

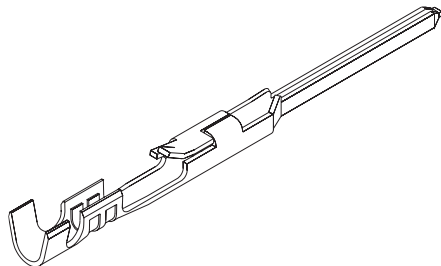
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Jameco Part Number 1930007

2.54mm (.100") Pitch**SL™
Terminal****70021
Male, Crimp****Features and Benefits**

- Dual tab strain relief
- Locking tang secures terminal in housing

Reference Information

Product Specification: PS-70021
 Packaging: Reel or bag
 Mates With: 70058 and 71851 female crimp terminals,
 and 70400 and 70430 connector assemblies
 Use With: 70066D and 70107 housings
 Designed In: Inches

Electrical

Voltage: 250V
 Current: 3.0A
 Contact Resistance: 15 milliohms max.
 Insulation Resistance: 10,000 Megohms min.

Mechanical

Wire Pull-Out Force: 17.79N (4.0 lb) min.
 Durability: Tin—25 cycles; Gold—50 cycles

Physical

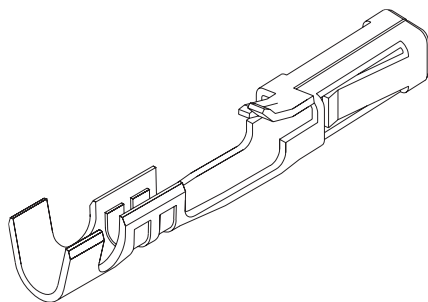
Contact: Copper Alloy
 Plating: See Table
 Operating Temperature: -40 to +105°C
 Wire Gauge: 22 to 24 and 24 to 30 AWG

Not For Use With C-Grid III™ Components

Reel				
Order No.	Plating	Wire Range (AWG) Stranded	Insulation Maximum Outside Diameter	Lead-free
16-02-0116	1	22-24	1.63 (.064)	Yes
16-02-0078		24-30	1.52 (.060)	
16-02-0081	2	22-24	1.63 (.064)	
16-02-0077		24-30	1.52 (.060)	
16-02-0107	3	22-24	1.63 (.064)	
16-02-0105		24-30	1.52 (.060)	

Plating No. 1: 30µm min. Gold in select area over 50µm min. Nickel overall with 75µm Tin in select area
 Plating No. 2: 15µm min. Gold in select area over 50µm min. Nickel overall with 75µm min. Tin in select area
 Plating No. 3: 150µm Tin over 50µm Nickel overall
 Each reel contains 20,000 terminals

Bag				
Order No.	Plating	Wire Range (AWG) Stranded	Insulation Maximum Outside Diameter	Lead-free
16-02-0117	1	22-24	1.63 (.064)	Yes
16-02-0110		24-30	1.52 (.060)	
16-02-0115	2	22-24	1.63 (.064)	
16-02-0109		24-30	1.52 (.060)	
16-02-0114	3	22-24	1.63 (.064)	
16-02-0108		24-30	1.52 (.060)	

2.54mm (.100") Pitch**SL™
Terminal****70058
Female Box, Crimp****Features and Benefits**

- Dual beam, fully-enclosed box contact
- Dual tab strain relief
- Locking tang secures terminal in housing

Reference Information

Product Specification: PS-70058
 Packaging: Reel or bag
 Mates With: 70021 male crimp terminals and
 0.64mm (.025") square pins
 Use With: All 70066 and 70450 housings
 Designed In: Inches

Electrical

Voltage 250V
 Current: 3.0A
 Contact Resistance: 15 milliohms max.
 Insulation Resistance: 10,000 Megohms min.

Mechanical

Contact Retention to Housing: 17.79N (4.0 lb) min.
 Wire Pull-Out Force: 17.79N (4.0 lb) min.
 Mating Force: 2.22N (.50 lb) max.
 Unmating Force: 0.28N (.06 lb) min.
 Normal Force: 0.98N (.22 lb) min.
 Durability: Tin—25 cycles; Gold—50 cycles

Physical

Contact: Copper Alloy
 Plating: See Table
 Operating Temperature: -40 to +105°C
 Wire Gauge: 22 to 24 and 24 to 30 AWG

Not For Use With C-Grid III™ Components

Reel				
Order No.	Plating	Wire Range (AWG) Stranded	Insulation Maximum Outside Diameter	Lead-free
16-02-0088	1	22-24	1.63 (.064)	Yes
16-02-0083		24-30	1.52 (.060)	
16-02-0087	2	22-24	1.63 (.064)	
16-02-0082		24-30	1.52 (.060)	
16-02-0086	3	22-24	1.63 (.064)	
16-02-0069		24-30	1.52 (.060)	

Plating No. 1: 30µm min. Gold in select area over 50µm min. Nickel overall with 75µm Tin in select area
 Plating No. 2: 15µm min. Gold in select area over 50µm min. Nickel overall with 75µm min. Tin in select area
 Plating No. 3: 150µm Tin over 50µm Nickel overall
 Each reel contains 20,000 terminals

Bag				
Order No.	Plating	Wire Range (AWG) Stranded	Insulation Maximum Outside Diameter	Lead-free
16-02-0104	1	22-24	1.63 (.064)	Yes
16-02-0098		24-30	1.52 (.060)	
16-02-0103	2	22-24	1.63 (.064)	
16-02-0097		24-30	1.52 (.060)	
16-02-0102	3	22-24	1.63 (.064)	
16-02-0096		24-30	1.52 (.060)	



**PRODUCT SPECIFICATION
MALE CRIMP CONNECTOR
ASSEMBLY**



LANGUAGE
ENGLISH

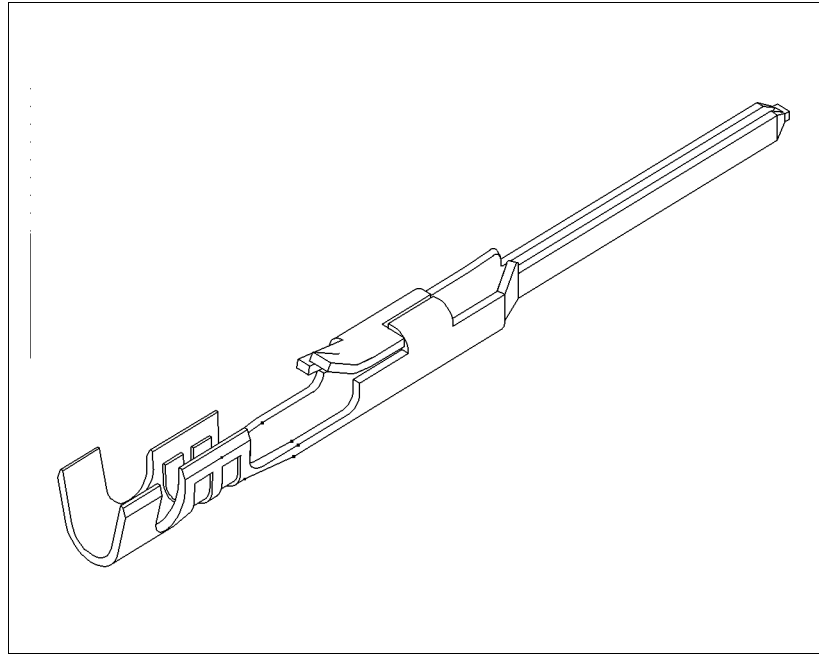


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REV	D						
SHT	1-4						
REVISE ON PC ONLY		TITLE					
D	REVISED & REDRAWN, CHG TO MS WORD FORMAT		MALE CRIMP TERMINAL 70021				
	ECN UDT2002-0519 SCHAFFER 01/9/18		THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
REV	DESCRIPTION		WRITTEN BY:	CHECKED BY:	APPROVED BY:	DATE: YR / MO / DAY	
DESIGN CONTROL		STATUS	J.SCHAFFER	D.BRINKMAN	D.BRINKMAN	01/7/13	
UDT						FILE NAME	SHT NO.
DOCUMENT NO.						PS70021.DOC	1 OF 4
PS -70021							



PRODUCT SPECIFICATION



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ENGLISH

1.0 SCOPE:

This specification covers the crimp terminal 70021-**** used with housings 70066-**** and 70107-****.

2.0 PRODUCT DESCRIPTION:

- 2.1 Product is available in single row 2-25 circuits, on .100 centers.
- 2.2 Connector housings 70066-**** and 70107-**** are used with terminals 70021-****.
- 2.3 Connector assembly will mate with the following:
 - 2.3.1 Connector assemblies with terminals 70058-**** female crimp and 70028-**** female I.D.T.
- 2.4 Connectors are stackable end to end, or side to side, on .100" center pins when using option "A" housing.
- 2.5 Maximum pin height to be .300", minimum height to be .280", measured from top of housing.
- 2.6 Connector to accept wire range from:
 - 30 to 24 AWG stranded wire with .060" dia. max. insulation,
 - 36 to 32 AWG stranded wire with .025" dia. max. insulation,
 - 22 to 24 AWG stranded wire with .064" dia. max. insulation.

3.0 RECOGNIZED AGENCY APPROVALS:

- 3.1 Underwriters Laboratories: UL #E29179
- 3.2 Canadian Standards Association: CSA #LR19980

4.0 MECHANICAL SPECIFICATIONS:

- 4.1 Housing 70066-**** is molded of black, glass-filled polyester 94V-0.
- 4.2 Terminal 70021-**** is a high strength copper alloy.
 - 4.2.1 Finish, Tin/Lead: .000200" min. electrotin plate over .000050" min. nickel plate overall.
 - 4.2.2 Finish, Select Gold: .000015" min. gold plate in selected area over .000050" min. nickel overall, with .000075" min. tin/lead plate in selected area.
 - 4.2.3 Finish, Select Gold: .000030" min. gold in selected area over .000050" min. nickel plate overall, with .000075" min. tin/lead plate in selected area.
 - 4.2.4 For special finish requirements, consult with your local Molex sales representative.

REVISE ON PC ONLY		TITLE	MALE CRIMP TERMINAL 70021	
D	SEE SHEET 1			
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REV	DESCRIPTION	FILE NAME		SHEET
DOCUMENT NO. PS - 70021		PS70021.DOC		2



PRODUCT SPECIFICATION



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- 4.3 Strain Relief Strength: E.I.A. RS-186-D, method 6; and Mil. Std. 202E, Method 211A.
- 4.4 Temperature rating of materials: G.F. polyester, 94V-0, black -40°C to +120°C.
- 4.5 Terminal pull-out force from housing must withstand gradually applied force of 4 pounds for 15 seconds.

5.0 ELECTRICAL SPECIFICATIONS:

- 5.1 Rated voltages, currents:
Dry circuit: Open circuit voltage 20 mV max.
Short circuit current 20 mA max.
- 5.2 Contact resistance @ rated current, 30°C temperature rise after 25 cycles of engage/disengage. Contact resistance must be less than 15 milliohms.

Rated current: 36 AWG - 0.21A
 34 AWG - 0.32A
 32 AWG - 0.45A
 30 AWG - 0.7A
 28 AWG - 1.2A
 26 AWG - 1.8A
 24 AWG - 3.0A
 22 AWG - 3.0A
- 5.3 Dielectric Strength: AC voltage increased until breakdown. Voltage measured to be no less than 600 volts AC R.M.S. for 1 minute at sea level to 5,000 feet.
- 5.4 Insulation Resistance: 1,000 megohms minimum Mil. Std. 202, Method 302, Condition B.

REVISE ON PC ONLY		TITLE MALE CRIMP TERMINAL 70021
D	SEE SHEET 1	
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DOCUMENT NO. PS - 70021	FILE NAME PS70021.DOC	SHEET 3



PRODUCT SPECIFICATION



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6.0 ENVIRONMENTAL SPECIFICATIONS:

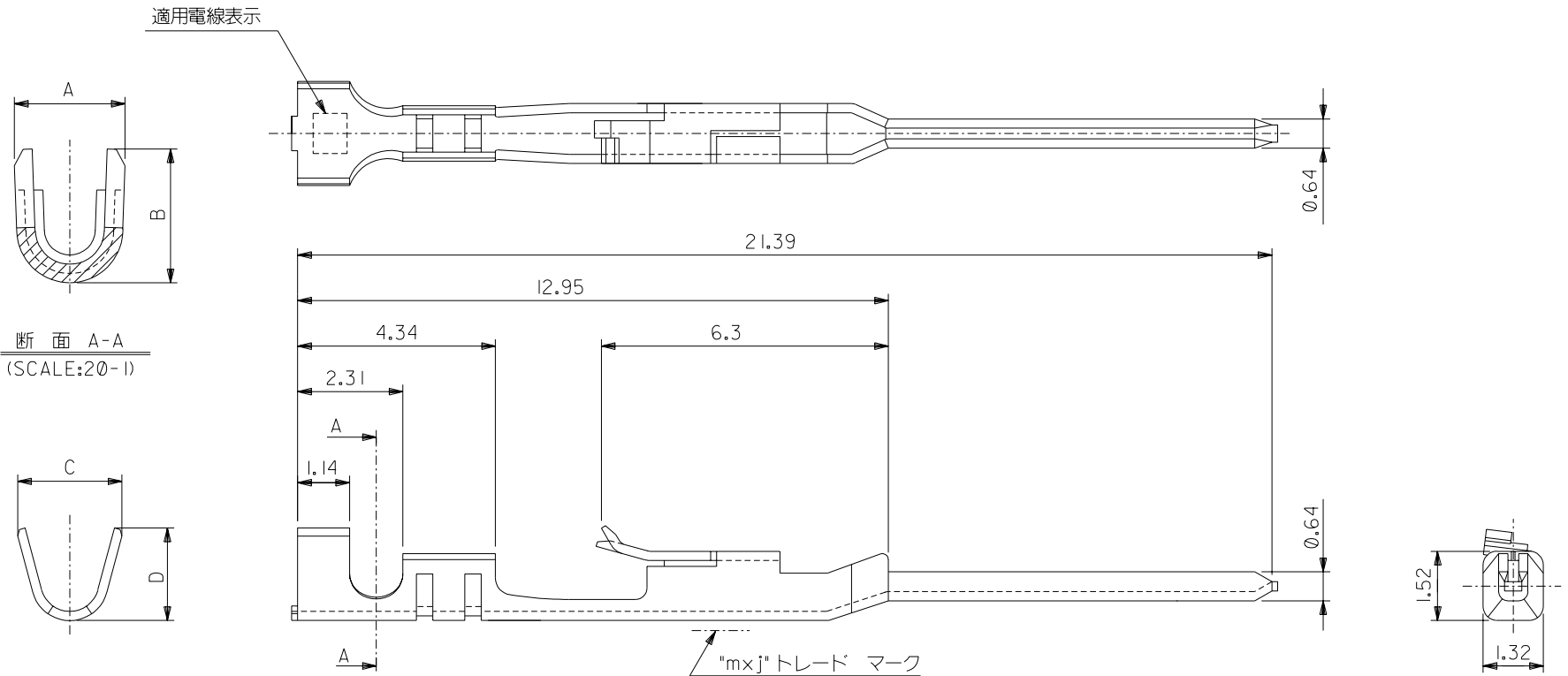
- 6.1 Thermal Aging: Heat soak @ 105°C for 7 days. Measured contact resistance must be less than 15 milliohms.
- 6.2 Thermal Shock: Mil. Std. 202E, Method 107C, condition A. Measured contact resistance must be less than 15 milliohms.
- 6.3 Shock: Mil. Std. 202, Method 205, Condition A (15G). Measured contact resistance must be less than 15 milliohms.
- 6.4 Humidity: Mil. Std. 202E, Method 103B, Condition A. Measured contact resistance must be less than 15 milliohms.
- 6.5 Salt Spray: Mil. Std. 202E, Method 101D, Condition A. Measured contact resistance must be less than 15 milliohms.

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D	SEE SHEET 1		
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DOCUMENT NO. PS - 70021		FILE NAME PS70021.DOC	SHEET 4

ENG. NO.
SD-70021-0*06
0*23

EDP NO.
—#—

DIMENSIONS IN METRIC DO NOT SCALE DRAWING



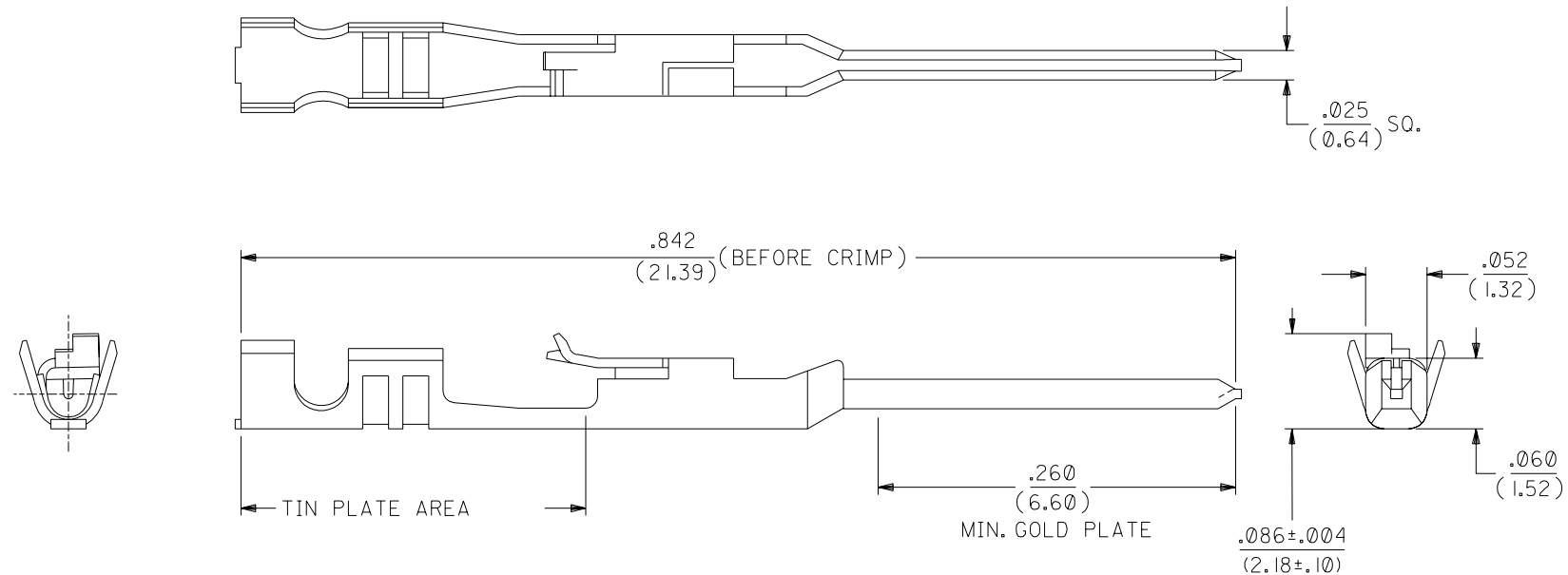
注記:

- 適合ハウジング: 70066-****, 70107-****
- メッキ仕様:
 - 接点部 : 金メッキ, 0.38 μmMIN.
 - 圧着部 : 錫メッキ, 1.91 μmMIN.
 - 下地メッキ: ニッケルメッキ, 1.27 μmMIN.

1.91	2.1	1.47	1.22	A	φ 1.6 MAX.	AWC#24-#30	連鎖状	70021-0006
1.91	2.1	1.65	1.84	C		AWC#22-#24	バラ状	70021-0223
D	C	B	A	適用電線表示	被覆外径	適用電線範囲	端子形状	MATERIAL No.

材料 MATERIAL 磷青銅				MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社	
t 0.203				EDP. NO. —#—	
仕上げ FINISH 注記参照				ENG. NO. SD-70021-0*06 0*23	
適用電線範囲 表参照				REV B	
被覆外径 INS. RANGE 表参照				TITLE 名称 SL MALE CRIMP TERMINAL -LEAD FREE-	
DRAWN BY A. Mitake		CHK'D BY M. Kuro		SCALE 10-1	
APP'D BY S. Yamada		DR. CHK. DATE		REVISION RECORD	

角度 ANGLE	±3°	B 変更 (J2004-4519)	1/11/94
30 以上 OVER	+0.3	A 変更 (JD60398)	1/11/95
10 以上 OVER 30 未満 UNDER	+0.25	0 新規作成 (T00110)	1/11/95
10 未満 UNDER	+0.2	記号	1/11/95
一般公差 GENERAL TOLERANCES		REVISE ONLY ON CAD SYSTEM	



NOTES:

1. TERMINAL FOR USE WITH HOUSING PART NO. 70066-**** & 70107-****.
2. MATERIAL: .008/(0.20) THK. PHOSPHOR BRONZE.
3. TERMINAL TO BE USED WITH 22-24 AWG STRANDED WIRE WITH .064 DIA. MAX. INSULATION.
4. REFER TO MOLEX OPERATIONAL AND SERVICE MANUAL FOR DETAILS.
5. REFER TO PRODUCT SPECIFICATION NO. PS-70021.
6. PARTS SUPPLIED IN REEL FORM.

PLATING:

.000015 GOLD PLATE IN SELECT AREA.
 .000075 MIN. TIN PLATE IN SELECT AREA.
 OVER NICKEL PLATE.

*THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC". CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH LEAD.

G	LEAD FREE UCP2004-1769 RWHITE 04/03/12
F1	REVISED ECR #U80270 MCGRATH 97/07/31
F	REVISED PLTG. SPEC. PER ECR # U31149 08/19/93 REED
E	REVISED PER ECR# U8220 11-07-88 MJM/MGB
D	REDRAWN ON CAD PER E.C.R. #9509 11/10/86 WJF/MJM

MFG.	SH.	REV.	LTR.	REVISIONS
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DIMENSIONS SHOWN (METRIC) INCH		▽ = 0 ▼ = 0		REVISE ONLY ON CAD SYSTEM	
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°					
		INCH		METRIC	
3 PLACE	± .010	---			
2 PLACE	± .015	± 0.25			
1 PLACE	---	± 0.35			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
DRWG. BY	WJF	CHK'D. BY	MJM		
APP'D. BY	WAZ	SCALE	10:1		
FILE NAME		SHEET NO.		DATE	
S70021X23 DGN		1		10/30/86	
PART NO.		DRWG. NO.			
16-02-0081		SD-70021-0023			
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DIV.		SIZE			
DA		B			