



John Lohmyer, Chairman X3T9.2 (SCSI)
HCR Corporation
3718 North Rock Road
Wichita, KS 67226

RE: 60 Position Connector Proposal, SCSI-II

Dear Mr. Lohmyer:

In accordance with the rules adopted during the June 20 and 21, 1988 SCSI planery meeting, Burndy Corp. would like to advise you of our intention to submit a connector proposal for consideration by the membership of X3T9.2. We plan to do this during the next scheduled planery session on August 15 - 16, in Colorado Springs. The purpose of our proposal is in support of the ten additional leads proposed by IBM for adoption in SCSI-2 (ref document X3T9.2 88 - 69) and considered to be an important improvement of the physical architecture of the SCSI-II interface.

Although Burndy has proposed the adoption of the .050" inch product earlier, we would again propose that this robust, miniature, fully shielded, ribbon-style connector is included as an alternate design in the SCSI-II standard. We would also like to bring to your attention that we are presently in active discussions concerning licensing of our connector with three major connector manufacturers who have expressed interest in becoming an alternate source for the 60 position shielded connector. A description of the proposed 60 position connector, along with drawings and performance data is attached.

Sincerely,

A handwritten signature in dark ink, appearing to read 'David H. Barnum', written over a horizontal line.

David H. Barnum
Industry Marketing Manager

/sc

cc: I. Dal Allen - Vice Chairman X3T9.2
A. Colozzi
H. Piorunneck

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BURNDY'S NEW
MICROSHIELD INTERCONNECT SYSTEM

FEATURES AND BENEFITS

FAMILIAR, RELIABLE, INDUSTRY STANDARD TYPE INTERFACE

- SCSI-I ALTERNATIVE II
- IEEE-488
- TELEPHONE INDUSTRY
- NOT PROPRIETARY

HIGH DENSITY PACKAGING

- .050 CENTERLINE "RIBBON TYPE" INTERFACE
- PCB TAILS ARE STAGGERED IN 4 ROWS ON .075 X .100 CENTERLINES FOR EASY PCB TRACE ROUTING

USER FRIENDLY

- INDUSTRY STANDARD "D" TYPE POLARIZATION
- EXCELLENT AMOUNT OF CONTACT WIPE TO INSURE RELIABILITY
- POSITIVE, SMOOTH, SELF ALIGNING MATING SYSTEM
- CONTACT INTERFACE DESIGN THAT MINIMIZES THE EFFECTS OF "SCOOPING"
- FRIENDLY, COST EFFECTIVE, THUMBSCREW LATCHING SYSTEM
- ROBOTIC, COST EFFECTIVE "SNAP-IN" BOARD MOUNTING FEATURE
- NO NEEDLE-LIKE PINS OR BLADES THAT MAY INFLICT WOUNDS ON A USER

SHIELDED

- INDUSTRY STANDARD SHIELDING DESIGN
- METAL FACE TIED DIRECTLY TO PCB THROUGH GROUNDING/RETENTION BRACKETS FOR EFFICIENT GROUNDING
- MEET FCC REQUIREMENTS
- PROTECTS AGAINST ESD - CONTACTS ARE RECESSED
- SHELL ENGAGES FIRST - DISENGAGES LAST

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BURNDY'S NEW
MICROSHIELD INTERCONNECT SYSTEM

PRODUCT SPECIFICATION

CONNECTOR MATERIALS

- | | |
|-----------------|--|
| - CONTACTS: | PHOSPHOR BRONZE |
| - CONTACT AREA: | GOLD OVER NICKEL |
| - REMAINDER: | TIN LEAD OVER NICKEL |
| - HOUSING: | 94V-0 RATED HIGH TEMPERATURE THERMOPLASTIC |
| - SHELL: | NICKEL PLATED STEEL |

ELECTRICAL PERFORMANCE

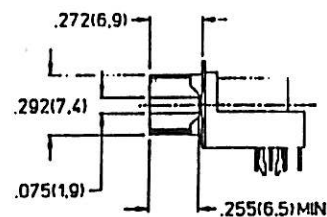
- | | |
|------------------------------|---------------------------|
| - CURRENT RATING: | 1 AMP |
| - CONTACT RESISTANCE + BULK: | 30 MILLIOHMS MAX. |
| - INSULATION RESISTANCE: | 1000 MEGOHMS MIN. |
| - DIELECTRIC WITHSTANDING: | 500 VAC RMS FOR 1 MINUTE |
| - CAPACITANCE: | 2 PICO FARAD MAX. @ 1 MHZ |

MECHANICAL PERFORMANCE


- | | |
|-----------------------------|---------------------|
| - DURABILITY: | 500 CYCLES |
| - HERTZ STRESS | 150,000 PSI |
| - WIRE GAUGE: | 26 - 28 AWG |
| - MAXIMUM INSERTION FORCE: | 3.0 OZ. PER CONTACT |
| - MINIMUM EXTRACTION FORCE: | 1.0 OZ. PER CONTACT |

1 MOUNTING SURFACE (P.C. BOARD) TO JACKSOCKET CENTERLINE

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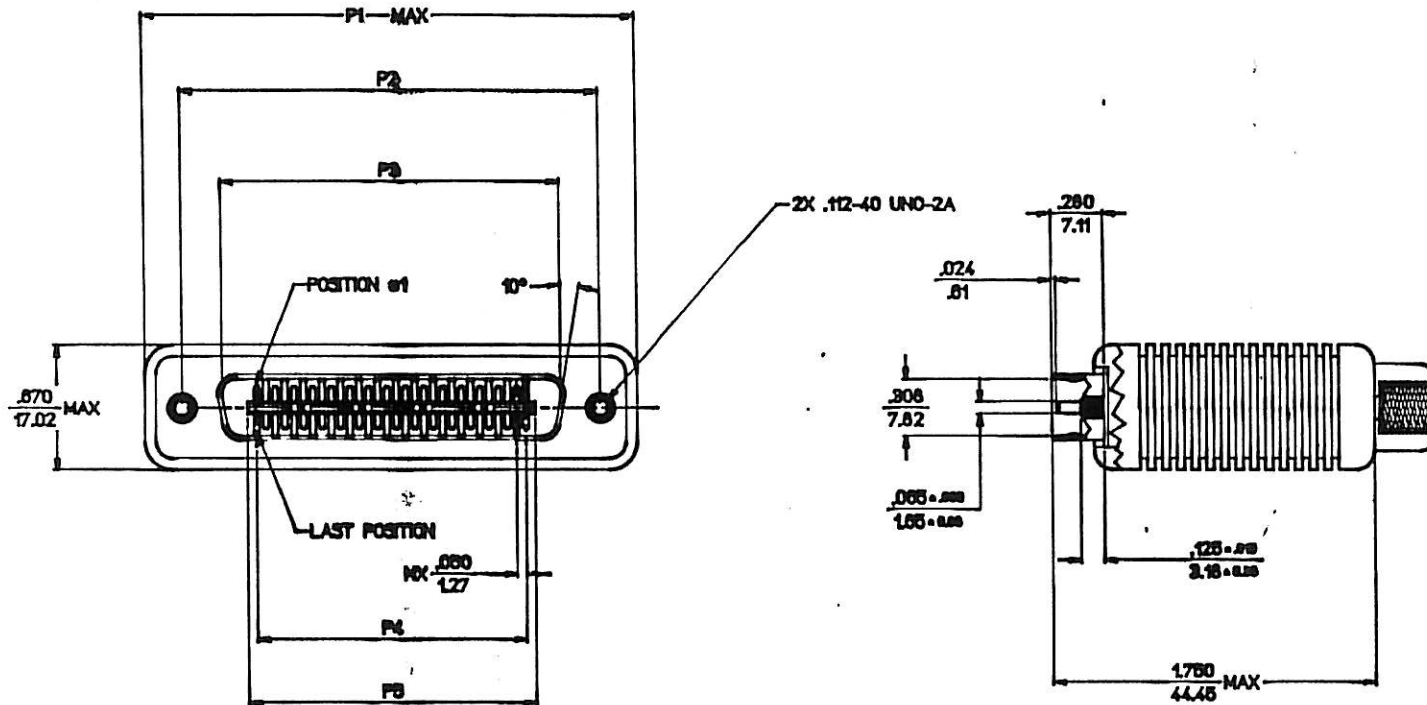


DIM	UNIT	14	20	24	28	36	50	60	68	80	100	120
R1	IN	1.500	1.650	1.750	1.850	2.050	2.400	2.650	2.850	3.150	3.650	4.150
	MM	38.10	41.91	44.45	46.99	52.07	60.98	67.31	72.39	80.01	92.71	105.41
R2	IN	1.100	1.250	1.350	1.450	1.650	2.000	2.250	2.450	2.750	3.250	3.750
	MM	27.94	31.75	34.29	36.83	41.91	50.80	57.15	62.23	69.85	82.55	95.25
R3	IN	.656	.808	.908	1.008	1.208	1.558	1.808	2.008	2.308	2.808	3.308
	MM	16.71	20.52	23.06	25.60	30.68	39.57	45.92	51.00	56.62	71.32	84.02
R4	IN	.450	.600	.700	.800	1.000	1.350	1.600	1.800	2.100	2.600	3.100
	MM	11.43	15.24	17.78	20.32	25.40	34.29	40.64	45.72	53.34	66.04	78.74
R5	IN	.300	.450	.550	.650	.850	1.200	1.450	1.650	1.950	2.450	2.950
	MM	7.62	11.43	13.97	16.51	21.59	30.48	36.83	41.91	49.53	62.23	74.93

REV	REVISION DESCRIPTION	BY	CHKD	DATE
© BURNDY CORPORATION 1988				
FSCM NO 09922		DONXXX	PC XXX	
MICROSHIELD [®] RIGHT ANGLE BOARD MT. RECEPTACLE				
CAT NO XXXXXXXXXXXX				SCALE 2:1
DRAWN XXX XX-XX-XX		A P V	DSGN PEP 6-10-88	
CHECKED XXX XX-XX-XX			MKT XXX XX-XX-XX	
			QC XXX XX-XX-XX	
 BURNDY NORWALK, CT 06858		DRAWING NO		REV
		SKM076380		0
		1 OF 2		

NOTES:

1 ALL TOLERANCES .005 (A127) EXCEPT AS OTHERWISE NOTED



DIM	UNIT	14	20	24	28	36	50	60	68	80	100	120
P1	IN	1.500	1.650	1.750	1.850	2.050	2.400	2.650	2.850	3.150	3.650	4.150
	MM	38.10	41.91	44.45	46.99	52.07	60.96	67.31	72.39	80.01	92.71	105.41
P2	IN	1.100	1.250	1.350	1.450	1.650	2.000	2.250	2.450	2.750	3.250	3.750
	MM	27.94	31.75	34.29	36.83	41.91	50.80	57.15	62.23	69.85	82.55	95.25
P3	IN	.874	.824	.824	1.024	1.224	1.574	1.824	2.024	2.324	2.824	3.324
	MM	22.12	20.98	20.98	26.01	30.98	39.96	46.33	51.41	59.03	71.73	84.43
P4	IN	.300	.450	.550	.650	.850	1.200	1.450	1.650	1.950	2.450	2.950
	MM	7.62	11.43	13.97	16.51	21.59	30.48	36.83	41.91	49.53	62.23	74.93
P5	IN	.400	.550	.650	.750	.950	1.300	1.550	1.750	2.050	2.550	3.050
	MM	10.16	13.97	16.51	19.05	24.13	33.02	39.37	44.45	52.07	64.77	77.47

REV	REVISION DESCRIPTION	BY	CHKD	DATE
© BURNDY CORPORATION 1988				
FSCM NO 09922		DONXXX	PO XXX	
MICROSHIELD STRAIGHT CABLE PLUG(SHIELDED)				
QAT NO XXXXXXXXXXXX				SCALE 2:1
DRAWN	XXX XX-XX-XX	DESIGN	PEP 8-10-88	
CHECKED	XXX XX-XX-XX	MKT	XXX XX-XX-XX	
		GO	XXX XX-XX-XX	
		DRAWING NO	REV	
		SKMD26380	0	
SHEET 2 OF 2				

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