

DO NOT
SCALE FROM
THIS PRINT

TABLE 3		
No. OF POSITIONS	N	N-1
-016	52	51
-032	104	103
-048	156	155
-064	208	207

TABLE 1								
No. OF POSITIONS	WIRING OPTION	"A"	"B"	QDP-XX-01	QDP-XX-02	QTY OF SUB-TTF	SUB-6QDPX-X-XXX-XX-XX	SUB-TTF-3010XX-XX-XX-XX-XX
-016	*-1, *-2, *-3, *-4 -5, -6, -7, -8	1.290 [32.77] 1.290 [32.77]	1.190 [30.23] 1.190 [30.23]	QDP-01-01 QDP-01-01	QDP-01-02 QDP-01-02	2 2	SUB-6QDPX-X-016-XX-XX SUB-6QDPX-X-016-XX-XX	SUB-TTF-3010XX-01-XX-XX SUB-TTF-3010XX-01-XX-XX
-032	*-1, *-2, *-3, *-4 -5, -6, -7, -8	2.130 [54.10] 2.130 [54.10]	2.030 [51.56] 2.030 [51.56]	QDP-02-01 QDP-02-01	QDP-02-02 QDP-02-02	4 4	SUB-6QDPX-X-032-XX-XX SUB-6QDPX-X-032-XX-XX	SUB-TTF-3010XX-01-XX-XX SUB-TTF-3010XX-01-XX-XX
-048	*-1, *-2, *-3, *-4 -5, -6, -7, -8	2.970 [75.44] 2.970 [75.44]	2.870 [72.90] 2.870 [72.90]	QDP-03-01 QDP-03-01	QDP-03-02 QDP-03-02	6 6	SUB-6QDPX-X-048-XX-XX SUB-6QDPX-X-048-XX-XX	SUB-TTF-3010XX-01-XX-XX SUB-TTF-3010XX-01-XX-XX
-064	*-1, *-2, *-3, *-4 -5, -6, -7, -8	3.810 [96.77] 3.810 [96.77]	3.710 [94.23] 3.710 [94.23]	QDP-04-01 QDP-04-01	QDP-04-02 QDP-04-02	8 8	SUB-6QDPX-X-064-XX-XX SUB-6QDPX-X-064-XX-XX	SUB-TTF-3010XX-01-XX-XX SUB-TTF-3010XX-01-XX-XX

NOTES:

1. (C) REPRESENTS A CRITICAL DIMENSION.

2. SUB-TTF LENGTH IS EQUAL TO 6QDPS LENGTH.

3. ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED FOR SHORTS AND OPENS.

4. ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V.

5. TOP SUB-TTF NOT SHOWN IN THIS VIEW FOR CLARITY; HDRL-11 TO BE CENTERED ON LOWER SUB-TTF AS SHOWN; HDRL-11 IS TO CONTAIN:

LINE 1 - PART NUMBER "6QDPS-XXX-XX.X-XXX-XXX-X-X"

LINE 2 - SHOP NUMBER "XXXXXX"

LINE 3 - DATE CODE "XXXXXX"

6. PACKAGE ASSEMBLIES IN STATIC DISSIPATION BAGS.

7. THESE TERMINALS ARE NOT CONSIDERED IN THE NUMBER OF POSITIONS IN THE CALLOUT BECAUSE THEY ARE GROUNDED.

8. PARTS TO BE PROCESSED PER SAMTEC ACCEPTABILITY

REQUIREMENTS: HDR-PI-01 "CABLE WORKMANSHIP STANDARDS".

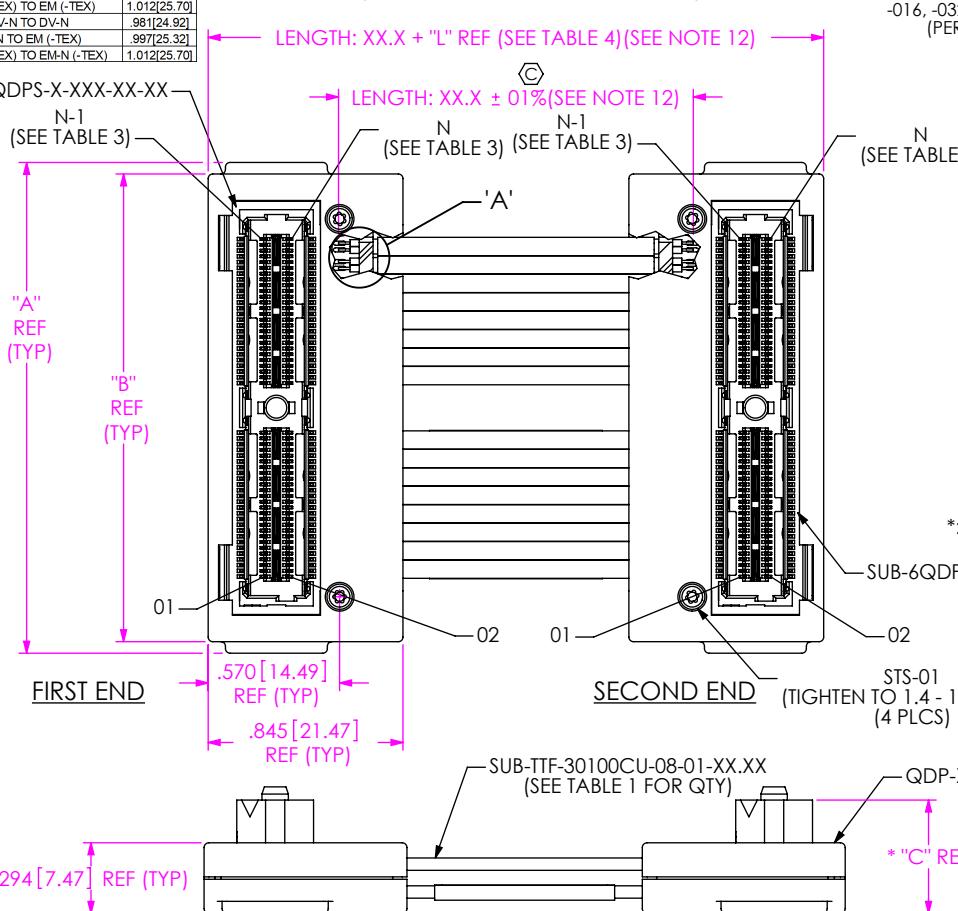
9. CABLE LENGTHS LONGER THAN 40.00 INCHES ARE NOT SUPPORTED BY S.I. TEST DATA.

10. WIRING OPTION -5 THROUGH -8 USE 30100CU.

11. REFER TO PREP-SPEC DOCUMENT FOR CABLE PREP DIMENSIONS. ASSEMBLY USES STANDARD PCB PREP.

12. FOR CABLE LENGTHS LESS THAN 5 INCHES, CABLE LENGTH AND OVERALL LENGTH TOLERANCE IS ± 0.05 INCHES. FOR CABLE LENGTHS GREATER THAN 5 INCHES, USE $\pm 1\%$ FOR BOTH.

TABLE 4	
END TO END	"L"
DV TO DV	1.121[28.47]
DV TO EM (-TEX)	1.067[27.09]
EM (-TEX) TO EM (-TEX)	1.012[25.70]
DV-N TO DV-N	.981[24.92]
DV-N TO EM (-TEX)	.997[25.32]
EM-N (-TEX) TO EM-N (-TEX)	1.012[25.70]

FIG 1
VERTICAL
(6QDPS-032-XX.X-STR-STR-5 SHOWN)

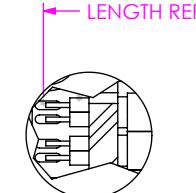
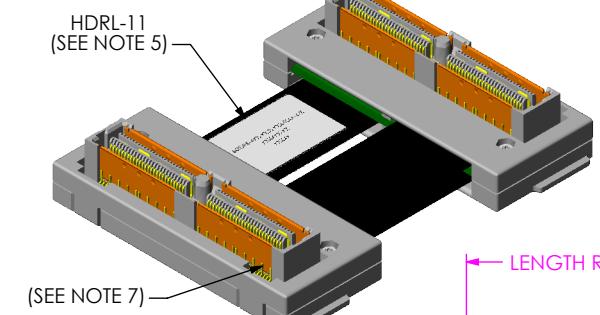
6QDPS-XXX-XX.X-XXX-XXX-X-X

No OF POSITIONS
-016, -032, -048, -064
(PER ROW)LENGTH
-XX.X (INCHES)
(1.72 [43.7] MIN)
(SEE NOTE 2)
(SEE NOTE 9)

FIRST END

- TTR: TERMINAL, TOP, RIGHT
- TTL: TERMINAL, TOP, LEFT
- TBR: TERMINAL, BOTTOM, RIGHT
- TBL: TERMINAL, BOTTOM, LEFT
- STR: SOCKET, TOP, RIGHT
- STL: SOCKET, TOP, LEFT
- SBR: SOCKET, BOTTOM, RIGHT
- SBL: SOCKET, BOTTOM, LEFT
(SEE TABLE 1 & SHEET 2)
- TEU: TERMINAL, EDGE MOUNT, UP
- TED: TERMINAL, EDGE MOUNT, DOWN
(SEE TABLE 5 & SHEET 4)

*: AVAILABLE TO EXISTING CUSTOMERS ONLY

SUB-6QDPS-X-XXX-XX-XX
STS-01
(TIGHTEN TO 1.4 - 1.7 IN-LBS
(4 PLCS)QDP-XX-01
* "C" REF
QDP-XX-02SUB-TTF-30100CU-08-01-XX.XX
(SEE TABLE 1 FOR QTY)THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSING

END	* "C"
-TXX	.444[11.28]
-SXX	.472[11.99]

* -DV END OPTIONS ONLY

TOLERANCES DO NOT APPLY
TO REFERENCE DIMENSIONS.
UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
DECIMALS ANGLES
XX: ± 0.01 [3]
XXX: $\pm .005$ [13]
XXXX: $\pm .0020$ [51]* PROPRIETARY NOTE
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MATERIAL: DO NOT SCALE DRAWING

SHEET SCALE: 1:25:1

PLATING:

-H GOLD: 30 μ CONTACT

F:\DWG\MISC\MKTG\6QDPS-XXX-XX.X-XXX-XXX-X-X-MKT.SLDDRW

samtec
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION: .635mm HIGH-SPEED TWIN-AX CABLE ASSEMBLY

DWG. NO.

6QDPS-XXX-XX.X-XXX-XXX-X-X

BY: BRATCHER 11/10/03

SHEET 1 OF 6

END OPTION
 -F: SCREW OPTION FIRST END ONLY
 -S: SCREW OPTION SECOND END ONLY
 -B: SCREW OPTION BOTH ENDS
 -N: NO CAPS
 (SEE FIG 3, SHEET 5 FOR EDGE MOUNT
END OPTIONS)
 (SEE FIG 4, SHEET 5 FOR DOUBLE
VERTICAL END OPTIONS)
 (SEE FIG 5, SHEET 5 FOR NO CAPS OPTIONS)
 (LEAVE BLANK FOR STANDARD CAPS
BOTH ENDS)

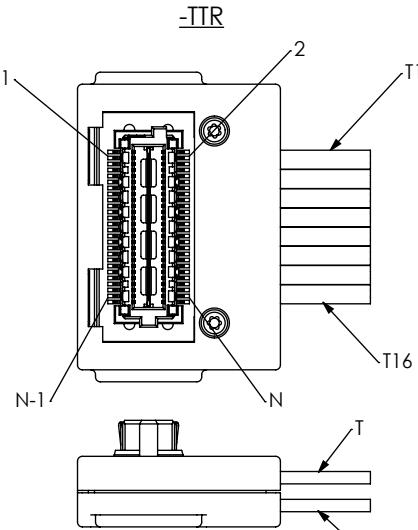
WIRING OPTION (SEE NOTE 10)
 *-1: PIN 1 TO PIN 1
 *-2: PIN 1 TO PIN 2
 *-3: PIN 1 TO PIN N-1
 *-4: PIN 1 TO PIN N
 *-5: PIN 1 TO PIN 1
 *-6: PIN 1 TO PIN 2
 *-7: PIN 1 TO PIN N-1
 *-8: PIN 1 TO PIN N
 (SEE TABLE 9, SHEET 6)

SECOND END
 -TTR: TERMINAL, TOP, RIGHT
 -TTL: TERMINAL, TOP, LEFT
 -TBR: TERMINAL, BOTTOM, RIGHT
 -TBL: TERMINAL, BOTTOM, LEFT
 -STR: SOCKET, TOP, RIGHT
 -STL: SOCKET, TOP, LEFT
 -SBR: SOCKET, BOTTOM, RIGHT
 -SBL: SOCKET, BOTTOM, LEFT
 (SEE TABLE 1 & SHEET 3)

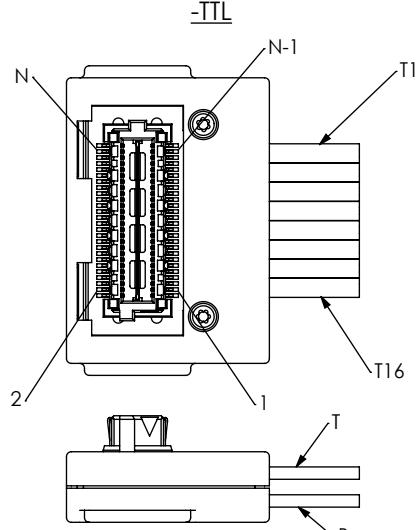
**TEU: TERMINAL, EDGE MOUNT, UP
-TED: TERMINAL, EDGE MOUNT, DOWN**
 (SEE TABLE 5 & SHEET 4)

TABLE 2
 END * "C"
 -TXX .444[11.28]
 -SXX .472[11.99]

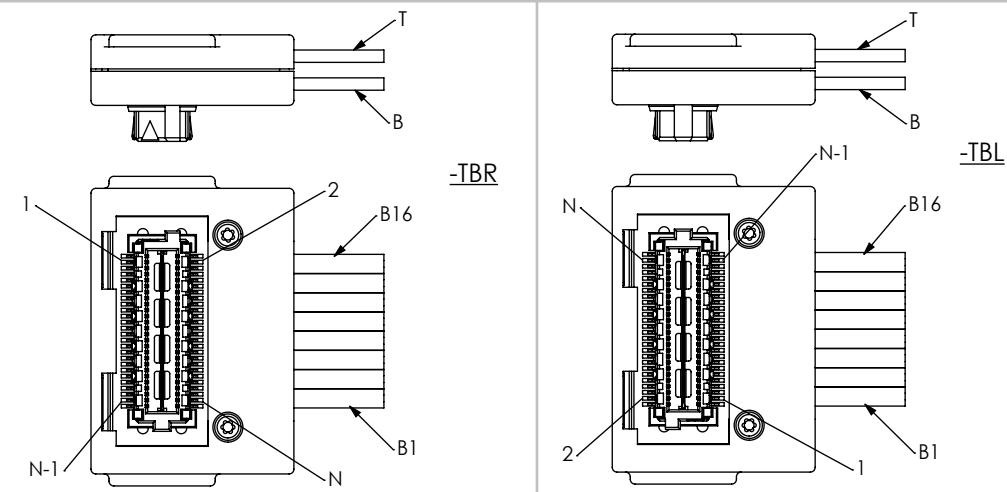
**DETAIL 'A'
SCALE 2.5 : 1**



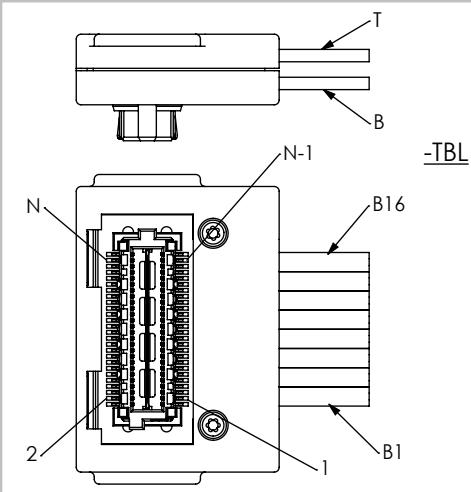
WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE NUMBER
1	1	1	B1
2	1	2	B1
3	1	N-1	B1
4	1	N	B1



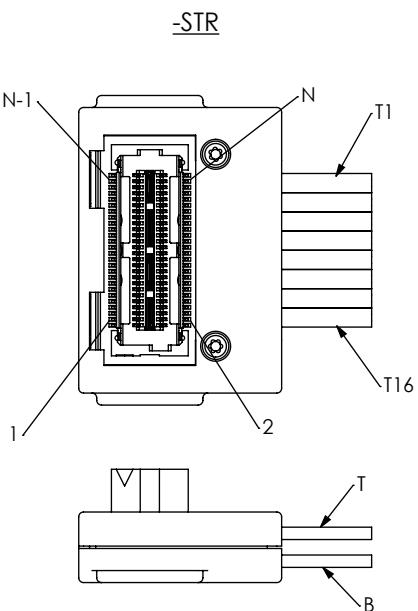
WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE NUMBER
1	1	1	T20
2	1	2	T20
3	1	N-1	T20
4	1	N	T20



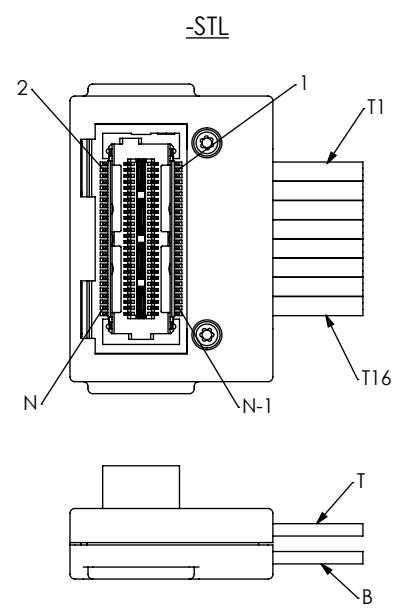
WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE NUMBER
1	1	1	T20
2	1	2	T20
3	1	N-1	T20
4	1	N	T20



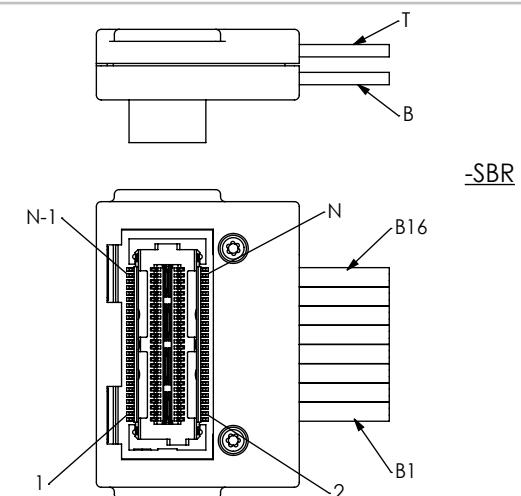
WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE NUMBER
1	1	1	B1
2	1	2	B1
3	1	N-1	B1
4	1	N	B1



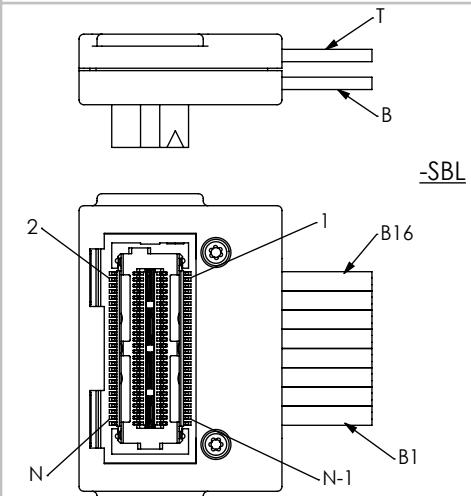
WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE NUMBER
1	1	1	B20
2	1	2	B20
3	1	N-1	B20
4	1	N	B20



WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE NUMBER
1	1	1	T1
2	1	2	T1
3	1	N-1	T1
4	1	N	T1



WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE NUMBER
1	1	1	T1
2	1	2	T1
3	1	N-1	T1
4	1	N	T1



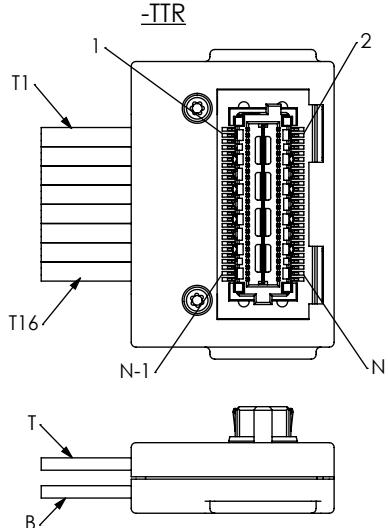
WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE NUMBER
1	1	1	B20
2	1	2	B20
3	1	N-1	B20
4	1	N	B20

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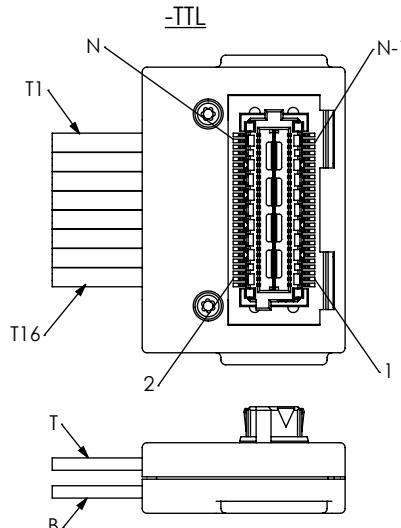
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REVISION Q

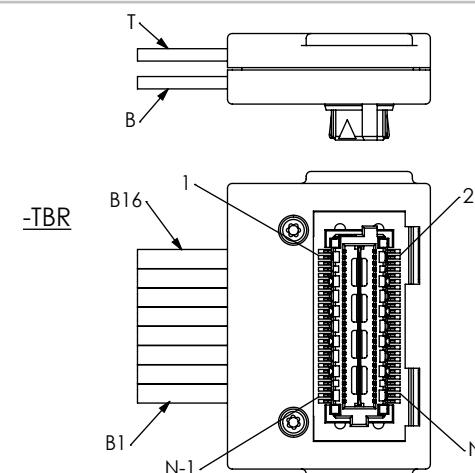
SECOND END - VERTICAL (SEE TABLE 9, SHEET 6)



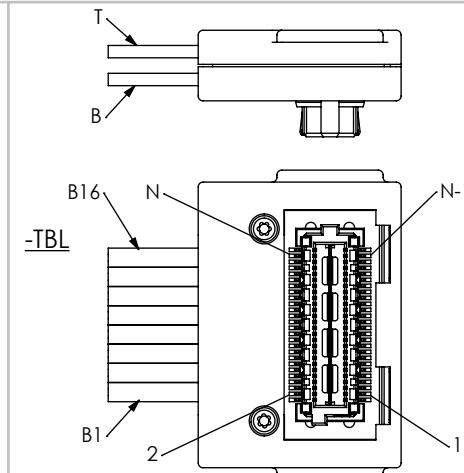
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N



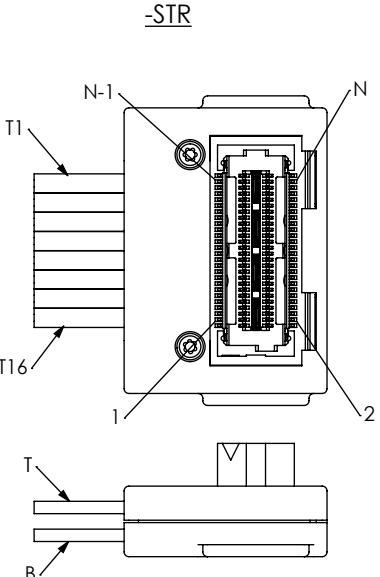
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N



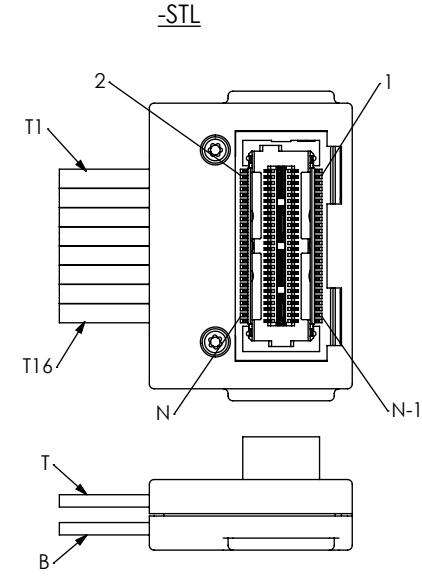
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N



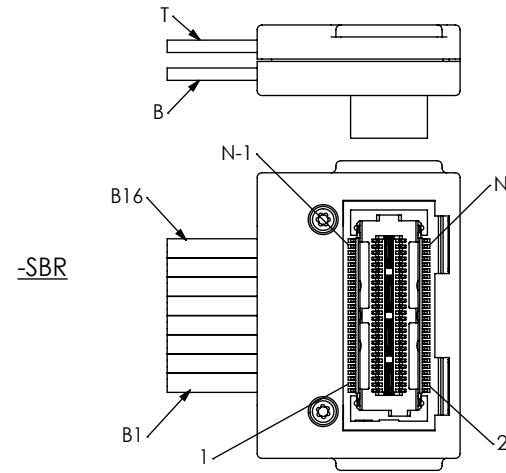
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N



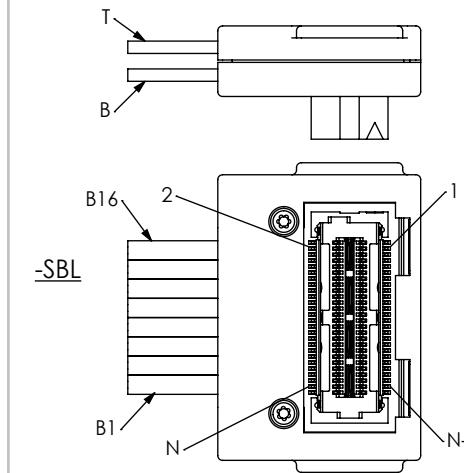
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N



WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N



WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N



WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N

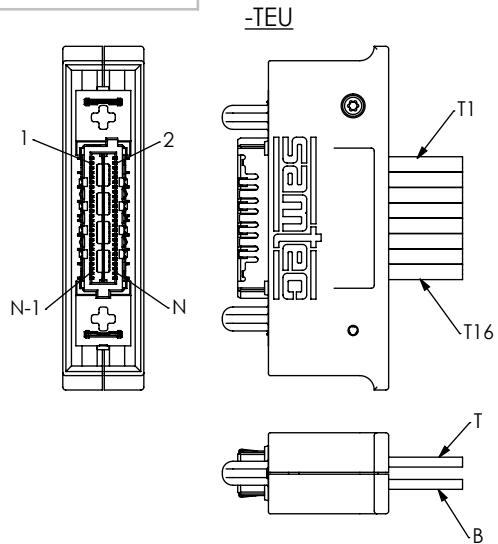
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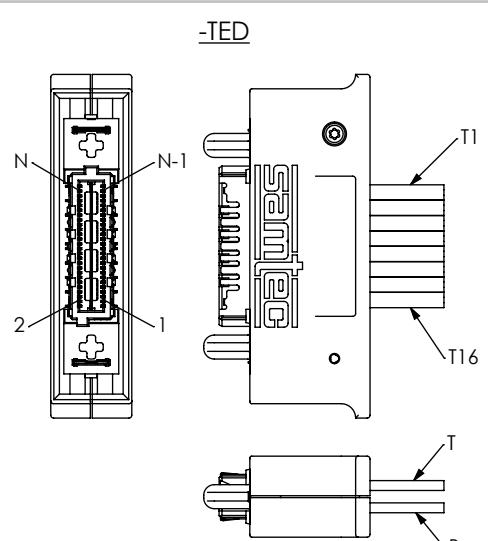
Samtec
 520 PARK EAST BLVD, NEW ALBANY, IN 47150
 PHONE: 812-944-6733 FAX: 812-948-5047
 e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION: .635mm HIGH-SPEED TWIN-AX CABLE ASSEMBLY
 DWG. NO. 6QDPS-XXX-XX.X-XXX-XXX-X-X
 BY: BRATCHER 11/10/03 SHEET 3 OF 6

FIRST END - EDGE MOUNT (SEE TABLE 9, SHEET 6)

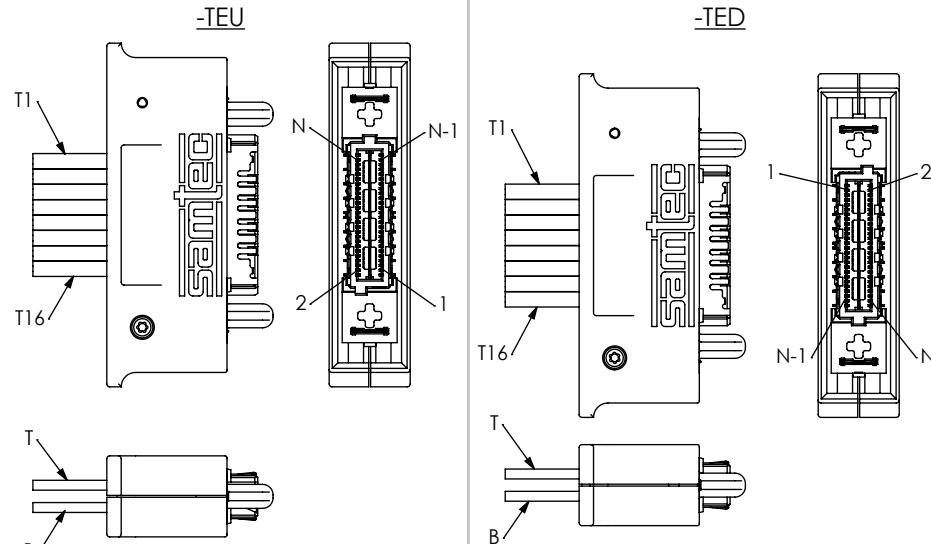


WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE #
1	1	1	B1
2	1	2	B1
3	1	N-1	B1
4	1	N	B1



WIRING OPTION	FIRST END PIN #	SECOND END PIN #	WIRE #
1	1	1	T20
2	1	2	T20
3	1	N-1	T20
4	1	N	T20

SECOND END - EDGE MOUNT (SEE TABLE 9, SHEET 6)



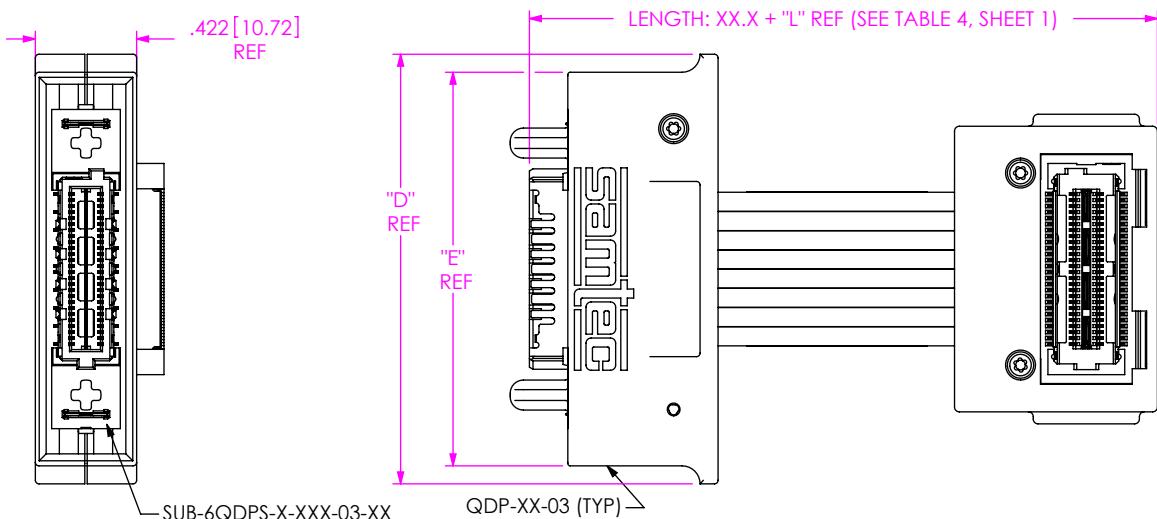
WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N

WIRING OPTION	FIRST END PIN #	SECOND END PIN #
1	1	1
2	1	2
3	1	N-1
4	1	N

FIG 2

EDGE MOUNT (NO CAPTIVE PANEL SCREWS)
(6QDPS-016-XX.X-TEU-STL-X SHOWN)
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

No. OF POSITIONS	"D"	"E"	QDP-XX-03	SUB-6QDPS-X-XXX-03-XX
-016	1.790 [45.47]	1.640 [41.66]	QDP-01-03	SUB-6QDPS-X-016-03-XX
-032	2.630 [66.80]	2.480 [62.99]	QDP-02-03	SUB-6QDPS-X-032-03-XX
-048	3.470 [88.14]	3.320 [84.33]	QDP-03-03	SUB-6QDPS-X-048-03-XX
-064	4.310 [109.47]	4.160 [105.66]	QDP-04-03	SUB-6QDPS-X-064-03-XX



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520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:
.635mm HIGH-SPEED TWIN-AX CABLE ASSEMBLY
DWG. NO.
6QDPS-XXX-XX.X-XXX-XXX-X-X
BY: BRATCHER 11/10/03 SHEET 4 OF 6

FIG 3

EDGE MOUNT (WITH CAPTIVE PANEL SCREWS)
(6QDPS-016-XX.X-TEU-XXX-5-F SHOWN)
(SAME AS FIG 2, UNLESS OTHERWISE STATED)

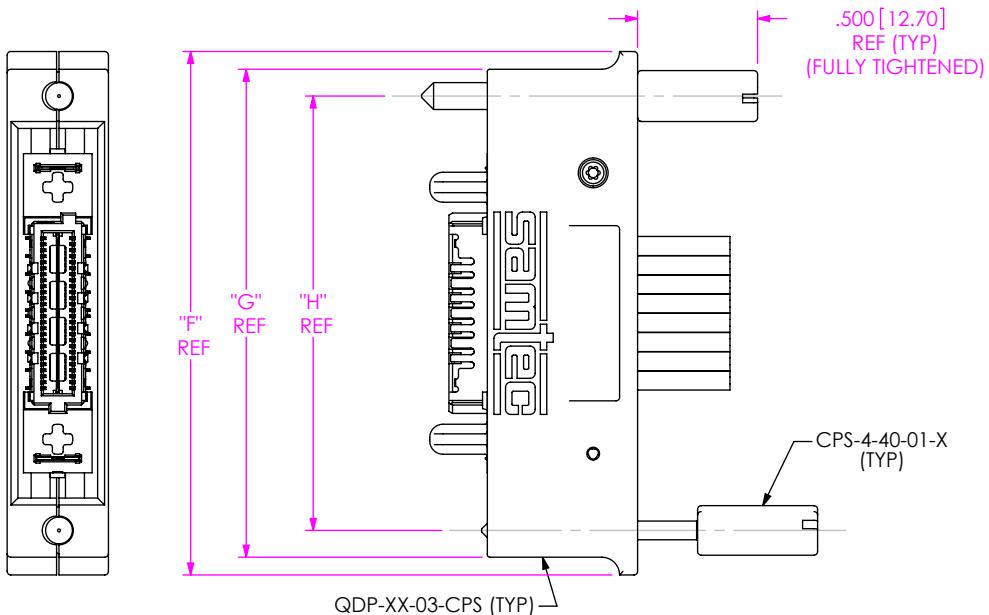


TABLE 6

No. OF POSITIONS	"F"	"G"	"H"	QDP-XX-03-CPS
-016	2.181 [55.40]	2.033 [51.64]	1.810 [45.97]	QDP-01-03-CPS
-032	3.021 [76.73]	2.873 [72.97]	2.650 [67.31]	QDP-02-03-CPS
-048	3.861 [98.07]	3.713 [94.31]	3.490 [88.64]	QDP-03-03-CPS
-064	4.701 [119.41]	4.553 [115.65]	4.330 [109.98]	QDP-04-03-CPS

FIG 5
(6QDPS-016-XX.X-TEU-STL-N SHOWN)
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

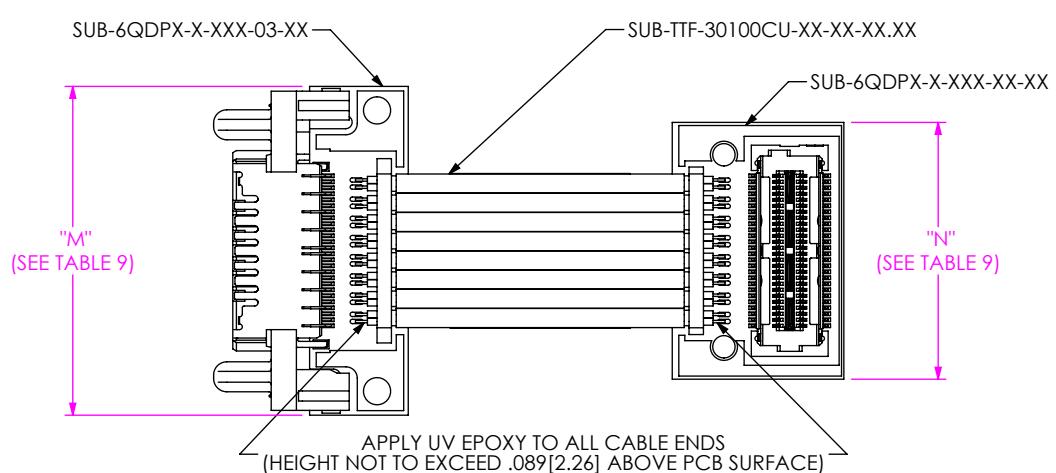


FIG 4

DOUBLE VERTICAL (WITH SCREW DOWN OPTION)
(6QDPS-016-XX.X-STR-XXX-5-F SHOWN)
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

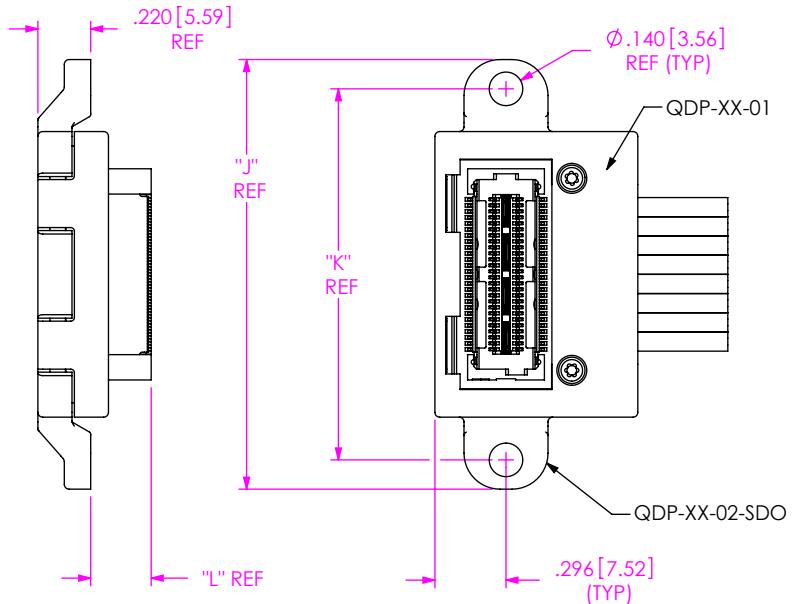


TABLE 7

No. OF POSITIONS	"J"	"K"	QDP-XX-02-SDO
-016	1.790 [45.47]	1.546 [39.27]	QDP-01-02-SDO
-032	2.630 [66.80]	2.386 [60.60]	QDP-02-02-SDO
-048	3.470 [88.14]	3.226 [81.94]	QDP-03-02-SDO
-064	4.310 [109.47]	4.066 [103.28]	QDP-04-02-SDO

TABLE 8

END	"L"
-TX	0.224 [5.69]
-SXX	0.252 [6.40]

TABLE 10

No. OF POSITIONS	"M"	"N"
-16	1.370 [34.80]	1.070 [27.18]
-32	2.210 [56.13]	1.910 [48.51]
-48	3.050 [77.47]	2.750 [69.85]
-64	3.890 [98.81]	3.590 [91.19]

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DO NOT SCALE DRAWING

SHEET SCALE: 1.25:1

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PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:
.635mm HIGH-SPEED TWIN-AX CABLE ASSEMBLY

DWG. NO.

6QDPS-XXX-XX.X-XXX-XXX-X-X

BY: BRATCHER 11/10/03 SHEET 5 OF 6

TABLE 9
SECOND END OPTION (SUB-6QDPS-X-XXX-XX-XX)

TABLE 11
SIGNAL MAPPING

TABLE 9 (CONT)

-SBR	-S-XXX-01-01	*-1	1	1	T1	-T-XXX-02-01	N/A	N/A	-T-XXX-01-01	N/A	S-XXX-01-02	S-XXX-02-02	N/A	N/A	T-XXX-03-01	
		*-2	1	2	T1	-T-XXX-02-02	N/A	N/A	-T-XXX-01-02	N/A	S-XXX-01-01	S-XXX-02-01	N/A	N/A	T-XXX-03-02	
		*-3	1	N-1	T1	N/A	N/A	N/A	-T-XXX-01-02	N/A	S-XXX-02-01	N/A	N/A	S-XXX-01-01	-T-XXX-02-02	
		*-4	1	N	T1	N/A	N/A	N/A	-T-XXX-01-01	N/A	S-XXX-02-02	N/A	N/A	S-XXX-01-02	-T-XXX-03-01	
		-5	1	1	T1	-T-XXX-02-01	N/A	N/A	-T-XXX-01-01	N/A	S-XXX-01-02	S-XXX-02-02	N/A	N/A	T-XXX-03-01	
		-6	1	2	T1	-T-XXX-02-02	N/A	N/A	-T-XXX-01-02	N/A	S-XXX-01-01	S-XXX-02-01	N/A	N/A	T-XXX-03-02	
		-7	1	N-1	T1	N/A	N/A	N/A	-T-XXX-01-02	-T-XXX-02-02	N/A	S-XXX-02-01	N/A	N/A	S-XXX-01-01	-T-XXX-03-02
		-8	1	N	T1	N/A	N/A	N/A	-T-XXX-01-01	-T-XXX-02-01	N/A	S-XXX-02-02	N/A	N/A	S-XXX-01-02	-T-XXX-03-01
-SBL	-S-XXX-02-01	*-1	1	1	B20	N/A	N/A	N/A	-T-XXX-01-01	-T-XXX-02-01	N/A	S-XXX-02-02	N/A	N/A	S-XXX-01-02	-T-XXX-03-01
		*-2	1	2	B20	N/A	N/A	N/A	-T-XXX-01-02	-T-XXX-02-02	N/A	S-XXX-02-01	N/A	N/A	S-XXX-01-01	-T-XXX-03-02
		*-3	1	N-1	B20	-T-XXX-02-02	N/A	N/A	-T-XXX-01-02	N/A	S-XXX-01-01	S-XXX-02-01	N/A	N/A	T-XXX-03-02	
		*-4	1	N	B20	-T-XXX-02-01	N/A	N/A	-T-XXX-01-01	N/A	S-XXX-01-02	S-XXX-02-02	N/A	N/A	-T-XXX-03-01	
		-5	1	1	B20	N/A	N/A	N/A	-T-XXX-01-01	-T-XXX-02-01	N/A	S-XXX-02-02	N/A	N/A	S-XXX-01-02	-T-XXX-03-01
		-6	1	2	B20	N/A	N/A	N/A	-T-XXX-01-02	-T-XXX-02-02	N/A	S-XXX-02-01	N/A	N/A	S-XXX-01-01	-T-XXX-03-02
		-7	1	N-1	B20	-T-XXX-02-02	N/A	N/A	-T-XXX-01-02	N/A	S-XXX-01-01	S-XXX-02-01	N/A	N/A	T-XXX-03-02	
		-8	1	N	B20	-T-XXX-02-01	N/A	N/A	-T-XXX-01-01	N/A	S-XXX-01-02	S-XXX-02-02	N/A	N/A	-T-XXX-03-01	
-TEU	-T-XXX-03-01	*-1	1	1	B1	-T-XXX-02-02	N/A	N/A	-T-XXX-01-02	N/A	S-XXX-01-01	S-XXX-02-01	N/A	N/A	-T-XXX-03-02	
		*-2	1	2	B1	-T-XXX-02-01	N/A	N/A	-T-XXX-01-01	N/A	S-XXX-01-02	S-XXX-02-02	N/A	N/A	-T-XXX-03-01	
		*-3	1	N-1	B1	N/A	N/A	N/A	-T-XXX-01-01	-T-XXX-02-01	N/A	S-XXX-02-02	N/A	N/A	S-XXX-01-02	-T-XXX-03-01
		*-4	1	N	B1	N/A	N/A	N/A	-T-XXX-01-02	-T-XXX-02-02	N/A	S-XXX-02-01	N/A	N/A	S-XXX-01-01	-T-XXX-03-02
		-5	1	1	B1	-T-XXX-02-02	N/A	N/A	-T-XXX-01-02	N/A	S-XXX-01-01	S-XXX-02-01	N/A	N/A	-T-XXX-03-02	
		-6	1	2	B1	-T-XXX-02-01	N/A	N/A	-T-XXX-01-01	N/A	S-XXX-01-02	S-XXX-02-02	N/A	N/A	-T-XXX-03-01	
		-7	1	N-1	B1	N/A	N/A	N/A	-T-XXX-01-01	-T-XXX-02-01	N/A	S-XXX-02-02	N/A	N/A	S-XXX-01-02	-T-XXX-03-01
		-8	1	N	B1	N/A	N/A	N/A	-T-XXX-01-02	-T-XXX-02-02	N/A	S-XXX-02-01	N/A	N/A	S-XXX-01-01	-T-XXX-03-02
-TED	-T-XXX-03-01	*-1	1	1	T20	N/A	N/A	N/A	-T-XXX-01-02	-T-XXX-02-02	N/A	S-XXX-02-01	N/A	N/A	S-XXX-01-01	-T-XXX-03-02
		*-2	1	2	T20	N/A	N/A	N/A	-T-XXX-01-01	-T-XXX-02-01	N/A	S-XXX-02-02	N/A	N/A	S-XXX-01-02	-T-XXX-03-01
		*-3	1	N-1	T20	-T-XXX-02-01	N/A	N/A	-T-XXX-01-01	N/A	S-XXX-01-02	S-XXX-02-02	N/A	N/A	T-XXX-03-01	
		*-4	1	N	T20	-T-XXX-02-02	N/A	N/A	-T-XXX-01-02	N/A	S-XXX-01-01	S-XXX-02-01	N/A	N/A	-T-XXX-03-02	
		-5	1	1	T20	N/A	N/A	N/A	-T-XXX-01-02	-T-XXX-02-02	N/A	S-XXX-02-01	N/A	N/A	S-XXX-01-01	-T-XXX-03-02
		-6	1	2	T20	N/A	N/A	N/A	-T-XXX-01-01	-T-XXX-02-01	N/A	S-XXX-02-02	N/A	N/A	S-XXX-01-02	-T-XXX-03-01
		-7	1	N-1	T20	-T-XXX-02-01	N/A	N/A	-T-XXX-01-01	N/A	S-XXX-01-02	S-XXX-02-02	N/A	N/A	T-XXX-03-01	
		-8	1	N	T20	-T-XXX-02-02	N/A	N/A	-T-XXX-01-01	N/A	S-XXX-02-01	S-XXX-02-02	N/A	N/A	-T-XXX-03-02	

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520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

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