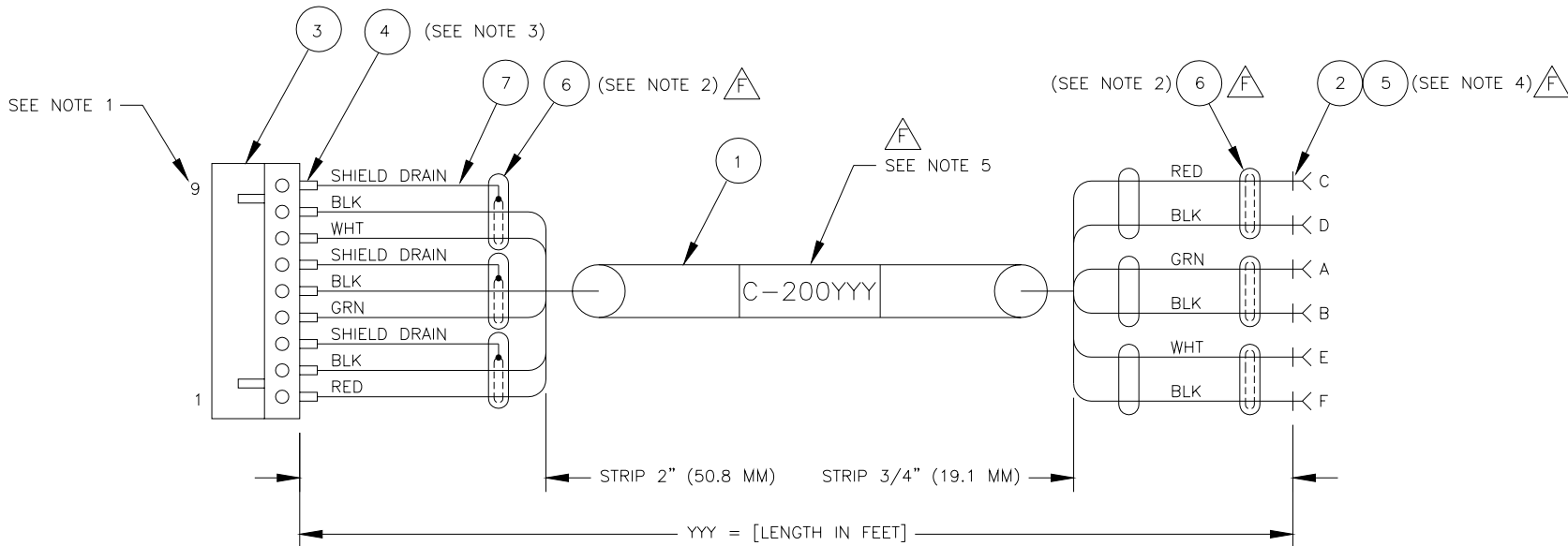
B.4 ACCESSORIES

<u>DRAWING NUMBER</u>	<u>DESCRIPTION</u>
C-263YYY	Resolver Cable
C-269YYY	Resolver Cable
C-329YYY	Encoder Cable
C-337YYY	Encoder Cable
C-338YYY	Encoder Cable
C-350YYY	Encoder Cable
C-477YYY	Command Cable
C-545YYY	Motor Cable
C-715006	High Speed I/O Cable w/ Double Connector
C-716006	I/O Cable w/ Double Connector
C-718006	High Speed I/O Cable w/ Connector & Flying Lead
C-719006	I/O Cable w/ Connector & Flying Lead
C-722YYY	Monitor Test Point Cable
C-7290001.6	Delta Battery Cable
C-750YYY	I/O Cable
C-752YYY	SERCOS Fiber Optic Cable, Armored Coating
C-753YYY	SERCOS Fiber Optic Cable
C-820YYY	Communication Cable
C-822YYY	Adaptor Cable
C-987YYY	Modular Data Cable
DELTA-B-3.6/2	Delta Battery Pack
DINT-300	Interface
DINT-300K	Interface
DINT-300S	Interface
DINT-350	Interface
IC-065002	Interconnection
IC-066000	Interconnection

DATE	SYM	REVISION RECORD	DR	CK	CK
20JUN00	F	PER ECN 00-188	CWB	EB	CDR

NOTES:

- PIN NUMBERS SHOWN FOR REFERENCE ONLY.
- HEAT SHRINK TUBING [ITEM 6] OVER FOIL END (6 PLACES).
- CRIMP FERRULES USING WEIDMULLER CRIMP TOOL PZ4 OR EQUIVALENT.
- HEAT SHRINK TUBING [ITEM 5] OVER SOLDER JOINT (6 PLACES).
- MARK PER QP-08-0001.



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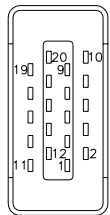
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APPROVED BY C.M.E.	DATE 3/7/89	TITLE CABLE, RESOLVER			
MATERIAL -----	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BAIER	DRAWING NUMBER C-200YYY		
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			SHEET NO. 1 OF 1	REVISION F	

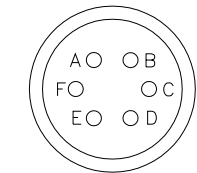
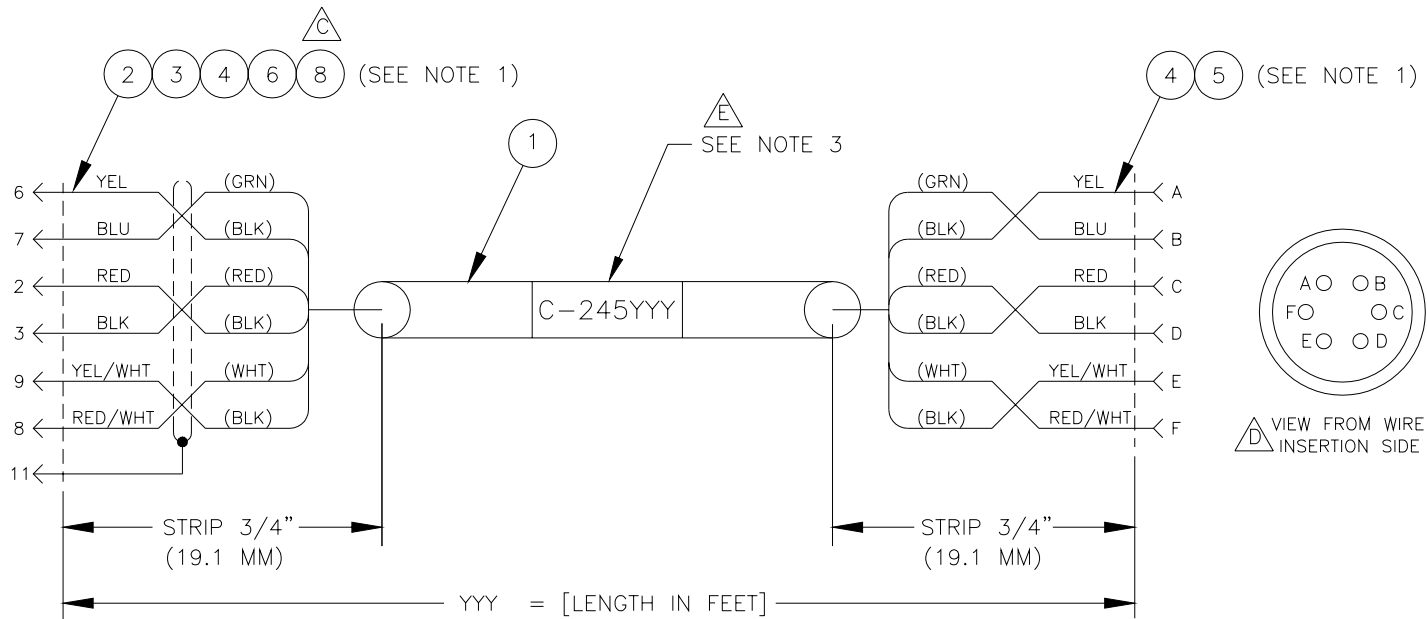
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19JUL00	E	PER ECN 00-246	CWB	EB	CDR

NOTES:

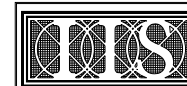
1. HEAT SHRINK TUBING [ITEM 4] OVER SOLDER JOINT (13 PLACES)
2. COLORS IN () INDICATE ALTERNATE CABLE COLORS.
3. MARK PER QP-08-0001.



20 POS. CONNECTOR
AS VIEWED FROM
SOLDER SIDE



VIEW FROM WIRE
INSERTION SIDE



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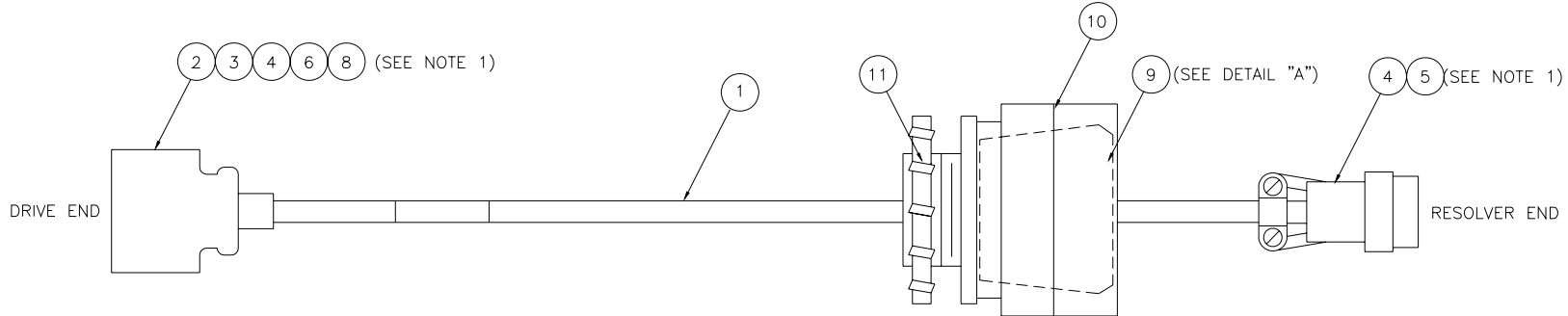
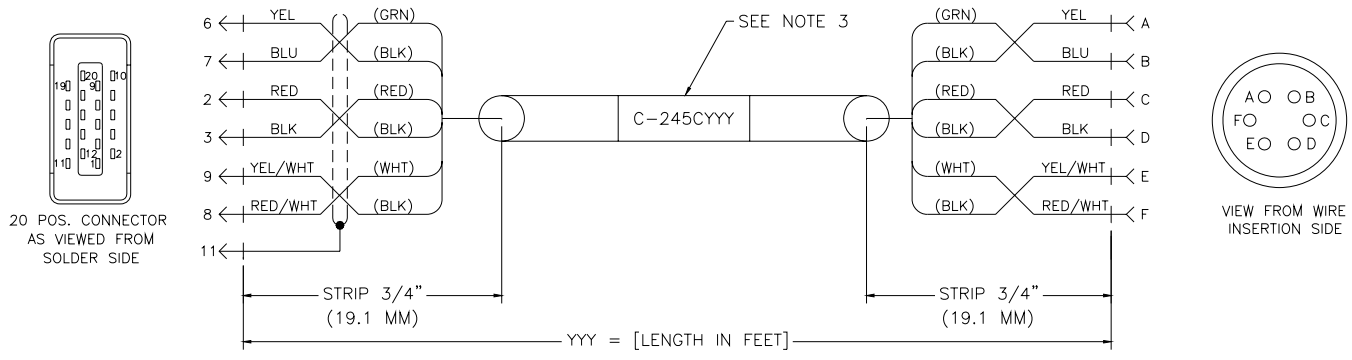
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APPROVED BY JC	DATE 4/15/96	TITLE CABLE, RESOLVER			
MATERIAL -----	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER C-245YYY		
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		DATE 07FEB96			REVISION E

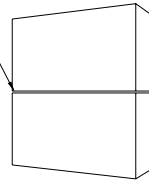
NOTES:

1. HEAT SHRINK TUBING [ITEM 4] OVER SOLDER JOINT (13 PLACES).
2. COLORS IN () INDICATE ALTERNATE CABLE COLORS.
3. MARK PER QP-08-0001.

DATE	SYM	REVISION RECORD	DR	CK	CK
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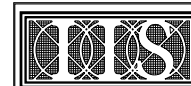
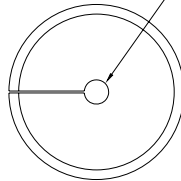


CUT HALFWAY THRU THE GRIP TO THE CENTER HOLE



DETAIL A
CORD GRIP DETAIL

BORE 0.25 DIA. THRU



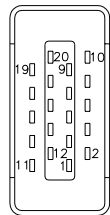
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APPROVED BY	DATE	TITLE			
APPROVED BY	DATE	CABLE, RESOLVER			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
---	---	BOWMAN	C-245CYYY		
FINISH	TOLERANCES	AutoCAD FILE LOCATION	SCALE		
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	ANGULAR ± ---	DATE	SCALE	SHEET NO.	REVISION
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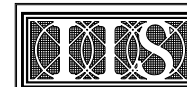
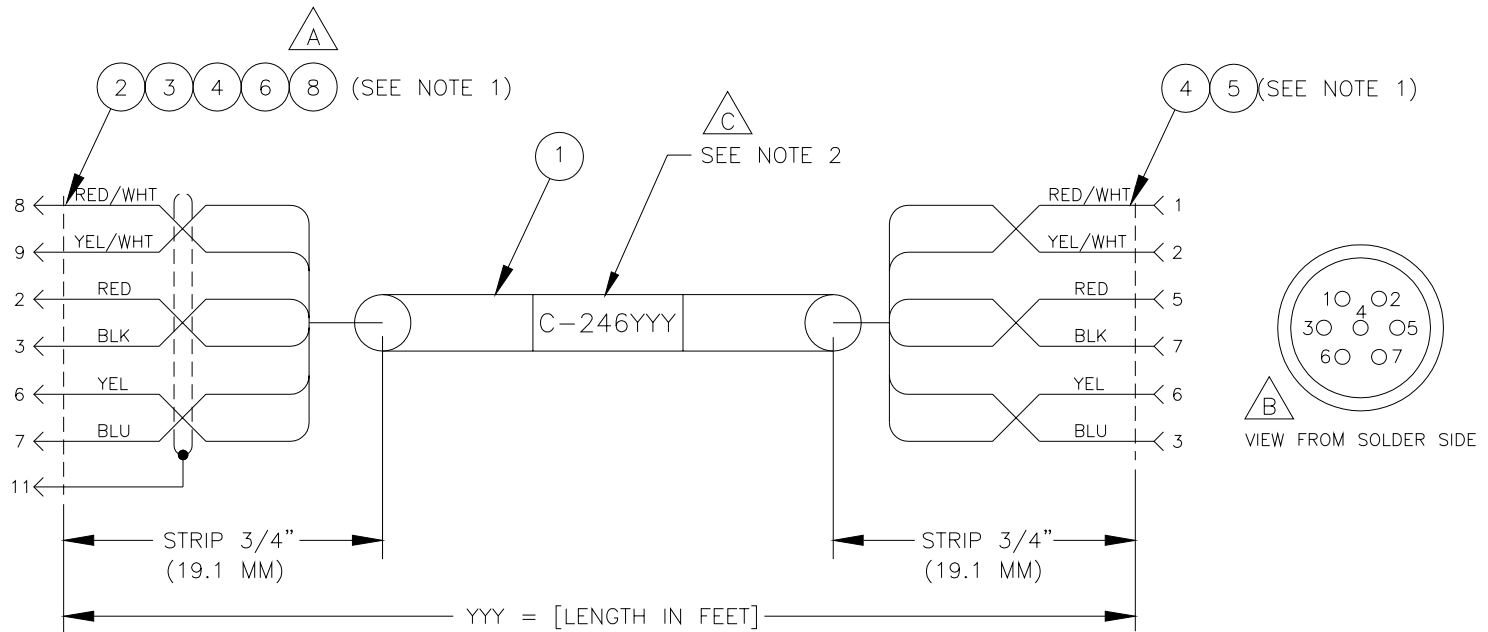
DATE	SYM	REVISION RECORD	DR	CK	CK
19JUL00	C	PER ECN 00-246	CWB	EB	CDR

NOTES:

- HEAT SHRINK TUBING [ITEM 4] OVER SOLDER JOINT (13 PLACES)
- MARK PER QP-08-001.



20 POS. CONNECTOR
AS VIEWED FROM
SOLDER SIDE



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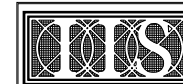
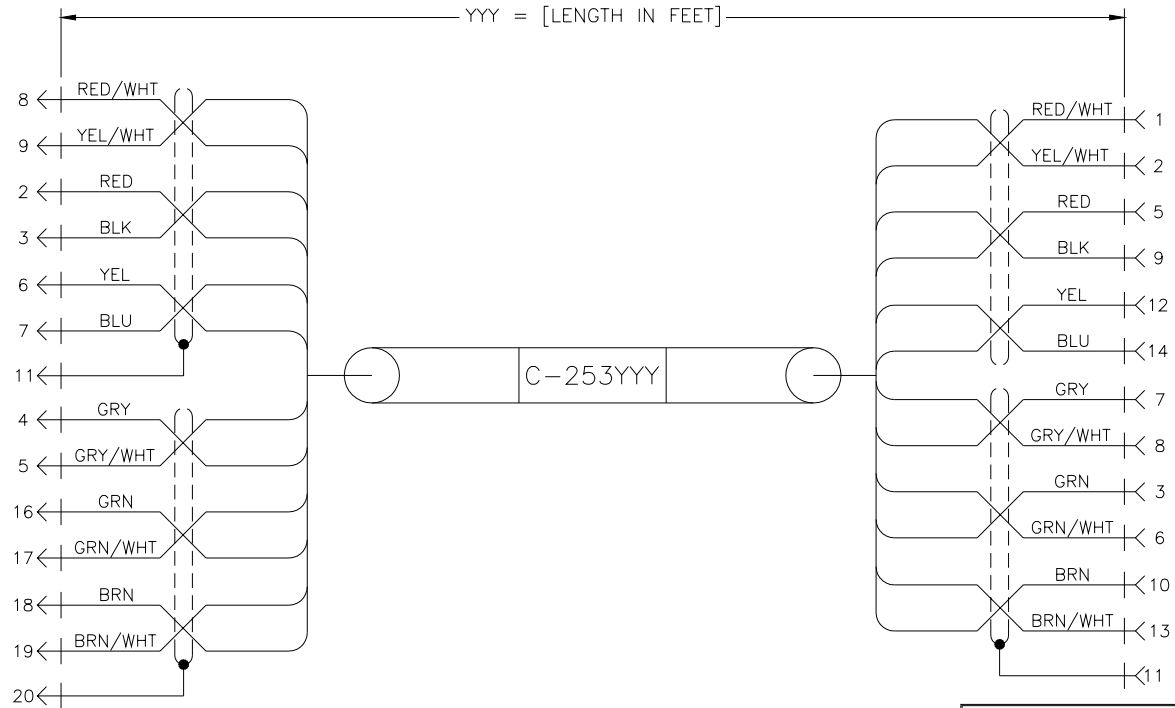
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APPROVED BY ELS	DATE 10DEC99				
APPROVED BY ELS	DATE 24APR96	TITLE CABLE, RESOLVER			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER C-246YYY		
FINISH	TOLERANCES X.X± --- X.XX± 0.01 X.XXX± 0.005	AutocAD FILE LOCATION Q:\CURRENT DWGS	DATE 26APR96	SCALE ---	SHEET NO. 1 OF 1
	ANGULAR ± ---	B	REVISION C		

NOTES:

1. PIN NUMBERS SHOWN FOR REFERENCE ONLY

DATE	SYM	REVISION RECORD	DR	CK	CK
06MAY97	0	PER ECN 97-151	CWB		



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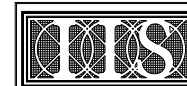
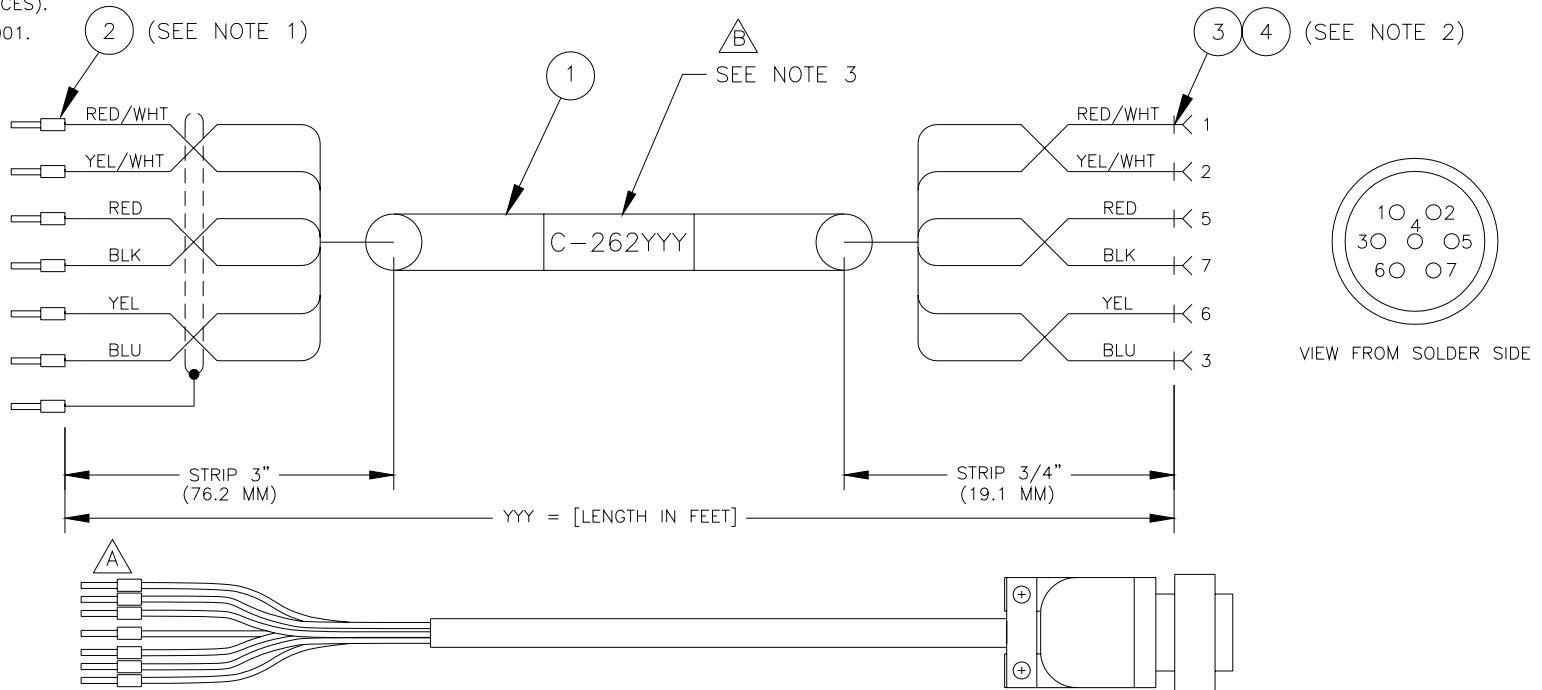
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APPROVED BY	DATE				
APPROVED BY	DATE	TITLE			
		CABLE, RESOLVER			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY		DRAWING NUMBER	
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	X.XXX ± 0.005		B 06MAY97	---	1 OF 1
					REVISION
					0

NOTES:

1. CRIMP ITEM 2 USING WEIDMULLER TOOL PZ-4 OR EQUIVALENT.
2. HEAT SHRINK TUBING [ITEM 4] SOLDER JOINT (7 PLACES).
3. MARK PER QP-08-0001.

DATE	SYM	REVISION RECORD	DR	CK	CK
19JUL00	B	PER ECN 00-246	CWB	EB	CDR



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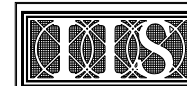
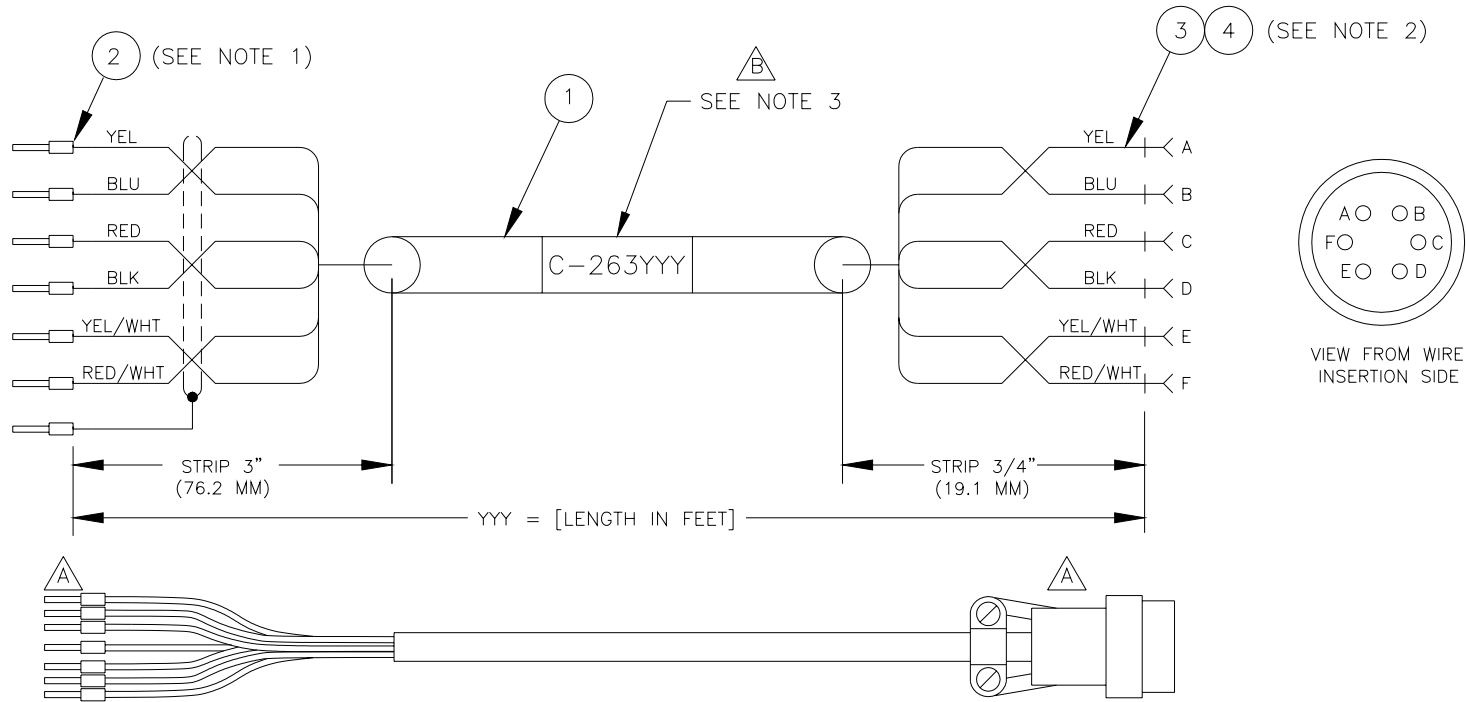
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APPROVED BY JC	DATE 6/10/98	TITLE CABLE, RESOLVER TO DINT-350			
MATERIAL -----	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BAIER	DRAWING NUMBER C-262YYY		
FINISH -----	TOLERANCES X.X± --- X.XX± 0.01 X.XXX± 0.005	ANGULAR ± ---	AutocAD FILE LOCATION Q:\CURRENT DWGS	SCALE ---	SHEET NO. 1 OF 1
			DATE 27MAY98		REVISION B

NOTES:

1. INSTALL ITEM 2 USING WEIDMULLER CRIMP TOOL PZ-4 OR EQUIVALENT.
2. HEAT SHRINK TUBING [ITEM 4] OVER SOLDER JOINT (7 PLACES).
3. MARK PER QP-08-0001.

DATE	SYM	REVISION RECORD	DR	CK	CK
19JUL00	B	PER ECN 00-246	CWB	EB	CDR



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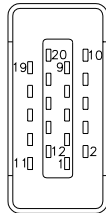
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CHECKED BY CD	DATE 6/10/98	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY JC	DATE 6/10/98	TITLE CABLE, RESOLVER			
MATERIAL -----	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BAIER	DRAWING NUMBER C-263YYY		
FINISH -----	TOLERANCES X.X± --- X.XX± 0.01 X.XXX± 0.005	ANGULAR ± ---	AutocAD FILE LOCATION Q:\CURRENT DWGS	SCALE ---	SHEET NO. 1 OF 1
		DATE 27MAY98			REVISION B

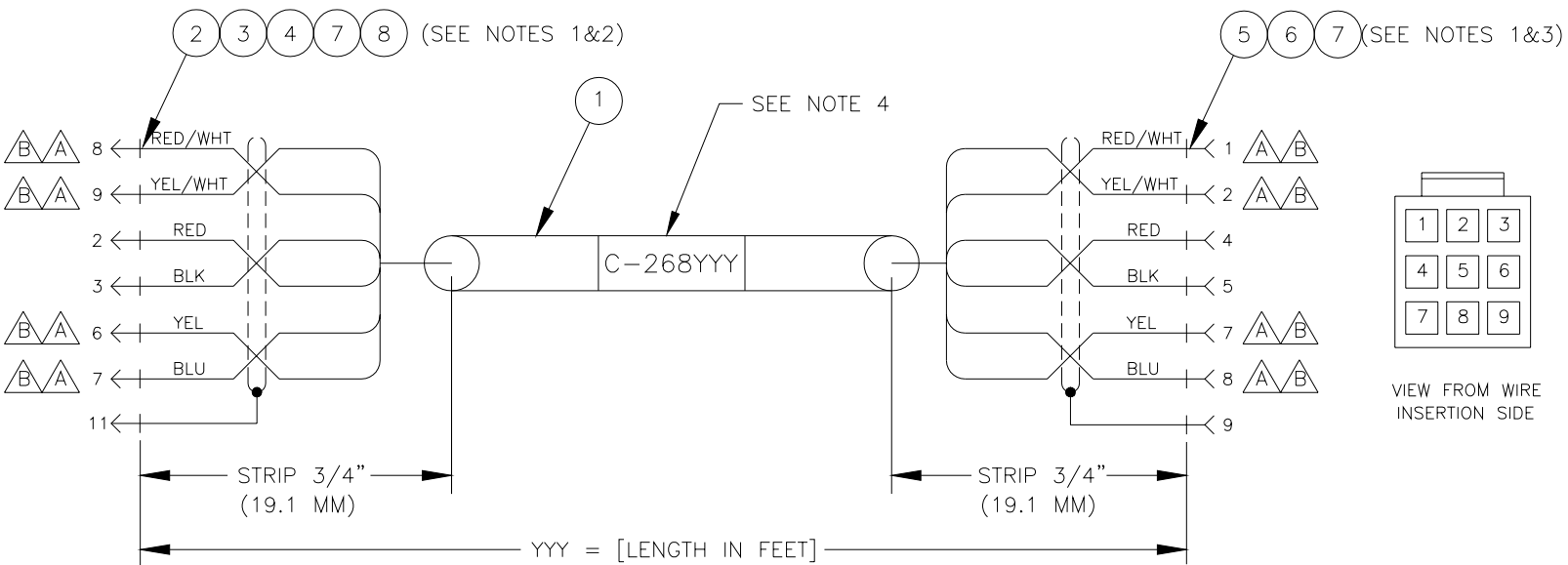
DATE	SYM	REVISION RECORD	DR	CK	CK
14DEC00	B	PER ECN 00-414	EB	JC	CDR

NOTES:

- PIN NUMBERS SHOWN FOR REFERENCE ONLY.
- HEAT SHRINK TUBING [ITEM 4] OVER SOLDER JOINT (7 PLACES).
- CRIMP USING JST CRIMP TOOL #YC-520.
- MARK PER QP-08-0001.




20 POS. CONNECTOR
AS VIEWED FROM
SOLDER SIDE



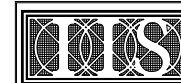
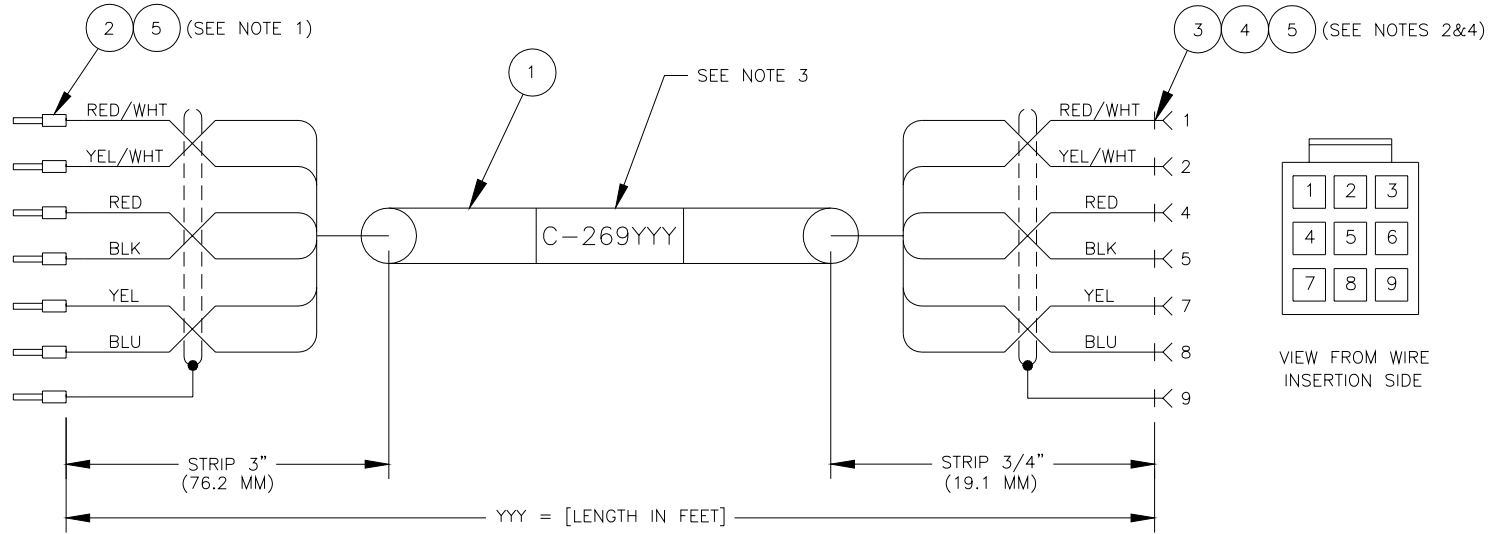
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www.iis-servo.com

CHECKED BY T.O'BRIEN	DATE 2/23/00	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY JC	DATE 12/18/00	TITLE CABLE, RESOLVER			
MATERIAL -----	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER C-268YYY		
FINISH -----	TOLERANCES X.X± --- X.XX± 0.01 X.XXX± 0.005	ANGULAR ± ---	AutocAD FILE LOCATION Q:\CURRENT DWGS	SCALE ---	SHEET NO. 1 OF 1
		DATE 15FEB00			REVISION B

NOTES: 

- 1.) CRIMP ITEM 2 USING WEIDMULLER TOOL PZ-4 OR EQUIVALENT.
- 2.) CRIMP ITEM 3 USING JST CRIMP TOOL YC-520.
- 3.) MARK PER QP-08-0001.
- 4.) PIN NUMBERS SHOWN FOR REFERENCE ONLY.

DATE	SYM	REVISION RECORD	DR	CK	CK
27DEC00	A	PER ECN 00-432	CWB	CD	CDR



INDUSTRIAL INDEXING SYSTEMS, Inc.

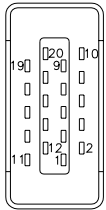
www.iis-servo.com

CHECKED BY	DATE	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY	DATE				
APPROVED BY	DATE	TITLE			
		CABLE, RESOLVER			
MATERIAL		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY	
-----		TOLERANCES		BOWMAN	
		AutoCAD FILE LOCATION		DRAWING NUMBER	
		Q:\CURRENT DWGS		C-269YYY	
FINISH		DATE		SCALE	
-----		15FEB00		---	
		SHEET NO.		REVISION	
		1 OF 1		A	

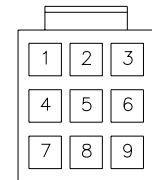
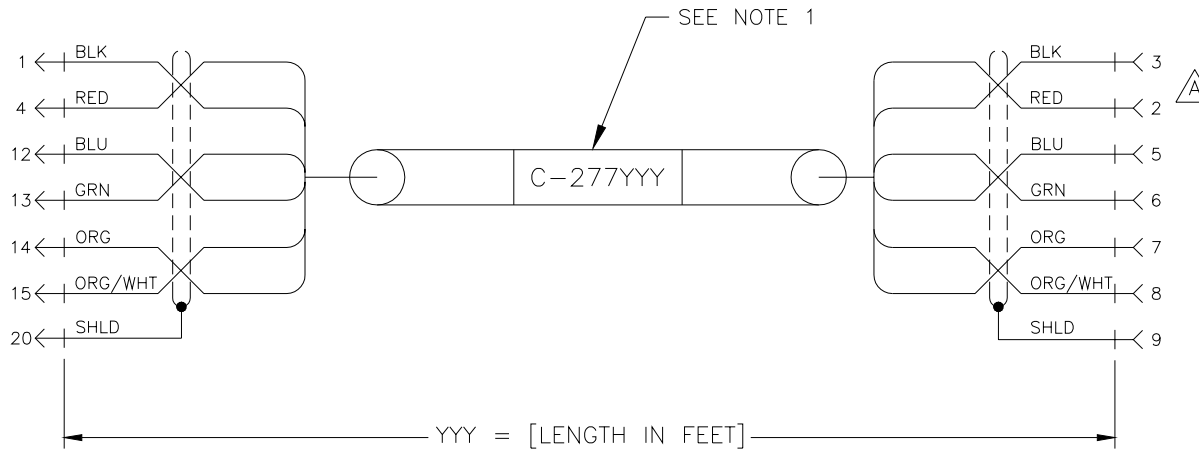
NOTES:

1. MARK PER QP-08-0001.

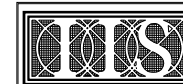
DATE	SYM	REVISION RECORD	DR	CK	CK
27MAR01	A	PER ECN 01-115	CWB		



20 POS. CONNECTOR
AS VIEWED FROM
SOLDER SIDE



VIEW FROM WIRE
INSERTION SIDE

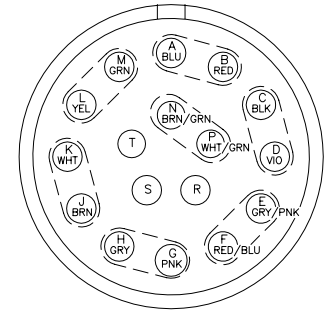
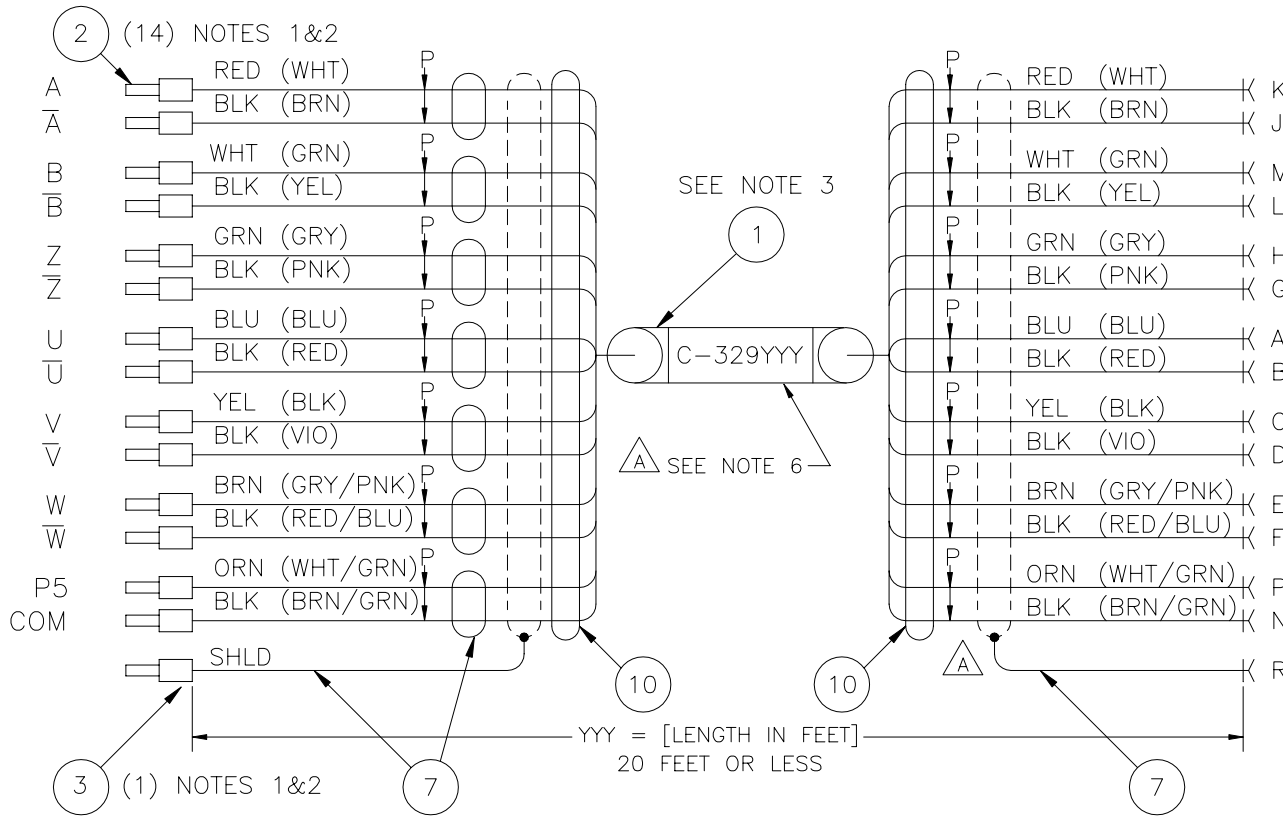


INDUSTRIAL INDEXING SYSTEMS, Inc.

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CHECKED BY PK	DATE 1/25/01	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY	DATE	TITLE CABLE, RESOLVER			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BAIER	DRAWING NUMBER C-277YYY		
FINISH	TOLERANCES X.X ± --- X.XX ± 0.01 X.XXX ± 0.005	ANGULAR ± 0° 30'	AutocAD FILE LOCATION Q:\CURRENT DWGS	DATE 22JAN01	SCALE ---
			SHEET NO. 1 OF 1	REVISION A	

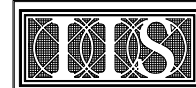
DATE	SYM	REVISION RECORD	DR	CK	CK
18MAY04	A	PER ECN 04-197	CWB		



CONNECTOR AS VIEWED FROM SOLDER SIDE
20 AWG COLORS SHOWN

NOTES:

1. INSTALL ITEM 2 & 3 USING WEIDMULLER CRIMP TOOL PZ4 OR EQUIV.
2. ALTERNATE CONSTRUCTION; STRIP AND TIN 1/4".
3. COLORS SHOWN (COLOR) INDICATES ASSEMBLIES MANUFACTURED WITH RAW MATERIAL "P.N 35814".
4. ITEM 6 SUPPLIED AS PART OF CONNECTOR, ITEM 4.
5. IF CRIMP TYPE CONNECTOR IS USED: INSTALL ITEM 4 USING AMP TOOL #90277-1.
6. MARK PER QP-08-0001.



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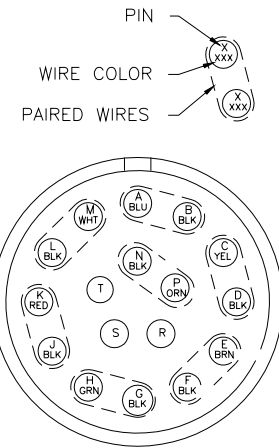
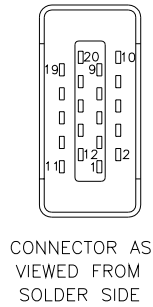
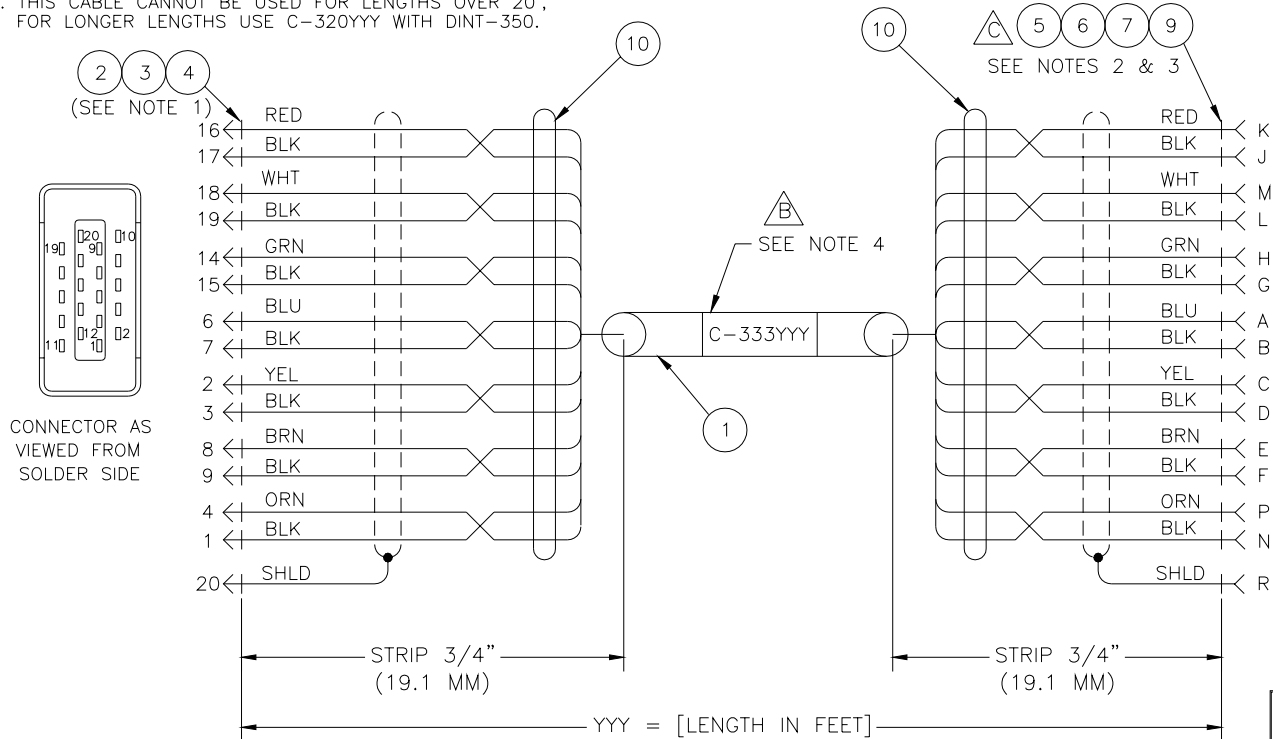
CHECKED BY	DATE	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF; INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF; INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY	DATE	TITLE			
APPROVED BY	DATE	CABLE, ENCODER			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
-----	TOLERANCES	BOWMAN	C-329YYY		
FINISH	X.X± --- ANGULAR ± ---	AutoCAD FILE LOCATION	Q:\CURRENT	DWGS	SHEET NO.
-----	X.XX± --- X.XXX± ---	DATE	17JUL95	SCALE	1 OF 1
					REVISION
					A

NOTES: $\triangle B$

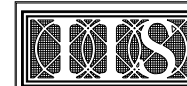
1. HEAT SHRINK TUBING [ITEM 4] OVER SOLDER JOINTS.
2. ITEM 6 SUPPLIED AS PART OF CONNECTOR, ITEM 5.
3. IF CRIMP TYPE CONNECTOR IS USED:
INSTALL ITEM 4 USING AMP TOOL #90277-1.
4. MARK PER QP-08-0001.

$\triangle D$ 5. THIS CABLE CANNOT BE USED FOR LENGTHS OVER 20',
FOR LONGER LENGTHS USE C-320YYY WITH DINT-350.

DATE	SYM	REVISION RECORD	DR	CK	CK
18MAY04	E	PER ECN 04-198	CWB		



CONNECTOR AS VIEWED FROM SOLDER SIDE



INDUSTRIAL INDEXING SYSTEMS, Inc.

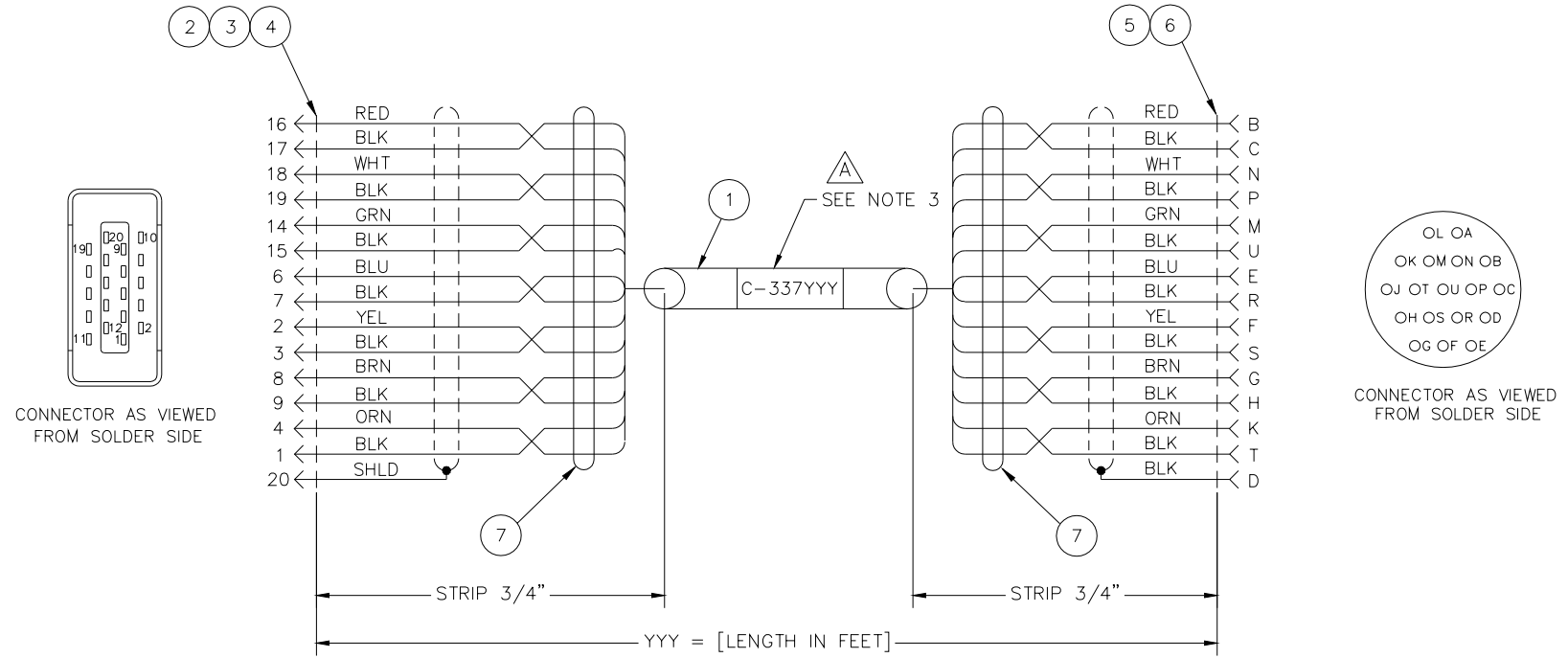
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APPROVED BY	DATE				
CD	14NOV98				
APPROVED BY	DATE	TITLE			
WES	10AUG97	CABLE, ENCODER			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
-----		BAIER	C-333YYY		
FINISH	TOLERANCES	AutoCAD FILE LOCATION			
-----	X.X± --- ANGULAR ± ---	Q:\CURRENT DWGS			
	X.XX± ---	DATE	SCALE	SHEET NO.	REVISION
	X.XXX± ---	B 08AUG97	---	1 OF 1	E

DATE	SYM	REVISION RECORD	DR	CK	CK
05FEB03	A	PER ECN 03-075	CWB		

NOTES: **A**

- PIN NUMBERS SHOWN FOR REFERENCE ONLY.
- HEAT SHRINK TUBING [ITEM 4] OVER SOLDER JOINTS.
- MARK PER QP-08-0001.



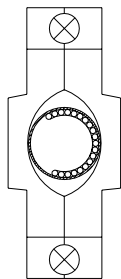
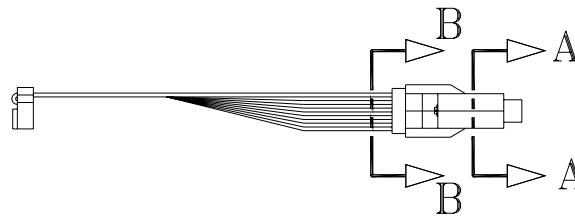
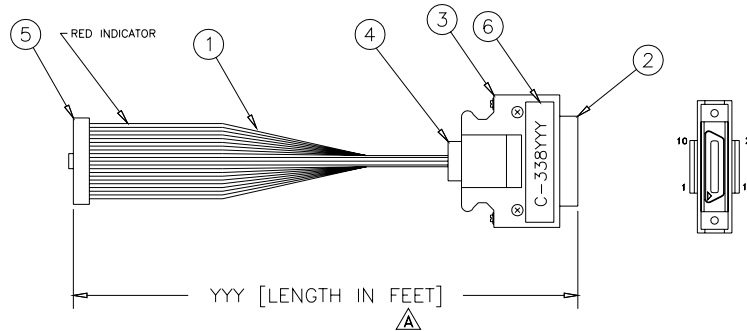
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APPROVED BY	DATE	TITLE			
APPROVED BY	DATE	CABLE, ENCODER			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
-----	TOLERANCES	BOWMAN	C-337YYY		
FINISH	X.X ± 0.01	AutocAD FILE LOCATION	DATE	SCALE	SHEET NO.
-----	X.XXX ± 0.005	Q:\CURRENT DWGS	B	24SEP97	1 OF 1
	ANGULAR ± 0'30"				REVISION A

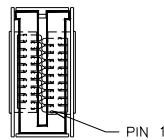
NOTES:

- 1) SPLIT ONE END OF THE FLAT CABLE IN HALF
(10 CONDUCTORS) APPROXIMATELY 3/4" BACK.

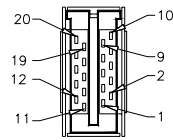
DATE	SYM	REVISION RECORD	DR	CK
15FEB99	A	PER ECN 99-040	EB	EB/CDR



SECTION B-B
SHOWING FLAT CABLE



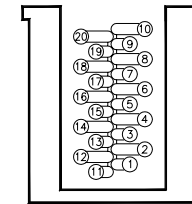
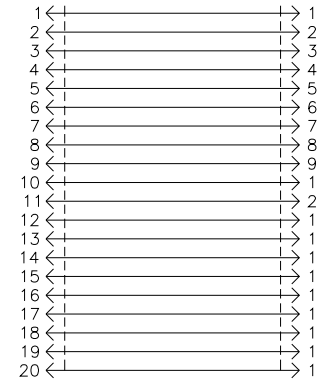
SECTION A-A
SHOWING FLAT CABLE
INSERTED



20 POSITION CONNECTOR
VIEWED FROM WIRE
INSERTION SIDE

DINT-350 SIDE
RIBBON CONNECTOR

DELTAMAX DRIVE SIDE
"MINI D" CONNECTOR



ENLARGED VIEW SHOWING
'U' RETAINER AND CABLE/
PIN ORIENTATION



INDUSTRIAL INDEXING SYSTEMS, Inc.

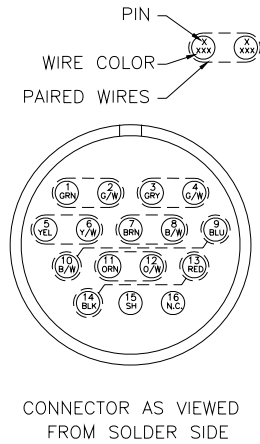
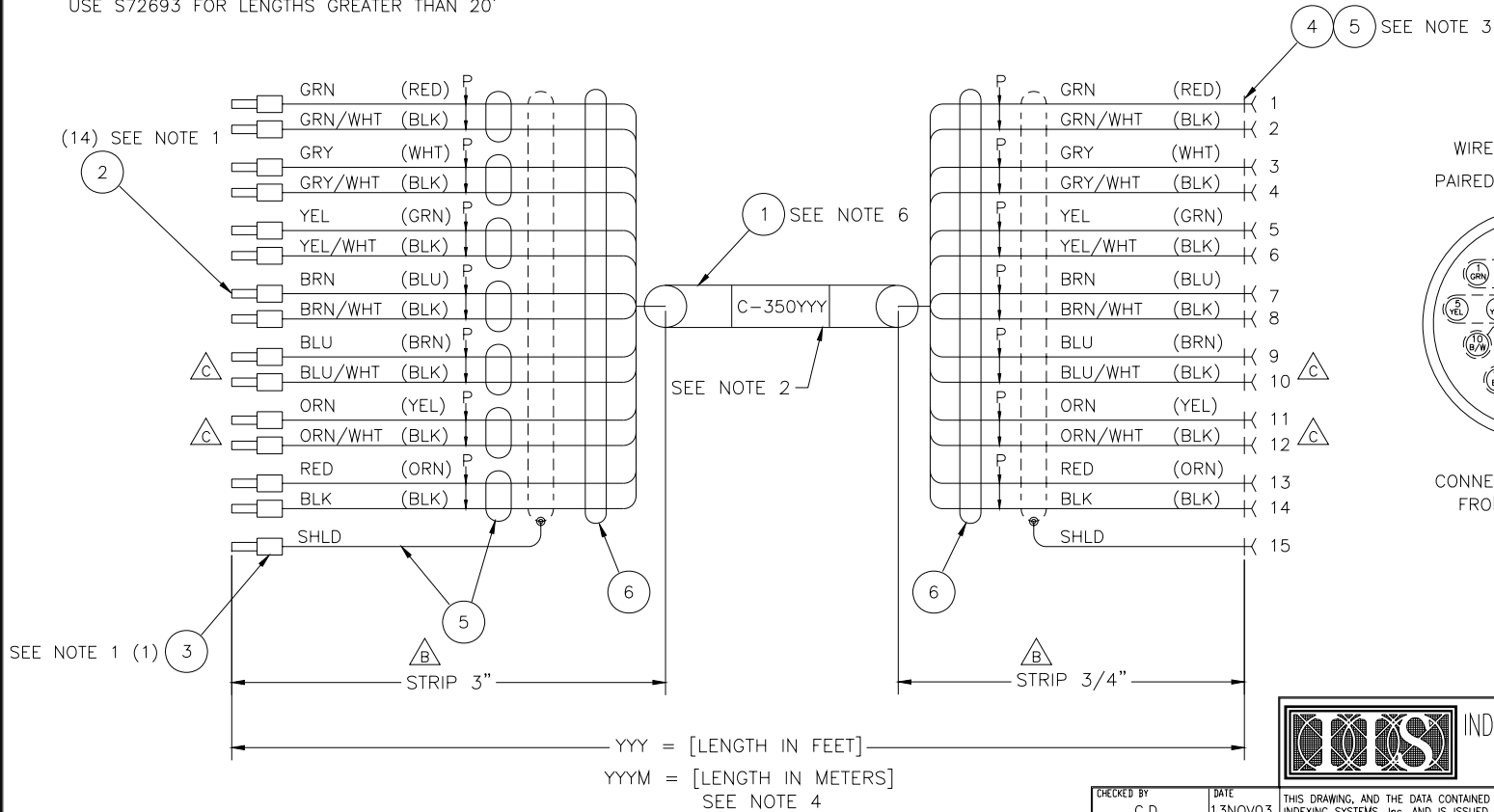
www.iis-servo.com

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APPROVED BY	DATE	TITLE	
APPROVED BY	DATE	CABLE, DINT-350 TO DRIVE	
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (mm)	DRAWN BY BAIER	DRAWING NUMBER
FINISH	TOLERANCES	AWG/CAD FILE LOCATION O:\CURRENT DWGS	C-338YYY
	X.X± ---	DATE	SHEET NO.
	X.XX± ---	28MAY98	1 OF 1
	X.XXX± ---	SCALE	REVISION
			A

DATE	SYM	REVISION RECORD	DR	CK	CK
14MAY04	C	PER ECN 04-192	CWB		

NOTES:

1. INSTALL ITEM 2 & 3 USING WEIDMULLER CRIMP TOOL PZ4 OR EQUIV.
2. MARK PER QP-08-0001.
3. HEAT SHRINK (ITEM 5) OVER SOLDER JOINTS, 15 PLACES.
4. USE FACTORY CABLES FOR LENGTHS OF 3 METER AND 6 METER, USE S72693 FOR LENGTHS GREATER THAN 20'
5. THERE IS A POTENTIAL FOR SIGNAL DEGRADATION WHEN CABLE LENGTH EXCEEDS 20 FEET, CONSULT FACTORY WHERE APPLICABLE.
6. COLORS IN () INDICATE ALTERNATE CABLE COLORS.



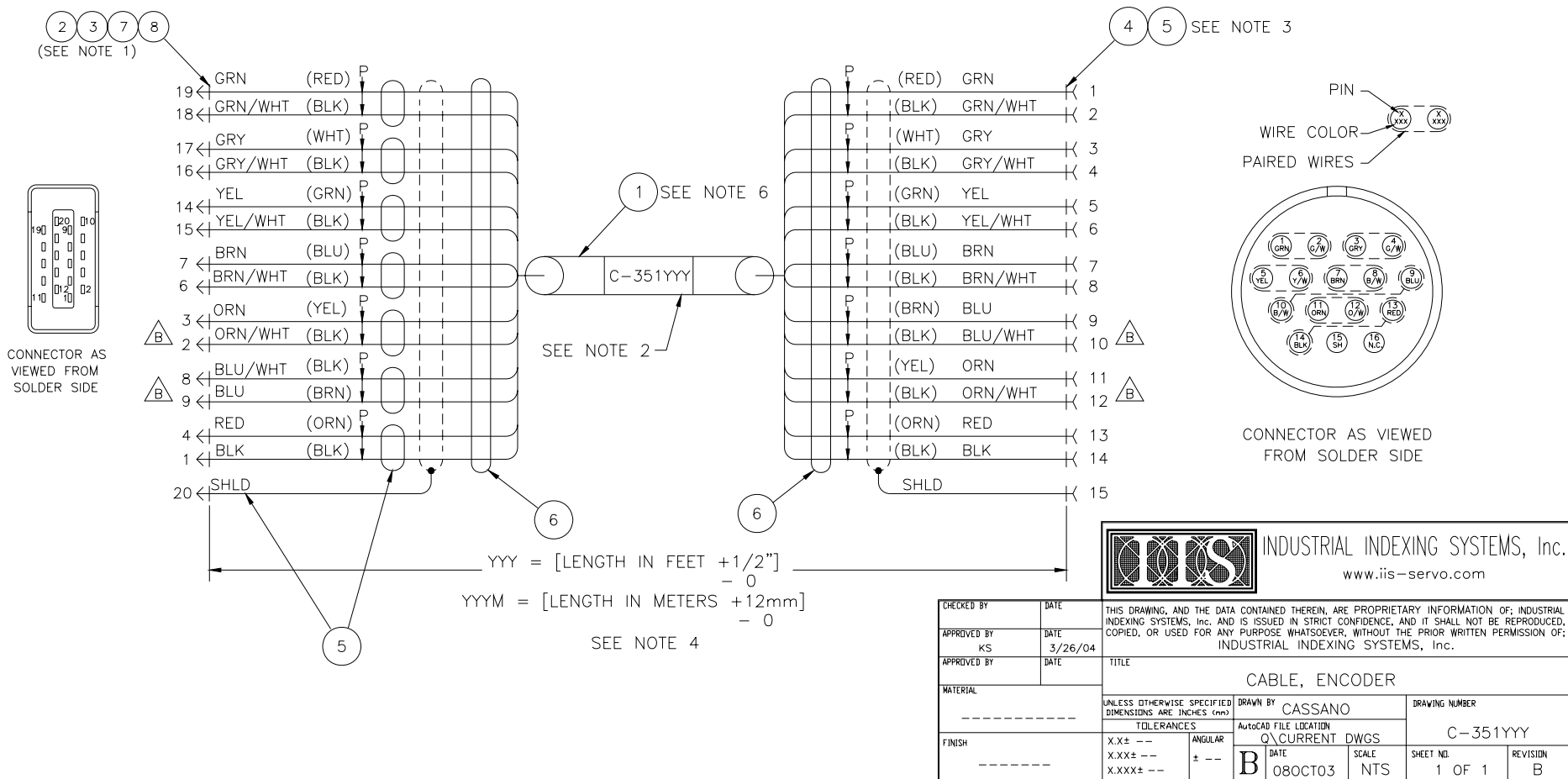
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 www.iis-servo.com

CHECKED BY C.D.	DATE 13NOV03	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF; INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF; INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY	DATE	TITLE CABLE, ENCODER			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY CASSANO	DRAWING NUMBER C-350YYY		
FINISH	TOLERANCES	AutoCAD FILE LOCATION Q:\CURRENT DWGS	DATE 08OCT03	SCALE	SHEET NO. 1 OF 1
	ANGULAR ±	B	REVISION C		

NOTES:

DATE	SYM	REVISION RECORD	DR	CK	CK
14MAY04	B	PER ECN 04-192	JBC		

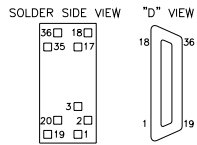
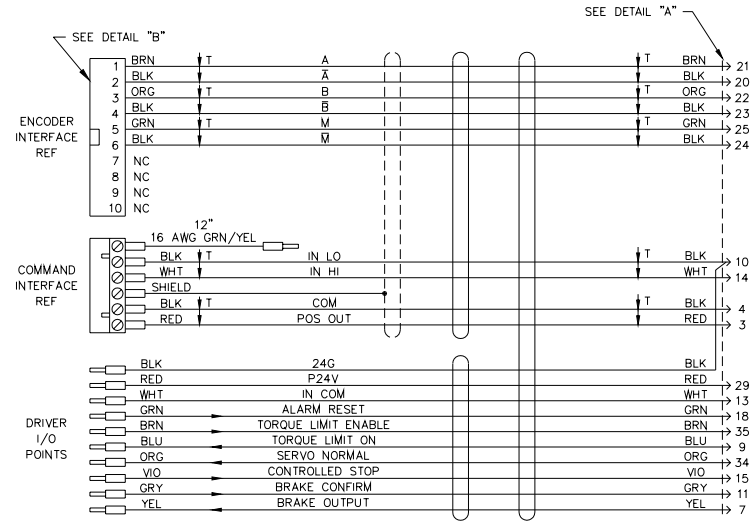
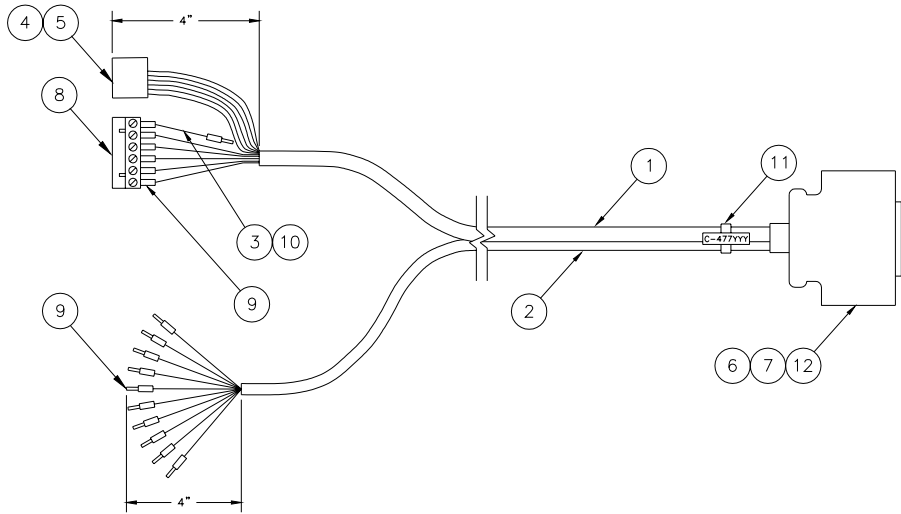
- HEAT SHRINK TUBING [ITEM 7] OVER SOLDER JOINTS.
- MARK PER QP-08-0001.
- HEAT SHRINK (ITEM 5) OVER SOLDER JOINTS, 15 PLACES.
- USE FACTORY CABLES FOR LENGTHS OF 3 METER AND 6 METER, USE S72693 FOR LENGTHS GREATER THAN 20'
- THERE IS A POTENTIAL FOR SIGNAL DEGRADATION WHEN CABLE LENGTH EXCEEDS 20 FEET, CONSULT FACTORY WHERE APPLICABLE.
- COLORS IN () INDICATE ALTERNATE CABLE COLORS.



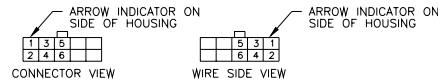
DATE	SYM	REVISION RECORD	DR	CK	CK
31JUL96	0	PER ECN 96-119	CWB	ELS	CDR

NOTES

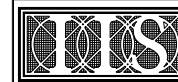
- 1) USE AMP CRIMP TOOL 90277-1 OR EQUIV FOR INSTALLATION OF ITEM 5.
- 2) ALTERNATE CONSTRUCTION: STRIP AND TIN .25".
- 3) CRIMP FERRULES USING WEIDMULLER CRIMP TOOL PZ-4 OR EQUIVALENT.



DETAIL A




DETAIL B



INDUSTRIAL INDEXING SYSTEMS, Inc.

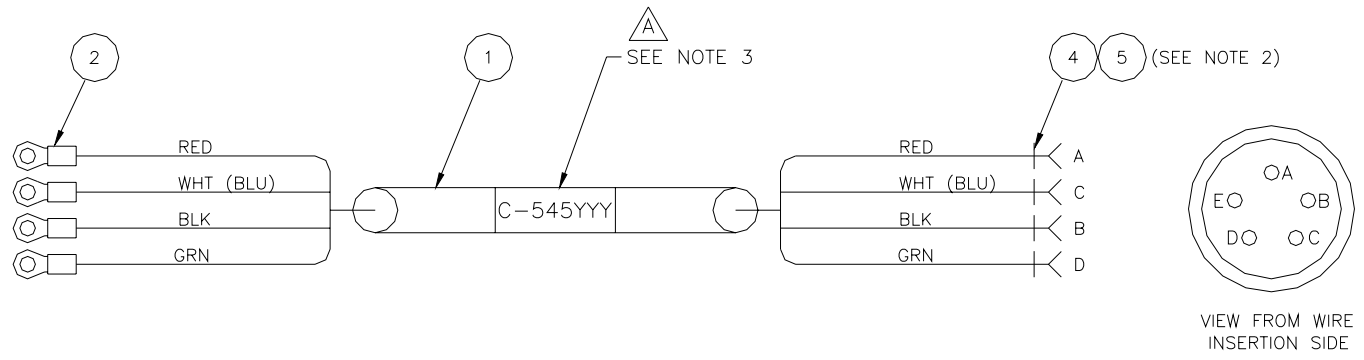
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APPROVED BY ELS	DATE 8/1/96	INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY	DATE	TITLE CABLE, COMMAND			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER C-477YYY		
FINISH	TOLERANCES X.X± --- X.XX± --- X.XXX± ---	ANGULAR ± ---	AutoCAD FILE LOCATION Q:\CURRENT DWGS	DATE 31JUL96	SCALE ---
			SHEET NO. 1 OF 1	REVISION 0	

NOTES: 

DATE	SYM	REVISION RECORD	DR	CK	CK
05FEB03	A	PER ECN 03-075	CWB		

1. INSTALL ITEM 2 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
2. HEAT SHRINK TUBING (ITEM 5) OVER SOLDER JOINT 4 PLACES.
3. MARK PER QP-08-0001.



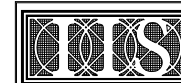
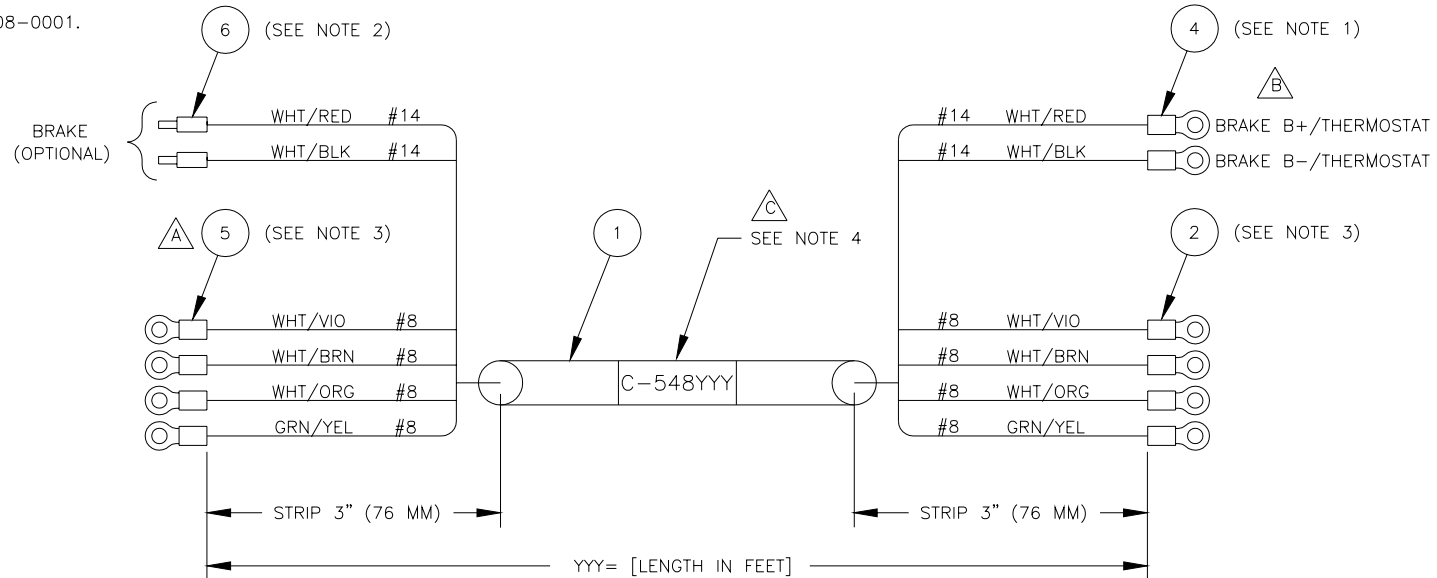

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APPROVED BY	DATE				
APPROVED BY	DATE	TITLE			
		CABLE, MOTOR			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
-----	TOLERANCES	BOWMAN	C-545YYY		
FINISH	X.X ± ---	AutocAD FILE LOCATION			
-----	X.XX ± 0.01	Q:\CURRENT DWGS			
	X.XXX ± 0.005	DATE	SCALE	SHEET NO.	REVISION
		B 24SEP97	---	1 OF 1	A

DATE	SYM	REVISION RECORD	DR	CK	CK
18AUG97	C	PER ECN 00-246	CWB	EB	CDR

NOTES:

1. INSTALL ITEM 4 USING WEIDMULLER CRIMP TOOL CT-550 OR EQUIVALENT.
2. INSTALL ITEM 6 USING WEIDMULLER CRIMP TOOL PZ-4 OR EQUIVALENT.
3. INSTALL ITEMS 2 AND 5 USING PANDUIT CRIMP TOOL CT-720 OR EQUIVALENT.
4. MARK PER QP-08-0001.



INDUSTRIAL INDEXING SYSTEMS, Inc.

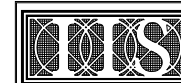
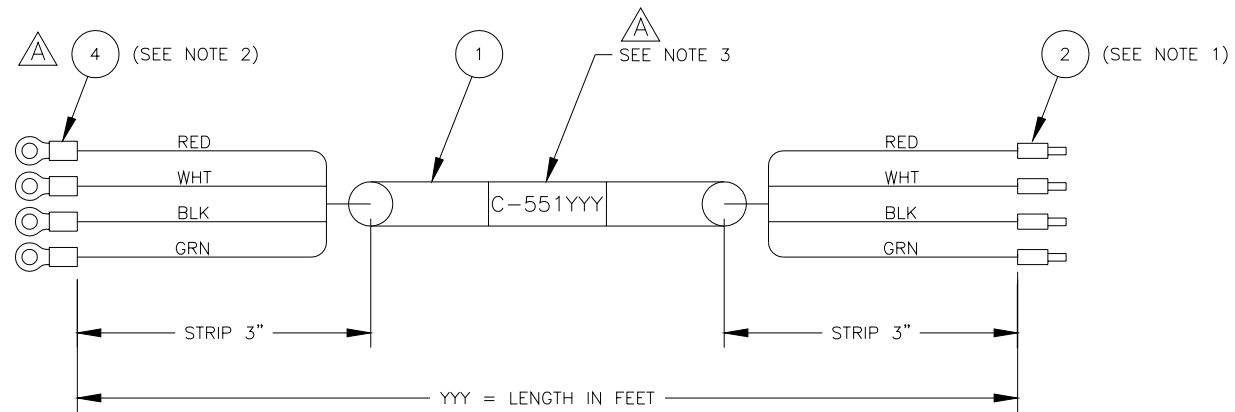
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CHECKED BY 10/30/97 E. BAIER	DATE E. BAIER	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE. AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY 12/20/97 E. BAIER	DATE E. BAIER	TITLE CABLE, MOTOR			
MATERIAL -----	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER C-548YYY		
FINISH -----	TOLERANCES X.X± --- X.XX± 0.01 X.XXX± 0.005	ANGULAR ± ---	AutoCAD FILE LOCATION Q:\CURRENT DWGS	DATE 18AUG97	SCALE ---
				SHEET NO. 1 OF 1	REVISION C

DATE	SYM	REVISION RECORD	DR	CK	CK
15FEB99	A	PER ECN 99-019	EB	ELS	CDR

NOTES:

1. INSTALL ITEM 2 USING WEIDMULLER CRIMP TOOL PZ-16 OR EQUIVALENT.
2. INSTALL ITEM 4 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
3. MARK PER QP-08-0001.



INDUSTRIAL INDEXING SYSTEMS, Inc.

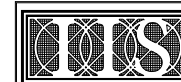
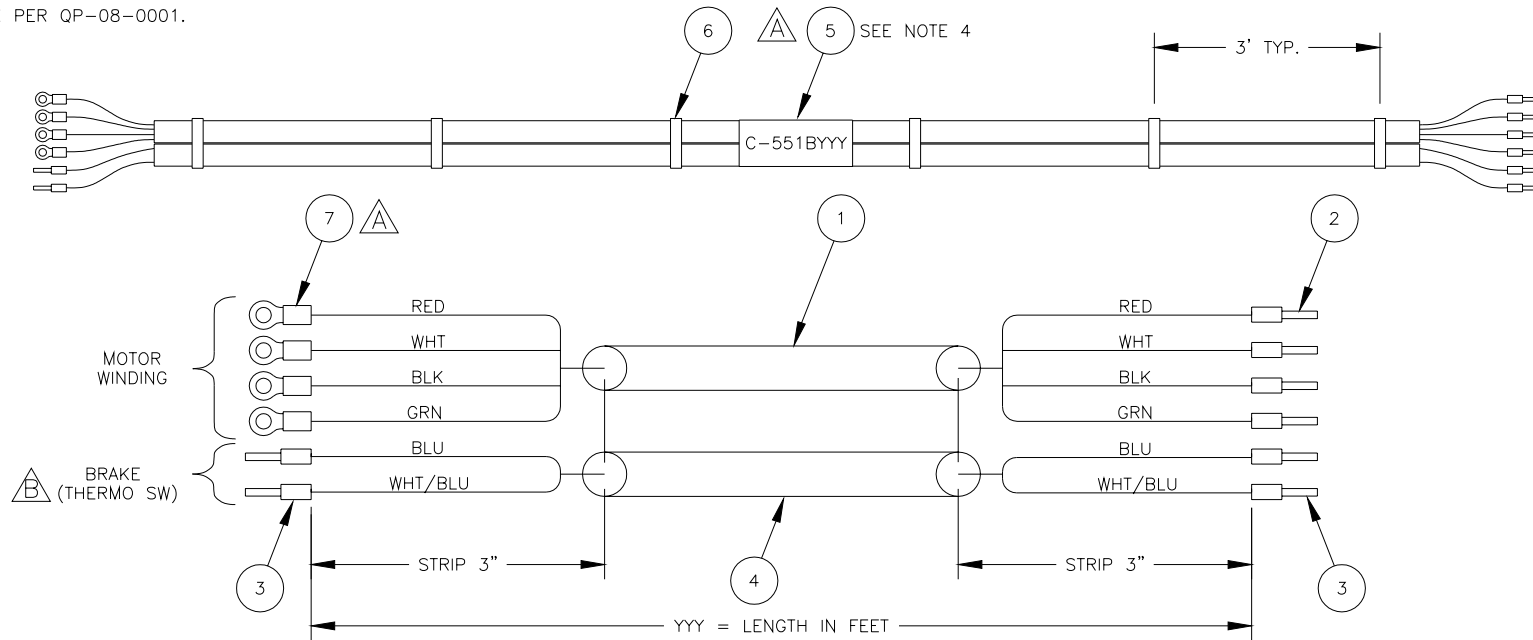
www.iis-servo.com

CHECKED BY E.L.S.	DATE 12JAN98	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE. AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY E.L.S.	DATE 18FEB99	TITLE CABLE, MOTOR			
MATERIAL -----	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm) TOLERANCES	DRAWN BY BOWMAN	DRAWING NUMBER C-551YYY		
FINISH -----	X.X± --- X.XX± 0.01 X.XXX± 0.005	ANGULAR ± ---	AutoCAD FILE LOCATION Q:\CURRENT DWGS	DATE 12JAN98	SCALE ---
				SHEET NO. 1 OF 1	REVISION A

DATE	SYM	REVISION RECORD	DR	CK	CK
21NOV02	B	PER ECN 02-367	CWB		

NOTES:

1. INSTALL ITEM 2 USING WEIDMULLER CRIMP TOOL PZ-16 OR EQUIVALENT.
2. INSTALL ITEM 3 USING WEIDMULLER CRIMP TOOL PZ-4 OR EQUIVALENT.
3. INSTALL ITEM 7 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
4. MARK PER QP-08-0001.



INDUSTRIAL INDEXING SYSTEMS, Inc.

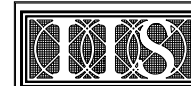
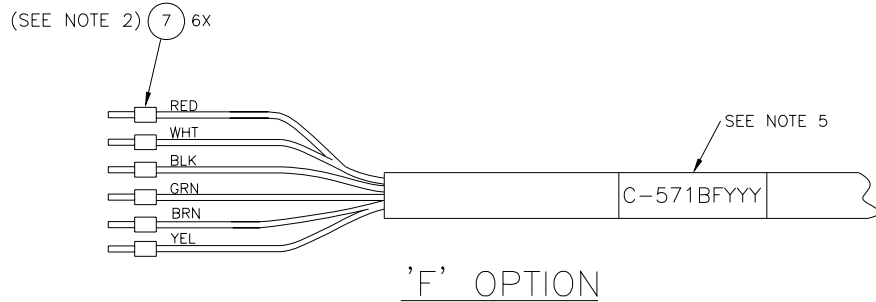
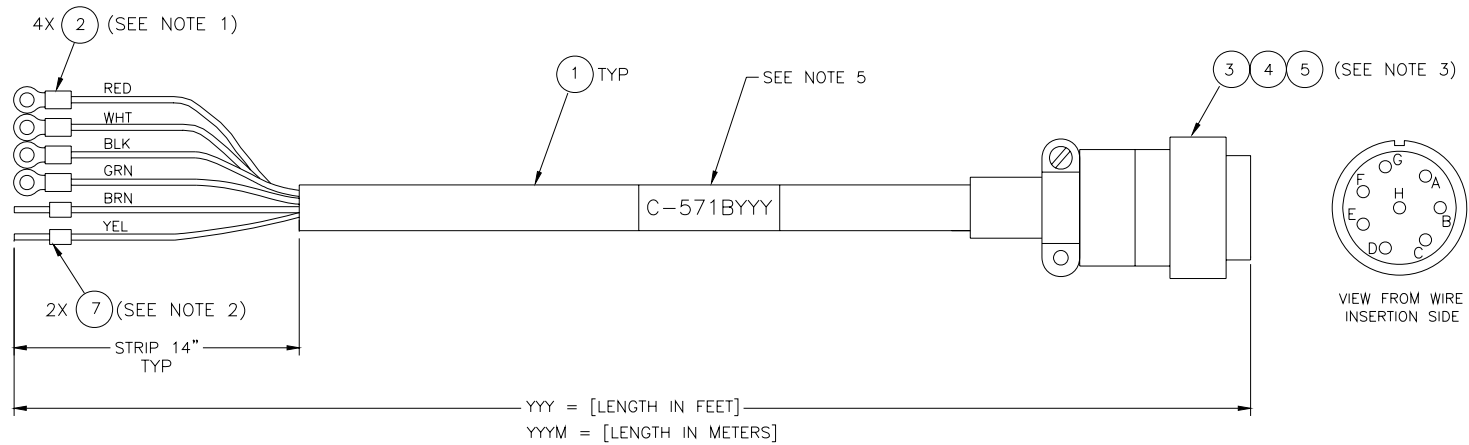
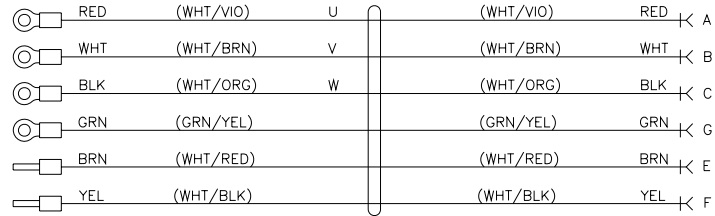
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APPROVED BY	DATE	TITLE CABLE, MOTOR W/BRAKE			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER C-551BYYY		
FINISH	TOLERANCES X.X± --- X.XX± 0.01 X.XXX± 0.005	ANGULAR ± ---	AutoCAD FILE LOCATION Q:\CURRENT DWGS	DATE 12JAN98	SCALE ---
				SHEET NO. 1 OF 1	REVISION B

NOTES:

1. INSTALL ITEM 2 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
2. INSTALL ITEM 6 USING WEIDMULLER CRIMP TOOL PZ16S OR EQUIVALENT.
3. HEAT SHRINK TUBING ITEM 5 OVER SOLDER JOINT 6 PLACES.
4. COLORS IN () INDICATE ALTERNATE CABLE COLORS.
5. MARK PER QP-08-0001.

DATE	SYM	REVISION RECORD	DR	CK	CK
24MAR04	A	PER ECN 04-120	CWB		



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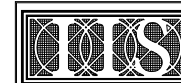
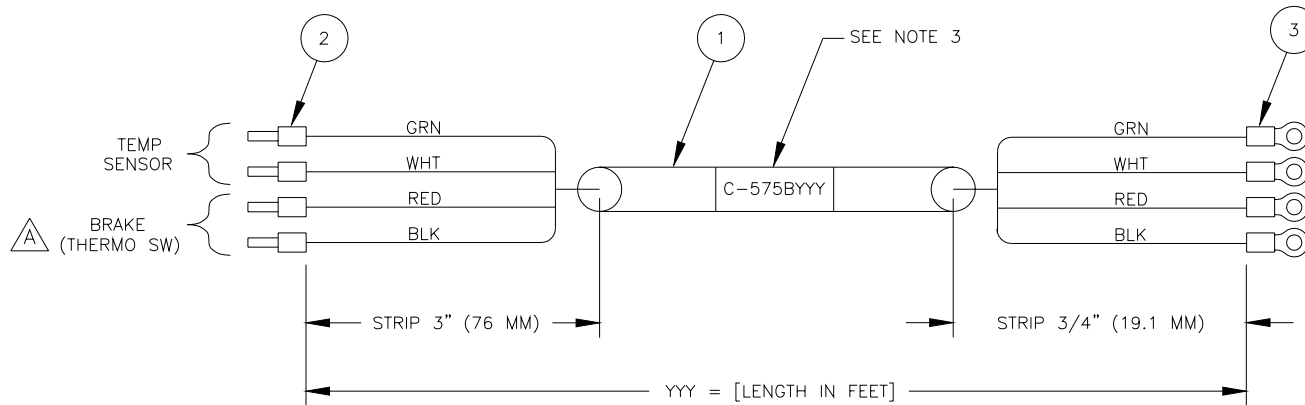
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APPROVED BY	DATE	TITLE			
APPROVED BY	DATE	CABLE, MOTOR			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
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	X.XXX± ---	B 03DEC03	---	1 OF 1	A

DATE	SYM	REVISION RECORD	DR	CK	CK
21NOV02	A	PER ECN 02-367	CWB		

NOTES:

1. INSTALL ITEM 3 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
2. INSTALL ITEM 2 USING WEIDMULLER CRIMP TOOL PZ-4 OR EQUIVALENT.
3. MARK PER QP-08-0001.



INDUSTRIAL INDEXING SYSTEMS, Inc.

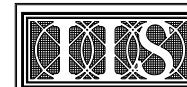
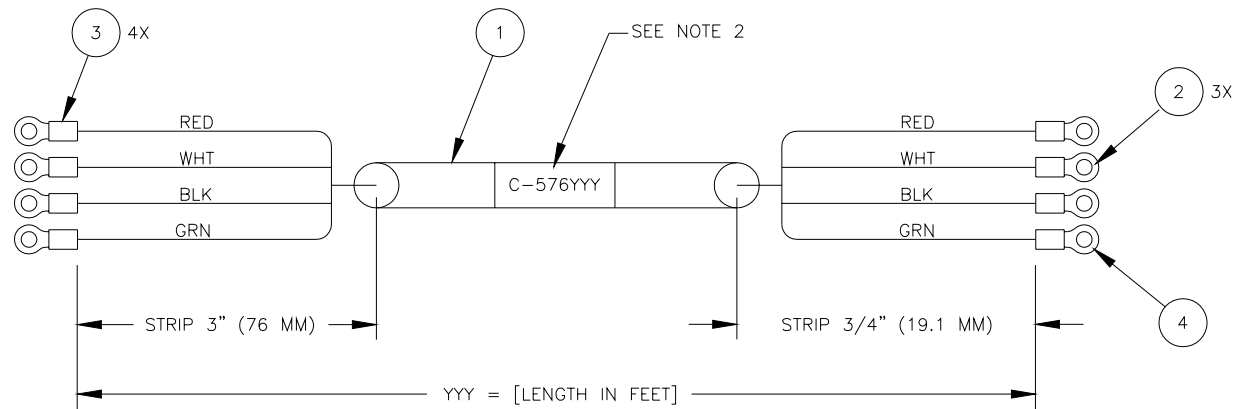
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APPROVED BY	DATE				
APPROVED BY	DATE	TITLE			
		CABLE, BRAKE			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
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FINISH	X.X± ---	AutoCAD FILE LOCATION			
-----	X.XX± 0.01	Q:\CURRENT DWGS			
	X.XXX± 0.005	DATE	SCALE	SHEET NO.	REVISION
		B 18JUN99	---	1 OF 1	A

NOTES:

1. INSTALL ITEMS 2 - 4 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
2. MARK PER QP-08-0001.

DATE	SYM	REVISION RECORD	DR	CK	CK
18JUN99	0	PER ECN 99-199	CWB		



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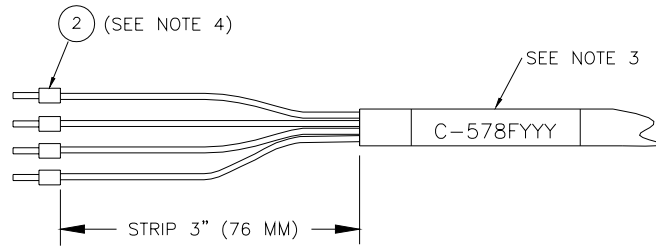
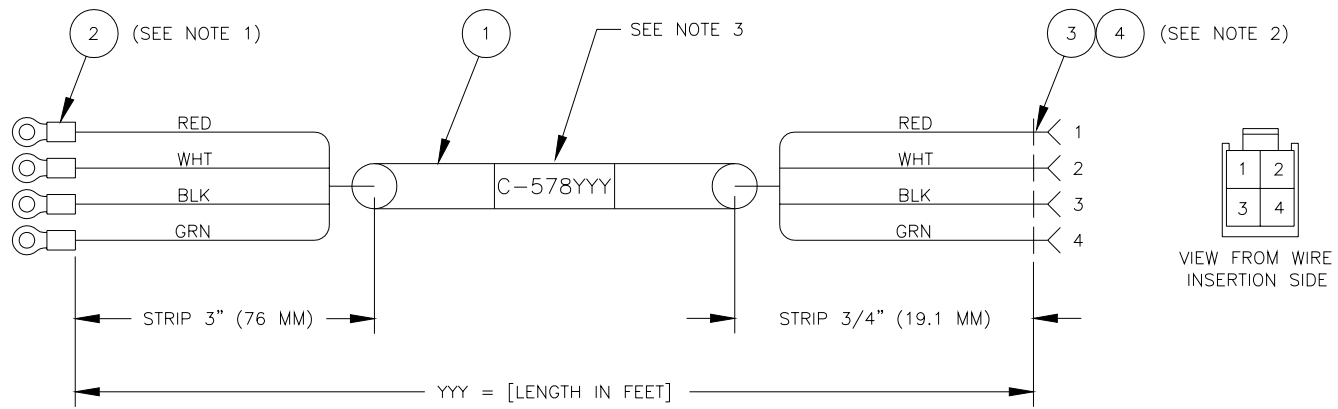
CHECKED BY	DATE	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY	DATE				
APPROVED BY	DATE	TITLE			
		CABLE, MOTOR			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
-----		BOWMAN	C-576YYY		
	TOLERANCES	AutocAD FILE LOCATION			
	X.X± --	Q\CURRENT DWGS			
FINISH	X.XX± --	DATE	SCALE	SHEET NO.	REVISION
-----	X.XXX± --	18JUN99	NTS	1 OF 1	0

NOTES: **A**

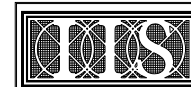
- 1.) INSTALL ITEM 2 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
- 2.) CRIMP ITEM 3 USING JST CRIMP TOOL YC-530.
- 3.) MARK PER QP-08-001.
- 4.) INSTALL ITEM 2 USING WEIDMULLER CRIMP TOOL PZ-4 OR EQUIVALENT.

B

DATE	SYM	REVISION RECORD	DR	CK	CK
30MAY03	B	PER ECN 03-248	EB	CD	CDR



'F' OPTION **B**



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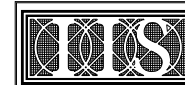
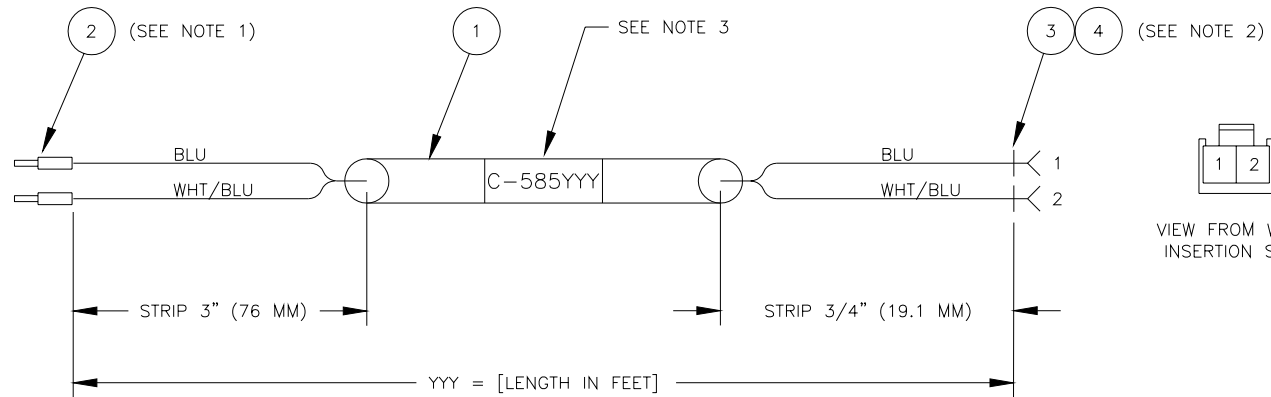
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CHECKED BY T.O'BRIEN	DATE 2/23/00	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY	DATE	TITLE CABLE, MOTOR			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER C-578YYY		
FINISH	TOLERANCES X.X± --- X.XX± 0.01 X.XXX± 0.005	ANGULAR ± ---	AutoCAD FILE LOCATION Q:\CURRENT DWGS	DATE 15FEB00	SCALE ---
			SHEET NO. 1 OF 1	REVISION B	

NOTES: 

- 1.) INSTALL FERRULE (ITEM 2) USING WEIDMULLER CRIMP TOOL PZ-4 OR EQUIVALENT.
- 2.) CRIMP ITEM 3 USING JST CRIMP TOOL YC-530.
- 3.) MARK PER QP-08-001.

DATE	SYM	REVISION RECORD	DR	CK	CK
27DEC00	A	PER ECN 00-430	CWB	CD	CDR



INDUSTRIAL INDEXING SYSTEMS, Inc.

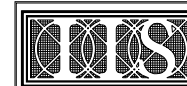
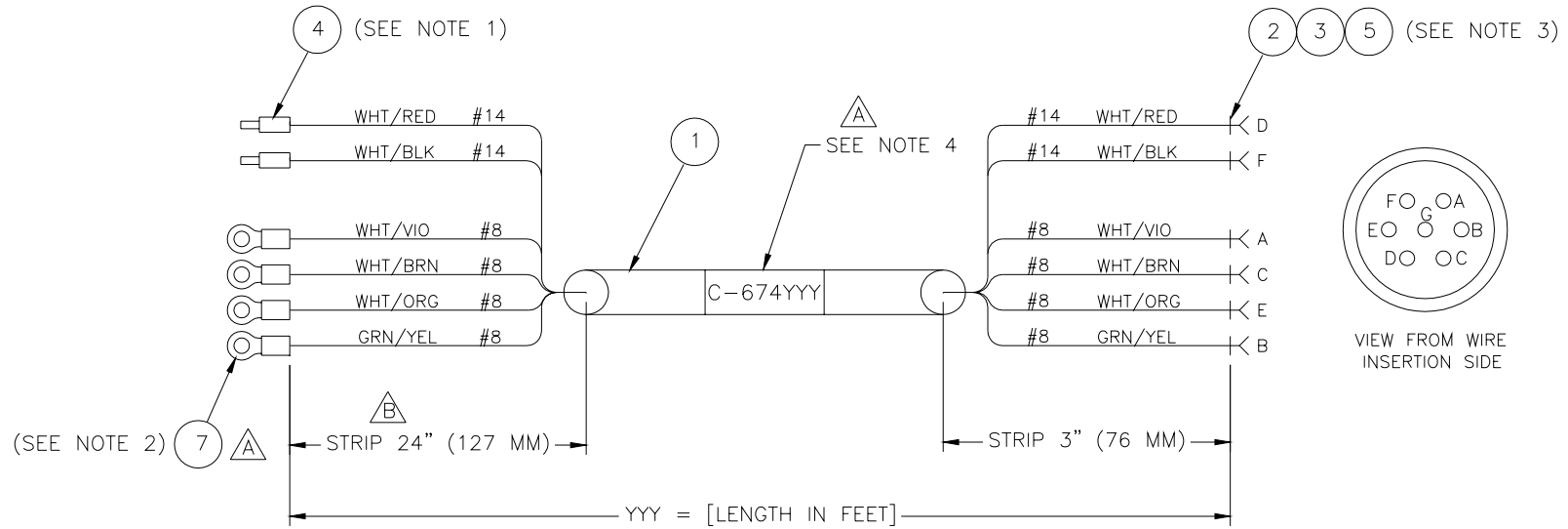
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APPROVED BY	DATE	TITLE			
APPROVED BY	DATE	CABLE, MOTOR			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
-----	TOLERANCES	BAIER	C-585YYY		
FINISH	X.X± ---	AutoCAD FILE LOCATION	DATE		
-----	X.XX± 0.01	Q:\CURRENT DWGS	29NOV00		
	X.XXX± 0.005	DATE	SCALE	SHEET NO.	REVISION
		B	---	1 OF 1	A

DATE	SYM	REVISION RECORD	DR	CK	CK
30SEP04	B	PER ECN 04-404	CWB		

NOTES:

1. INSTALL ITEM 4 USING WEIDMULLER CRIMP TOOL PZ-4 OR EQUIVALENT.
- A** 2. INSTALL ITEM 7 USING WEIDMULLER CRIMP TOOL CT-720 OR EQUIVALENT.
3. HEAT SHRINK TUBING (ITEM 5) OVER SOLDER JOINT.
- A** 4. MARK PER QP-08-0001.



INDUSTRIAL INDEXING SYSTEMS, Inc.

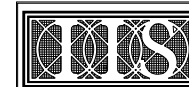
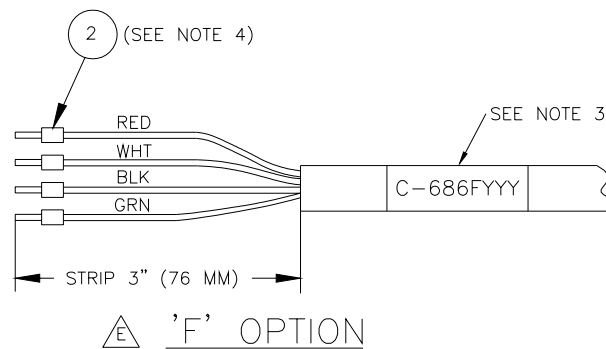
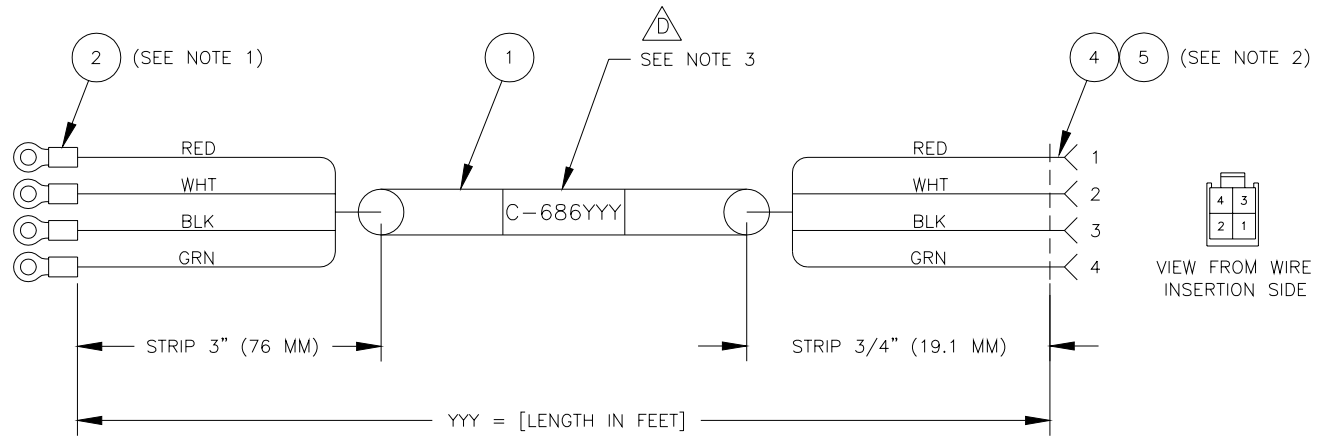
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CHECKED BY WES	DATE 17NOV93	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY	DATE	TITLE CABLE, MOTOR			
APPROVED BY ELS	DATE 15FEB99	DRAWN BY BAIER		DRAWING NUMBER C-674YYY	
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	AutoCAD FILE LOCATION Q:\CURRENT DWGS		SHEET NO. 1 OF 1	
FINISH	TOLERANCES X.X± --- X.XX± 0.01 X.XXX± 0.005	ANGULAR ± ---	DATE 11NOV93	SCALE ---	REVISION B

DATE	SYM	REVISION RECORD	DR	CK	CK
02DEC03	E	PER ECN 03-462	CWB		

NOTES:

1. INSTALL ITEM 2 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
2. CRIMP WIRE INTO TERMINAL (ITEM 5) USING MOLEX HAND CRIMP TOOL NO. 11-01-0125 OR EQUIVALENT.
3. MARK PER QP-08-0001.
4. 'F' OPTION: INSTALL ITEM 2 USING PANDUIT CRIMP TOOL PZ16S OR EQUIVALENT.



INDUSTRIAL INDEXING SYSTEMS, Inc.

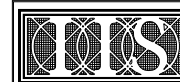
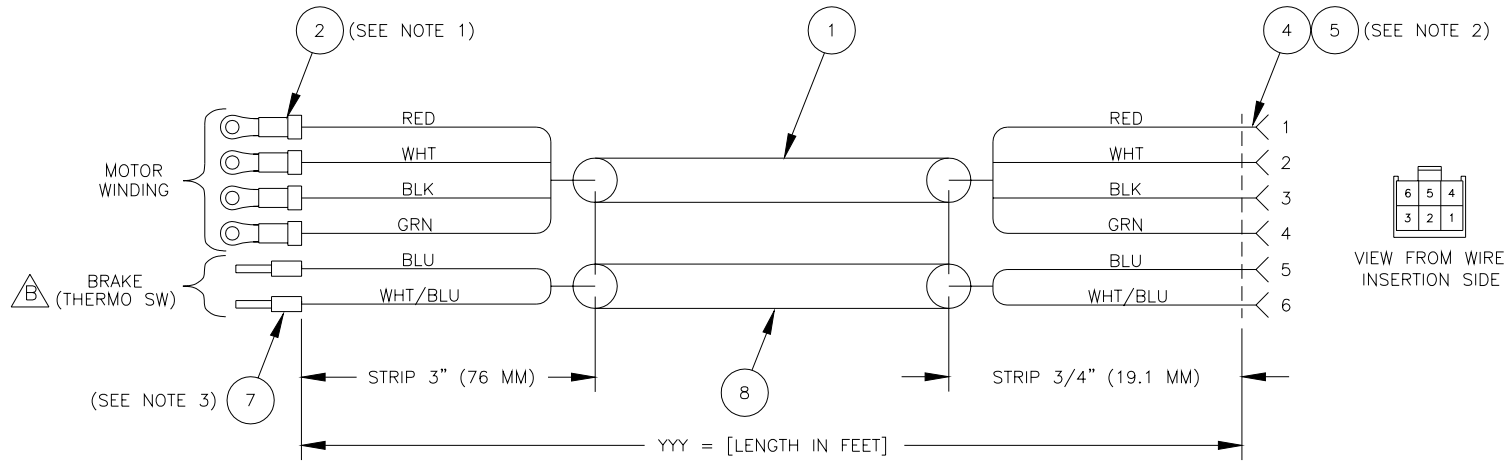
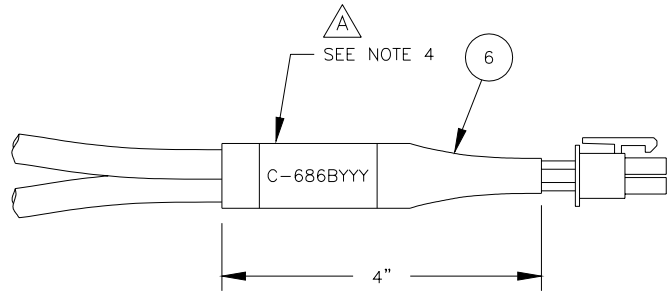
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CHECKED BY E.BAIER	DATE 4/15/96	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY JC	DATE 4/15/96	TITLE CABLE, MOTOR			
APPROVED BY ELS	DATE 7/30/96	DRAWN BY BOWMAN		DRAWING NUMBER C-686YYY	
MATERIAL -----		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
FINISH -----		TOLERANCES X.X± --- X.XX± 0.01 X.XXX± 0.005		SCALE ---	
		ANGULAR ± ---		SHEET NO. 1 OF 1	
		DATE 08FEB96		REVISION E	

DATE	SYM	REVISION RECORD	DR	CK	CK
21NOV02	B	PER ECN 02-367	CWB		

NOTES:

1. INSTALL ITEM 2 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
2. CRIMP WIRE INTO TERMINAL (ITEM 4) USING MOLEX HAND CRIMP TOOL NO. 11-01-0125 OR EQUIVALENT.
3. INSTALL ITEM 7 USING WEIDMULLER CRIMP TOOL PZ-4, 2 PLACES.
4. MARK PER QP-08-0001.



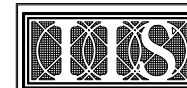
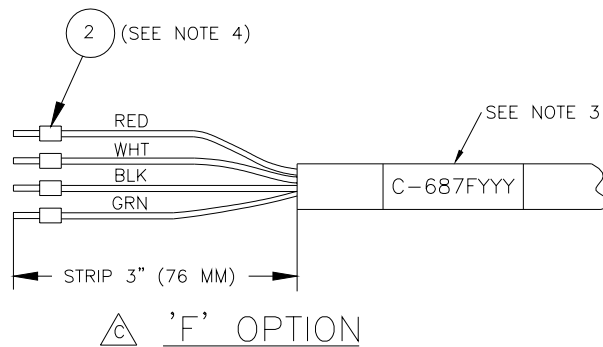
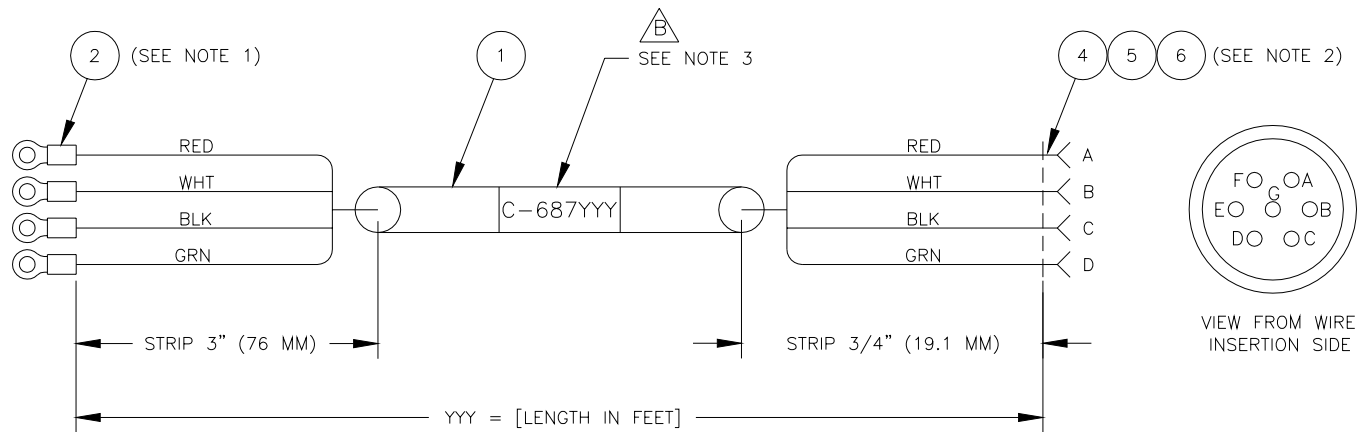
INDUSTRIAL INDEXING SYSTEMS, Inc.
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APPROVED BY ELS	DATE 7/31/98	TITLE CABLE, MOTOR W/BRAKE			
APPROVED BY	DATE	DRAWN BY BOWMAN		DRAWING NUMBER C-686BYYY	
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		AutoCAD FILE LOCATION Q:\CURRENT DWGS		
FINISH	X.X± --- X.XX± 0.01 X.XXX± 0.005	ANGULAR ± ---	DATE 09MAY96	SCALE ---	SHEET NO. 1 OF 1
					REVISION B

DATE	SYM	REVISION RECORD	DR	CK	CK
02DEC03	C	PER ECN 03-462	CWB		

NOTES:

- INSTALL ITEM 2 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
- HEAT SHRINK TUBING (ITEM 5) OVER SOLDER JOINT 4 PLACES.
- MARK PER QP-08-0001.
- 'F' OPTION: INSTALL ITEM 2 USING PANDUIT CRIMP TOOL PZ16S OR EQUIVALENT.




INDUSTRIAL INDEXING SYSTEMS, Inc.

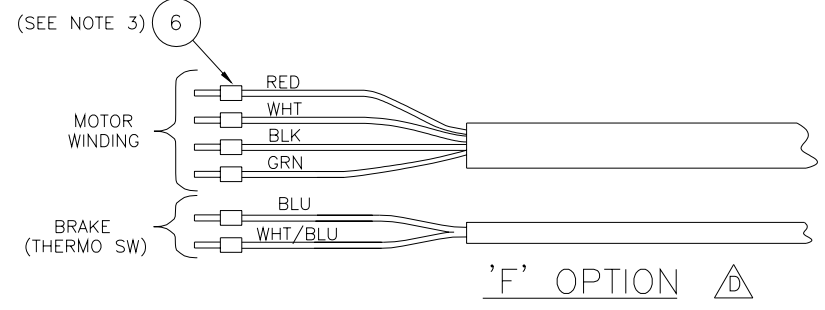
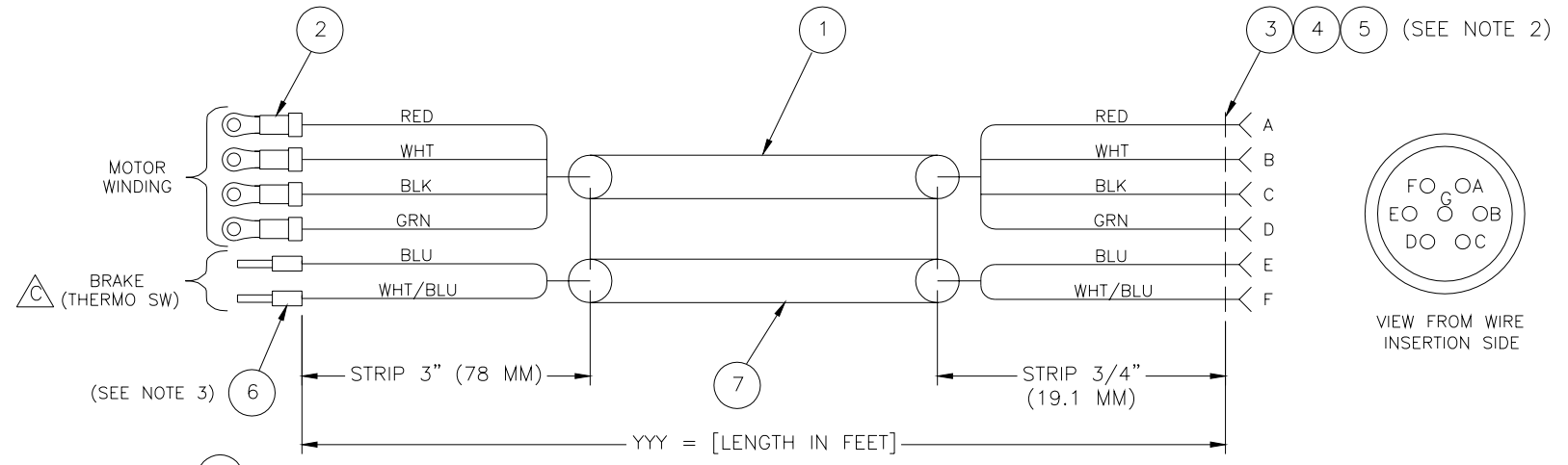
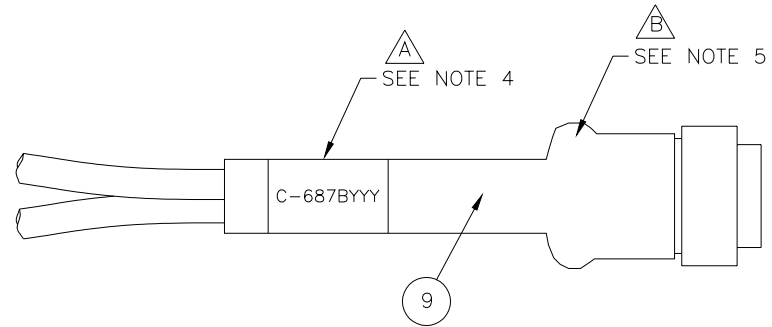
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APPROVED BY ELS	DATE 26APR96	INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY ELS	DATE 30JUL96	TITLE CABLE, MOTOR			
MATERIAL -----	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER		
FINISH -----	TOLERANCES X.X± --- X.XX± 0.01 X.XXX± 0.005	ANGULAR ± ---	AutoCAD FILE LOCATION Q:\CURRENT DWGS	C-687YYY	
		DATE 26APR96	SCALE ---	SHEET NO. 1 OF 1	REVISION C

DATE	SYM	REVISION RECORD	DR	CK	CK
27MAR03	D	PER ECN 03-152	EB		

NOTES: 

1. INSTALL ITEM 2 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
2. HEAT SHRINK TUBING (ITEM 5) OVER SOLDER JOINT 6 PLACES.
3. INSTALL ITEM 6 USING WEIDMULLER CRIMP TOOL PZ-4 OR EQUIVALENT.
4. MARK PER QP-08-0001.
5. INSTALL 1" HEATSHRINK OVER CABLE AND BACKSHELL. REPLACE CONNECTOR SCREWS WITH HS0608MPP (6/32 X 1/2").



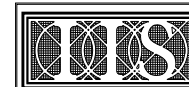
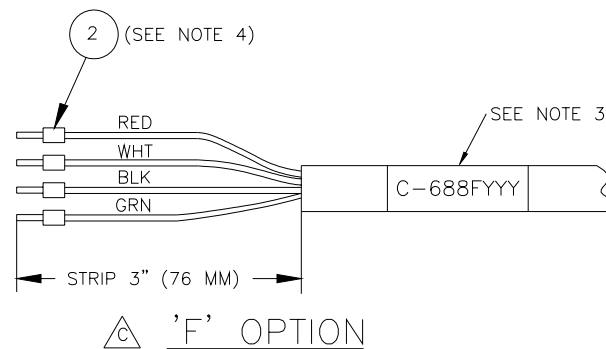
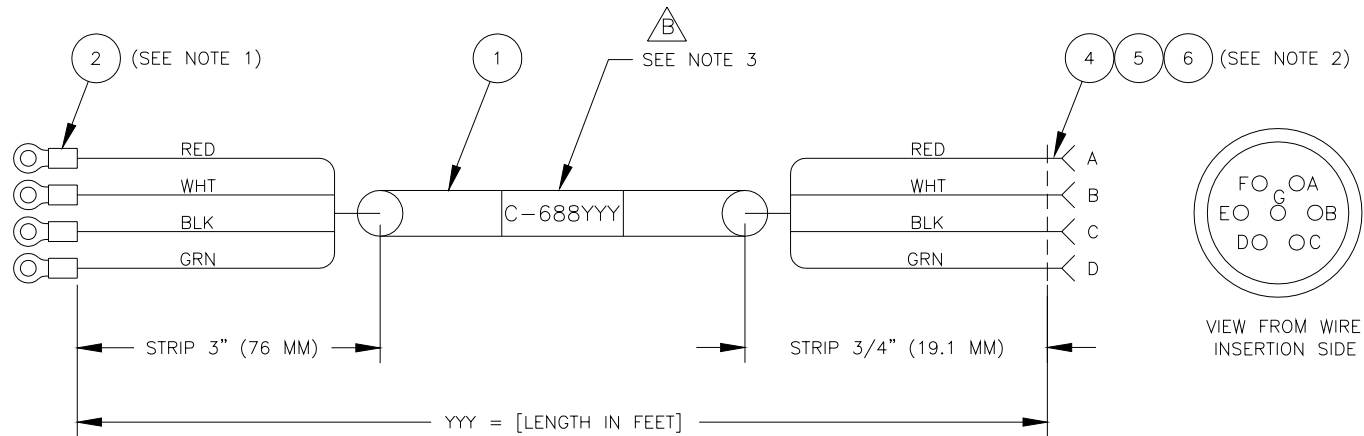

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CHECKED BY	DATE	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY	DATE	TITLE			
ELS	7/31/96	CABLE, MOTOR W/BRAKE			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
-----	TOLERANCES	BOWMAN	C-687BYYY		
FINISH	X.X± ---	AutocAD FILE LOCATION	SCALE		
-----	X.XX± 0.01	Q:\CURRENT DWGS	SHEET NO.		
	X.XXX± 0.005	B	DATE	25JUL00	1 OF 1
			REVISION		D

DATE	SYM	REVISION RECORD	DR	CK	CK
02DEC03	C	PER ECN 03-462	CWB		

NOTES:

1. INSTALL ITEM 2 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
2. HEAT SHRINK TUBING (ITEM 5) OVER SOLDER JOINT 4 PLACES.
3. MARK PER QP-08-0001.
4. 'F' OPTION: INSTALL ITEM 2 USING PANDUIT CRIMP TOOL PZ16S OR EQUIVALENT.



INDUSTRIAL INDEXING SYSTEMS, Inc.

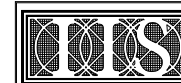
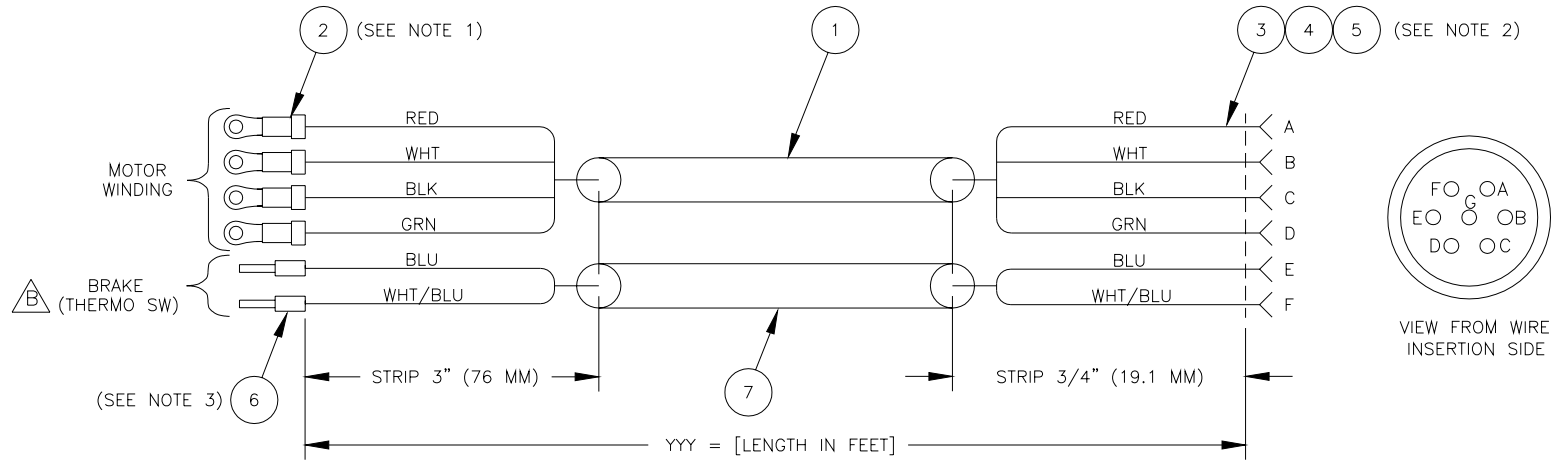
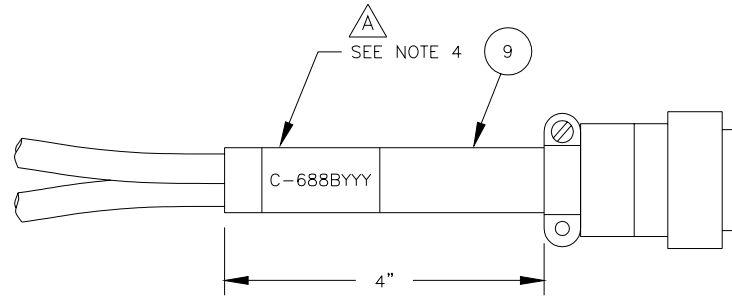
www.iis-servo.com

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APPROVED BY ELS	DATE 26APR96	INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY ELS	DATE 30JUL96	TITLE CABLE, MOTOR			
MATERIAL -----		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER	
FINISH -----		TOLERANCES X.X± --- X.XX± 0.01 X.XXX± 0.005	ANGULAR ± ---	AutoCAD FILE LOCATION Q:\CURRENT DWGS	C-688YYY
		DATE 26APR96	SCALE ---	SHEET NO. 1 OF 1	REVISION C

DATE	SYM	REVISION RECORD	DR	CK	CK
21NOV02	B	PER ECN 02-367	CWB	EB	CDR

NOTES:

1. INSTALL ITEM 2 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
2. HEAT SHRINK TUBING (ITEM 5) OVER SOLDER JOINT 6 PLACES.
3. INSTALL ITEM 6 USING WEIDMULLER CRIMP TOOL PZ-4 OR EQUIVALENT.
4. MARK PER QP-08-0001.



INDUSTRIAL INDEXING SYSTEMS, Inc.

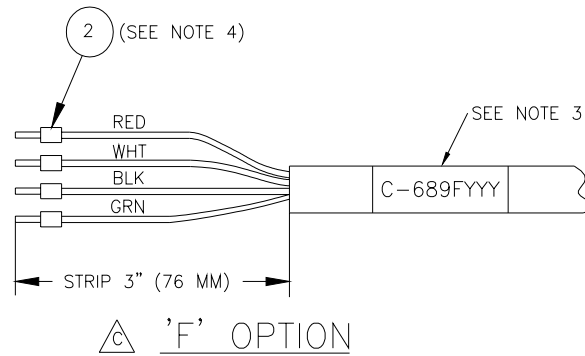
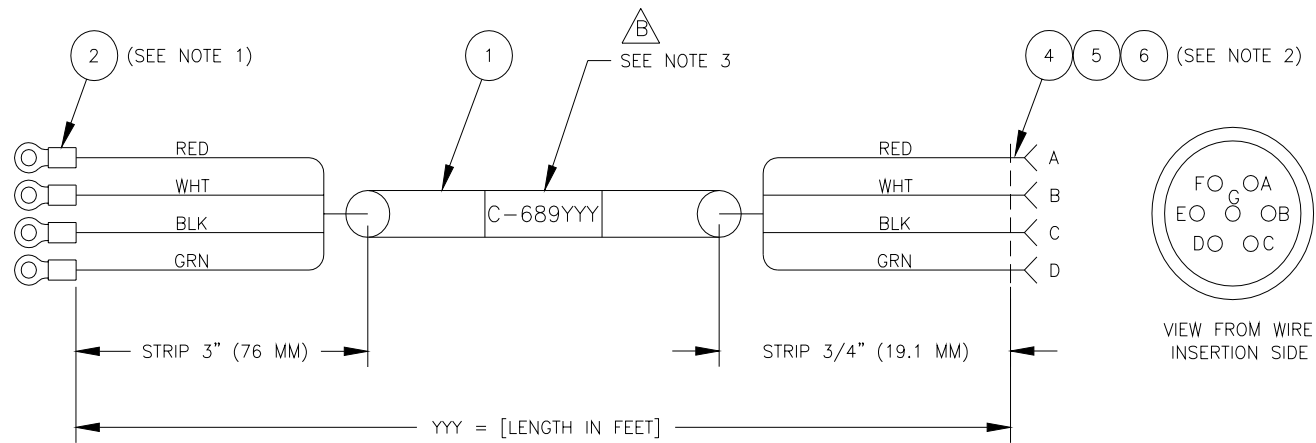
www.iis-servo.com

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APPROVED BY ELS	DATE 7/31/96	TITLE CABLE, MOTOR W/BRAKE			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER C-688BYYY		
FINISH	TOLERANCES X.X± --- X.XX± 0.01 X.XXX± 0.005	ANGULAR ± ---	AutoCAD FILE LOCATION Q:\CURRENT DWGS	DATE 08MAY96	SCALE ---
				SHEET NO. 1 OF 1	REVISION B

DATE	SYM	REVISION RECORD	DR	CK	CK
13JUN03	C	PER ECN 03-268	EB	EB	CDR

NOTES:

1. INSTALL ITEM 2 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
2. HEAT SHRINK TUBING (ITEM 5) OVER SOLDER JOINT 4 PLACES.
3. MARK PER QP-08-0001.
4. 'F' OPTION: INSTALL ITEM 2 USING PANDUIT CRIMP TOOL PZ16S OR EQUIVALENT.



INDUSTRIAL INDEXING SYSTEMS, Inc.

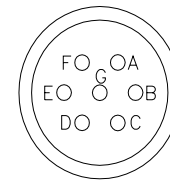
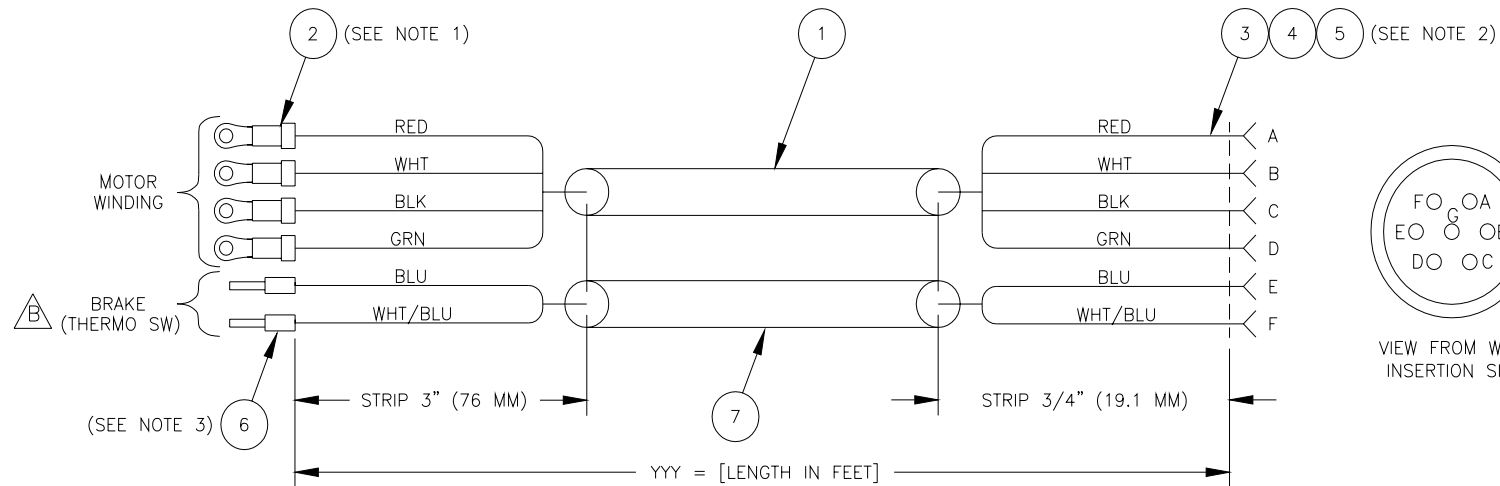
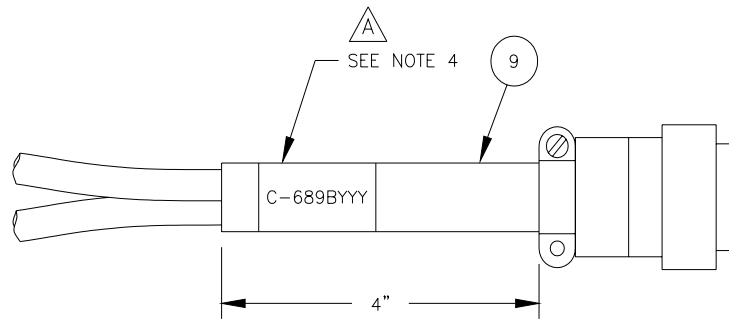
www.iis-servo.com

CHECKED BY E.BAIER	DATE 26APR96	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY ELS	DATE 26APR96	TITLE CABLE, MOTOR			
APPROVED BY ELS	DATE 30JUL96	DRAWN BY BOWMAN		DRAWING NUMBER C-689YYY	
MATERIAL		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		AutocAD FILE LOCATION Q:\CURRENT DWGS	
FINISH		TOLERANCES		DATE 26APR96	SCALE ---
---		X.X± ---	ANGULAR ± ---	B	SHEET NO. 1 OF 1
---		X.XX± 0.01			REVISION C
---		X.XXX± 0.005			

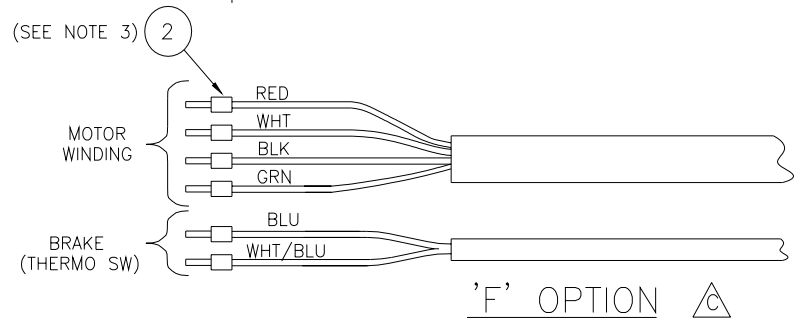
DATE	SYM	REVISION RECORD	DR	CK	CK
13JUN03	C	PER ECN 03-268	EB		

NOTES:

1. INSTALL ITEM 2 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
2. HEAT SHRINK TUBING (ITEM 5) OVER SOLDER JOINT 6 PLACES.
3. INSTALL ITEM 6 USING WEIDMULLER CRIMP TOOL PZ-4 OR EQUIVALENT.
4. MARK PER QP-08-0001.



VIEW FROM WIRE INSERTION SIDE



INDUSTRIAL INDEXING SYSTEMS, Inc.

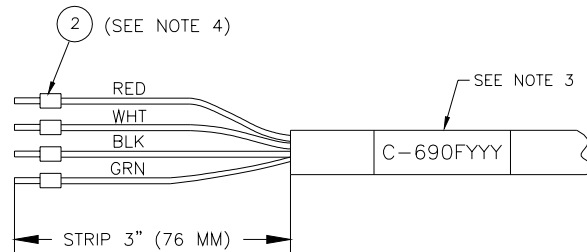
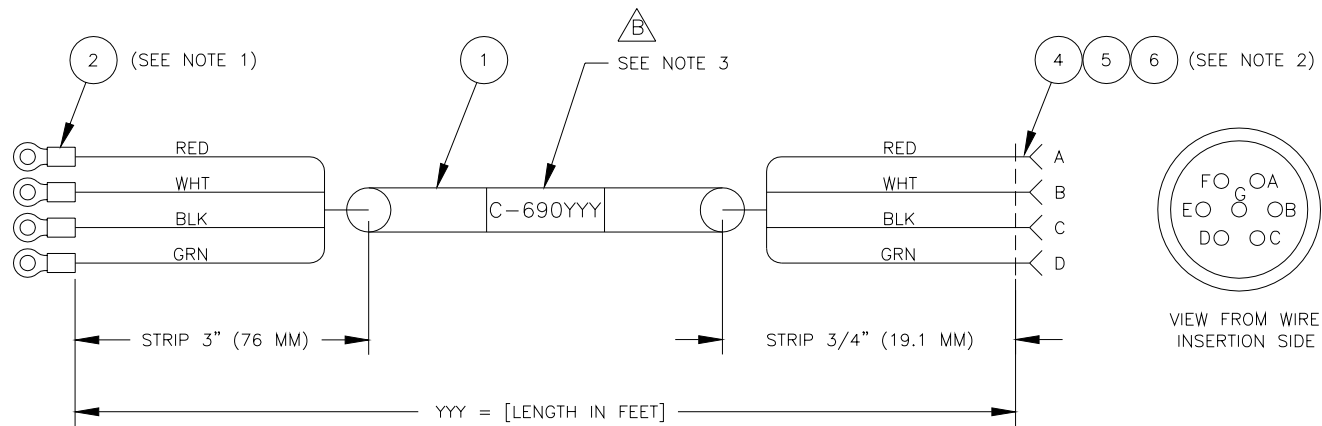
www.iis-servo.com

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APPROVED BY ELS	DATE 7/26/96	TITLE CABLE, MOTOR W/BRAKE			
MATERIAL -----		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER C-689BYYY	
FINISH -----		TOLERANCES X.X± 0.01 X.XX± 0.005	AutocAD FILE LOCATION Q:\CURRENT DWGS	DATE 08MAY96	SCALE ---
		ANGULAR ± ---	DATE 08MAY96	SHEET NO. 1 OF 1	REVISION C

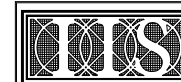
DATE	SYM	REVISION RECORD	DR	CK	CK
31MAY02	C	PER ECN 00-182	EB	EB	CDR

NOTES:

1. INSTALL ITEM 2 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
2. HEAT SHRINK TUBING (ITEM 5) OVER SOLDER JOINT 4 PLACES.
3. MARK PER QP-08-0001.
4. 'F' OPTION: INSTALL ITEM 2 USING PANDUIT CRIMP TOOL PZ16S OR EQUIVALENT.



△ 'F' OPTION



INDUSTRIAL INDEXING SYSTEMS, Inc.

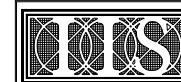
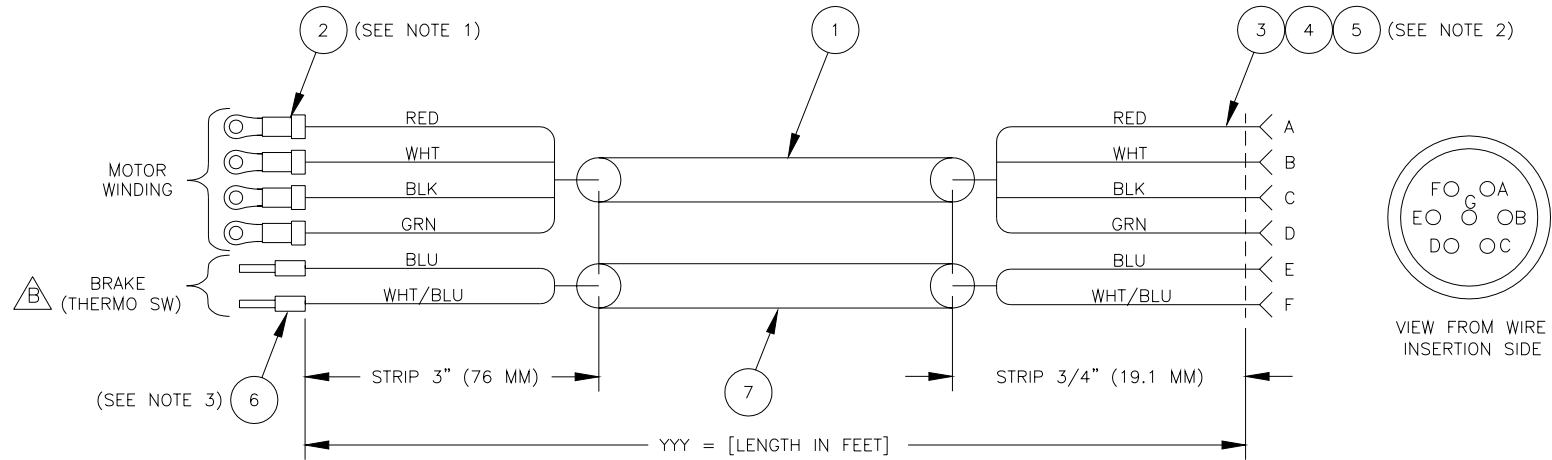
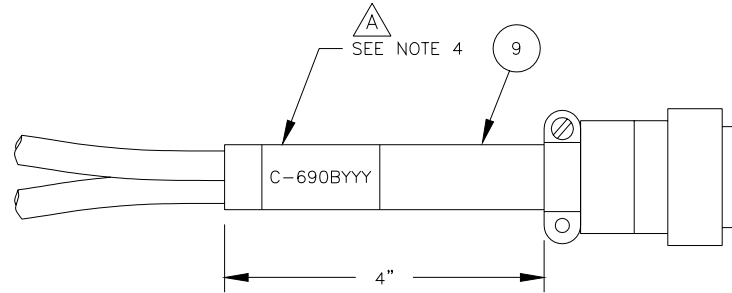
www.iis-servo.com

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APPROVED BY ELS	DATE 26APR96	TITLE CABLE, MOTOR			
APPROVED BY ELS	DATE 30JUL96	DRAWN BY BOWMAN		DRAWING NUMBER C-690YYY	
MATERIAL -----	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	AutoCAD FILE LOCATION Q:\CURRENT DWGS		SHEET NO. 1 OF 1	
FINISH -----	X.X± --- X.XX± 0.01 X.XXX± 0.005	ANGULAR ± ---	DATE 26APR96	SCALE ---	REVISION C

DATE	SYM	REVISION RECORD	DR	CK	CK
21NOV02	B	PER ECN 02-367	CWB		

NOTES:

1. INSTALL ITEM 2 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
2. HEAT SHRINK TUBING (ITEM 5) OVER SOLDER JOINT 6 PLACES.
3. INSTALL ITEM 6 USING WEIDMULLER CRIMP TOOL PZ-4 OR EQUIVALENT.
4. MARK PER QP-08-0001.



INDUSTRIAL INDEXING SYSTEMS, Inc.

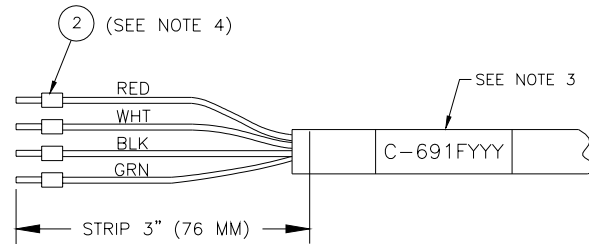
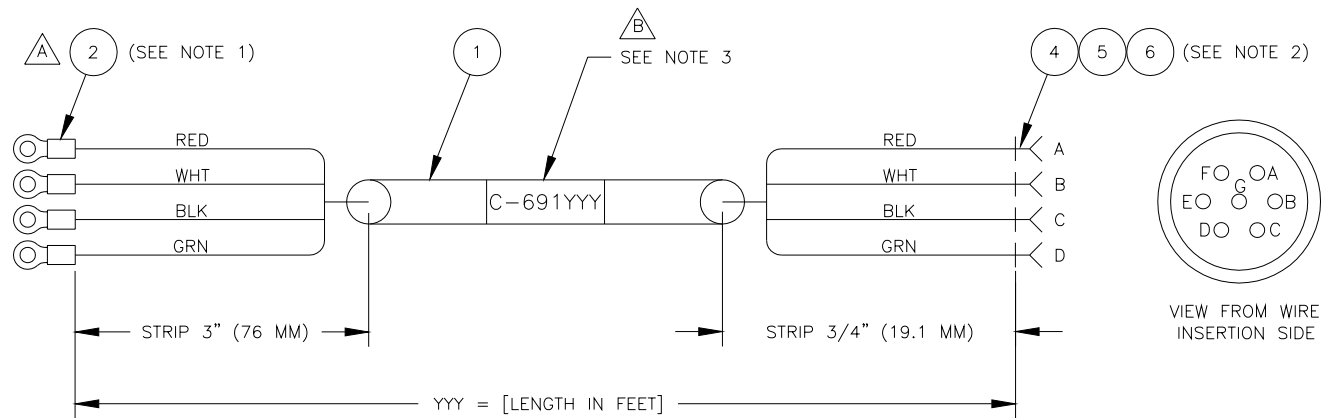
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APPROVED BY ELS	DATE 7/26/96	TITLE CABLE, MOTOR W/BRAKE			
MATERIAL -----	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER C-690BYYY		
FINISH -----	TOLERANCES X.X± --- X.XX± 0.01 X.XXX± 0.005	ANGULAR ± ---	AutoCAD FILE LOCATION Q:\CURRENT DWGS	SCALE ---	SHEET NO. 1 OF 1
		DATE 08MAY96		REVISION B	

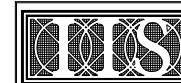
DATE	SYM	REVISION RECORD	DR	CK	CK
31MAY02	C	PER ECN 02-182	EB	EB	CDR

NOTES:

1. INSTALL ITEM 2 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
2. HEAT SHRINK TUBING (ITEM 5) OVER SOLDER JOINT 4 PLACES.
3. MARK PER QP-08-0001.
4. 'F' OPTION: INSTALL ITEM 2 USING PANDUIT CRIMP TOOL PZ16S OR EQUIVALENT.



△ 'F' OPTION



INDUSTRIAL INDEXING SYSTEMS, Inc.

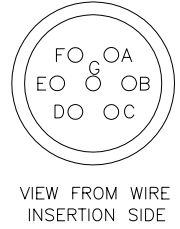
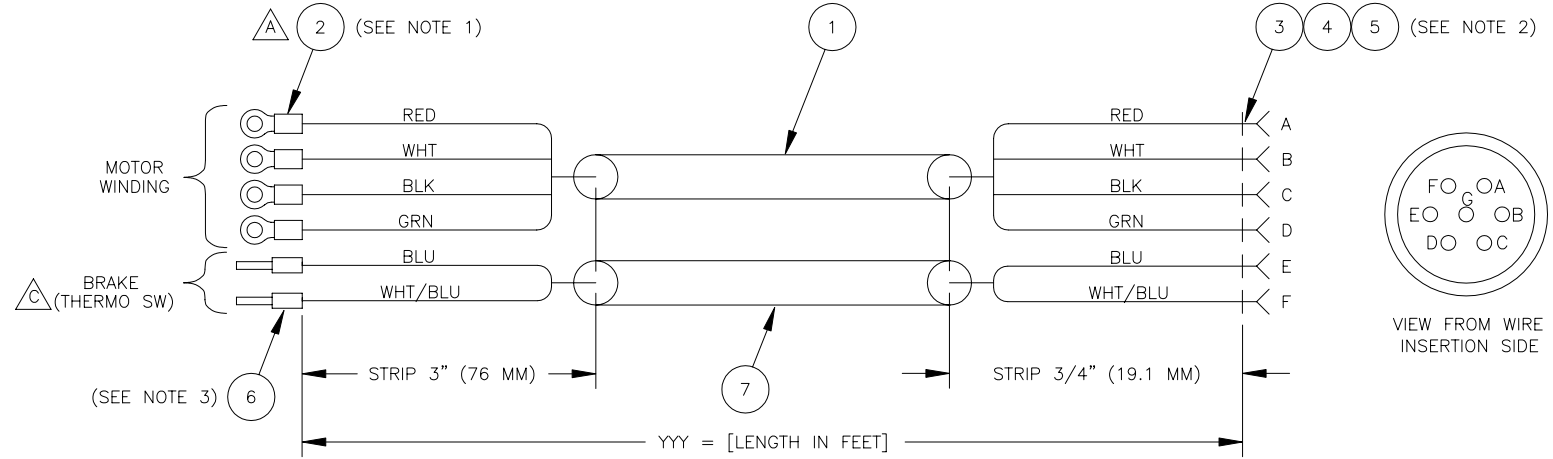
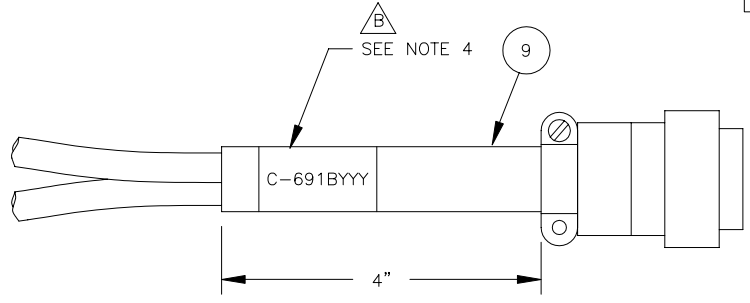
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APPROVED BY	DATE	TITLE					
20FEB98	T.O'BRIEN	CABLE, MOTOR					
APPROVED BY	DATE	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWING NUMBER			
26APR96	ELS	TOLERANCES		C-691YYY			
MATERIAL		DRAWN BY		AutoCAD FILE LOCATION			
-----		BOWMAN		Q:\CURRENT DWGS			
FINISH		X.X± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
-----		X.XX± 0.01	± ---	B 26APR96	---	1 OF 1	C
		X.XXX± 0.005					

DATE	SYM	REVISION RECORD	DR	CK	CK
21NOV02	C	PER ECN 02-367	CWB		

NOTES:

1. INSTALL ITEM 2 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
2. HEAT SHRINK TUBING (ITEM 5) OVER SOLDER JOINT 6 PLACES.
3. INSTALL ITEM 6 USING WEIDMULLER CRIMP TOOL PZ-4 OR EQUIVALENT.
4. MARK PER QP-08-0001.



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www.iis-servo.com

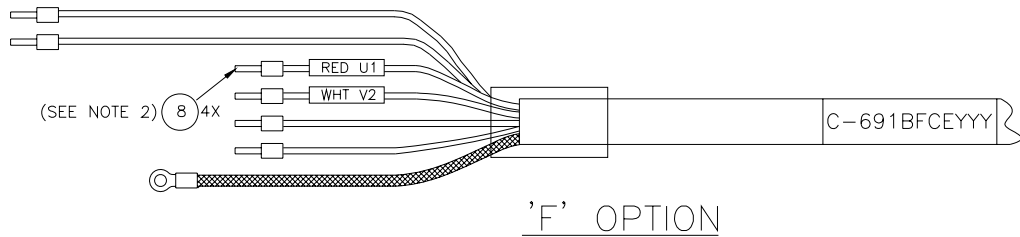
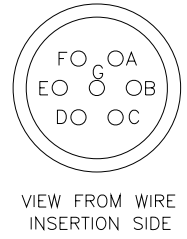
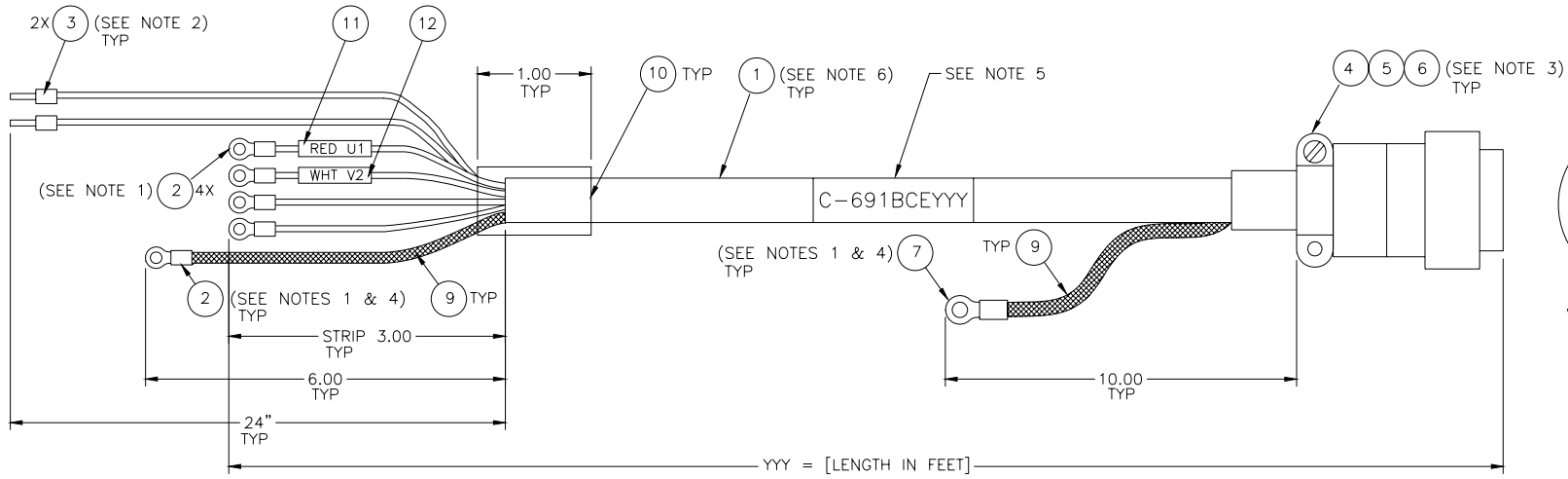
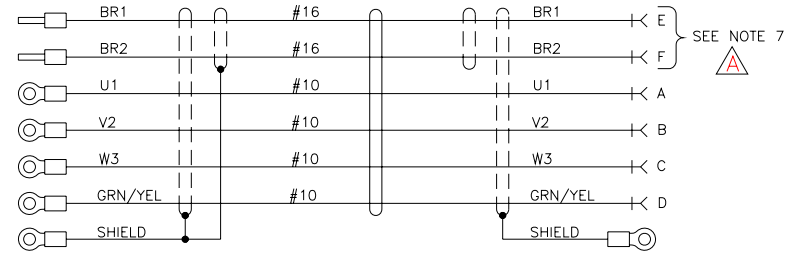
CHECKED BY	DATE	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY	DATE	TITLE			
T.O'BRIEN	2/20/98	CABLE, MOTOR W/BRAKE			
APPROVED BY	DATE	DRAWN BY			
ELS	7/26/96	BOWMAN			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		AutoCAD FILE LOCATION		DRAWING NUMBER
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FINISH	X.X± ---	ANGULAR	DATE	SCALE	SHEET NO.
-----	X.XX± 0.01	± ---	B 08MAY96	---	1 OF 1
	X.XXX± 0.005				REVISION
					C

NOTES:

- INSTALL ITEMS 2 & 7 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
- INSTALL ITEMS 3 & 8 USING WEIDMULLER CRIMP TOOL PZ16S OR EQUIVALENT.
- HEAT SHRINK TUBING ITEM 5 OVER SOLDER JOINT 6 PLACES.
- USE ALL STRANDS OF BRAID AND DRAIN WIRE FROM CABLE WHEN TERMINATING LUG.
- MARK PER QP-08-0001.
- MINIMUM BEND RADIUS:

FIXED INSTALLATION	3.30
FREE MOVEMENT	6.60
CONTINUOUS FLEXING	8.0
- BR1 AND BR2 WIRES ARE NOT TO BE USED ON SOME MOTORS. SEE MOTOR DRAWING FOR CONNECTION DETAILS.

DATE	SYM	REVISION RECORD	DR	CK	CK
17MAR05	A	PER ECN 05-028	EB		



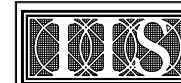
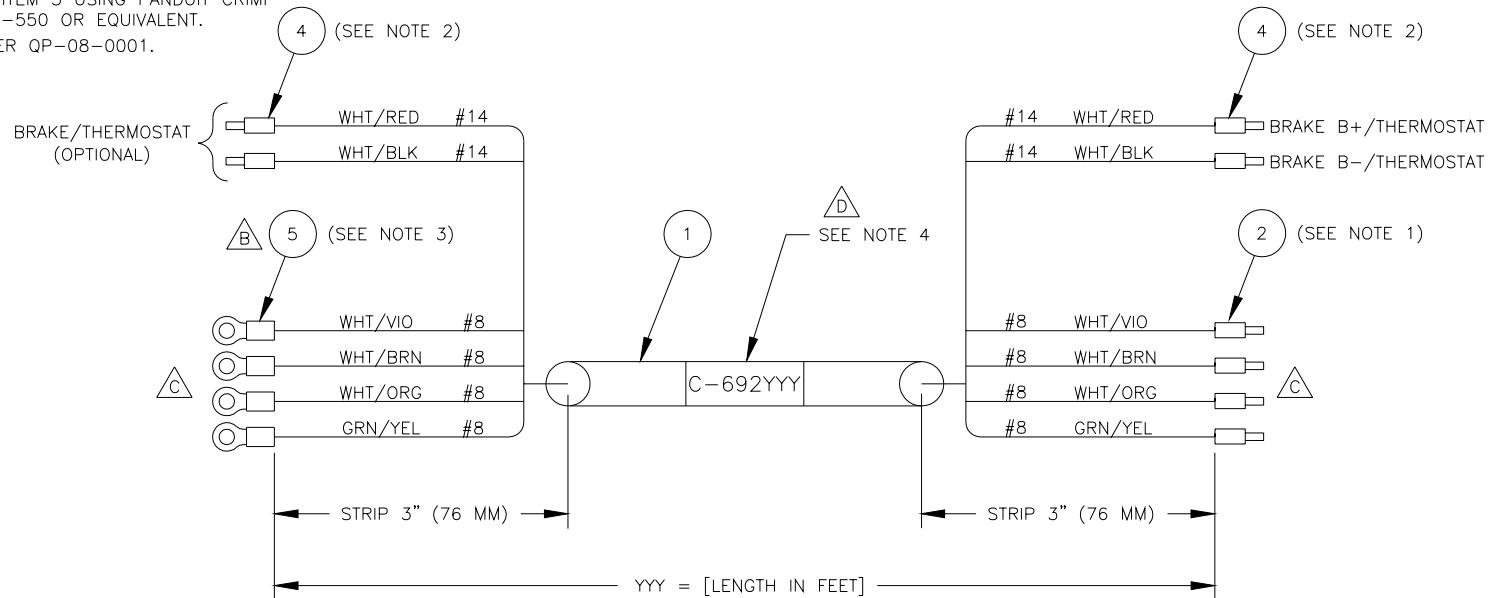
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CHECKED BY	DATE	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY	DATE	TITLE			
APPROVED BY	DATE	CABLE, MOTOR, SHIELDED			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
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	TOLERANCES	AutoCAD FILE LOCATION			
	X.X± ---	Q:\CURRENT DWGS			
	X.XX± ---	DATE	SCALE	SHEET NO.	REVISION
	X.XXX± ---	B 26MAR03	---	1 OF 1	A

DATE	SYM	REVISION RECORD	DR	CK	CK
20JUL00	D	PER ECN 00-246	CWB	EB	CDR

NOTES:

1. INSTALL ITEM 2 USING WEIDMULLER CRIMP TOOL PZ-16 OR EQUIVALENT.
2. INSTALL ITEM 4 USING WEIDMULLER CRIMP TOOL PZ-4 OR EQUIVALENT.
3. INSTALL ITEM 5 USING PANDUIT CRIMP TOOL CT-550 OR EQUIVALENT.
4. MARK PER QP-08-0001.



INDUSTRIAL INDEXING SYSTEMS, Inc.

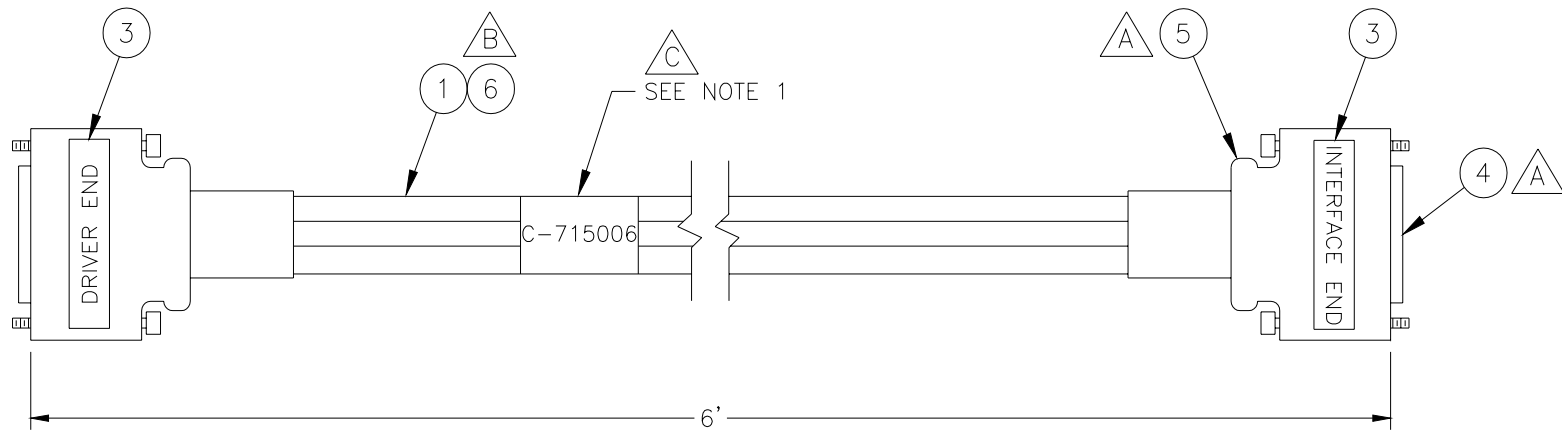
www.iis-servo.com

CHECKED BY	DATE	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE. AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY WES	DATE 30JAN97	TITLE CABLE, MOTOR			
APPROVED BY ELS	DATE 26APR96	DRAWN BY BOWMAN		DRAWING NUMBER C-692YYY	
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	AutoCAD FILE LOCATION Q:\CURRENT DWGS			
FINISH	X.X ± --- X.XX ± 0.01 X.XXX ± 0.005	ANGULAR ± ---	DATE B 26APR96	SCALE ---	SHEET NO. 1 OF 1
					REVISION D

DATE	SYM	REVISION RECORD	DR	CK	CK
11JUN03	E	PER ECN 03-267	EB		

NOTES: $\triangle D$

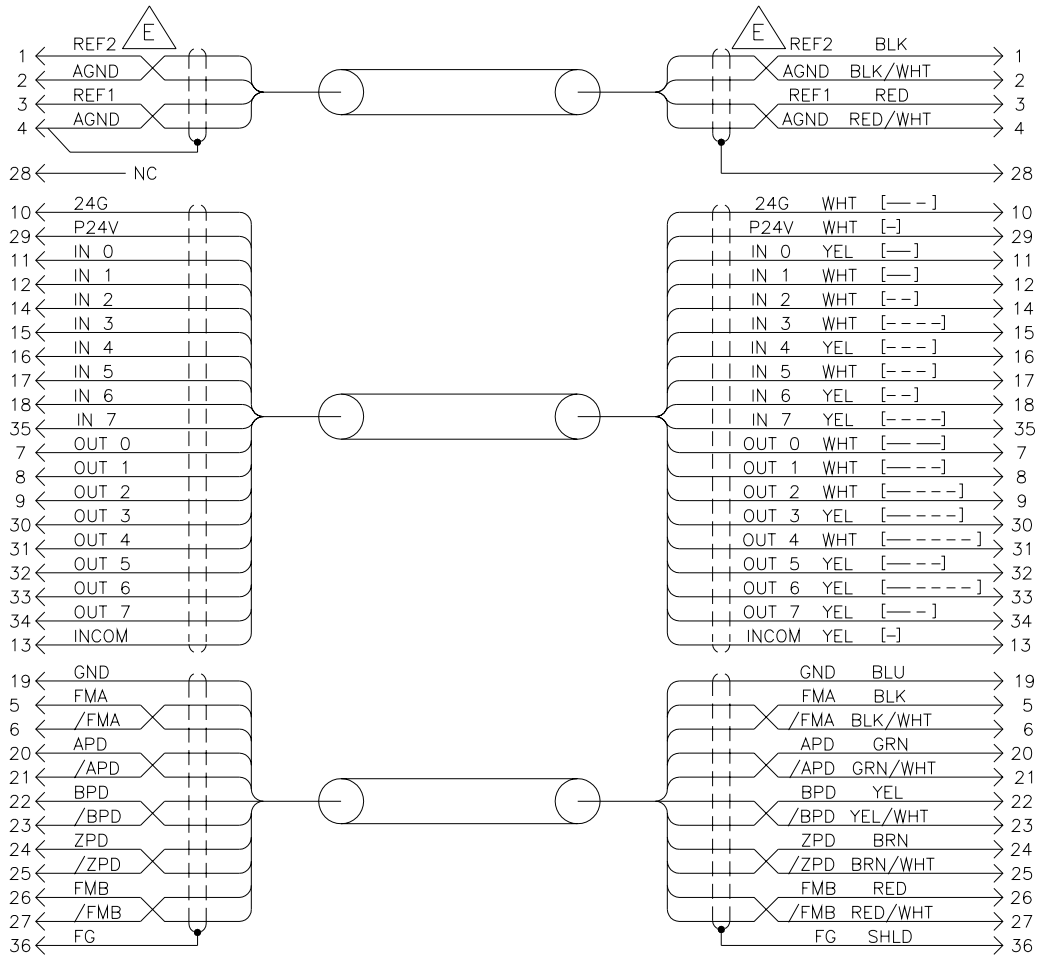
- 1.) MARK PER QP-08-0001.
- 2.) SHEET 2 OF THIS DRAWING IDENTIFIES DELTA CONTROL SIGNALS.
- 3.) SHEET 3 OF THIS DRAWING IDENTIFIES DELTA S I/O SIGNAL.



$\triangle A1$

CHECKED BY	DATE	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY JC	DATE 8/27/96	TITLE			
APPROVED BY ELS	DATE 3/29/96	CABLE, DELTA CONTROL/DELTA S I/O			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER		
FINISH	TOLERANCES	Autocad FILE LOCATION Q:\CURRENT DWGS	C-715006		
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	X.XX± 0.01	± ---			REVISION E
	X.XXX± 0.005				

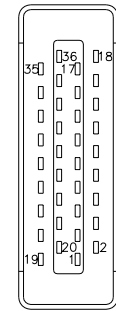
DATE	SYM	REVISION RECORD	DR	CK	CK
11JUN03	E	PER ECN 03-267	EB		



DELTA DRIVER END

INTERFACE END

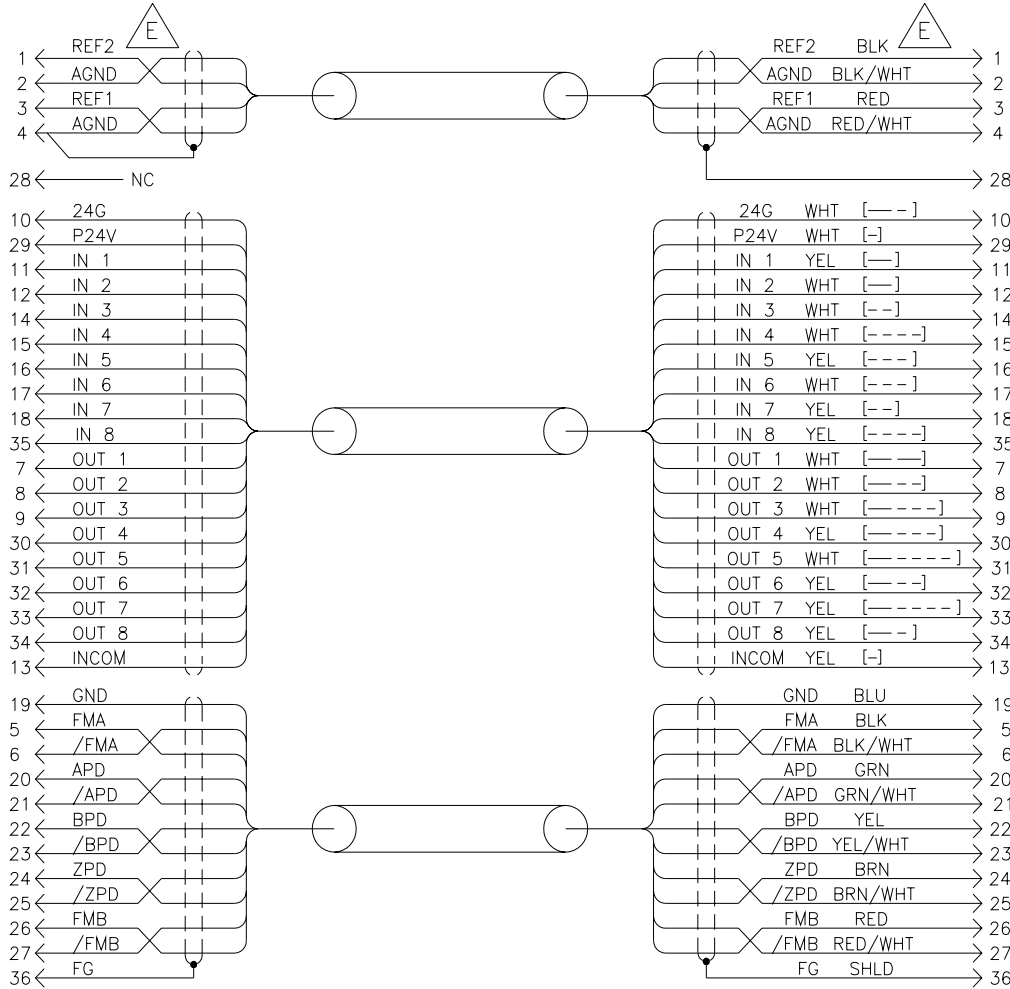
CONNECTIONS FOR DELTA DRIVE



36 POS. CONNECTOR
AS VIEWED FROM
SOLDER SIDE
(2 PLACES)

CHECKED BY	DATE	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY JC	DATE 8/27/96	TITLE CABLE, DELTA CONTROL/DELTA S 1/0			
APPROVED BY ELS	DATE 3/29/96	DRAWN BY BOWMAN		DRAWING NUMBER C-715006	
MATERIAL		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
FINISH		TOLERANCES		SCALE	
X.X± ---		ANGULAR ± ---		DATE	
X.XXX± 0.01		X.XXX± 0.005		28MAR96	
				SHEET NO. 2 OF 3	
				REVISION E	

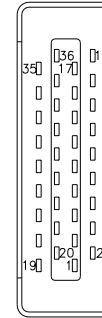
DATE	SYM	REVISION RECORD	DR	CK	CK
11JUN03	E	PER ECN 03-267	EB		



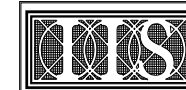
DELTA S DRIVER END

INTERFACE END

CONNECTIONS FOR DELTA S DRIVE



36 POS. CONNECTOR
AS VIEWED FROM
SOLDER SIDE
(2 PLACES)



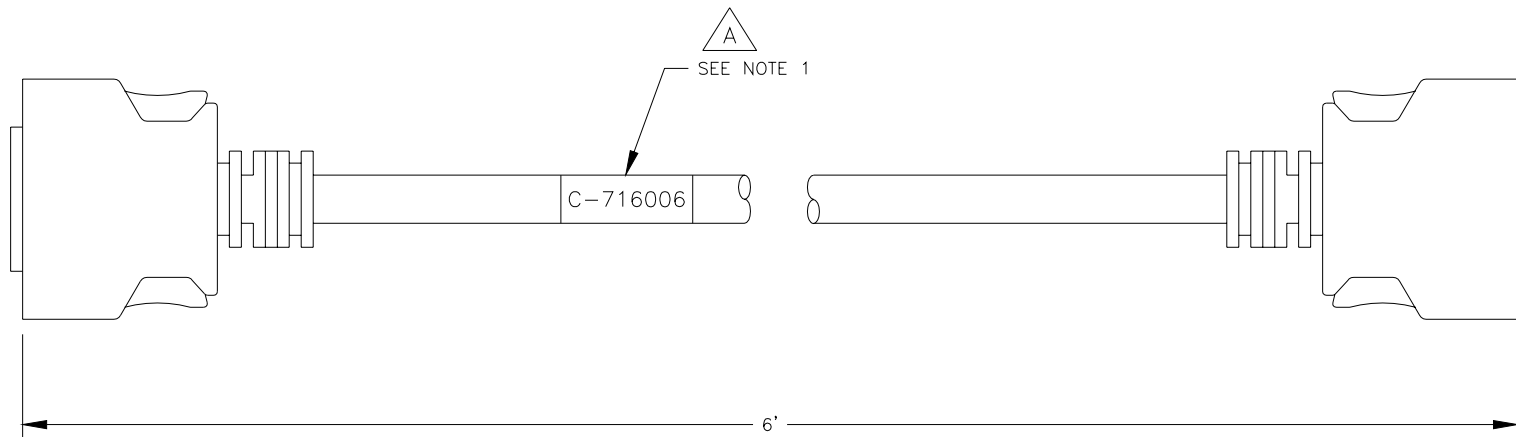
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www.iis-servo.com

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APPROVED BY JC	DATE 8/27/96	TITLE CABLE, DELTA CONTROL/DELTA S I/O			
APPROVED BY ELS	DATE 3/29/96	DRAWN BY BOWMAN			
MATERIAL		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWING NUMBER C-715006	
FINISH		TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
X.X± ---		ANGULAR ± ---		DATE 28MAR96	
X.XX± 0.01				SCALE ---	
X.XXX± 0.005				SHEET NO. 3 OF 3	
				REVISION E	

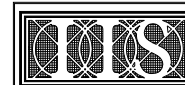
DATE	SYM	REVISION RECORD	DR	CK	CK
22JUL03	C	PER ECN 03-318	EB		

NOTES:

- MARK PER QP-08-0001.



01



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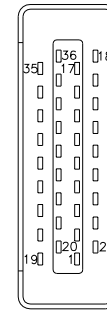
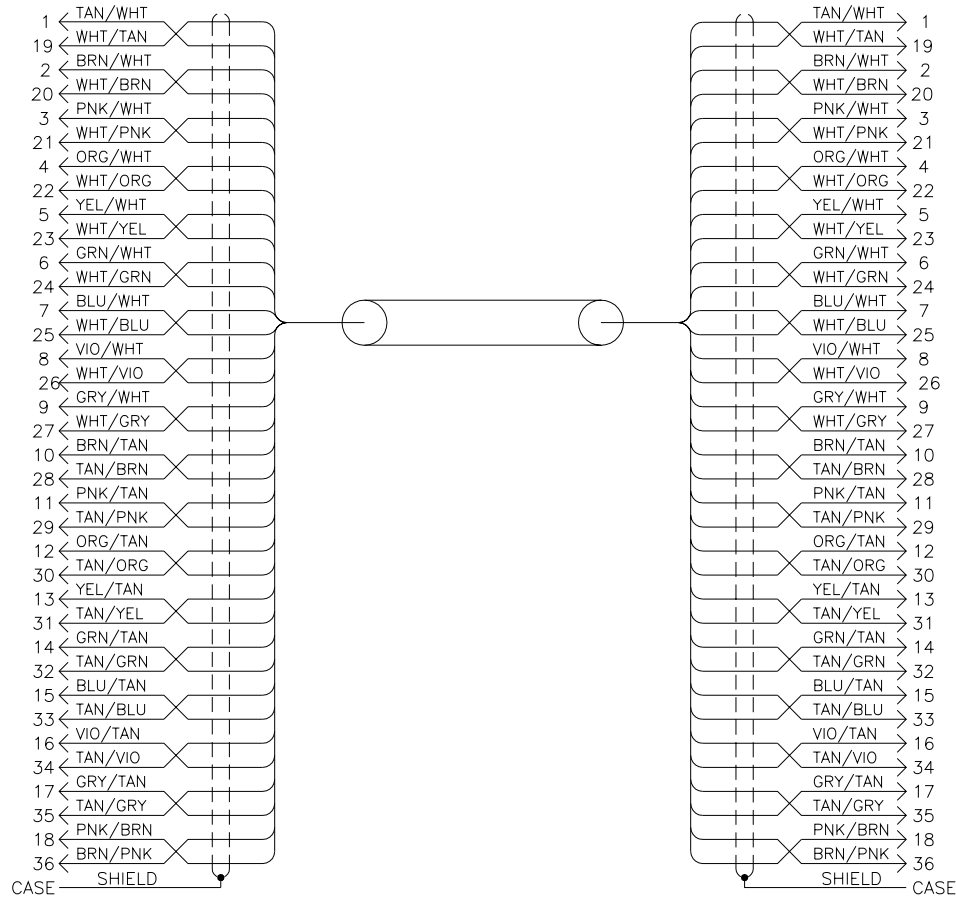
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APPROVED BY E. BAIER	DATE 13DEC96	TITLE CABLE, DMAX/DPRO CONTROL			
APPROVED BY ELS	DATE 29MAR96	DRAWN BY BAIER		DRAWING NUMBER C-716006	
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	AutoCAD FILE LOCATION Q:\CURRENT DWGS			
FINISH	TOLERANCES X.X± --- X.XX± 0.01 X.XXX± 0.005	ANGULAR ± ---	DATE B 28MAR96	SCALE ---	SHEET NO. 1 OF 2
					REVISION C

NOTES:

- 1) REFER TO DINT-300 DRAWINGS FOR INDIVIDUAL PIN FUNCTIONALITY.
 SHEET 2 - DELTAMAX/DELTAPRO
 SHEET 3 - DELTA/DELTA XP
 SHEET 4 - DELTA S

B

DATE	SYM	REVISION RECORD	DR	CK	CK
22JUL03	C	PER ECN 03-318	EB		



36 POS. CONNECTOR
 AS VIEWED FROM
 SOLDER SIDE
 (2 PLACES)



INDUSTRIAL INDEXING SYSTEMS, Inc.

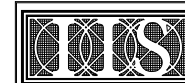
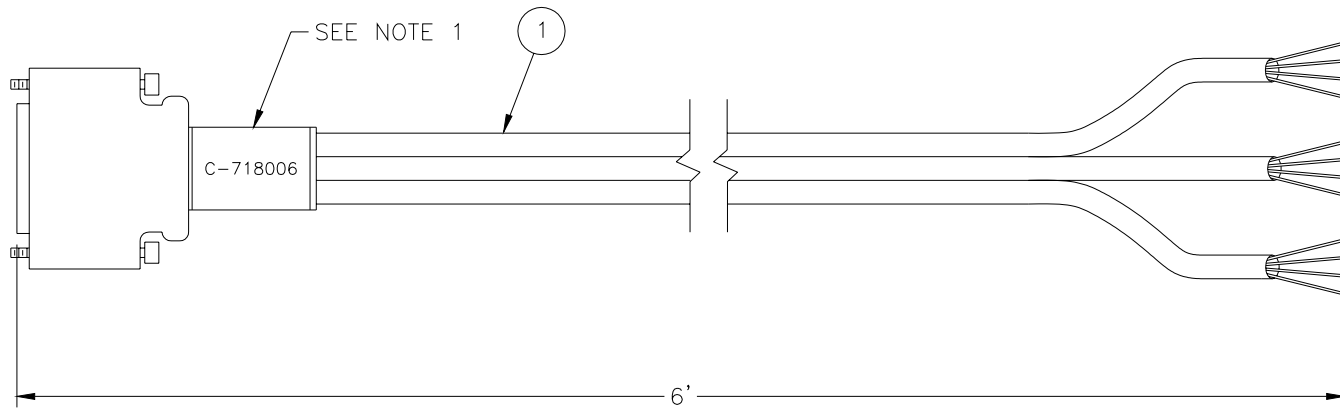
www.iis-servo.com

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APPROVED BY E.BAIER	DATE 13DEC96	INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY ELS	DATE 29MAR96	TITLE CABLE, DMAX/DPRO CONTROL			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BAIER	DRAWING NUMBER C-716006		
FINISH	TOLERANCES X.X± --- X.XX± --- X.XXX± ---	AutoCAD FILE LOCATION Q:\CURRENT DWGS	SCALE ---	SHEET NO. 2 OF 2	REVISION C

DATE	SYM	REVISION RECORD	DR	CK	CK
02MAR01	A	PER ECN 01-086	CWB	EB	CDR

NOTES:

- 1.) MARK PER QP-08-0001.
- 2.) SHEET 2 OF THIS DRAWING IDENTIFIES DELTA CONTROL SIGNALS.
- 3.) SHEET 3 OF THIS DRAWING IDENTIFIES DELTA S I/O SIGNALS.

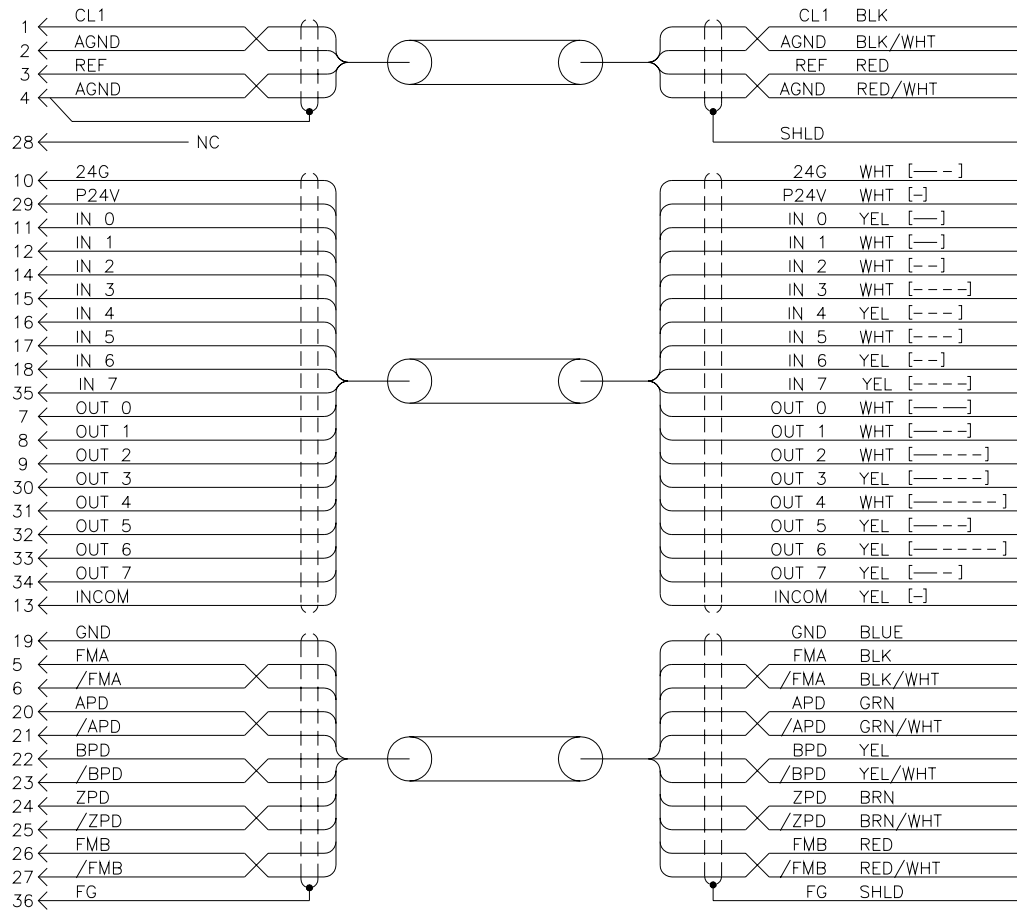


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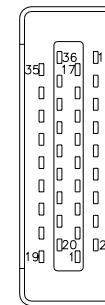
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APPROVED BY	DATE				
APPROVED BY	DATE	TITLE			
		CABLE, DELTA CONTROL/DELTA S I/O			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
-----	TOLERANCES	BOWMAN	C-718006		
FINISH	X.X± ---	AutoCAD FILE LOCATION			
-----	X.XX± 0.01	Q:\CURRENT DWGS			
	X.XXX± 0.005	DATE	SCALE	SHEET NO.	REVISION
		B 10MAY96	---	1 OF 3	A

DATE	SYM	REVISION RECORD	DR	CK	CK
02MAR01	A	PER ECN 01-086	CWB	EB	CDR

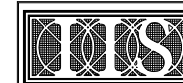


DELTA DRIVE

CONNECTIONS FOR DELTA DRIVE



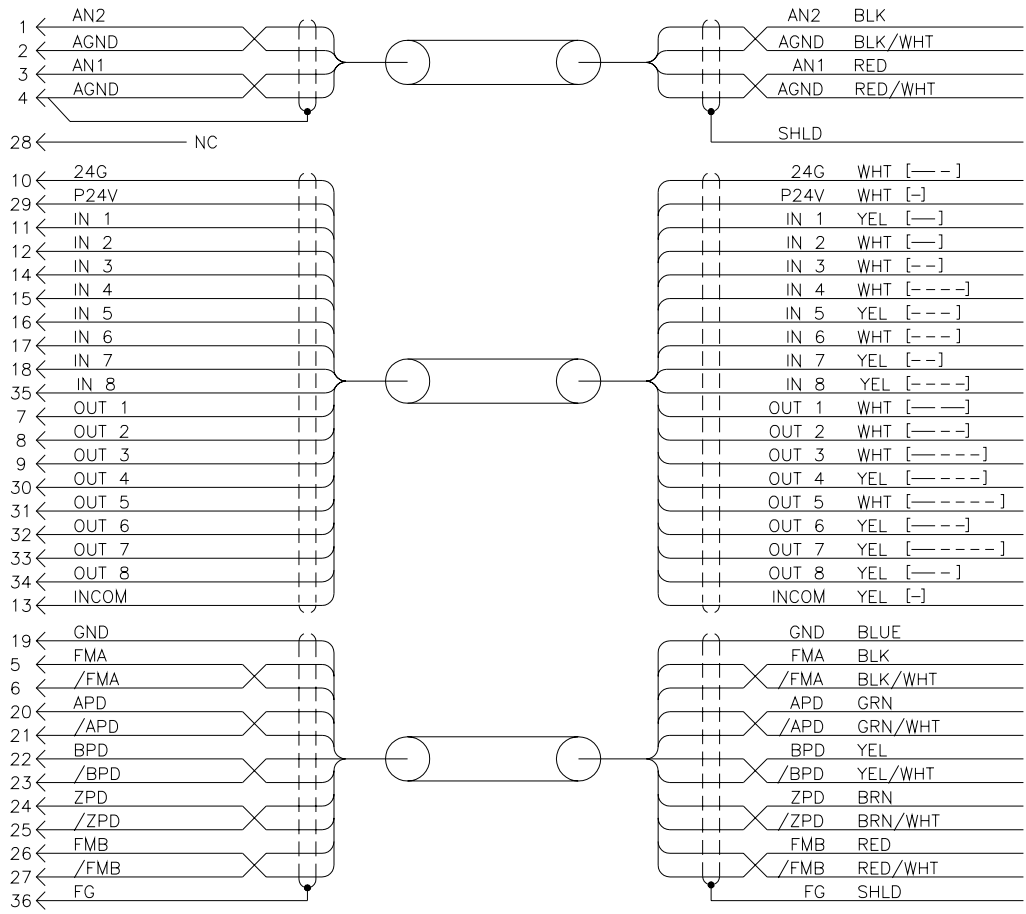
36 POS. CONNECTOR
AS VIEWED FROM
SOLDER SIDE
(2 PLACES)



INDUSTRIAL INDEXING SYSTEMS, Inc.

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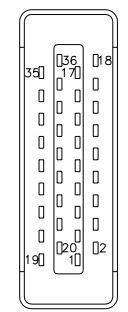
CHECKED BY	DATE	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY	DATE	TITLE			
APPROVED BY	DATE	CABLE, DELTA CONTROL/DELTA S I/O			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	TOLERANCES	DRAWN BY	DRAWING NUMBER	
-----			BOWMAN	C-718006	
FINISH	X.X± ---	ANGULAR ± ---	AutoCAD FILE LOCATION	DATE	SCALE
-----	X.XX± ---		Q:\CURRENT DWGS	B 10MAY96	SHEET NO. 2 OF 3
	X.XXX± ---				REVISION A



DELTA S DRIVE

CONNECTIONS FOR DELTA S DRIVE

DATE	SYM	REVISION RECORD	DR	CK	CK
02MAR01	A	PER ECN 01-086	CWB	EB	CDR



36 POS. CONNECTOR
AS VIEWED FROM
SOLDER SIDE
(2 PLACES)



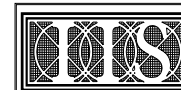
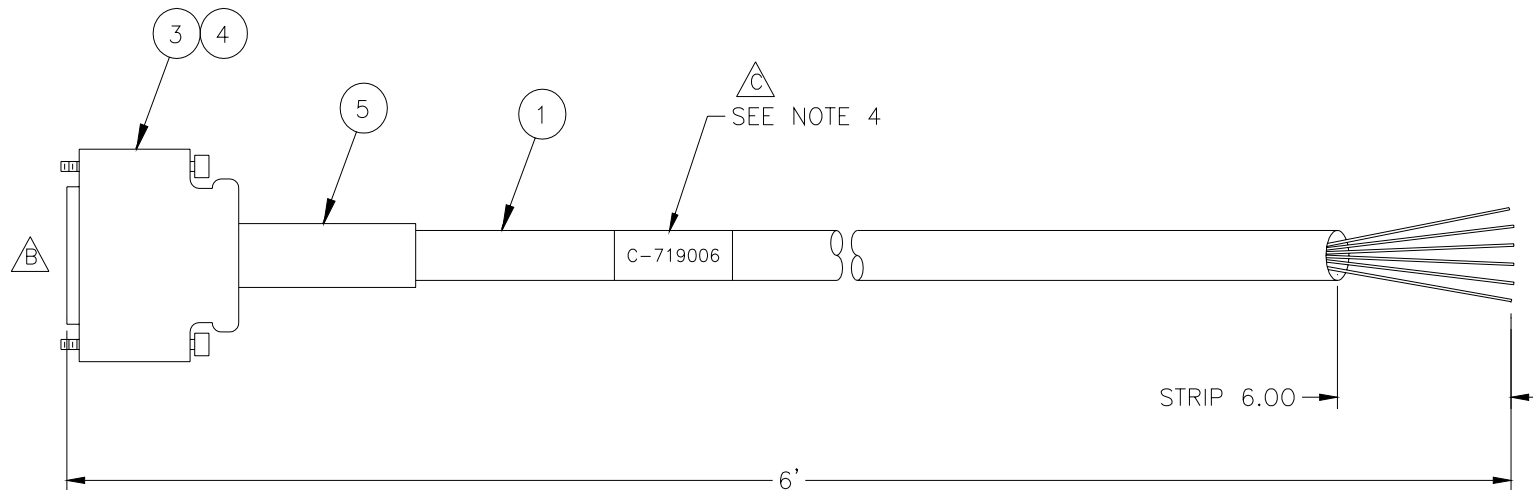
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www.iis-servo.com

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APPROVED BY	DATE	TITLE			
APPROVED BY	DATE	CABLE, DELTA CONTROL/DELTA S I/O			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	TOLERANCES	DRAWN BY	DRAWING NUMBER	
-----			BOWMAN	C-718006	
FINISH	X.X± ---	ANGULAR ± ---	AutoCAD FILE LOCATION	DATE	SCALE
-----	X.XX± ---		Q:\CURRENT DWGS	B 10MAY96	---
	X.XXX± ---			SHEET NO.	REVISION
				3 OF 3	A

DATE	SYM	REVISION RECORD	DR	CK	CK
11JUN03	D	PER ECN 03-267	EB		

NOTES:

- 36 PIN 'C' PLUG TO FLYING LEADS.
- ELECTRICAL SPECIFICATIONS:
VOLTAGE RATING: 50 V
CURRENT RATING: 1 A
WITHSTANDING VOLTAGE: 500 Vrms FOR 1 MINUTE
- ENVIRONMENTAL SPECIFICATIONS:
TEMPERATURE RATING: -20°C TO +75°C
FLAMMABILITY RATING: N.E.C. 725, CL2
- MARK PER QP-08-0001.



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APPROVED BY	DATE	TITLE			
APPROVED BY	DATE	CABLE, CONTROL			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
-----		BOWMAN	C-719006		
FINISH	TOLERANCES	AutoCAD FILE LOCATION	SHEET NO.	REVISION	
-----	X.X± --- X.XX± 0.01 X.XXX± 0.005	Q:\CURRENT DWGS	1 OF 2	D	
	ANGULAR ± ---	DATE	SCALE		
		B 13MAY96	---		

NOTES:

1) REFER TO DINT-300 DRAWINGS FOR INDIVIDUAL PIN FUNCTIONALITY.

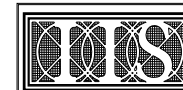


SHEET 2 - DELTAMAX/DELTAPRO
SHEET 3 - DELTA/DELTA XP
SHEET 4 - DELTA S

DATE	SYM	REVISION RECORD	DR	CK	CK
11JUN03	D	PER ECN 02-267	EB		



36 POS. CONNECTOR
AS VIEWED FROM
SOLDER SIDE
(2 PLACES)



INDUSTRIAL INDEXING SYSTEMS, Inc.

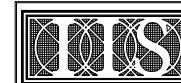
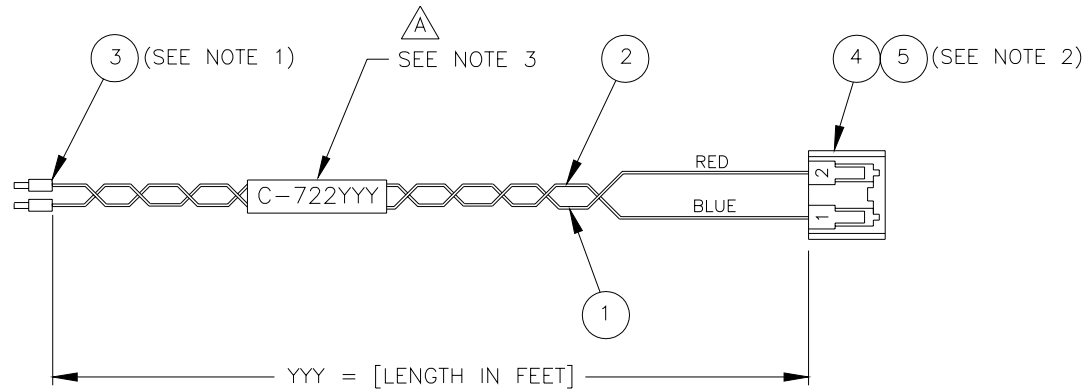
www.iis-servo.com

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APPROVED BY	DATE	TITLE			
APPROVED BY	DATE	CABLE, CONTROL			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
-----		BOWMAN	C-719006		
FINISH	TOLERANCES	AutoCAD FILE LOCATION	SHEET NO.		
-----	X.X± --- X.XX± 0.01 X.XXX± 0.005	Q:\CURRENT DWGS	2 OF 2		
	ANGULAR ± ---	DATE	SCALE	REVISION	
		B 13MAY96	---	D	

DATE	SYM	REVISION RECORD	DR	CK	CK
21JUL00	A	PER ECN 00-246	CWB	EB	CDR

NOTES:

1. INSTALL ITEM 3 USING WEIDMULLER CRIMP TOOL PZ-4 OR EQUIVALENT.
2. CRIMP ITEM 4 USING YRS-260 CRIMP TOOL OR EQUIVALENT (2 PLACES).
3. MARK PER QP-08-0001.



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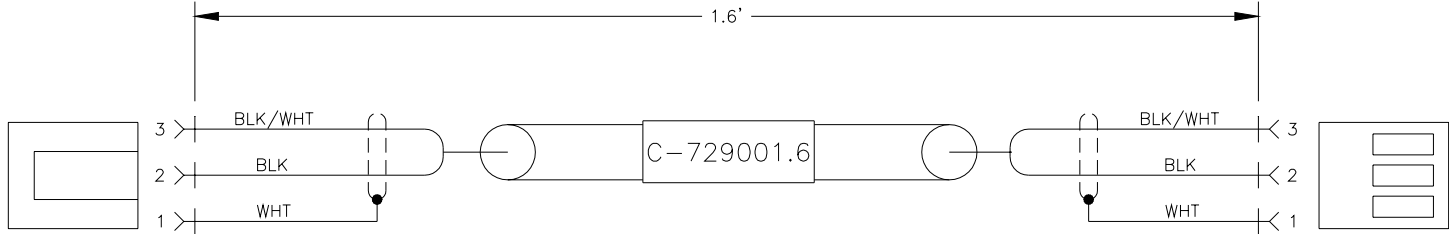
www.iis-servo.com

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APPROVED BY	DATE	TITLE			
APPROVED BY JC	DATE 7/23/96	CABLE, MONITOR, DELTA SERIES			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BAIER	DRAWING NUMBER		
FINISH	TOLERANCES	AutoCAD FILE LOCATION Q:\CURRENT DWGS	C-722YYY		
	X.X± --- X.XX± 0.01 X.XXX± 0.005	ANGULAR ± ---	DATE B 23JUL96	SCALE ---	SHEET NO. 1 OF 1
					REVISION A

DATE	SYM	REVISION RECORD	DR	CK	CK
06MAY97	0	PER ECN 97-151	CWB		

NOTES:

- PIN NUMBERS SHOWN FOR REFERENCE ONLY
- MARK PER QP-08-0001.

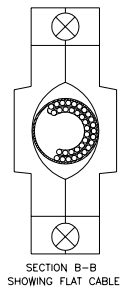
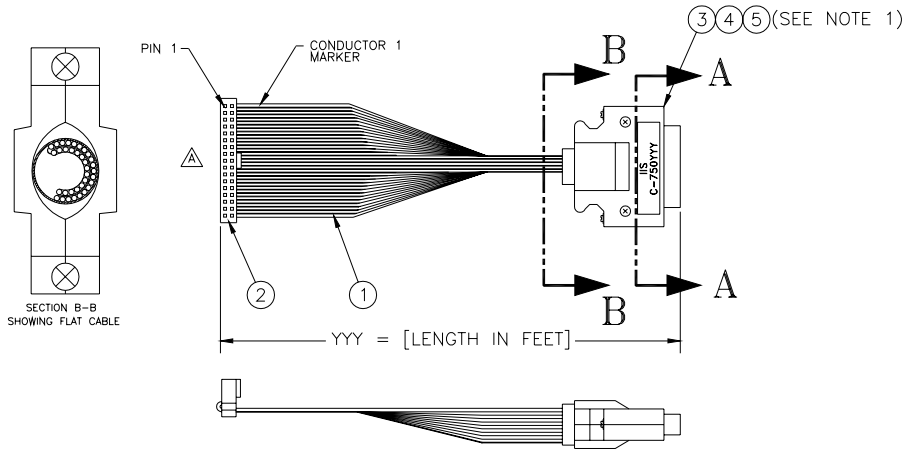


INDUSTRIAL INDEXING SYSTEMS, Inc.

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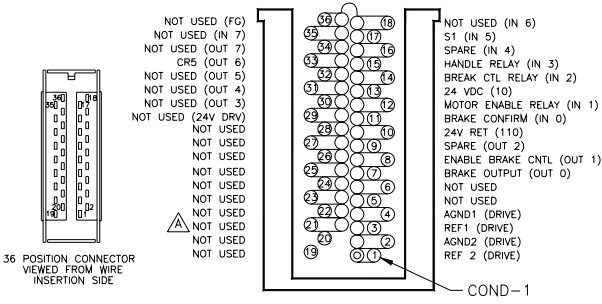
CHECKED BY	DATE	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY	DATE				
APPROVED BY	DATE	TITLE			
		CABLE, DELTA BATTERY			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
-----	TOLERANCES	CWB	C-729001.6		
		AutocAD FILE LOCATION			
FINISH	X.X± ---	Q\CURRENT	SCALE	SHEET NO.	REVISION
-----	X.XX± ---	DATE	NTS	1 OF 1	0
	X.XXX± ---	B	06MAY97		

DATE	SYM	REVISION RECORD	DR	CK	CK
03MAY00	0	PER ECN 00-085	CWB	PK	
13JUN00	A	PER ECN 00-181	CWB		

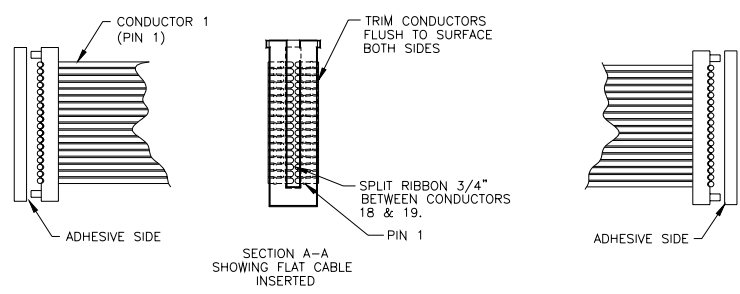


RELAY BOARD SIDE RIBBON CONNECTOR DELTAMAX DRIVE SIDE "MINI D" CONNECTOR

1	← REF 2 (DRIVE)	→ 1
2	← AGND 2 (DRIVE)	→ 2
3	← REF 1 (DRIVE)	→ 3
4	← AGND 1 (DRIVE)	→ 4
5	← NOT USED	→ 5
6	← NOT USED	→ 6
7	← BRAKE OUTPUT (OUT 0)	→ 7
8	← ENABLE BRAKE CNTL (OUT 1)	→ 8
9	← SPARE (OUT 2)	→ 9
10	← 24 V RET (110)	→ 10
11	← BRAKE CONFIRM (IN 0)	→ 11
12	← MOTOR ENABLE RELAY (IN 1)	→ 12
13	← 24 VDC (10)	→ 13
14	← BRAKE CTL RELAY (IN 2)	→ 14
15	← HANDLE RELAY (IN 3)	→ 15
16	← SPARE (IN 4)	→ 16
17	← JOG UP (IN 5)	→ 17
18	← JOG DWN (IN 6)	→ 18
19	← NOT USED (FG)	→ 19
20	← NOT USED (IN 7)	→ 20
21	← HANDLE SWITCH (OUT 7)	→ 35
22	← CR 2 (OUT 6)	→ 34
23	← OVERLOAD IND. (OUT 5)	→ 33
24	← DIAGNOSTIC IND. (OUT 4)	→ 32
25	← SYSTEM READY IND. (OUT 3)	→ 31
26	← NOT USED (24V DRV)	→ 30
27	← NOT USED	→ 29
28	← NOT USED	→ 28
29	← NOT USED	→ 27
30	← NOT USED	→ 26
31	← NOT USED	→ 25
32	← NOT USED	→ 24
33	← NOT USED	→ 23
34	← NOT USED	→ 22
		→ 21
		→ 20
		→ 19



NOTES:
1.) MARK PER QP-08-0001.

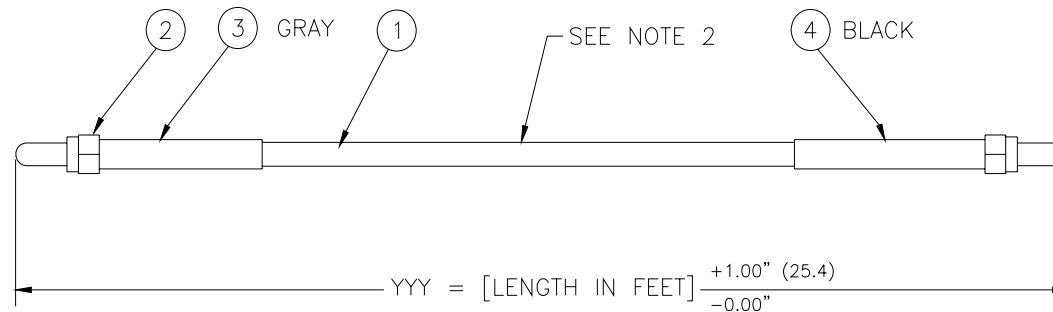


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APPROVED BY	DATE	
APPROVED BY	DATE	TITLE
		CABLE, COMMUNICATIONS
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN
	TOLERANCES	DRIVING NUMBER
		C-750YYY
FINISH	X.X ± --	ANSI FILE LOCATION
	X.XX ± --	Q:\DFTG\CABLES\C7XX
	X.XXX ± --	DATE
		SCALE
		SHEET NO.
		1 OF 1
		REVISION
		A

DATE	SYM	REVISION RECORD	DR	CK	CK
07JAN05	B	PER ECN 04-441	EB		

NOTES:

- 1.) ASSEMBLE PER QP-08-0006.
- 2.) MARK PER QP-08-0001.
- 3.) TEST USING TEST PROCEDURE TST-0061.
- 4.) MINIMUM BEND RADIUS - 1.58 (40 MM)
LOSS INCREMENT= \leq 0.5dB
(QUARTER BEND)
- 5.) REPEATED BENDING ENDURANCE: 5000 TIMES MIN.
LOSS INCREMENT= \leq 1dB
(IN CONFORMITY TO JIS C 6861)

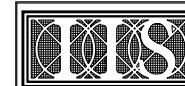
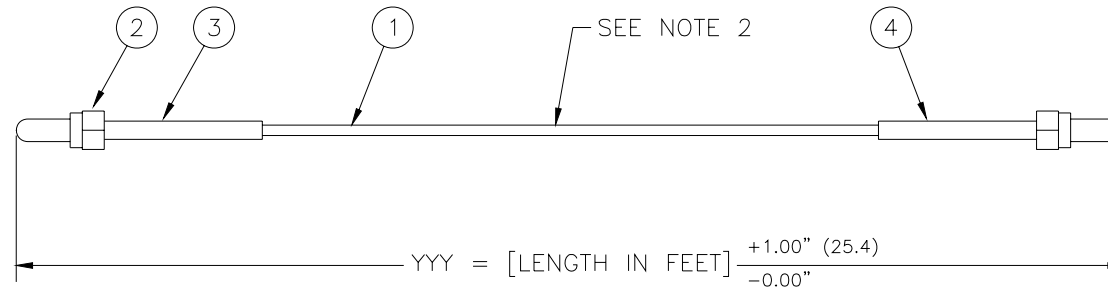


CHECKED BY CD	DATE 3/7/01	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY J.CARTER	DATE 3/7/01	TITLE CABLE, SERCOS FIBER OPTIC, EXTERNAL			
MATERIAL -----	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER C-752YYY		
FINISH -----	TOLERANCES X.X± --- X.XX± --- X.XXX± ---	ANGULAR ± ---	AutocAD FILE LOCATION Q:\DTG\CABLES\C-7XX	DATE 10MAY00	SCALE ---
			SHEET NO. 1 OF 1	REVISION B	

DATE	SYM	REVISION RECORD	DR	CK	CK
07JAN05	C	PER ECN 04-441	EB		

NOTES:

- 1.) ASSEMBLE PER QP-08-0006.
- 2.) MARK PER QP-08-0001.
- 3.) TEST USING TEST PROCEDURE TST-0061.
- 4.) MINIMUM BEND RADIUS - .98 (25 MM)
LOSS INCREMENT=<0.5 dB
(QUARTER BEND)
- 5.) REPEATED BENDING ENDURANCE: 5000 TIMES MIN.
LOSS INCREMENT=< 1dB
(IN CONFORMITY TO JIS C 6861)



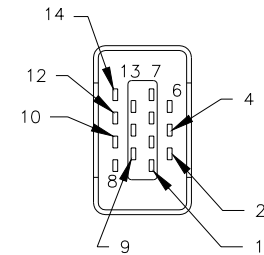
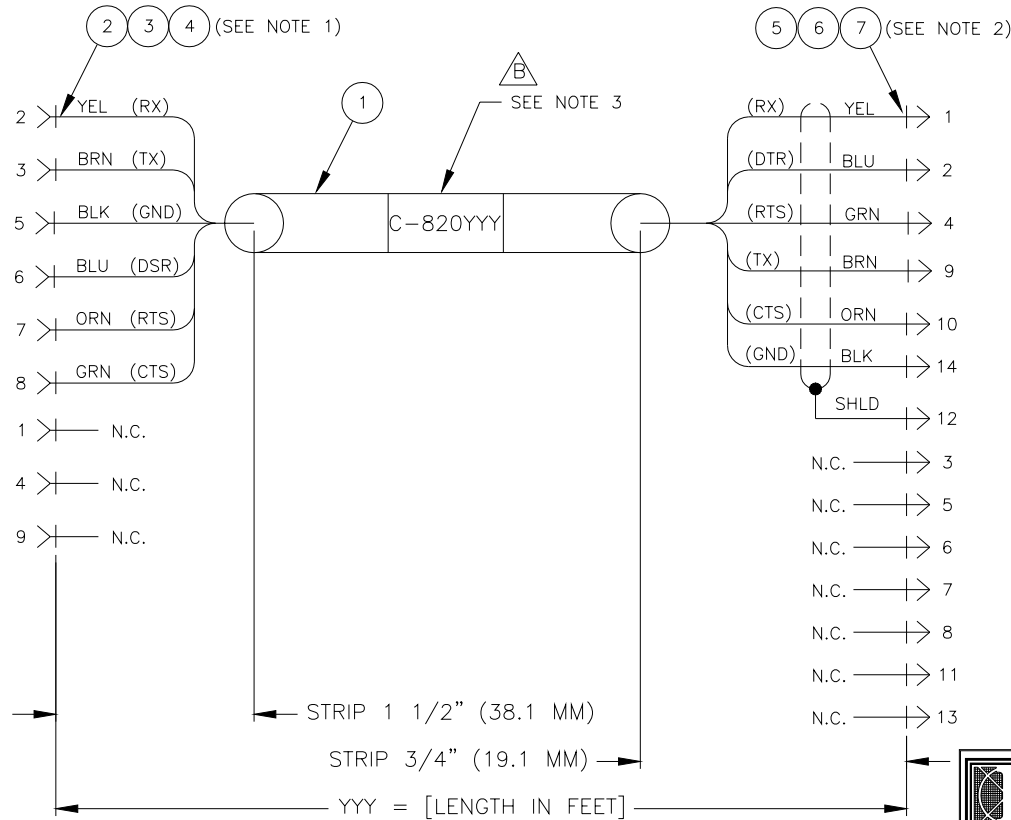
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www.iis-servo.com

CHECKED BY	DATE	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY	DATE	TITLE			
J. CARTER	3/7/01	CABLE, SERCOS FIBER OPTIC, INTERNAL			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
SPEC SHT: GHCP 4001	TOLERANCES	BOWMAN	C-753YYY		
FINISH	X.X± --- X.XX± --- X.XXX± ---	ANGULAR	AutoCAD FILE LOCATION	DATE	SCALE
		± ---	Q:\DFTG\CABLES\C-7XX	B 10MAY00	SHEET NO. 1 OF 1
					REVISION C

NOTES:

1. INSTALL ITEM 2 USING AMP IDT TOOL OR EQUIVALENT.
2. HEAT SHRINK TUBING OVER SOLDER JOINT (7 PLACES).
3. MARK PER QP-08-0001.

DATE	SYM	REVISION RECORD	DR	CK	CK
21JUL00	B	PER ECN 00-246	CWB	EB	CDR



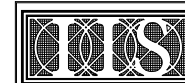
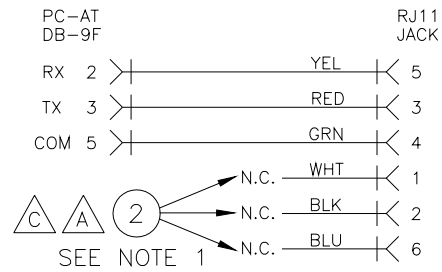
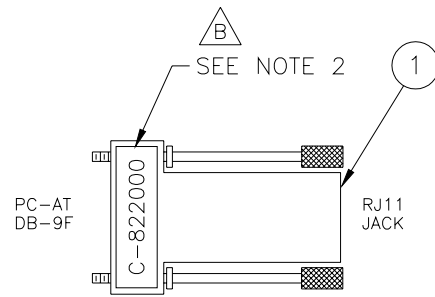
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APPROVED BY EB	DATE 4/26/96	TITLE			
APPROVED BY JC	DATE 4/4/96	CABLE, COMMUNICATION			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BAIER	DRAWING NUMBER		
	TOLERANCES	AutoCAD FILE LOCATION	C-820YYY		
FINISH	X.X± --- X.XX± 0.01 X.XXX± 0.005	ANGULAR ± ---	DATE 01APR96	SCALE ---	SHEET NO. 1 OF 1
					REVISION B

DATE	SYM	REVISION RECORD	DR	CK	CK
13MAR01	C	PER ECN 01-070	EB	EB	CDR

NOTES:

- 1.) INSULATE UNUSED WIRES.
- 2.) MARK PER QP-08-0001.



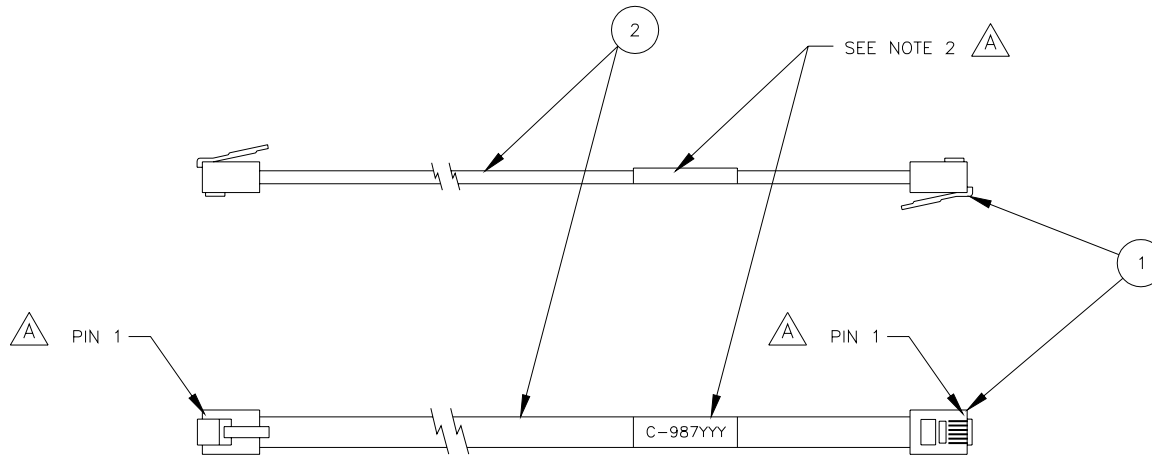
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APPROVED BY	DATE	TITLE			
ELS	15AUG96	CABLE ADAPTOR, 9P, FE, STANDARD			
APPROVED BY	DATE	MATERIAL		DRAWING NUMBER	
ELS	10MAY96	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		C-822000	
		TOLERANCES		DRAWN BY BOWMAN	
				AutoCAD FILE LOCATION	
				Q:\DFTG\CABLES\C-8XX	
				DATE	
				09MAY96	
				SCALE	
				NTS	
				SHEET NO.	
				1 OF 1	
				REVISION	
				C	

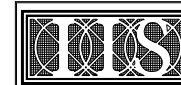
DATE	SYM	REVISION RECORD	DR	CK	CK
29JAN99	A	PER ECN 98-270/99-027	CWB	EB	CDR

NOTES:

- 1) CRIMP CABLE (ITEM 2) TO ENDS (ITEM 1) WITH MODULAR CRIMP TOOL, PART No. 1005-6P6C.
- 2) MARK PER OP-08-0001.



A	
1	WHT
2	BLK
3	RED
4	GRN
5	YEL
6	BLU



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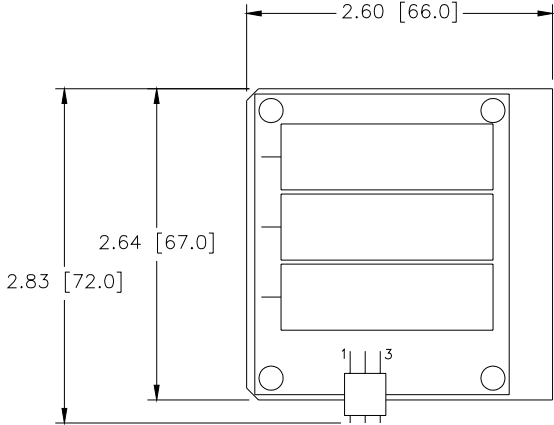
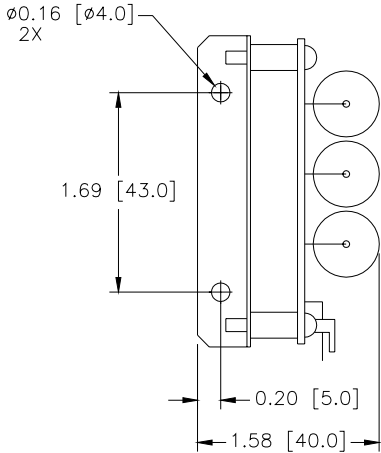
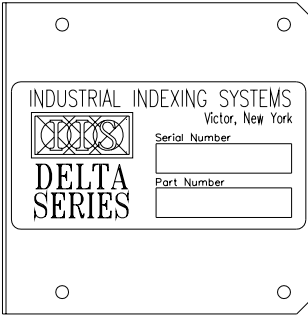
www.iis-servo.com

CHECKED BY E. BAIER	DATE 8/31/92	THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
APPROVED BY J.C.	DATE 8/31/92	TITLE CABLE, DATA, MODULAR			
MATERIAL -----	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY ERTURK	DRAWING NUMBER C-987YYY		
FINISH -----	TOLERANCES X.X± --- X.XX± --- X.XXX± ---	ANGULAR ± ---	AutoCAD FILE LOCATION Q:\DFTG\CABLES\C-9XX	DATE 13AUG92	SCALE ---
			SHEET NO. 1 OF 1	REVISION A	

DATE	SYM	REVISION RECORD	DR	CK	CK
06MAY97	0	PER ECN 97-151	CWB		

NOTES:

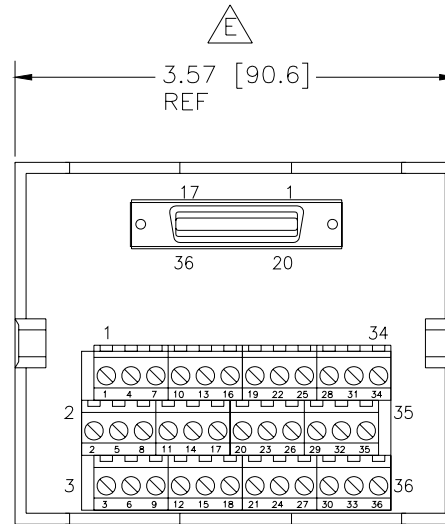
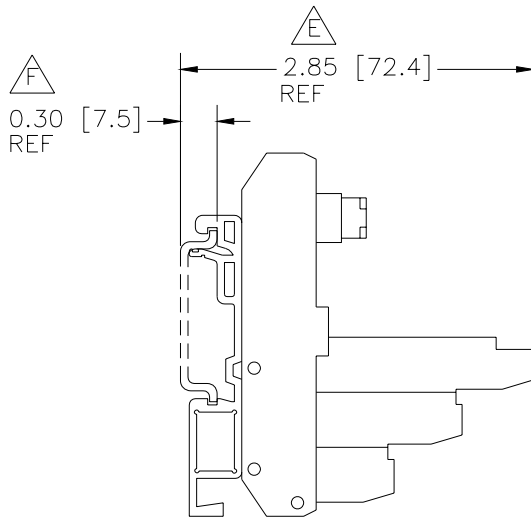
1. PIN NUMBERS SHOWN FOR REFERENCE ONLY.



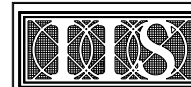
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APPROVED BY	DATE				
APPROVED BY	DATE	TITLE			
		BATTERY PACK, DELTA			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
-----	TOLERANCES	BOWMAN	DELTA-B-3.6/2		
FINISH	X.X± ---	AutocAD FILE LOCATION			
-----	X.XX± ---	Q:\CURRENT DWGS			
	X.XXX± ---	DATE	SCALE	SHEET NO.	REVISION
		B 06MAY97	---	1 OF 1	0

NOTES: 

1. SHEET 2 OF THIS DRAWING IDENTIFIES DELTAMAX/DELTAPRO TO DINT-300 SIGNALS.
2. SHEET 3 OF THIS DRAWING IDENTIFIES DELTA DRIVE TO DINT-300 SIGNALS.
3. SHEET 4 OF THIS DRAWING IDENTIFIES DELTA S DRIVE TO DINT-300 SIGNALS.



DATE	SYM	REVISION RECORD	DR	CK	CK
13JUN06	M	PER ECN 06-181	CD		



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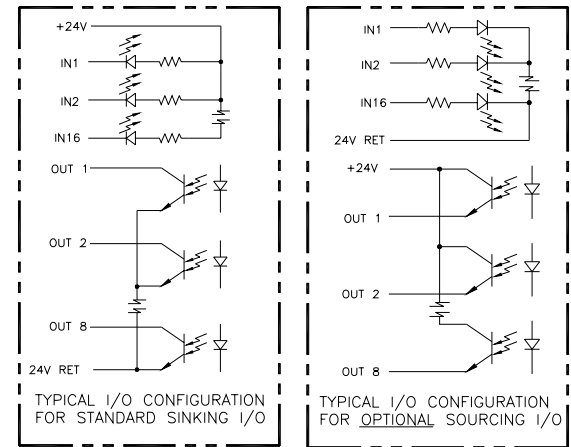
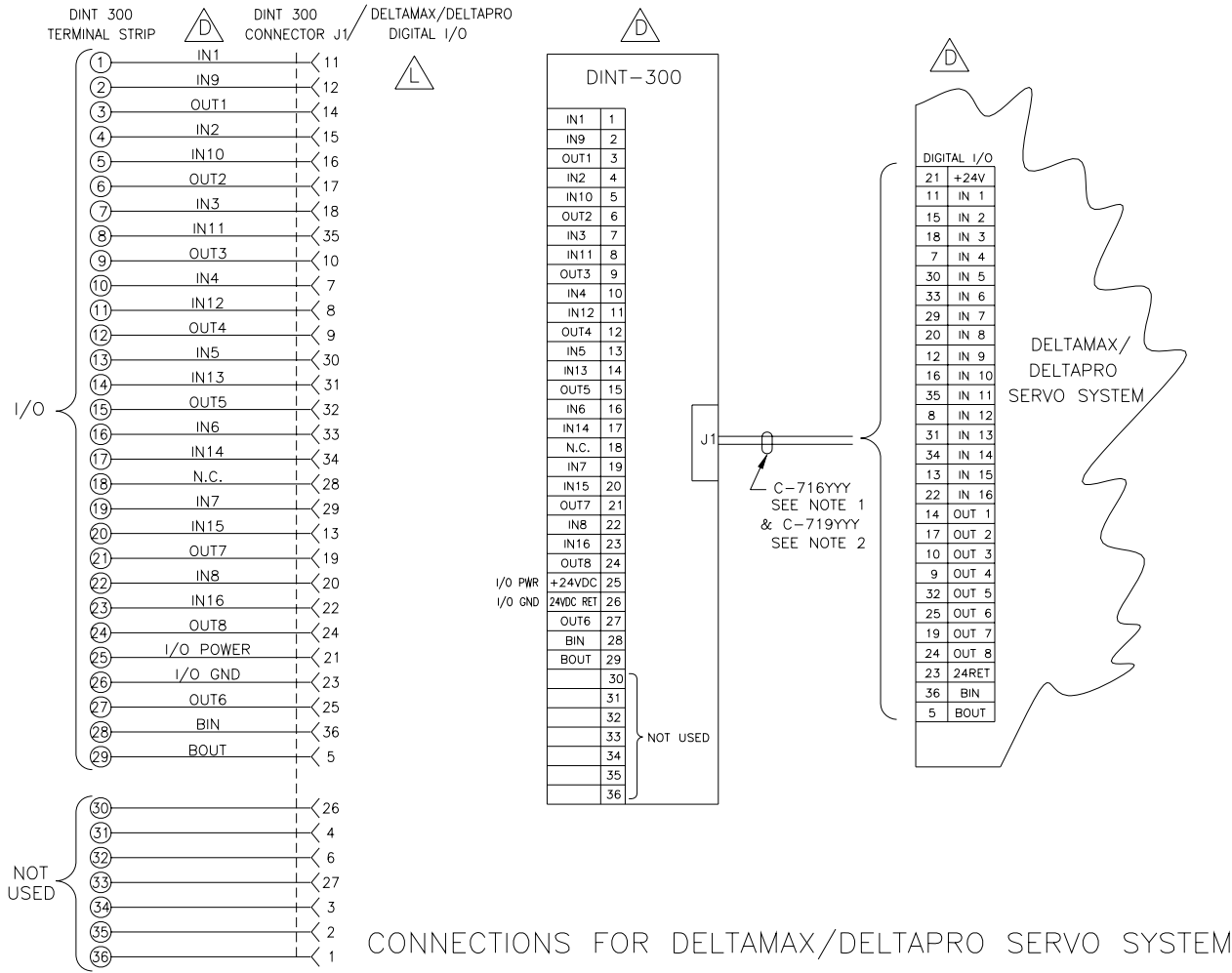
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TITLE					
DELTA SERIES TO DINT-300 SIGNALS					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BAIER		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION		DINT-300	
X.X ± ---	ANGULAR	Q:\CURRENT DWGS			
X.XX ± 0.01	± 0°30'	B	DATE	SCALE	SHEET NO.
X.XXX ± 0.005			08APR96	NTS	1 OF 5

DATE	SYM	REVISION RECORD	DR	CK	CK
13JUN06	M	PER ECN 06-181	EB		

NOTES:

1. C-716 IS APPLICATION DEPENDENT.
 C-716 IS NOT SHIELDED - FOR USE WITH 24V DC I/O ONLY
2. C-719 IS TERMINATED AT ONE END ONLY AND IS APPLICATION DEPENDENT.
 C-719 IS NOT SHIELDED - FOR USE WITH 24V DC I/O ONLY.



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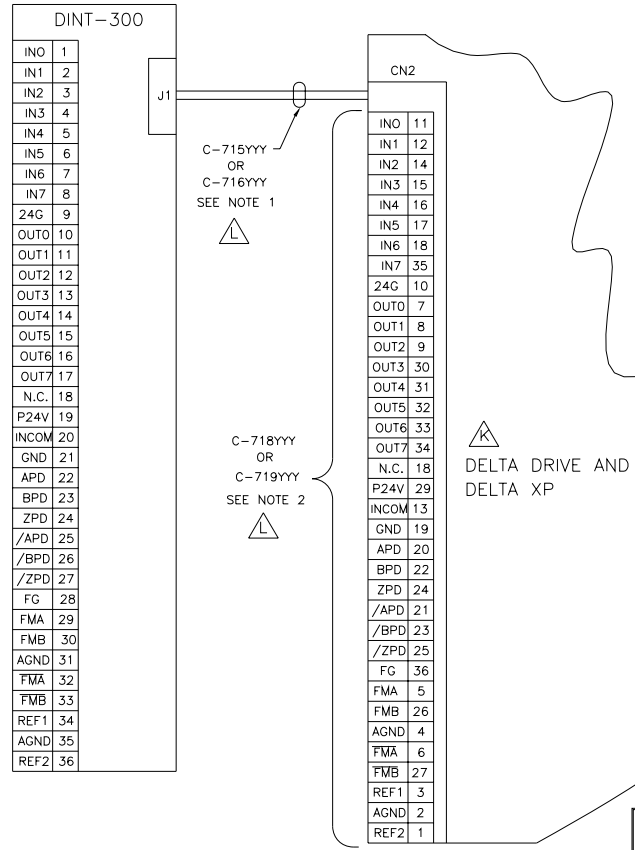
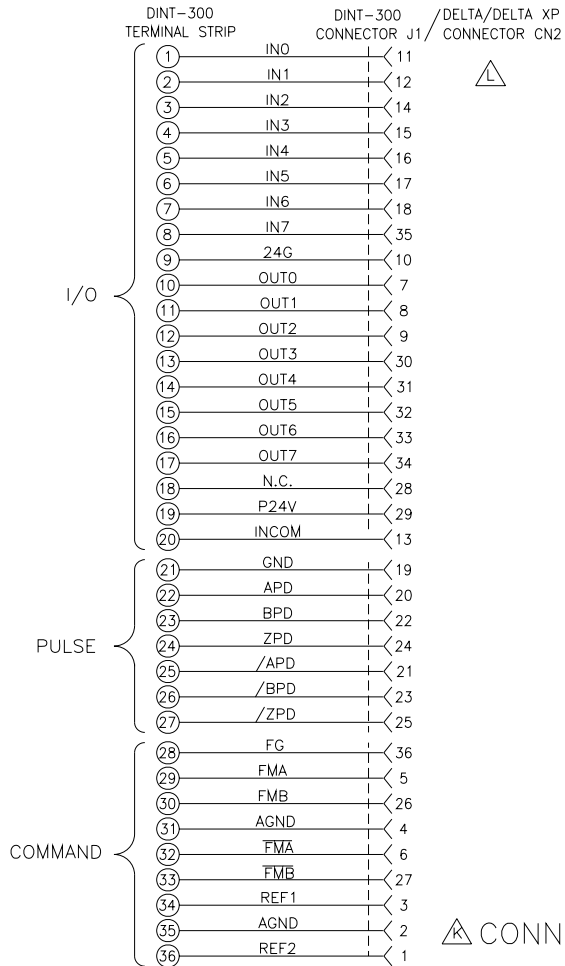
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TITLE					
DELTA SERIES TO DINT-300 SIGNALS					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BAIER		DRAWING NUMBER		
TOLERANCES	AutoCAD FILE LOCATION		DINT-300		
X.XX ± 0.01	ANGULAR ± 0'30"	Q:\CURRENT DWGS	DATE	SCALE	SHEET NO.
X.XXX ± 0.005			08APR96	NTS	2 OF 5
					REVISION M

NOTES:

1. C-715 OR C-716 ARE APPLICATION DEPENDENT.
 C-715 IS SHIELDED FOR HIGH SPEED PULSE SIGNALS.
 C-716 IS NOT SHIELDED - FOR USE WITH 24V DC I/O ONLY
2. C-718 OR C-719 ARE TERMINATED AT ONE END ONLY
 AND ARE APPLICATION DEPENDENT.
 C-718 IS SHIELDED FOR HIGH SPEED PULSE SIGNALS.
 C-719 IS NOT SHIELDED - FOR USE WITH 24V DC I/O ONLY.

DATE	SYM	REVISION RECORD	DR	CK	CK
13JUN03	M	PER ECN 06-181	EB		



⚠ CONNECTIONS FOR DELTA DRIVE AND DELTA XP



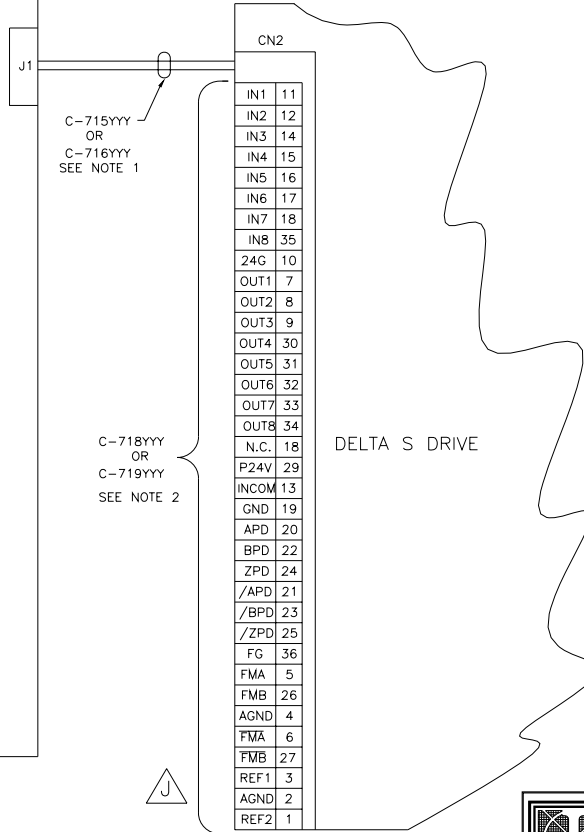
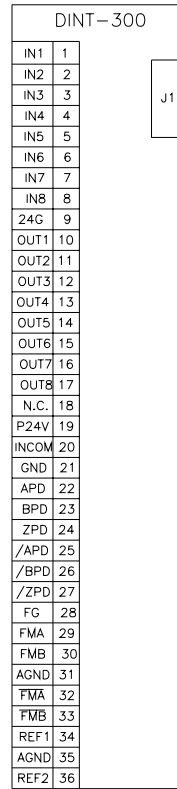
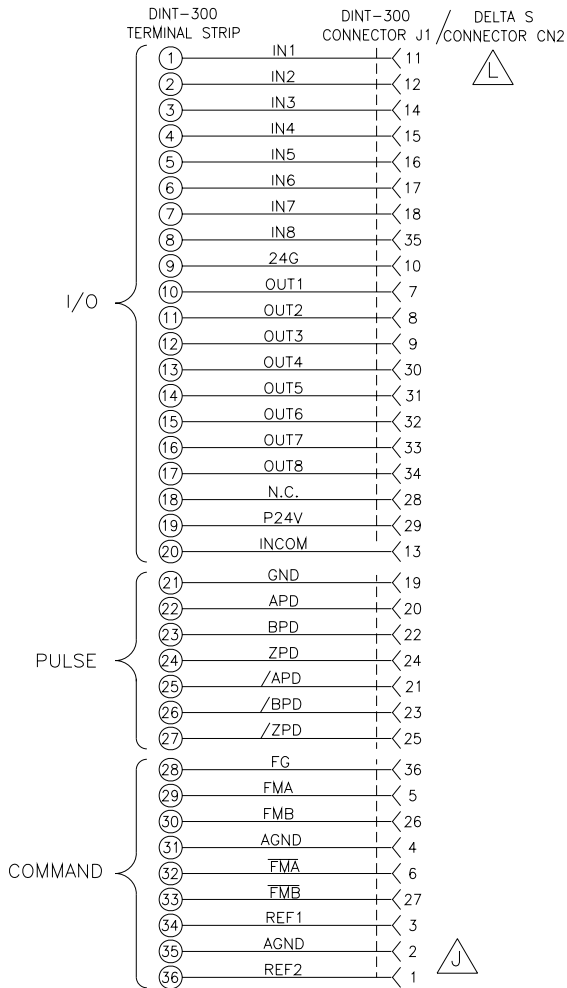
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TITLE					
DELTA SERIES TO DINT-300 SIGNALS					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BAIER		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION		DINT-300	
X.X± ---	ANGULAR	Q:\CURRENT DWGS		SHEET NO.	
X.XX± 0.01	± 0'30"	DATE 08APR96		SCALE NTS	
X.XXX± 0.005		DATE 08APR96		SHEET NO. 3 OF 5	
		DATE 08APR96		REVISION M	

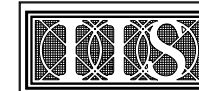
NOTES:

1. C-715 OR C-716 ARE APPLICATION DEPENDENT.
C-715 IS SHIELDED FOR HIGH SPEED PULSE SIGNALS.
C-716 IS NOT SHIELDED FOR USE WITH 24V DC I/O ONLY
2. C-718 OR C-719 ARE TERMINATED AT ONE END ONLY AND ARE APPLICATION DEPENDENT.
C-718 IS SHIELDED FOR HIGH SPEED PULSE SIGNALS.
C-719 IS NOT SHIELDED FOR USE WITH 24V DC I/O ONLY.

DATE	SYM	REVISION RECORD	DR	CK	CK
13JUN03	M	PER ECN 06-181	EB		



CONNECTIONS FOR DELTA S DRIVE



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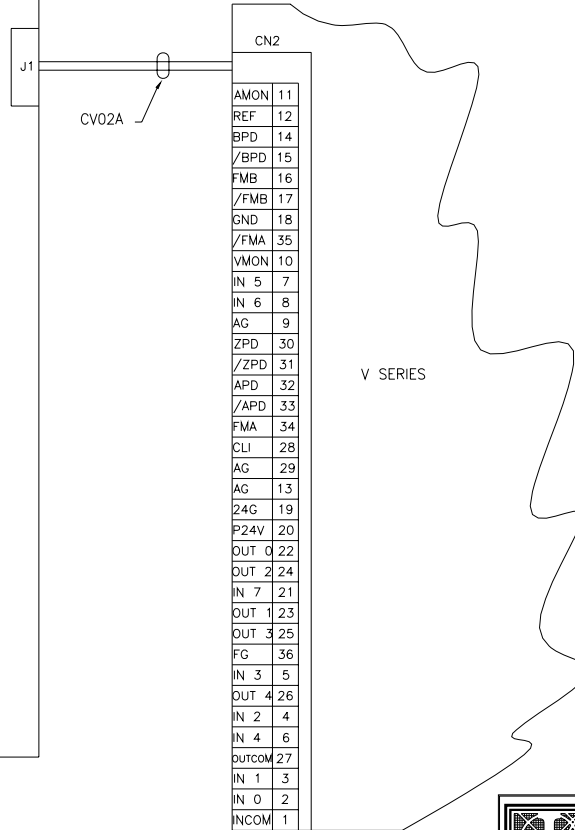
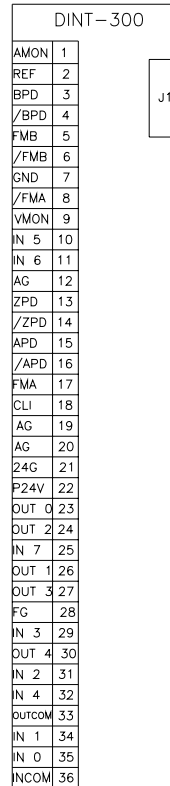
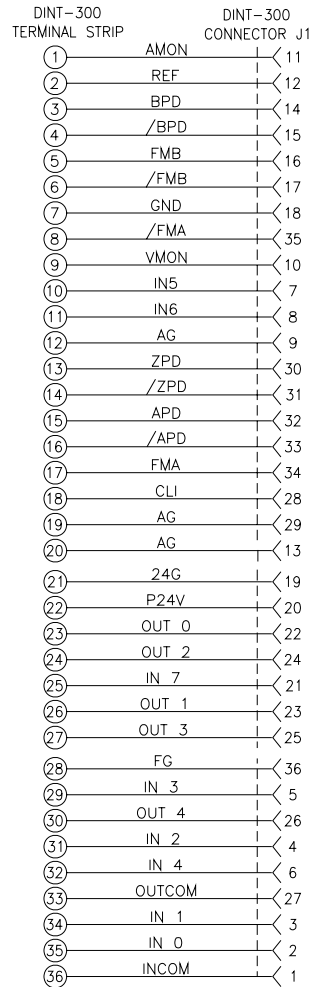
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TITLE					
DELTA SERIES TO DINT-300 SIGNALS					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BAIER		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION		DINT-300	
X.X ± ---	ANGULAR	Q:\CURRENT DWGS			
X.XX ± 0.01	± 0°30'	B	DATE	SCALE	SHEET NO.
X.XXX ± 0.005			08APR96	NTS	4 OF 5


NOTES:

- USE CABLE CV02A

DATE	SYM	REVISION RECORD	DR	CK	CK
13JUN03	M	PER ECN 06-181	CD		



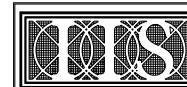
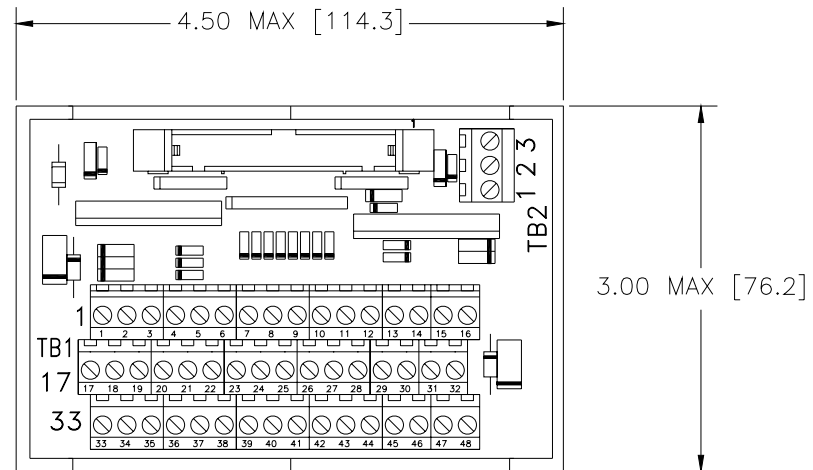
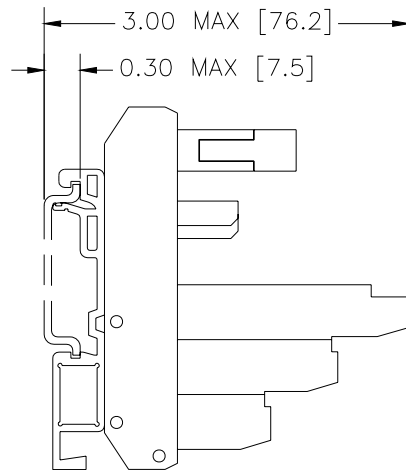
CONNECTIONS FOR TOSHIBA V SERIES

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TITLE			
V SERIES TO DINT-300 SIGNALS			
<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)</small>	DRAWN BY BAIER		DRAWING NUMBER
	AutoCAD FILE LOCATION Q:\CURRENT DWGS		DINT-300
<small>TOLERANCES</small> X.X± 0.01 X.XXX± 0.005	<small>ANGULAR</small> ± 0°30'	DATE 08APR96 SCALE NTS	SHEET NO. 5 OF 5 REVISION M

DATE	SYM	REVISION RECORD	DR	CK	CK
01SEP05	B	PER ECN 05-296	CWB		

NOTES:

- 1) CONNECTION CABLE SUPPLIED SEPARATELY.
- 2) OPERATING TEMPERATURE RANGE: 0 TO 50°C NON-CONDENSING.



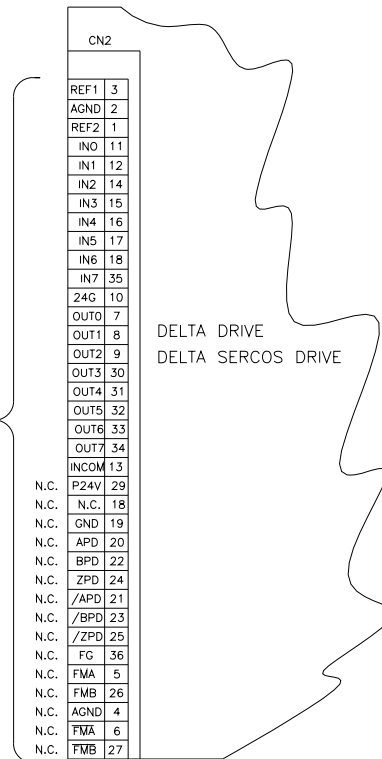
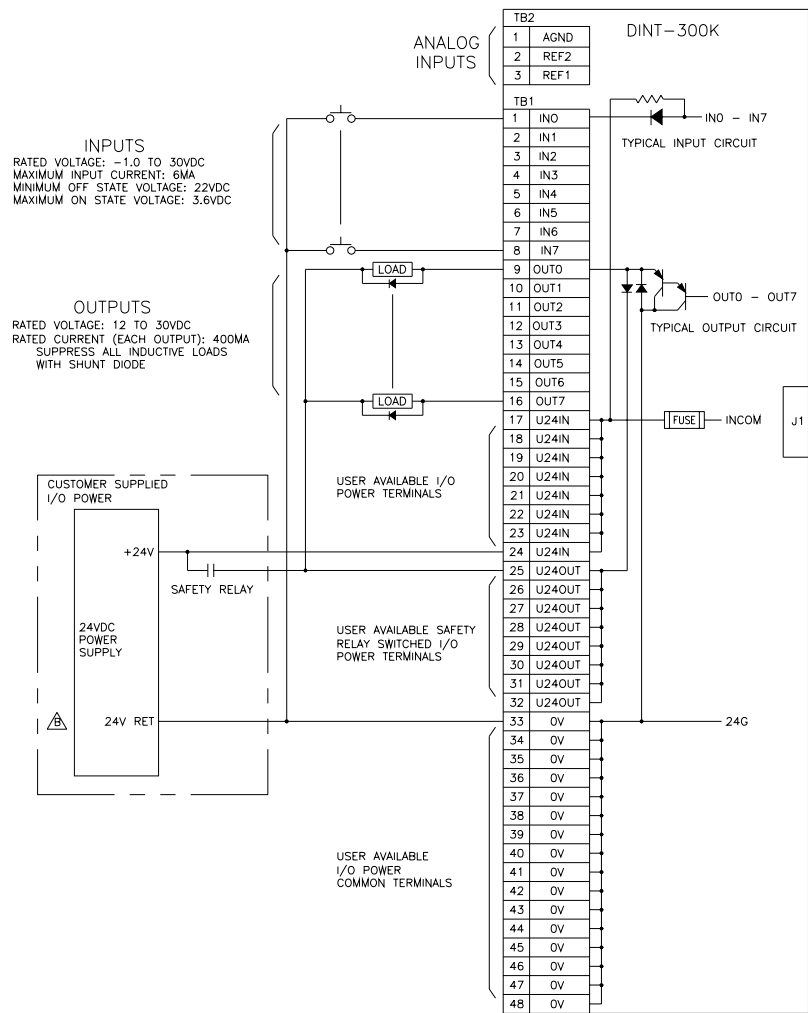
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TITLE					
DELTA/DELTA S SINKING I/O ADAPTOR					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY		DRAWING NUMBER	
		BAIER		DINT-300K	
TOLERANCES		AutoCAD FILE LOCATION			
X.X± ---	ANGULAR	Q:\CURRENT DWGS			
X.XX± ---	± --	DATE		SHEET NO.	
X.XXX± ---		B 21OCT02		1 OF 2	
		SCALE		REVISION	
		NTS		B	

DATE	SYM	REVISION RECORD	DR	CK	CK
01SEP05	B	PER ECN 05-296	CWB		



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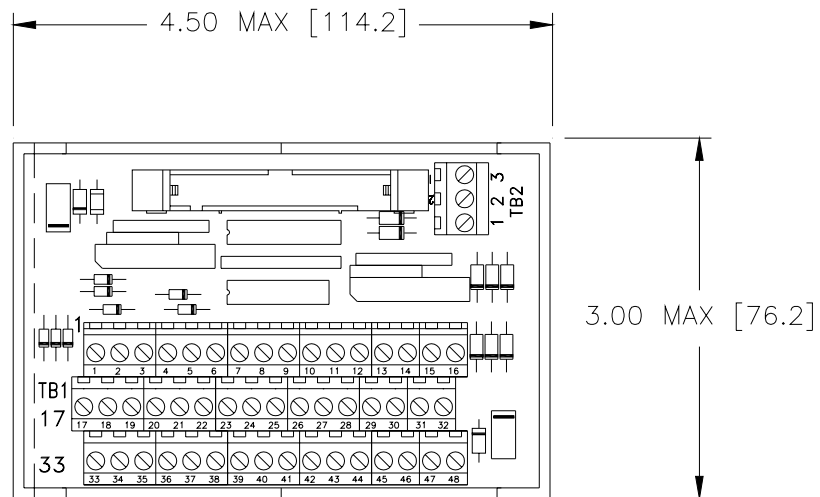
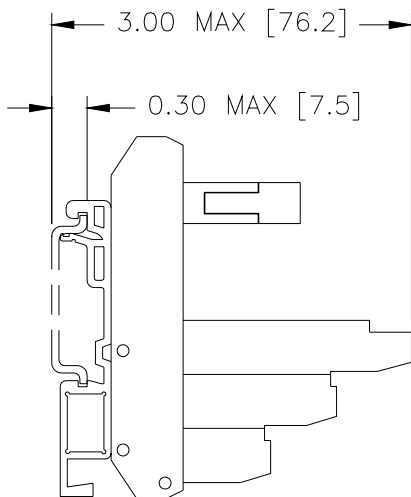
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TITLE					
DELTA/DELTA S SINKING I/O ADAPTOR					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BAIER		DRAWING NUMBER		
TOLERANCES	AutoCAD FILE LOCATION		DINT-300K		
X.X± ---	ANGULAR	Q:\CURRENT DWGS			
X.XX± ---	± ---	DATE	SCALE	SHEET NO.	REVISION
X.XXX± ---		B 21OCT02	---	2 OF 2	B

DATE	SYM	REVISION RECORD	DR	CK	CK
22AUG03	C	PER ECN 03-358	CWB		

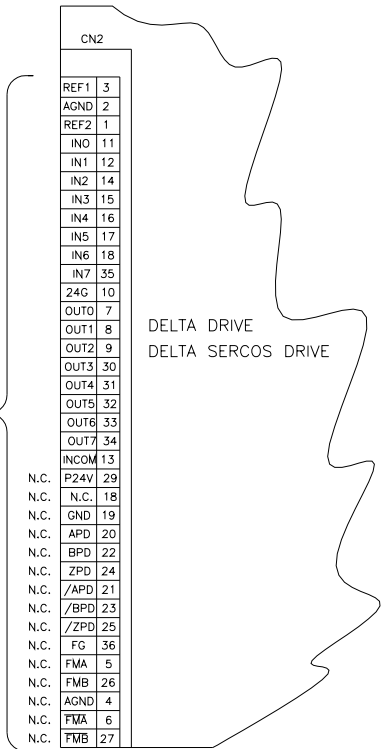
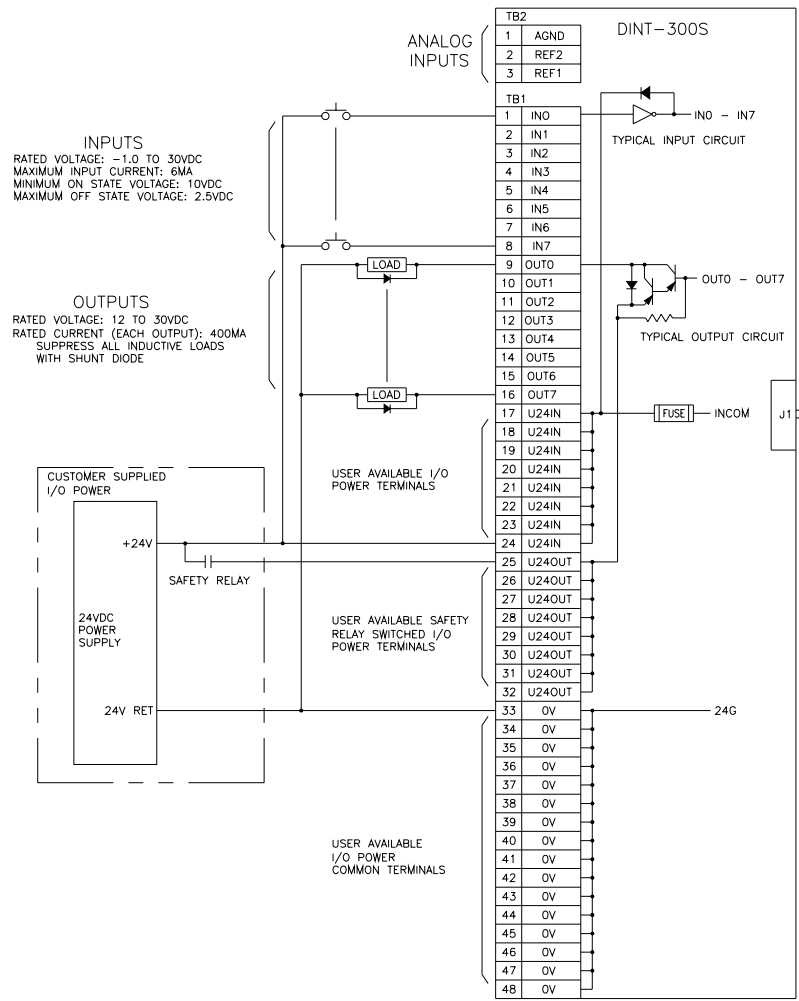
NOTES:

- 1) CONNECTION CABLE SUPPLIED SEPARATELY.
- 2) OPERATING TEMPERATURE RANGE: 0 TO 50°C NON-CONDENSING.



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TITLE DELTA/DELTA S SOURCING I/O ADAPTOR			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BAIER	DRAWING NUMBER DINT-300S
TOLERANCES		Autocad FILE LOCATION O:\CURRENT DWGS	
X.X ± .01	ANGULAR ± 0°30'	DATE 08MAY02	SCALE NTS
X.XXX ± 0.005		SHEET NO. 1 OF 2	REVISION C

DATE	SYM	REVISION RECORD	DR	CK	CK
22AUG03	C	PER ECN 03-358	CWB		



INPUTS
 RATED VOLTAGE: -1.0 TO 30VDC
 MAXIMUM INPUT CURRENT: 6mA
 MINIMUM ON STATE VOLTAGE: 10VDC
 MAXIMUM OFF STATE VOLTAGE: 2.5VDC

OUTPUTS
 RATED VOLTAGE: 12 TO 30VDC
 RATED CURRENT (EACH OUTPUT): 400mA
 SUPPRESS ALL INDUCTIVE LOADS WITH SHUNT DIODE

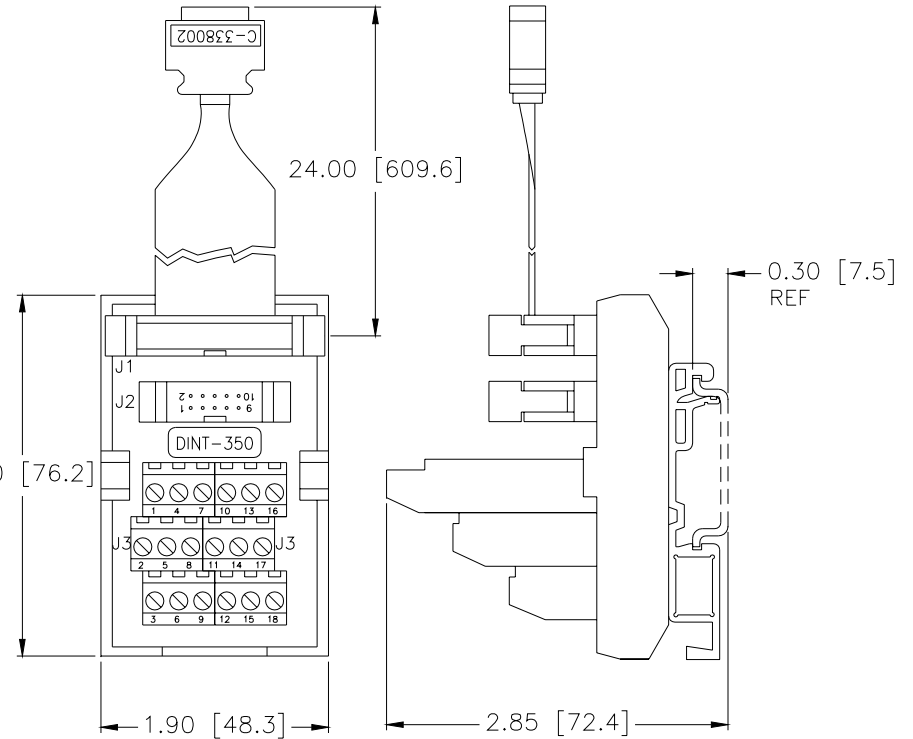
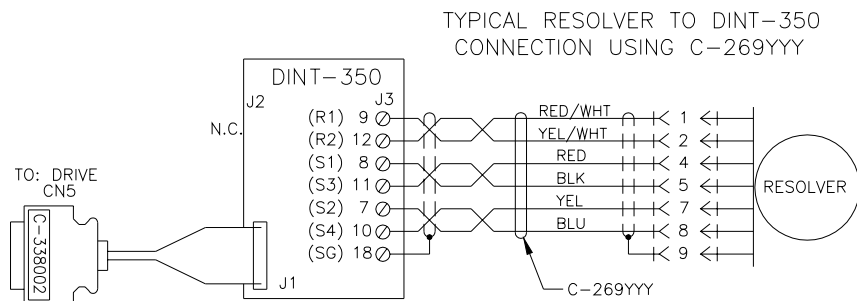
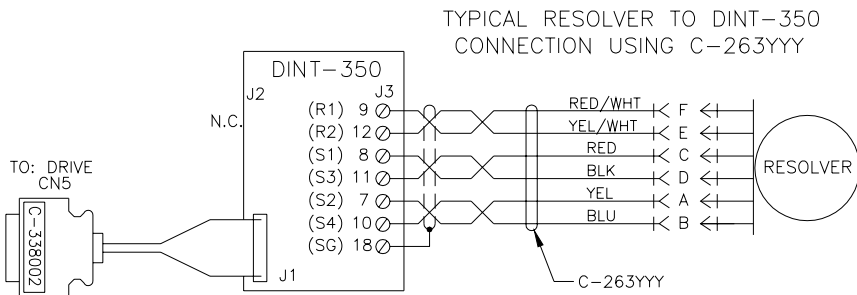
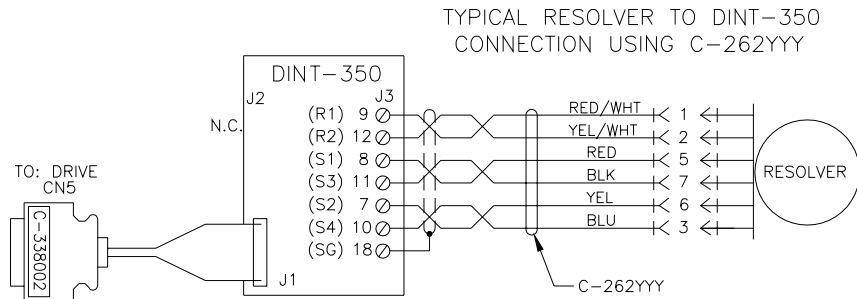


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TITLE					
DELTA/DELTA S SOURCING I/O ADAPTOR					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BAIER		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION		DINT-300S	
X.X± ---	ANGULAR	Q:\CURRENT DWGS			
X.XX± ----	± ---	DATE	SCALE	SHEET NO.	REVISION
X.XXX± ----		B 08MAY02	---	2 OF 2	C

DATE	SYM	REVISION RECORD	DR	CK	CK
27MAY04	N	PER ECN 04-220	CWB		



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TOLERANCES		AutoCAD FILE LOCATION		DRAWING NUMBER	
X.X ± --	ANGULAR	Q\CURRENT	DWGS	DINT-350	
X.XX ± 0.01	± 0'30"	DATE	SCALE	SHEET NO.	REVISION
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INTERFACE ASSEMBLY

DRAWN BY BOWMAN

Q\CURRENT DWGS

DATE 25FEB98

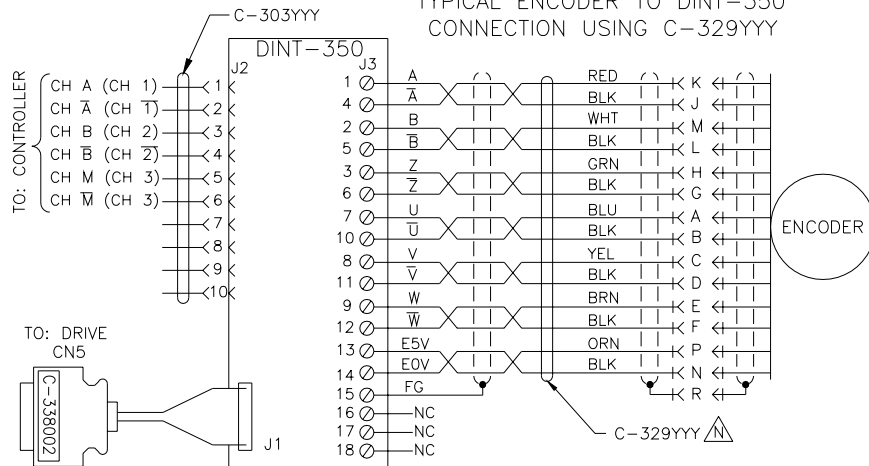
SCALE NTS

SHEET NO. 1 OF 3

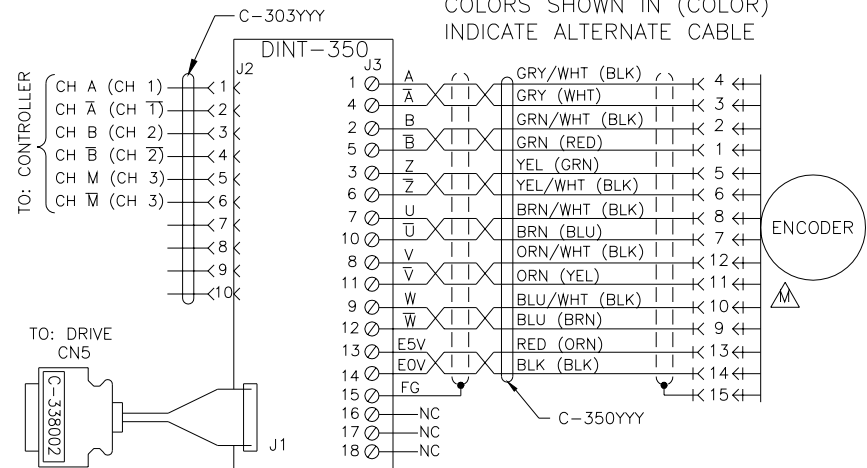
REVISION N

DATE	SYM	REVISION RECORD	DR	CK	CK
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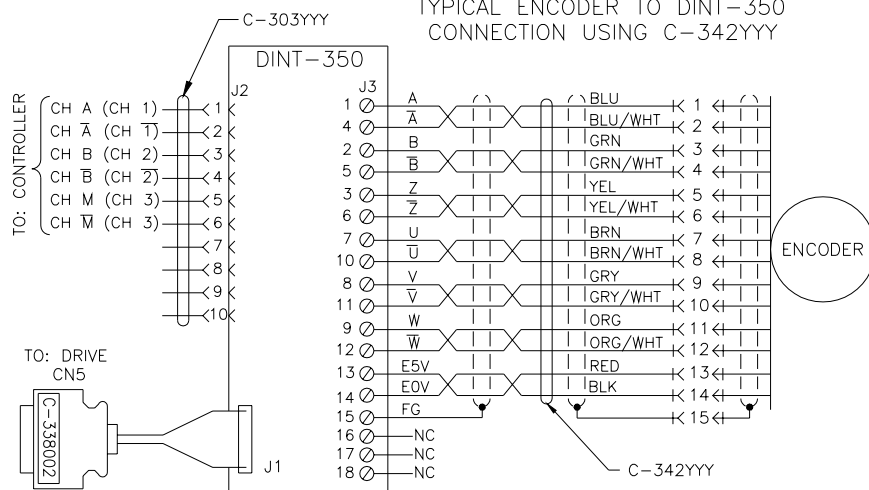
TYPICAL ENCODER TO DINT-350
CONNECTION USING C-329YYY




TYPICAL ENCODER TO DINT-350
CONNECTION USING C-350YYY
COLORS SHOWN IN (COLOR)
INDICATE ALTERNATE CABLE



TYPICAL ENCODER TO DINT-350
CONNECTION USING C-342YYY





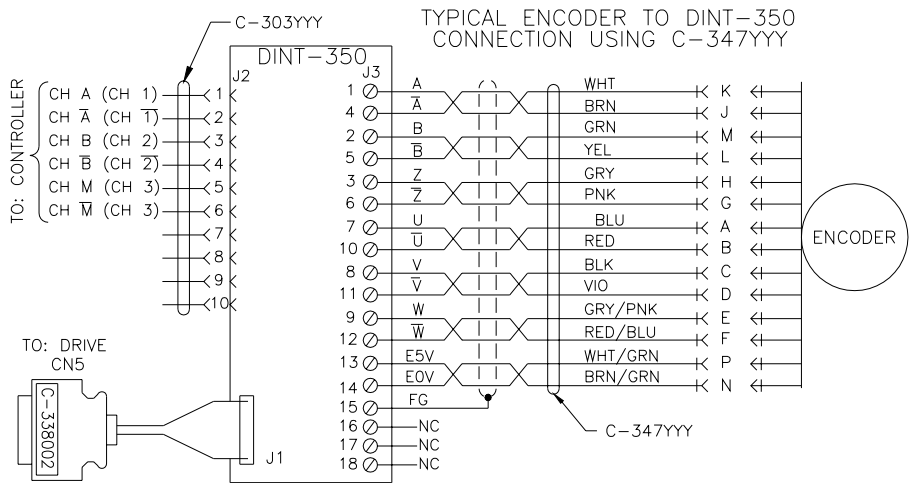
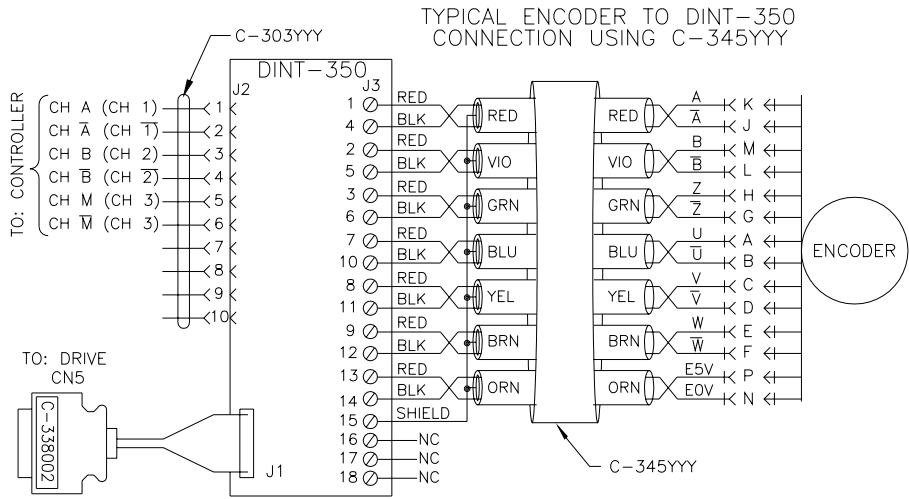
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TITLE					
INTERFACE ASSEMBLY					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY		DRAWING NUMBER	
		BOWMAN			
TOLERANCES			AutoCAD FILE LOCATION		
X.X ± 0.01	ANGULAR	Q \ CURRENT DWGS		DINT-350	
X.XXX ± 0.005	± 0°30'	DATE	SCALE	SHEET NO.	REVISION
		B 25FEB98	NTS	2 OF 3	N

DATE	SYM	REVISION RECORD	DR	CK	CK
27MAY04	N	PER ECN 04-220	CWB		

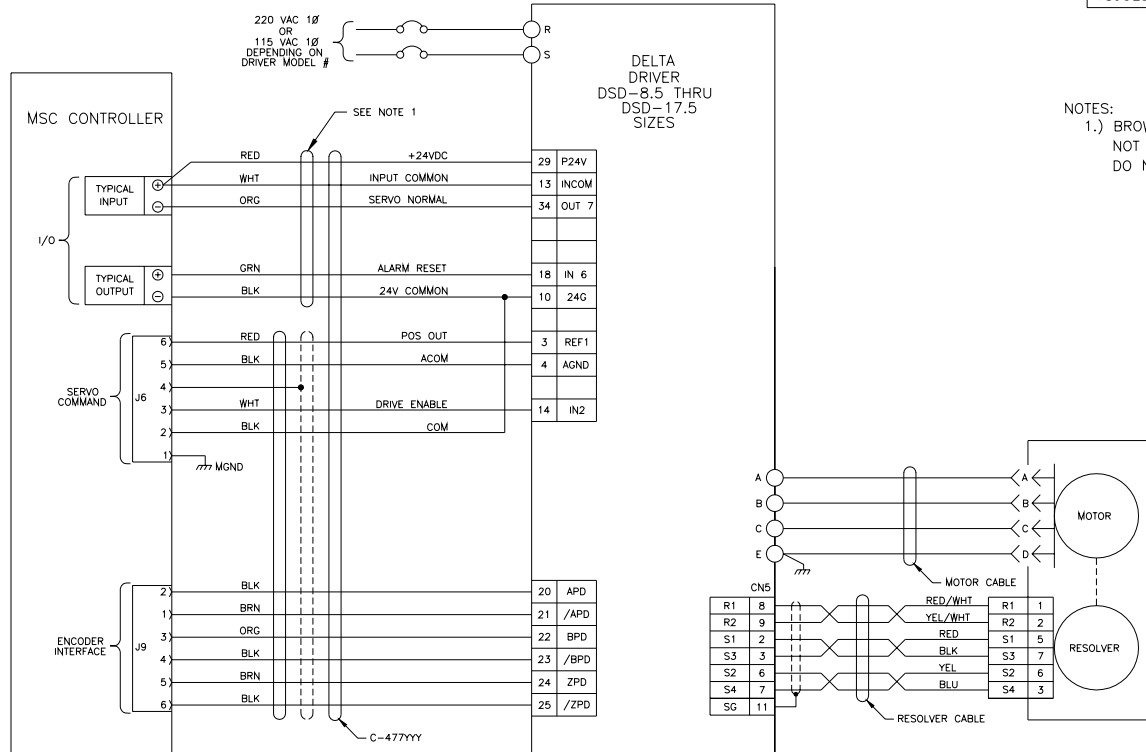


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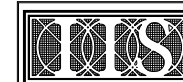
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TOLERANCES		AutoCAD FILE LOCATION		DINT-350	
X.X ± --	ANGULAR	O\CURRENT DWGS			
X.XX ± 0.01	± 0°30'	DATE		SCALE	SHEET NO.
X.XXX ± 0.005		B 25FEB98		NTS	3 OF 3
				REVISION	N

DATE	SYM	REVISION RECORD	DR	CK	CK
11APR97	0	PER ECN 97-106	CWB	ELS	
18JUL97	A	PER ECN 97-231	EB		



NOTES:
1.) BROWN, BLUE, VIOLET AND YELLOW WIRES ARE NOT USED AND SHOULD BE TERMINATED SO THEY DO NOT SHORT TO GROUND OR ANY OTHER CIRCUIT.

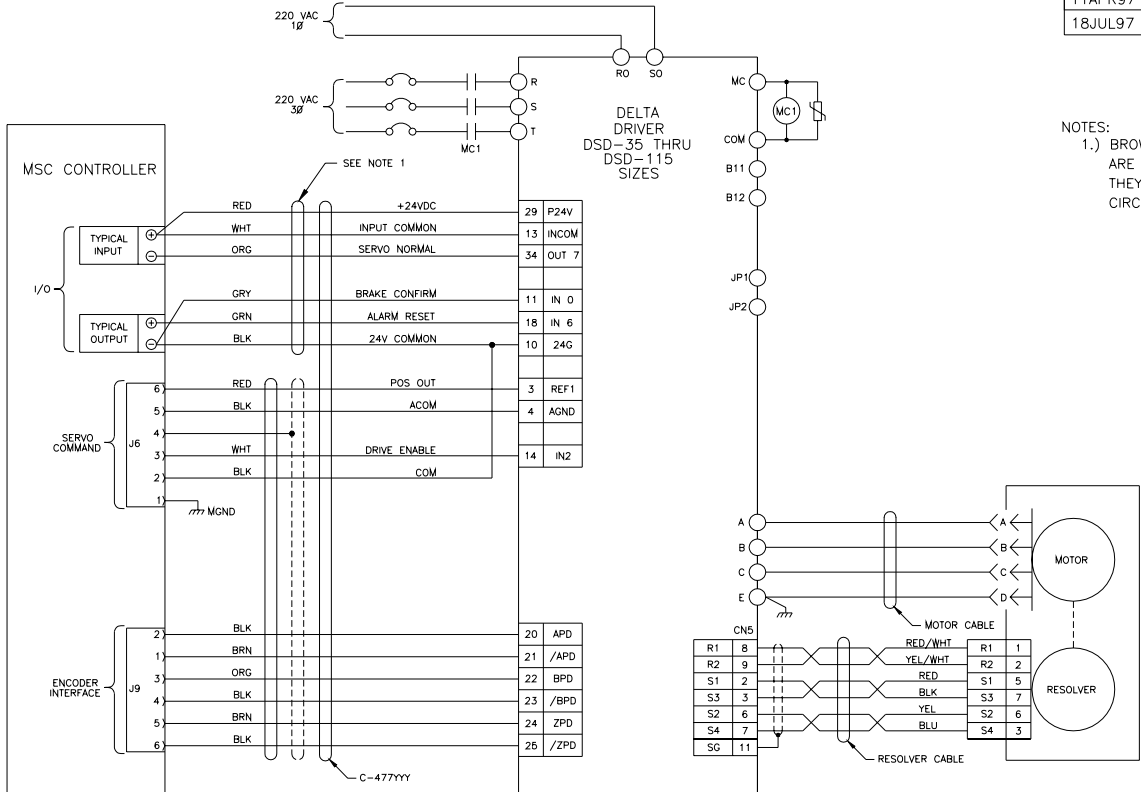


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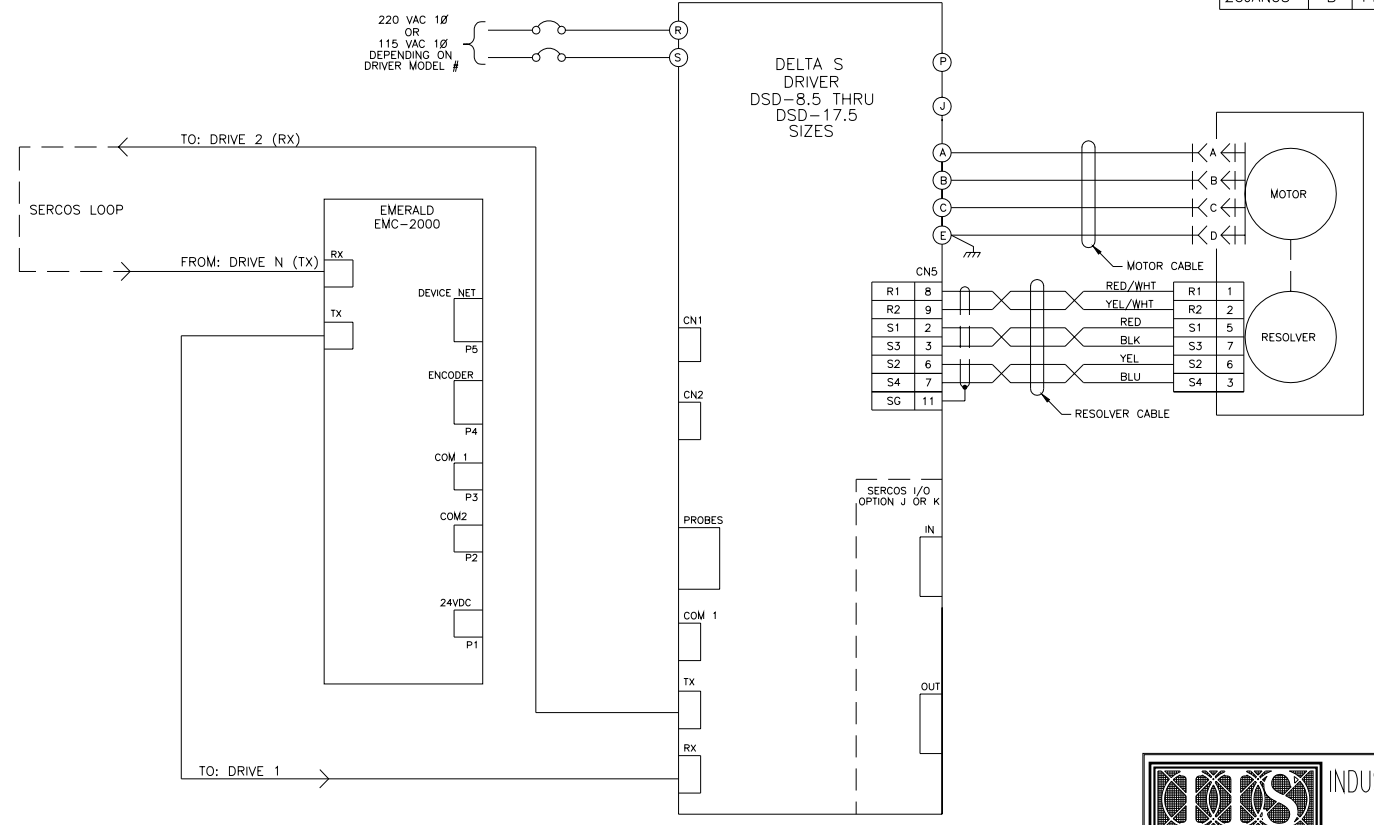
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APPROVED BY	DATE	TITLE INTERCONNECTION, DELTA DRIVE TO MSC FAMILY CONTROLLER			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER IC-065002		
FINISH	TOLERANCES X.XX± --- X.XXX± ---	ANGULAR ± ---	AutoCAD FILE LOCATION Q\CURRENT DWGS	SCALE NTS	SHEET NO. 1 OF 2
			DATE 11APR97		REVISION A

DATE	SYM	REVISION RECORD	DR	CK	CK
11APR97	0	PER ECN 97-106	CWB	JC	
18JUL97	A	PER ECN 97-231	EB		



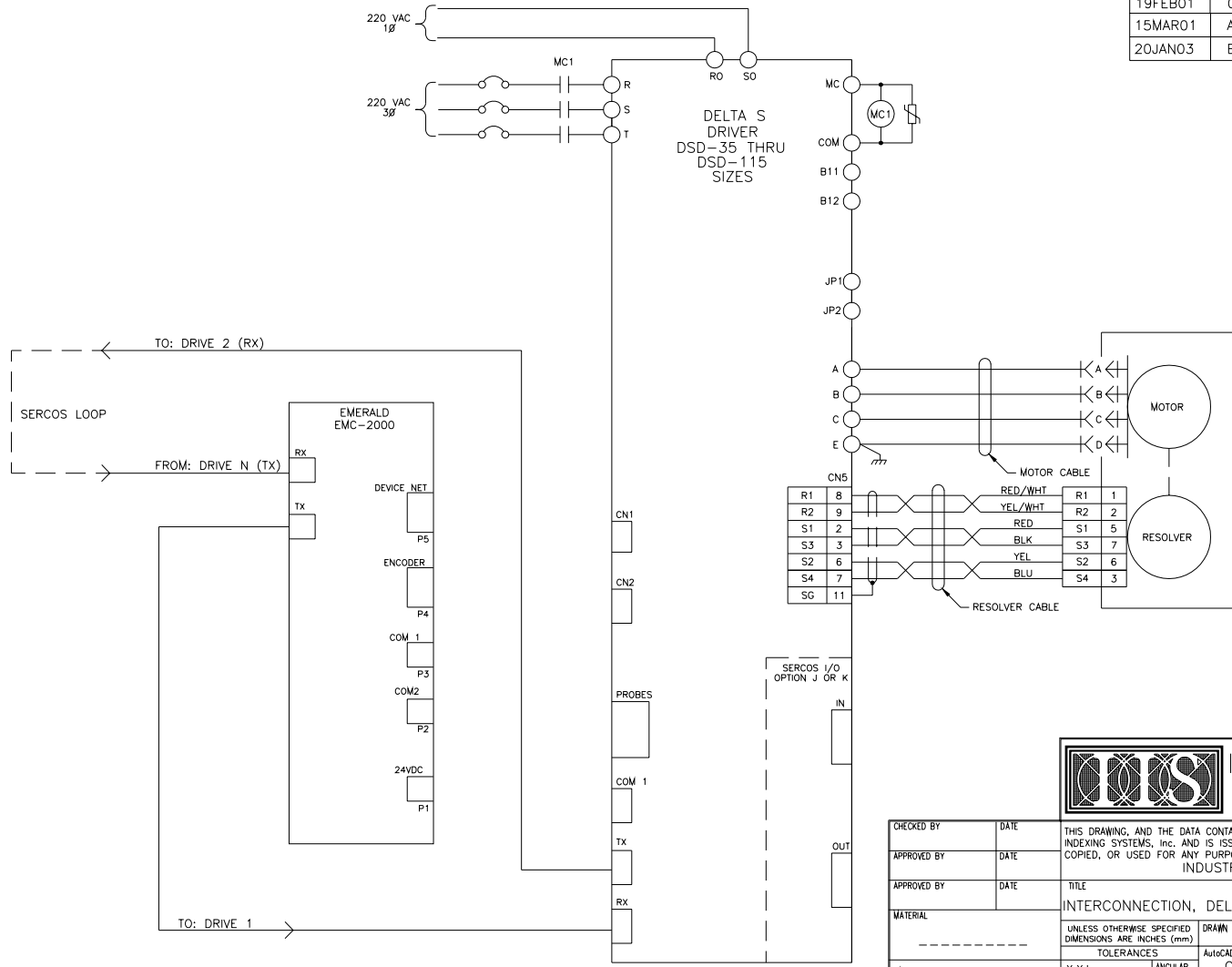
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APPROVED BY	DATE	TITLE INTERCONNECTION, DELTA DRIVE TO MSC FAMILY CONTROLLER			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER IC-065002		
FINISH	TOLERANCES X.X± --- X.XX± --- X.XXX± ---	ANGULAR ± ---	AutoCAD FILE LOCATION Q\CURRENT DWGS	SCALE NTS	SHEET NO. 2 OF 2
			DATE 11APR97	REVISION A	

DATE	SYM	REVISION RECORD	DR	CK	CK
19FEB01	0	PER ECN 01-071	CWB	JWC	
15MAR01	A	PER ECN 01-107	CWB	WES	
20JAN03	B	PER ECN 02-327	CWB		



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APPROVED BY	DATE	TITLE			
APPROVED BY	DATE	INTERCONNECTION, DELTA S DRIVE TO EMERALD CONTROLLER			
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
	TOLERANCES	BOWMAN	IC-066000		
FINISH	X.X± ---	AutocAD FILE LOCATION	Q:\CURRENT DWGS		
	X.XX± ---	DATE	SCALE	SHEET NO.	REVISION
	X.XXX± ---	B 19FEB01	---	1 OF 3	B

DATE	SYM	REVISION RECORD	DR	CK	CK
19FEB01	0	PER ECN 01-107	CWB	JWC	
15MAR01	A	PER ECN 01-107	CWB	WES	
20JAN03	B	PER ECN 02-327	CWB		

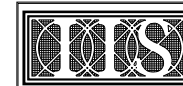
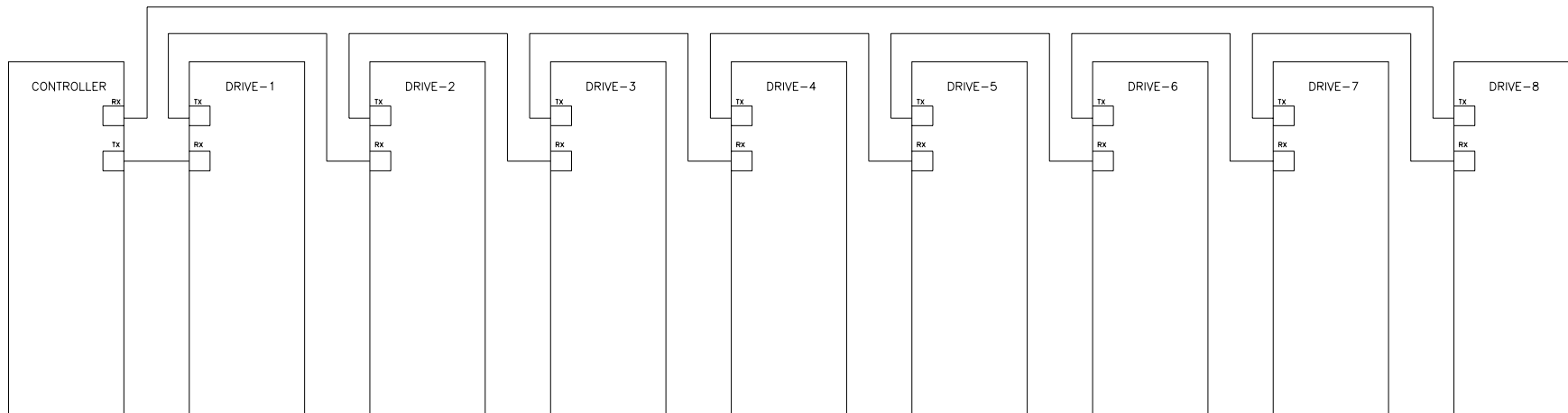


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	TOLERANCES	BOWMAN	IC-066000		
FINISH	X.X± ---	AutocAD FILE LOCATION	Q:\CURRENT DWGS		
	X.XX± ---	DATE	SCALE	SHEET NO.	REVISION
	X.XXX± ---	B 19FEB01	---	2 OF 3	B

DATE	SYM	REVISION RECORD	DR	CK	CK
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MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER		
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	X.XXX± ---	DATE	SCALE	SHEET NO.	REVISION
		B 19FEB01	---	3 OF 3	B