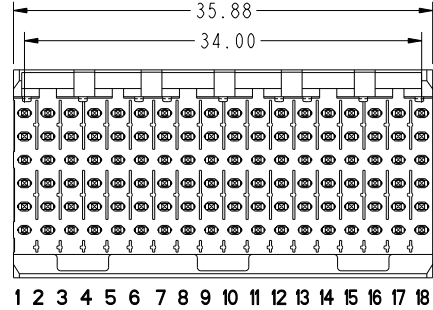
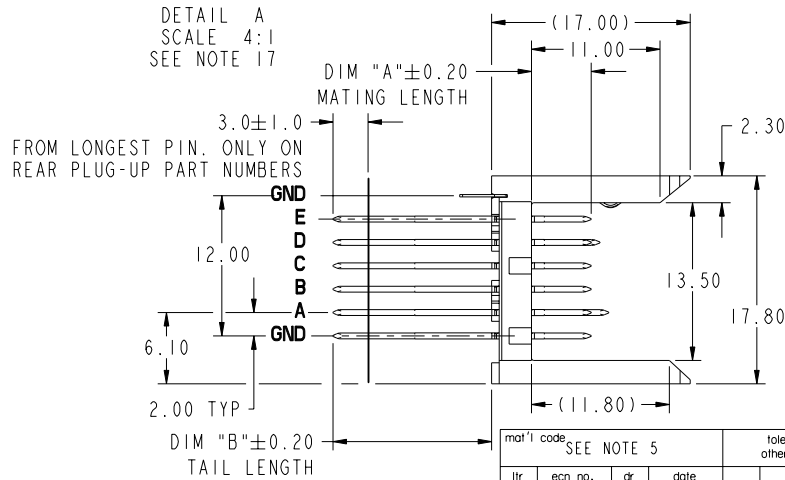
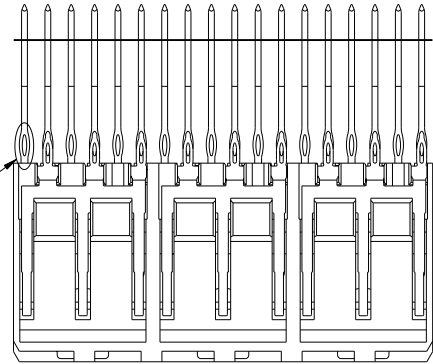


PRODUCT NUMBER	PLATING PERFORMANCE LEVEL	APPLICATION	FOR REAR PLUG-UP APPLICATIONS USE SHROUD
60066-1ZZZ	TELCORDIA CO	STANDARD	84818-104
60066-1ZZZLF		LEAD FREE	84818-104LF
60066-5ZZZ	TELCORDIA UE	STANDARD	84818-504
60066-5ZZZLF		LEAD FREE	84818-504LF
60066-9ZZZ	TELCORDIA CO	STANDARD	84818-904
60066-9ZZZLF		LEAD FREE	84818-904LF



SEE DETAIL A



mat'l code SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER	www.fciconnect.com
ltr	ech no.	dr	date	linear	0.X ±0.3	COPY	
K	V06-0498	DCH	2006-05-30		0.XX ±0.13	projection	title VERTICAL SIGNAL HDR 5 ROW P.F. 90 POS. SELECT LOAD STD.
L	V06-0706	LP	2006-07-27		.XXX ±.051		
M	V07-0502	DCH	2007-07-31	angles	0° ±2°		product family METRAL 1000 code size dwg no 60066
N	V07-0733	HTB	2007-12-21	dr	K. BELL 2000-03-15	scale	
P	V08-0049	LP	2008-2-4	enrg	M. HAHN 2000-03-15	1:1	213
-	-	-	-	chr	M. HAHN 2000-03-15		sheet
J	V05-0806	VS	2005-09-09	oppd	M. HAHN 2000-03-15		1 of 6
sheet index	revision sheet	P 1	P 2	P 3	P 4	P 5	P 6



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REV E - 2006-04-18

Pro/E

PDM: Rev:P

STATUS: Released

Printed: Dec 17, 2009

cage code 22526



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PIN NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN'S TAIL LENGTH **				
			WHEN MATING TO A 73981 OR 84688 SERIES RECEPTACLE		WHEN MATING TO A 52057 SERIES METRAL 4000 RECEPTACLE		
			ROWS A,B,C,D,E	GROUND ROW	ROWS:A,B,D,E	ROW C	GROUND ROW
01*	5.00	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
22		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
30		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
05		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
35		14.45	3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
48		15.20	3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
40		15.70	4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
65		16.40	5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
09		17.10	5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10
02*		5.75	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
44	12.20		2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
31	12.95		2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
06	13.70		2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
36	14.45		3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
49	15.20		3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
25	15.70		4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
66	16.40		5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
10	17.10		5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10
03*	6.50		4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
45		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
32		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
07		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
37		14.45	3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
50		15.20	3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
41		15.70	4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
24		16.40	5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
11		17.10	5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10

* STUB PINS - NO REAR PLUG-UP
 ** THE GREATEST RANGE OCCURS WHEN THE B DIMENSION OF PIN "GND" IS ONE SIZE SHORTER THEN THE OTHER PINS.

mat'l code SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.X ±0.3	projection	COPY		
P					0.XX ±0.13		title VERTICAL SIGNAL HDR 5 ROW P.F. 90 POS. SELECT LOAD STD.		
				angles	.XXX ±.051		product family METRAL 1000 code 213		
				dr	0° ±2°	scale	size A		
				enr	K. BELL 2000-03-15	1:1	dwg no 60066 sheet 2		
				chr	M. HAHN 2000-03-15		cage code 22526		
				oppd	M. HAHN 2000-03-15				
sheet index	revision sheet								



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PIN NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN LENGTH **				
			WHEN MATING TO A 73981 OR 84688 SERIES RECEPTACLE		WHEN MATING TO A 52057 SERIES METRAL 4000 RECEPTACLE		
			ROWS A,B,C,D,E	GROUND ROW	ROWS:A,B,D,E	ROW C	GROUND ROW
04*	7.25	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
46		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
33		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
08		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
38		14.45	3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
51		15.20	3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
42		15.70	4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
67		16.40	5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
12		17.10	5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10
19*		8.00	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
47	12.20		2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
34	12.95		2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
20	13.70		2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
39	14.45		3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
52	15.20		3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
43	15.70		4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
68	16.40		5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
21	17.10		5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10

* STUB PINS - NO REAR PLUG-UP
 ** THE GREATEST RANGE OCCURS WHEN THE B DIMENSION OF PIN 'GND' IS ONE SIZE SHORTER THEN THE OTHER PINS.

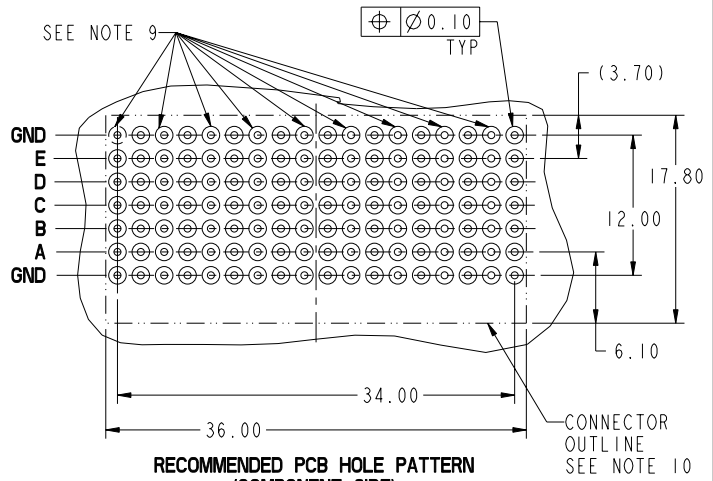
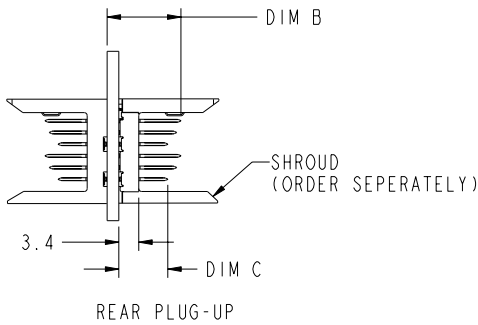
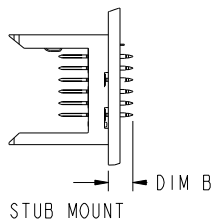
mat'l code SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com	
ltr	ech no.	dr	date	linear	0.X ±0.3	COPY		title	
P					0.XX ±0.13	projection		VERTICAL SIGNAL HDR 5 ROW	
				angles	.XXX ±.051	MM		P.F. 90 POS. SELECT LOAD STD.	
				dr	0° ±2°	scale		product family METRAL 1000	
				enr	K. BELL 2000-03-15	1:1		code 213	
				chr	M. HAHN 2000-03-15	A		sheet 3	
				oppd	M. HAHN 2000-03-15			size 60066	
sheet index	revision sheet							cage code 22526	

REV E - 2006-04-18

PDM: Rev:P STATUS:Released Printed: Dec 17, 2009

PRODUCT NUMBER
SEE SHEET 1

PRESS-FIT HOLES	OPTION 1
HOLE DIAMETER AFTER PLATING	0.65-0.80
DRILLED HOLE	0.81-0.86 (0.85 DRILL)
COPPER PLATING	0.025 MIN
SnPb PLATING	0.005-0.015



SEE PRINT 58351 FOR
ADDITIONAL PCB INFORMATION

mat'l code SEE NOTE 5		tolerances unless otherwise specified	CUSTOMER	www.fciconnect.com
litr	ecn no.	0.X ±0.3	COPY	
P		0.XX ±0.13	projection	title VERTICAL SIGNAL HDR 5 ROW P.F. 90 POS. SELECT LOAD STD.
		.XXX ±.051		
		angles 0° ±2°		product family METRAL 1000 code size dwg no 213 sheet 4
		dr K. BELL 2000-03-15	MM	
		enr M. HAHN 2000-03-15	scale	cage code 22526
		chr M. HAHN 2000-03-15	1:1	
		oppd M. HAHN 2000-03-15		
sheet index	revision sheet			








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REV E - 2006-04-18

PRODUCT NUMBER
SEE SHEET 1

NOTES:

1. SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CURCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS.
2. SEE FCJ PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."
3. SEE FCJ PUBLICATION 950511-029 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATION."
4. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5, 1994
5. HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED, FLAME RETARDANT PER UL 94-V0.
PIN MATERIAL: PHOSPHER BRONZE
GROUND SPRING MATERIAL: PHOSPHER BRONZE
6. PLATING INFORMATION: PLATING ON CONTACT AREA MEETS THE PERFORMANCE LEVELS SHOWN IN TABLE ON SHEET 1. PLATING OF "LF" TAILS IS Sn, PLATING ON ALL OTHER TAILS IS SnPb.
7. DIMENSIONAL RESTRICTIONS OF PINS IN HEADERS.
FOR MATING WITH METRAL 1000 RECEPTACLES
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROWS A-E
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROW GND NEXT TO ROW A
DIM C : 5.00mm MIN, 8.00mm MAX FOR ROWS A-E
DIM C : 4.60mm MIN, 6.30mm MAX FOR ROW GND NEXT TO ROW A
FOR MATING WITH METRAL 4000 RECEPTACLES
DIM A : 5.00mm MIN, 6.50mm MAX FOR ROWS A, B, D & E
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROW C
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROW GND NEXT TO ROW A
DIM C : 5.00mm MIN, 7.00mm MAX FOR ROWS A, B, D NO
DIM C : 5.00mm MIN, 8.00mm MAX FOR ROW C
DIM C : 4.60mm MIN, 6.30mm MAX FOR ROW GND NEXT TO ROW A
8. THE MIN PCB THICKNESS FOR REAR PLUG-UP APPLICATIONS IS 2.9mm. SINCE THE COMPLIANT SECTIONS OF THE GROUND SPRING OF THE HEADER DIRECTLY OPPOSE THE GROUND SPRING OF THE SHROUD. THE MIN PCB THICKNESS FOR FRONT PLUG-UP ONLY APPLICATIONS IS 1.6mm.
9. THESE HOLES ARE NEEDED FOR REAR PLUG-UP DESIGNS USING A SHROUD AND MAY BE OMITTED FOR FRONT PLUG-UP ONLY DESIGNS.
10. THE 'CONNECTOR OUTLINE' IS THE MIN OUTLINE REQUIRED. TO DETERMINE THE OUTLINE NECESSARY TO PERMIT THE VARIOUS TYPES OF REPAIR OPERATIONS, SEE APPLICATION SPECIFICATION GS-20-010.
11. CURRENT RATING: 1 AMP PER PIN
12. TEMPERATURE RANGE: -55°C TO +105°C
13. P/N 60066-XZZZLF

14. PIN CODE 55 CANNOT BE USED WITH METRAL 1000 SHROUDS. PIN CODE 55 HAS A DIM A=5.75mm, DIM B=11.55mm.
15. PART NUMBERS ENDING IN LF MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-00B. ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
16. FOR LEAD FREE PART NUMBERS ADD 'LF' SUFFIX. EXAMPLE: 60066-XXXXLF
17. PIN TYPE IS AT THE MANUFACTURERS OPTION AND CAN BE EITHER BABY-H OR EYE OF THE NEEDLE STYLE

mat'l code SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		 www.fcjconnect.com	
ltr	ech no.	dr	date	linear	0.X ±0.3	COPY			
P				angles	.XXX ±.051	projection		title VERTICAL SIGNAL HDR 5 ROW P.F. 90 POS. SELECT LOAD STD.	
				dr	0° ±2°			product family METRAL 1000	
				engr	K. BELL 2000-03-15			code 213	
				ctr	M. HAHN 2000-03-15	size A		sheet 5	
				oppd	M. HAHN 2000-03-15	dwg no 60066			
sheet index	revision sheet					scale 1:1			



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SELECT LOAD PATTERNS																			
PRODUCT #	ROW	COLUMN																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
60066-X001 SEE NOTE 16 LEAD FREE OPTION	E	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
	D	01	01	01	01	01	02	01	01	01	01	01	01	01	01	01	01	01	02
	C	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
	B	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
	A	01	01	03	01	01	03	01	01	03	01	01	03	01	01	03	01	01	03
	GND	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
PRODUCT #	ROW	COLUMN																	
60066-X002 SEE NOTE 14 *RPU SEE NOTE 16 LEAD FREE OPTION	E	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55
	D	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55
	C	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55
	B	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55
	A	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55
	GND	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55
PRODUCT #	ROW	COLUMN																	
60066-X003 SEE NOTE 14 *RPU SEE NOTE 16 LEAD FREE OPTION	E	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55
	D	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55
	C	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55
	B	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55
	A	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55
	GND	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55

SELECT LOAD PATTERNS																			
PRODUCT #	ROW	COLUMN																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
60066-X004 SEE NOTE 16 LEAD FREE OPTION	E	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02
	D	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02
	C	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02
	B	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02
	A	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02
	GND	-	02	02	02	02	-	-	02	02	02	02	-	-	02	02	02	02	-
PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS: 1.6mm MIN.																			
PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS: 1.6mm MIN.																			

* REAR PLUG-UP PART NUMBERS

mat'l code SEE NOTE 5				tolerances unless otherwise specified				CUSTOMER				FCI www.fciconnect.com						
ltr	ecn no.	dr	date	linear	0.X ±0.3	projection	COPY	title				VERTICAL SIGNAL HDR 5 ROW P.F. 90 POS. SELECT LOAD STD.						
P				angles	.XX ±0.13			product family				METRAL 1000						
				dr	0° ±2°		scale	size				dwg no						
				enr	K. BELL 2000-03-15		1:1	code				213						
				chr	M. HAHN 2000-03-15			sheet				6						
				oppd	M. HAHN 2000-03-15			sheet										
sheet index	revision sheet																	