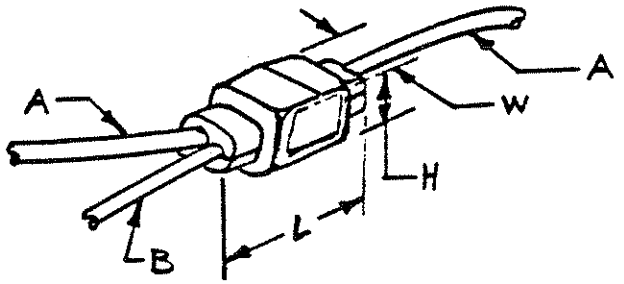
General Use Part

PRINT ISSUED	TITLE	PART NO
8-20-71	CONNECTOR, ELECTRICAL TAP SELF STRIPPING	23-9794
LAST CHG LTR		SHEET 1 OF 1

SKETCH



PART NUMBERS

WIRE SIZE (A) RUN	WIRE SIZE (B) TAP	COLOR	L	W	H	MANUFACTURER'S NUMBER MMM			FREIGHTLINER PART NUMBER
#14, #16, #18 SOLID OR STRAND		BLU WHT	.810	.530	.375	560 564			23-9794-001 -002
#10 SOLID #12 SOLID OR STRAND	#14, 16, 18 SOLID #14, 16 STRAND	BRN	.830	.675	.500	561			-003
#10 SOLID #12 SOLID OR STRAND		YEL				562			-004

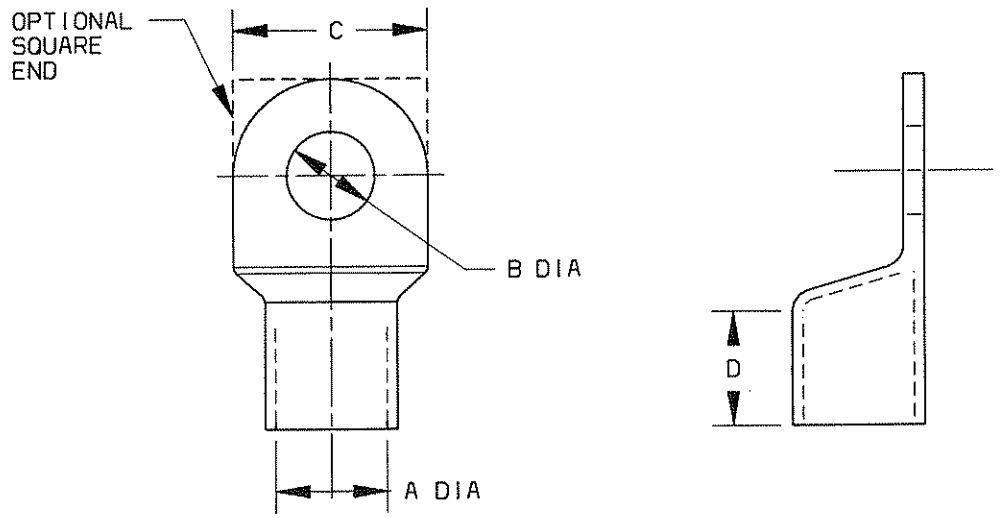
ENGINEERING NOTES:

(1) Material: Insulator - Polypropylene
Contact - Tin Plated Brass

COMPILED	HJR	DATE DRAWN		MATERIAL	
APPROVED	[signature]	8-5-71		(1)	

Portland FREIGHTLINER CORPORATION Oregon 97208

DRAWN	LFB	TITLE	DRAWING NUMBER	
APPRV	DAJ	TERMINAL-LUG BATTERY CABLE	23-10379	
DATE	12/08/99	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1	CHG. LTR. L
CATIA ORIGINAL				



"A" DIA	"B" STUD SIZE	"C" REF	"D"	CABLE SIZE (GA.)	MANUFACTURER'S NUMBER					FREIGHTLINER PART NUMBER
					ASI	MOLEX	AMY	JEI	KAL	
.370	.375	.63	.500	2	321600	BCL238PL	2381-1	20BC02TET	TG60H	23-10379-010
.370	.500	.75	.550	2	--	BCL212PL	2503-1	20BC02HET	TG60L	23-10379-011
.500	.500	.81	.620	2/0	606296-2	BCL2012PL	T-20501-3	20BC20HET	TE30L	23-10379-021
.500	.375	.81	.620	2/0	606296-1	BCL2038PL	T-20381-2	20BC20TET	TE30H	23-10379-023
.550	.500	.88	.620	3/0	606297-2	BCL3012PL	T-30501-1	20BC30HET	TE20L	23-10379-031
.550	.375	.88	.620	3/0	606297-1	BCL3038PL	T-30381-1	20BC30TET	TE20H	23-10379-033
L .656	.500	1.1	.750	4/0	607884-3	BCL4012PL	T-40501-1	20BC40HET	TE10L	23-10379-041
L .656	.375	1.1	.750	4/0	607884-2	BCL4038PL	T-40381-1	20BC40TET	TE10H	23-10379-043

ENGINEERING NOTES:

1. MATERIAL: LEAD COATED OR TIN PLATED COPPER.
2. ONLY SOURCES SHOWN ABOVE MAY BE USED FOR THIS TERMINAL. NO ALTERNATE SOURCES MAY BE USED UNLESS APPROVED BY PRODUCT ENGINEERING.

CHG	JOB NO	DATE	BY	REVISION
L	PN0554-13	12/08/99	LFB	REDRAWN IN CATIA. ADDED JEI AND KAL PART NUMBERS
				C DIM OF -041 AND -043 WAS 1.03.

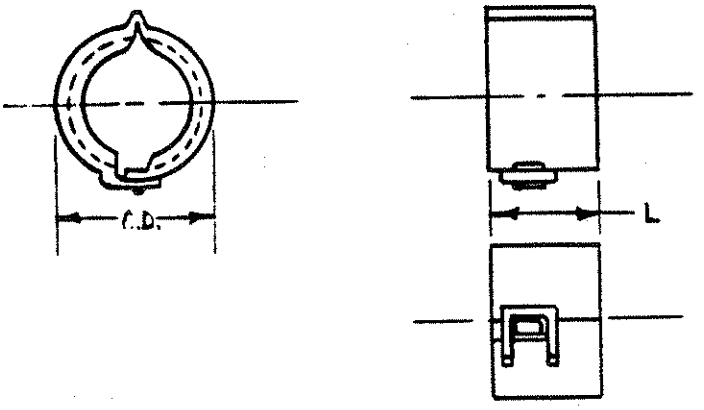
General Use Part

PRINT ISSUED	TITLE	PART NO.
	FITTING, END CONVOLUTED NYLON CONDUIT	23-10848
LAST CHG LTR		SHEET 1 OF 1

CHG	BY	DATE	WAS	JOB NO

CHG	BY	DATE	WAS	JOB NO
				A0740

SKETCH



PART NUMBERS

NOMINAL CONDUIT I.D.		MANUFACTURER'S NUMBER		FREIGHTLINER PART NUMBER
			MQ	
3/8			MQN-3750-700	23-10848-038
5/8			MQN-6250-700	-062
3/4			MGN-7500-700	-075

ENGINEERING NOTES

(1) Material: Type 6 nylon.

2. For use with convoluted nylon conduit (48-2217).

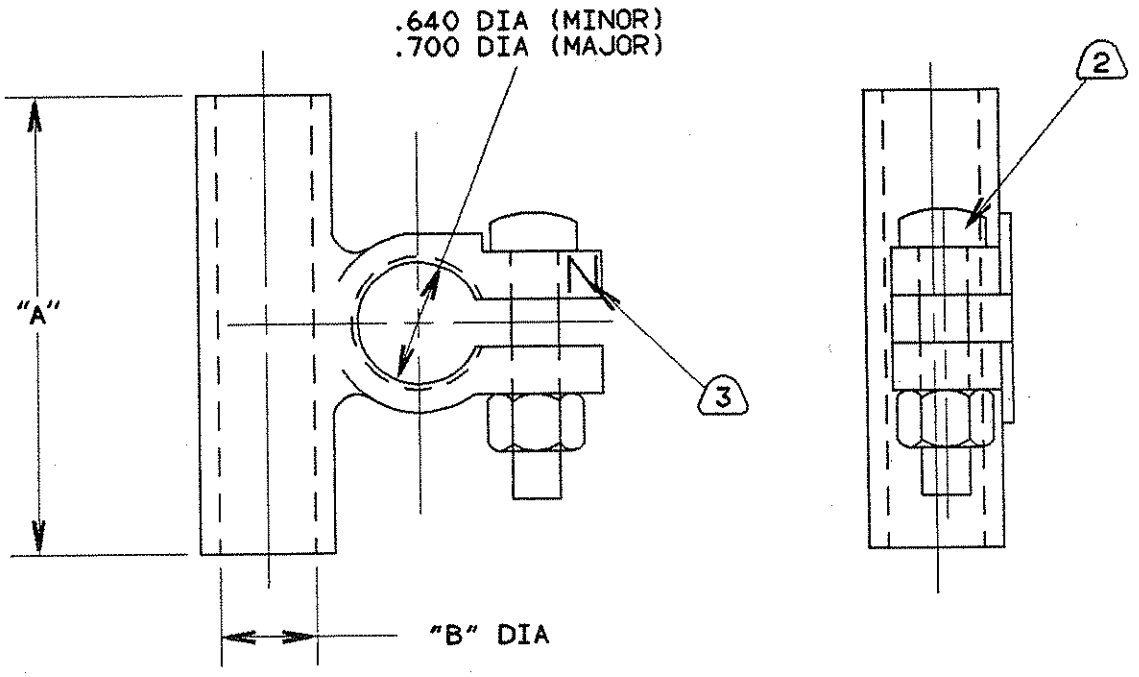
COMPILED	DL	DATE DRAWN		MATERIAL	
APPROVED		2-28-75		(1)	

Portland FREIGHTLINER CORPORATION Oregon 97208

GENERAL USE PART

ORIGINAL JOB NO.	TITLE	PART NO.
A0710	TERMINAL, SPLIT BARREL FLAG, BATTERY CABLE	A23-10908
LAST CHG LTR: B		SHEET 1 OF 1

SKETCH:



PART NUMBERS:

"A" DIM(MAX)	"B" DIA.	POLARITY	CABLE SIZE	MANUFACTURER'S NUMBER ASI			FREIGHTLINER PART NUMBER
2.400	.500	NEG	2/0	29716-1			A23-10908-021
2.400	.500	POS	2/0	29716-2			A23-10908-022
2.400	.550	NEG	3/0	29718-1			A23-10908-031
2.400	.550	POS	3/0	29718-2			A23-10908-032
2.400	.656	NEG	4/0	29709			A23-10908-041
2.400	.656	POS	4/0	29710			A23-10908-042

ENGINEERING NOTES:

(1) MATERIAL: LEAD COATED OR TIN PLATED COPPER

(2) SQ. HD. MACHINE SCREW, 1/4-20UNC-2A

(3) LABEL: TERMINAL DESIGNATION-NEGATIVE (N OR -) OR POSITIVE (P OR +) STAMPED OR CAST

4 ONLY SOURCES SHOWN ABOVE MAY BE USED FOR THIS TERMINAL. NO ALTERNATE SOURCES MAY BE USED UNLESS APPROVED BY PRODUCT ENGINEERING

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION
B1	4431B	SJF	2-6-86	REDRAWN TO CADAM
B2	4431B	SJF	2-6-86	2.400 WAS 2.38
B3	4431B	SJF	2-6-86	ADD "MAX"&COATING&PLATE
B4	4431B	SJF	2-6-86	ADDED NOTE 4

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION

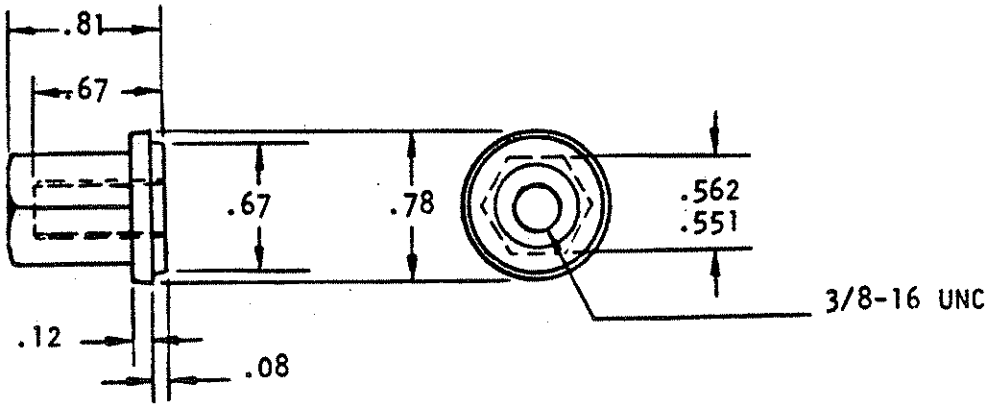
COMPILED	D. LEL	DATE DRAWN	CADAM ORIGINAL	MATERIAL	MASTER NUMBER	
APPROVED	DJL	02-06-86		(1)	29105	291D1

PORTLAND FREIGHTLINER CORPORATION OREGON 97208

AC-826

ORIGINAL JOB NO.	TITLE	PART NO.
E0272	Nut, Cap, Battery Terminal	23-11145
LAST CHG LTR		SHEET 1 OF 1

SKETCH



PART NUMBERS

NTR	DR	MSP		FREIGHTLINER
1200-8084	1892161	2818-1		23-11145-0

ENGINEERING NOTES

MATERIAL: STAINLESS STEEL

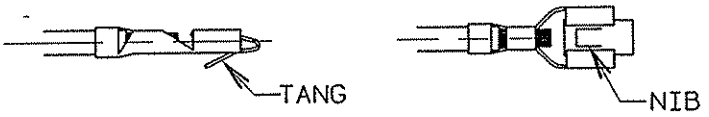
COMPILED	JDC	DATE DRAWN			
APPROVED		10/25/78			

CHANGE INFORMATION | LTR | JOB NO. | BY | DATE

CHANGE INFORMATION | LTR | JOB NO. | BY | DATE

M/F

DRAWN	DDM	TITLE TERMINAL-BLADE RECEPTACLE 56-SERIES	ITEM NUMBER 23-11192
APPRV	DJL		
DATE	04/30/85	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1



WIRE SIZE	TIN PLATE	NIB	APPROVED SOURCES AND PART NUMBERS					F/L DASH NUMBER
			PAC	ESX	AI	ARK		
10	X	X	6288913	361030-VX02				110
12	X	X	2965143	361030-VX02			4	112
14/16	X	X	2965142	361430-VX02	640417-2		3	114
18/20	X	X	2965141	361830-VX02				118
14&14	X	X	2965467	361130-VX02				124
14/16	X		2965867	361430-VY02				214
12	X		2989877					212
18/20	X		2965510					218
14/14	X		2965891					224

NOTE:

1. ONLY SOURCES SHOWN ABOVE MAY BE USED FOR THIS TERMINAL. NO ALTERNATE SOURCES MAY BE USED UNLESS APPROVED BY CORPORATE ENGINEERING. WHILE THE ABOVE ARE APPROVED BY ENGINEERING, IN HOUSE MANUFACTURING IS GENERALLY TOOLED FOR ONLY ONE VENDOR PER DASH NUMBER. CHECK WITH MANUFACTURING SERVICES FOR TOOLING COMPATIBILITY BEFORE SPECIFYING OR PURCHASING.

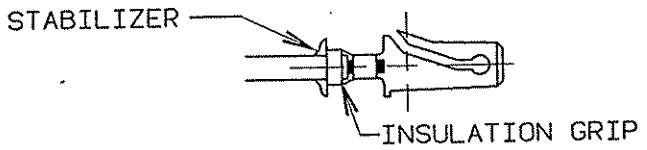
2. MATERIAL: .018 THICK TIN PLATED CDA 210 OR 260 BRASS.

3 ALTERNATE: PAC/12124515

4 ALTERNATE: PAC/12124518

CHG	JOB/RLSE NO	DATE	BY	REVISION
E	P0767J-01	03/22/95	DAJ	REVISED AND REDRAWN, ADDED NOTE 3 AND 4.
F	P3630J-01	10/10/95	JAV	REMOVED ARK P/N 3000H83A FROM -114.

DRAWN	DAJ	TITLE TERMINAL-BLADE 56-SERIES	ITEM NUMBER 23-11193
APPRV	PCK		
DATE	10/17/88	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 6



WIRE SIZE	INSUL GRIP	STAB	APPROVED SOURCES AND PART NUMBERS					F/L DASH NUMBER
			PAC	ESX	AI	ARK		
10	X	(3)	(5) 8917283	381025-CJ02				-110 (4)
12	X		2971859	381025-CJ02				-112
14/16	X	X	12010106	381425-D02	640416-2			-114
18/20	X	X	2965439	381825-D02				-118
14&14			2977994					-124 (4)

NOTE:

1. ONLY SOURCES SHOWN ABOVE MAY BE USED FOR THIS TERMINAL. NO ALTERNATE SOURCES MAY BE USED UNLESS APPROVED BY CORPORATE ENGINEERING. WHILE THE ABOVE ARE APPROVED BY ENGINEERING, IN HOUSE MANUFACTURING IS GENERALLY TOOLED FOR ONLY ONE VENDOR PER DASH NUMBER. CHECK WITH MANUFACTURING SERVICES FOR TOOLING COMPATIBILITY BEFORE SPECIFYING OR PURCHASING.
2. MATERIAL: .032 THICK TIN PLATED CDA 260 BRASS 1/2 HARD.
   EXCEPTION: -110 IS NON-PLATED CU ALLOY.

(3) STABILIZER ON 8917283 PAC ONLY

(4) NOT TO BE SPECIFIED ON NEW DESIGNS.

(5) ACCEPTABLE ALTERNATE: 2977994 PAC (W/O INSULATION GRIP.)
FOR SERVICE DEPARTMENT USE ONLY

CHG	JOB/RLSE NO	DATE	BY	REVISION
E	P7396D-04	10/17/88	DAJ	REDRAWN. ADDED CRIMP DIMENSIONS
F	P3630J-01	10/10/95	JAV	REMOVED ARK P/N 3000M742A FROM -114.

DRAWN	RDF	TITLE TERMINAL-BLADE 56-SERIES	ITEM NUMBER 23-11193
APPRV	PCK		
DATE	10/17/88	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 2 OF 6

TERMINAL CRIMP SPECIFICATION — P/N: PAC08917283

UNLESS OTHERWISE SPECIFIED, THIS TERMINAL MUST CONFORM TO FREIGHTLINER STANDARD 49-00052.

WIRE 1			WIRE 2			CRIMP DIMENSIONS			
GAUGE	INSUL	STRIP	GAUGE	INSUL	STRIP	CCH	CCW	ICH	ICW
12	GXL	-	-	-	-	3.00	4.60	4.50	5.90
12	GXL	-	-	-	-	3.00	4.60	4.90	5.90
10	GXL	-	-	-	-	3.20	4.65	5.00	5.90
20	GXL	-	12	SXL	-	3.05	4.60	4.50	5.90
12	SXL	-	-	-	-	3.00	4.60	4.90	5.90
10	SXL	-	-	-	-	3.20	4.65	5.00	5.90
20	HDT	-	12	GXL	-	3.05	4.60	4.70	6.10
20	HDT	-	12	SXL	-	3.05	4.60	4.70	6.10

TERMINAL CRIMP SPECIFICATION — P/N: PAC02971859

UNLESS OTHERWISE SPECIFIED, THIS TERMINAL MUST CONFORM TO FREIGHTLINER STANDARD 49-00052.

WIRE 1			WIRE 2			CRIMP DIMENSIONS			
GAUGE	INSUL	STRIP	GAUGE	INSUL	STRIP	CCH	CCW	ICH	ICW
12	HDT	-	-	-	-	2.70	4.45	4.30	5.50
12	GXL	-	-	-	-	2.70	4.45	4.30	5.40
12	GXL	-	-	-	-	2.70	4.45	4.30	5.40
12	SXL	-	-	-	-	2.70	4.45	4.40	5.50

CHG	JOB/RLSE NO	DATE	BY	REVISION
E	P7396D-04	10/17/88	DAJ	REDRAWN. ADDED CRIMP DIMENSIONS
F	P3630J-01	10/10/95	JAV	REMOVED ARK P/N 3000M742A -114, SEE PAGE 1.

DRAWN	RDF	TITLE TERMINAL-BLADE 56-SERIES	ITEM NUMBER 23-11193
APPRV	PCK		
DATE	10/17/88	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 3 OF 6

TERMINAL CRIMP SPECIFICATION	P/N: PAC12010106

UNLESS OTHERWISE SPECIFIED, THIS TERMINAL MUST CONFORM TO FREIGHTLINER STANDARD 49-00052.

WIRE 1			WIRE 2			CRIMP DIMENSIONS			
GAUGE	INSUL	STRIP	GAUGE	INSUL	STRIP	CCH	CCW	ICH	ICW
16	SXL	-	-	-	-	2.25	3.45	4.10	5.20
14	SXL	-	-	-	-	2.35	3.45	4.20	5.20
16	HDT	-	-	-	-	2.25	3.45	4.20	5.20
14	HDT	-	-	-	-	2.35	3.45	4.30	5.20

TERMINAL CRIMP SPECIFICATION	P/N: PAC02965439

UNLESS OTHERWISE SPECIFIED, THIS TERMINAL MUST CONFORM TO FREIGHTLINER STANDARD 49-00052.

WIRE 1			WIRE 2			CRIMP DIMENSIONS			
GAUGE	INSUL	STRIP	GAUGE	INSUL	STRIP	CCH	CCW	ICH	ICW
20	SXL	-	-	-	-	2.00	3.00	3.40	4.30
18	SXL	-	-	-	-	2.05	3.00	4.00	4.30
18	SXL	-	-	-	-	2.05	3.00	4.00	4.30
20	HDT	-	-	-	-	2.00	3.00	3.80	4.30
18	HDT	-	-	-	-	2.05	3.00	4.00	4.30
18	HDT	-	-	-	-	2.05	3.00	4.00	4.30

CHG	JOB/RLSE NO	DATE	BY	REVISION
E	P7396D-04	10/17/88	DAJ	REDRAWN. ADDED CRIMP DIMENSIONS
F	P3630J-01	10/10/95	JAV	REMOVED ARK P/N 3000M742A -114, SEE PAGE 1.

DRAWN	RDF	TITLE TERMINAL-BLADE 56-SERIES	ITEM NUMBER 23-11193
APPRV	PCK		
DATE	10/17/88	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 4 OF 6

TERMINAL CRIMP SPECIFICATION

P/N: PAC02977994

UNLESS OTHERWISE SPECIFIED, THIS TERMINAL MUST CONFORM TO FREIGHTLINER STANDARD 49-00052.

WIRE 1			WIRE 2			CRIMP DIMENSIONS			
GAUGE	INSUL	STRIP	GAUGE	INSUL	STRIP	CCH	CCW	ICH	ICW
16	GXL	-	16	GXL	-	2.45	4.90	0.00	0.00
16	GXL	-	14	GXL	-	2.60	4.95	0.00	0.00
16	GXL	-	12	GXL	-	2.80	4.95	0.00	0.00
16	GXL	-	16	SXL	-	2.45	4.90	0.00	0.00
16	GXL	-	14	SXL	-	2.60	4.95	0.00	0.00
16	GXL	-	12	SXL	-	2.80	4.95	0.00	0.00
16	GXL	-	16	HDT	-	2.45	4.90	0.00	0.00
16	GXL	-	14	HDT	-	2.60	4.95	0.00	0.00
16	GXL	-	12	HDT	-	2.80	4.95	0.00	0.00
14	GXL	-	14	GXL	-	2.70	4.95	0.00	0.00
14	GXL	-	12	GXL	-	2.85	4.95	0.00	0.00
14	GXL	-	14	SXL	-	2.70	4.95	0.00	0.00
14	GXL	-	12	SXL	-	2.85	4.95	0.00	0.00
14	GXL	-	14	HDT	-	2.70	4.95	0.00	0.00
14	GXL	-	12	HDT	-	2.85	4.95	0.00	0.00
12	GXL	-	-	-	-	2.80	4.60	0.00	0.00
10	GXL	-	-	-	-	2.85	4.60	0.00	0.00
18	GXL	-	-	-	-	2.45	4.90	0.00	0.00
18	GXL	-	-	-	-	2.80	4.95	0.00	0.00
18	GXL	-	16	SXL	-	2.45	4.90	0.00	0.00
18	GXL	-	12	SXL	-	2.80	4.95	0.00	0.00

CHG	JOB/RLSE NO	DATE	BY	REVISION
E	P7396D-04	10/17/88	DAJ	REDRAWN. ADDED CRIMP DIMENSIONS
F	P3630J-01	10/10/95	JAV	REMOVED ARK P/N 3000M742A -114, SEE PAGE 1.

DRAWN	RDF	TITLE TERMINAL-BLADE 56-SERIES	ITEM NUMBER 23-11193
APPRV	PCK		
DATE	11/17/88	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 5 OF 6

TERMINAL CRIMP SPECIFICATION	P/N: PAC02977994

UNLESS OTHERWISE SPECIFIED, THIS TERMINAL MUST CONFORM TO FREIGHTLINER STANDARD 49-00052.

WIRE 1			WIRE 2			CRIMP DIMENSIONS			
GAUGE	INSUL	STRIP	GAUGE	INSUL	STRIP	CCH	CCW	ICH	ICW
18	GXL	-	16	HDT	-	2.45	4.90	0.00	0.00
18	GXL	-	12	HDT	-	2.80	4.95	0.00	0.00
16	SXL	-	14	GXL	-	2.60	4.95	0.00	0.00
16	SXL	-	12	GXL	-	2.80	4.95	0.00	0.00
16	SXL	-	16	SXL	-	2.45	4.90	0.00	0.00
16	SXL	-	14	SXL	-	2.60	4.95	0.00	0.00
16	SXL	-	12	SXL	-	2.80	4.95	0.00	0.00
16	SXL	-	16	HDT	-	2.45	4.90	0.00	0.00
16	SXL	-	14	HDT	-	2.60	4.95	0.00	0.00
16	SXL	-	12	HDT	-	2.80	4.95	0.00	0.00
14	SXL	-	12	GXL	-	2.85	4.95	0.00	0.00
14	SXL	-	14	SXL	-	2.70	4.95	0.00	0.00
14	SXL	-	12	SXL	-	2.85	4.95	0.00	0.00
14	SXL	-	14	HDT	-	2.70	4.95	0.00	0.00
14	SXL	-	12	HDT	-	2.85	4.95	0.00	0.00
12	SXL	-	-	-	-	2.80	4.60	0.00	0.00
10	SXL	-	-	-	-	2.85	4.60	0.00	0.00
18	SXL	-	16	GXL	-	2.45	4.90	0.00	0.00
18	SXL	-	12	GXL	-	2.80	4.95	0.00	0.00
18	SXL	-	16	SXL	-	2.45	4.90	0.00	0.00
18	SXL	-	12	SXL	-	2.80	4.95	0.00	0.00

CHG	JOB/RLSE NO	DATE	BY	REVISION
E	P7396D-04	10/17/88	DAJ	REDRAWN. ADDED CRIMP DIMENSIONS
F	P3630J-01	10/10/95	JAV	REMOVED ARK P/N 3000M742A -114, SEE PAGE 1.

DRAWN	RDF	TITLE TERMINAL-BLADE 56-SERIES	ITEM NUMBER 23-11193
APPRV	PCK		
DATE	11/17/88	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 6 OF 6

TERMINAL CRIMP SPECIFICATION	P/N: PAC02977994

UNLESS OTHERWISE SPECIFIED, THIS TERMINAL MUST CONFORM TO FREIGHTLINER STANDARD 49-00052.

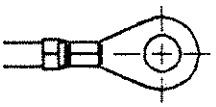
WIRE 1			WIRE 2			CRIMP DIMENSIONS			
GAUGE	INSUL	STRIP	GAUGE	INSUL	STRIP	CCH	CCW	ICH	ICW
18	SXL	-	16	HDT	-	2.45	4.90	0.00	0.00
18	SXL	-	12	HDT	-	2.80	4.95	0.00	0.00
16	HDT	-	14	GXL	-	2.60	4.95	0.00	0.00
16	HDT	-	12	GXL	-	2.80	4.95	0.00	0.00
16	HDT	-	14	SXL	-	2.60	4.95	0.00	0.00
16	HDT	-	12	SXL	-	2.80	4.95	0.00	0.00
16	HDT	-	16	HDT	-	2.45	4.90	0.00	0.00
16	HDT	-	14	HDT	-	2.60	4.95	0.00	0.00
16	HDT	-	12	HDT	-	2.80	4.95	0.00	0.00
14	HDT	-	12	GXL	-	2.85	4.95	0.00	0.00
14	HDT	-	12	SXL	-	2.85	4.95	0.00	0.00
14	HDT	-	14	HDT	-	2.70	4.95	0.00	0.00

CHG	JOB/RLSE NO	DATE	BY	REVISION
E	P7396D-04	10/17/88	DAJ	REDRAWN. ADDED CRIMP DIMENSIONS
F	P3630J-01	10/10/95	JAV	REMOVED ARK P/N 3000M742A -114, SEE PAGE 1.

23-11194

GENERAL USE PART

ORIGINAL JOB NO.	TITLE	PART NO.
6138C	TERMINAL - RING 56-SERIES	23-11194
LAST CHG LTR: B		SHEET 1 OF 1



WIRE SIZE	STUD SIZE	TIN PLATE	APPROVED SOURCES AND PART NUMBERS PAC	ESX	AI		DASH NUMBER
8	8	X	12004438	110717-B02			108
10/12	8	X	12004436	101017-B02			110
14/16	8	X	2973851	101417-B02	40724		114
8	10	X	12004438	110720-B02	61866-1		208
10/12	10	X	12004436	101020-B02	41124		210
14/16	10	X	2973849	101420-B02			214
18/20	10	X	2977500	101620-B02	42037-2		218
6	1/4	X		110628-AK02	61868-1		306
8	1/4	X	12004439	110628-AK02			308
10/12	1/4	X	12004437	101028-B02	62691-2		310
14/16	1/4	X	2984576	101425-B02	61867-2		314
6/8	5/16	X	(2) 2977355	110634-AK02			406
8	5/16	X	12004439	110634-AK02			408
10/12	5/16	X	12004437	101034-B02	41126		410
6	3/8	X	(2) 2962064	110640-AK02	61862-1		506
8	3/8	X	12004439	110640-AK02			508
10/12	3/8	X	12004437	101040-D02			510
6	1/2	X		110653-AK02	61903-1		606
8	1/2	X	12004439	110751-D02	61903-1		608
10/12	1/2	X	12004437	101051-D02			610
14/16	6	X	2973853	101414-D02	40723		714

NOTE:

1. ONLY SOURCES SHOWN ABOVE MAY BE USED FOR THIS TERMINAL. NO ALTERNATE SOURCES MAY BE USED UNLESS APPROVED BY CORPORATE ENGINEERING. WHILE THE ABOVE ARE APPROVED BY ENGINEERING, IN HOUSE MANUFACTURING IS GENERALLY TOOLED FOR ONLY ONE VENDOR PER DASH NUMBER. CHECK WITH MANUFACTURING SERVICES FOR TOOLING COMPATIBILITY BEFORE SPECIFYING OR PURCHASING.

(2) PACKARD TERMINALS ONLY ARE NOT PLATED.

CHANGE INFORMATION

JOB NO.	BY	DATE	
6138C	DDM	04-30-85	REV'D NOTE 1./REDRAW ON CADAM

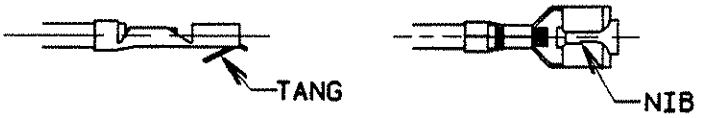
COMPILED	DDM	DATE DRAWN	CADAM ORIGINAL		MASTER NUMBER	
APPROVED	DJL	04-30-85			06090	000D1

GENERAL USE PART

23-11195

ORIGINAL JOB NO.	TITLE	PART NO.
6138C	TERMINAL - BLADE RECEPTACLE 58 SERIES	23-11195
LAST CHG LTR: C		SHEET 1 OF 1

SKETCH:



PART NUMBERS:

WIRE SIZE	TIN PLATE	NIB	APPROVED SOURCES & PART NUMBERS		F/L DASH NUMBER
			PAC		
12	X	X	2965580		112
14/16	X	X	6288218		114

ENGINEERING NOTES:

1. ONLY SOURCES SHOWN ABOVE MAY BE USED FOR THIS TERMINAL. NO ALTERNATE SOURCES MAY BE USED UNLESS APPROVED BY CORPORATE ENGINEERING. WHILE THE ABOVE ARE APPROVED BY ENGINEERING, IN HOUSE MANUFACTURING IS GENERALLY TOOLED FOR ONLY ONE VENDOR PER DASH NUMBER. CHECK WITH MANUFACTURING SERVICES FOR TOOLING COMPATIBILITY BEFORE SPECIFYING OR PURCHASING.

2. MATERIAL: .018 THICK TIN PLATE CDA 210 OR 260 BRASS.

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION
B	6138C	DDM	05-01-85	REV'D NOTE 1, REDRAW ON CADAM
C	3281D	DDM	09-09-85	REV'D TERMINAL SKETCH

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION

COMPILED	DDM	DATE DRAWN	CADAM ORIGINAL		MASTER NUMBER	
APPROVED	DJL	05-01-85			06090	000D1

EAC-826

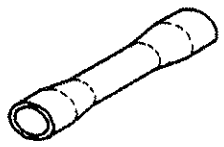
PORTLAND FREIGHTLINER CORPORATION OREGON 97208

GENERAL USE PART

23-11196

ORIGINAL JOB NO.	TITLE	PART NO.
E0381	SPLICE-WIRE, VINYL FUNNEL	23-11196
LAST CHG LTR: D		SHEET 1 OF 1

SKETCH:



PART NUMBERS:

WIRE SIZE	COLOR	APPROVED SOURCES & PART NUMBERS		FREIGHTLINER PART NUMBER
10/12	YELLOW	AI 2-34945-1 (LOOSE)	AI 2-34945-2 (TAPE)	23-11196-010
14/16	BLUE	AI 2-34071-2 (LOOSE)	AI 2-34071-3 (TAPE)	23-11196-014

ENGINEERING NOTES:

1. ONLY SOURCES SHOWN ABOVE MAY BE USED FOR THIS TERMINAL. NO ALTERNATE SOURCES MAY BE USED UNLESS APPROVED BY CORPORATE ENGINEERING. WHILE THE ABOVE ARE APPROVED BY ENGINEERING, IN HOUSE MANUFACTURING IS GENERALLY TOOLED FOR ONLY ONE VENDOR PER DASH NUMBER. CHECK WITH MANUFACTURING SERVICES FOR TOOLING COMPATIBILITY BEFORE SPECIFYING OR PURCHASING.

2. ONLY THE -010 SPLICE CAN BE USED FOR MULTIPLE WIRE SPLICING AS LONG AS THE COMBINED TOTAL OF THE WIRE CIRCULAR MIL AREAS(CMA) FALL WITHIN THE REQUIRED 5180-13100 RANGE.
   14 GA=3838 CMA; 16 GA=2426 CMA; 18 GA=1900 CMA
   IT MAY BE NECESSARY TO DOUBLE BACK THE WIRE CORE OR INSERT ALL WIRES AT ONE END TO SATISFY THE CMA RANGE REQUIREMENT.
   NOTE: THE WIRE INSULATION WILL ALLOW A MAXIMUM OF TWO 14 GA, THREE 16 GA; OR FIVE 18 GA WIRES PER SIDE.

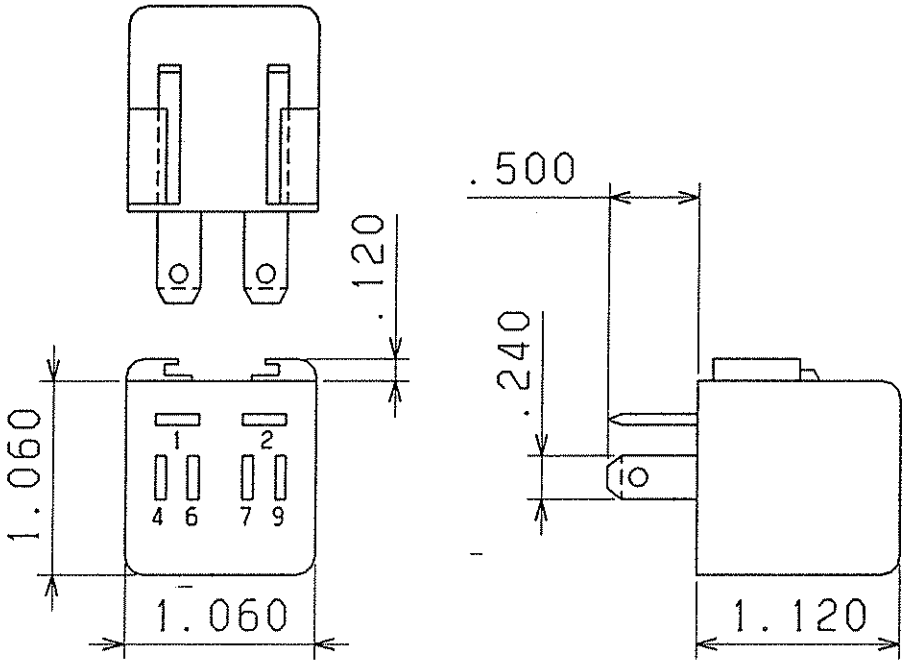
LTR	JOB NO.	BY	DATE	CHANGE INFORMATION

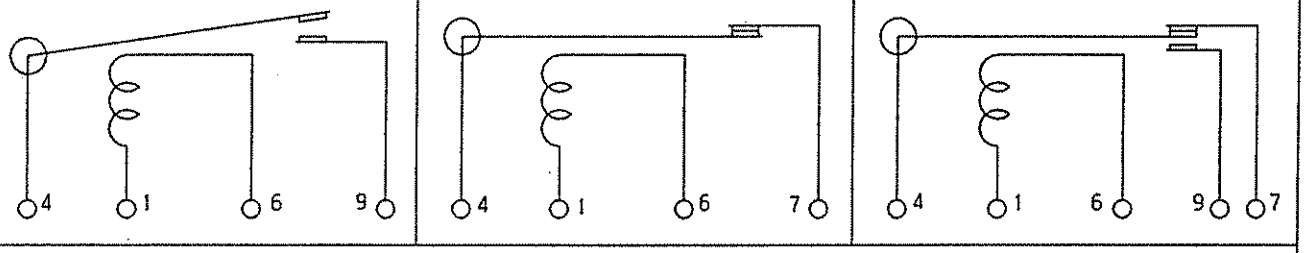
LTR	JOB NO.	BY	DATE	CHANGE INFORMATION
B	4571C	TDT	9-04-84	REVISED AND REDRAWN ON CADAM
C	6138C	DDM	04-30-86	REVISED NOTE 1
D	6268C	DDM	07-10-86	ADDED NOTE 2

COMPILED	TDT	DATE DRAWN	CADAM ORIGINAL		MASTER NUMBER	
APPROVED	BAM	09-04-84			06140	00001

DRAWN	RDF	TITLE	DRAWING NUMBER
APPRV	RDF	RELAY, ELECTRIC	23-11276
DATE	07/28/89	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 3 / CHG. LTR. J
CATIA ORIGINAL			

UNLESS OTHERWISE NOTED, DIMENSIONS ARE IN INCHES





SPST NO SPST NC SPDT

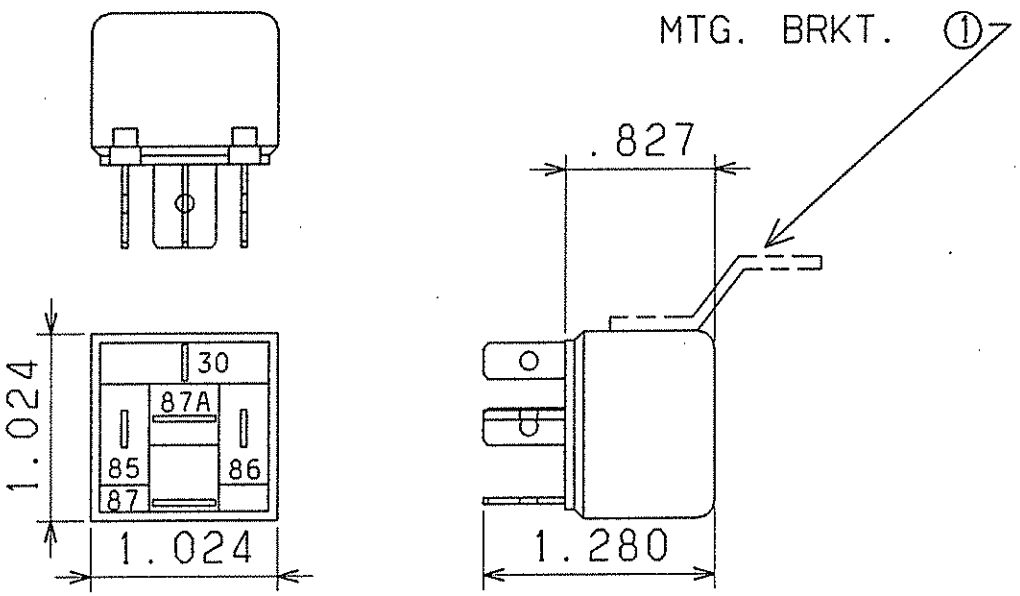
TYPE	VOLTS	AMPS	MANUFACTURERS PART NUMBER NTR		TYPE
SPST NO	12	30	2750-2-P		23-11276-000
SPDT	12	30	2750-10-P		23-11276-001
SPST NC	6	30	2750-5-P		23-11276-002
SPST NC	12	30	2750-6-P		23-11276-003

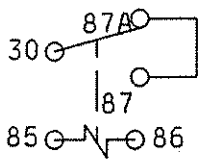
NOTES:
1. ALL DIMENSIONS FOR REFERENCE ONLY

CHG	JOB NO	DATE	BY	REVISION
H	P02393-01	03/26/97	JCT	REVISED AND REDRAWN IN CATIA, ADDED SHT 3 AND -100.
J	PA2042-82	12/23/97	DAJ	REVISED VENDOR NUMBER, SEE SHEET 3.

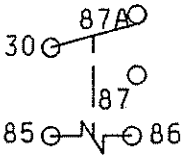
DRAWN	RDF	TITLE	DRAWING NUMBER
APPRV	RDF	RELAY, ELECTRIC	23-11276
DATE	07/28/89	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 2 OF 3 / CHG. LTR. J
CATIA ORIGINAL			

UNLESS OTHERWISE NOTED, DIMENSIONS ARE IN INCHES





SPST



SPDT

TYPE	VOLTS	AMPS	MANUFACTURER PART NUMBER		F/L PART #
			BSH	POT	
SPDT	12	30		VF4-15F11 VF4-75F11	23-11276-011
① SPDT	6	30	0 332 204 001	VF4-45D11	23-11276-012

NOTES:

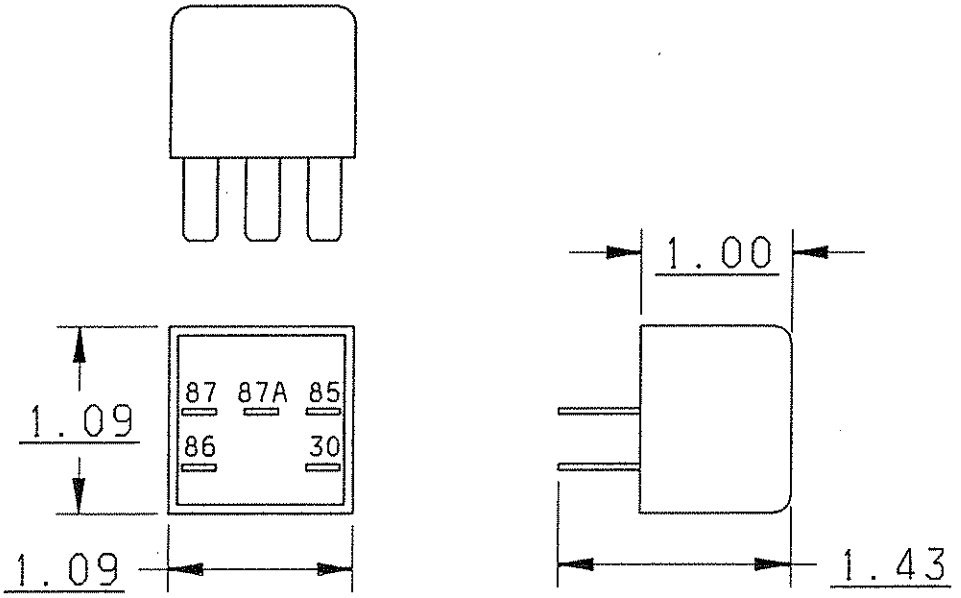
① WITH MOUNTING BRACKET

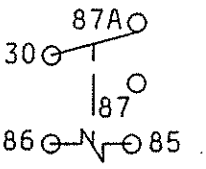
2. TO BE USED W/ BSH/3 334 485008 MODULE & 23-11422 TERMINALS.

3. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

CHG	JOB NO	DATE	BY	REVISION
H	P02393-01	03/26/97	JCT	REVISED AND REDRAWN IN CATIA, ADDED SHT 3 AND -100.
J	PA2042-82	12/23/97	DAJ	REVISED VENDOR NUMBER, SEE SHEET 3.

DRAWN	RDF	TITLE	DRAWING NUMBER	
APPRV	RDF	RELAY, ELECTRIC	23-11276	
DATE	07/28/89			
CATIA ORIGINAL		FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 3 OF 3	CHG. LTR. J
UNLESS OTHERWISE NOTED, DIMENSIONS ARE IN INCHES				





SPDT

TYPE	VOLTS	AMPS	MANUFACTURER PART NUMBER		F/L PART #
			PAC	POT	
J SPDT	12	40	12077865 12193602	VF28-15F14S01	23-11276-100

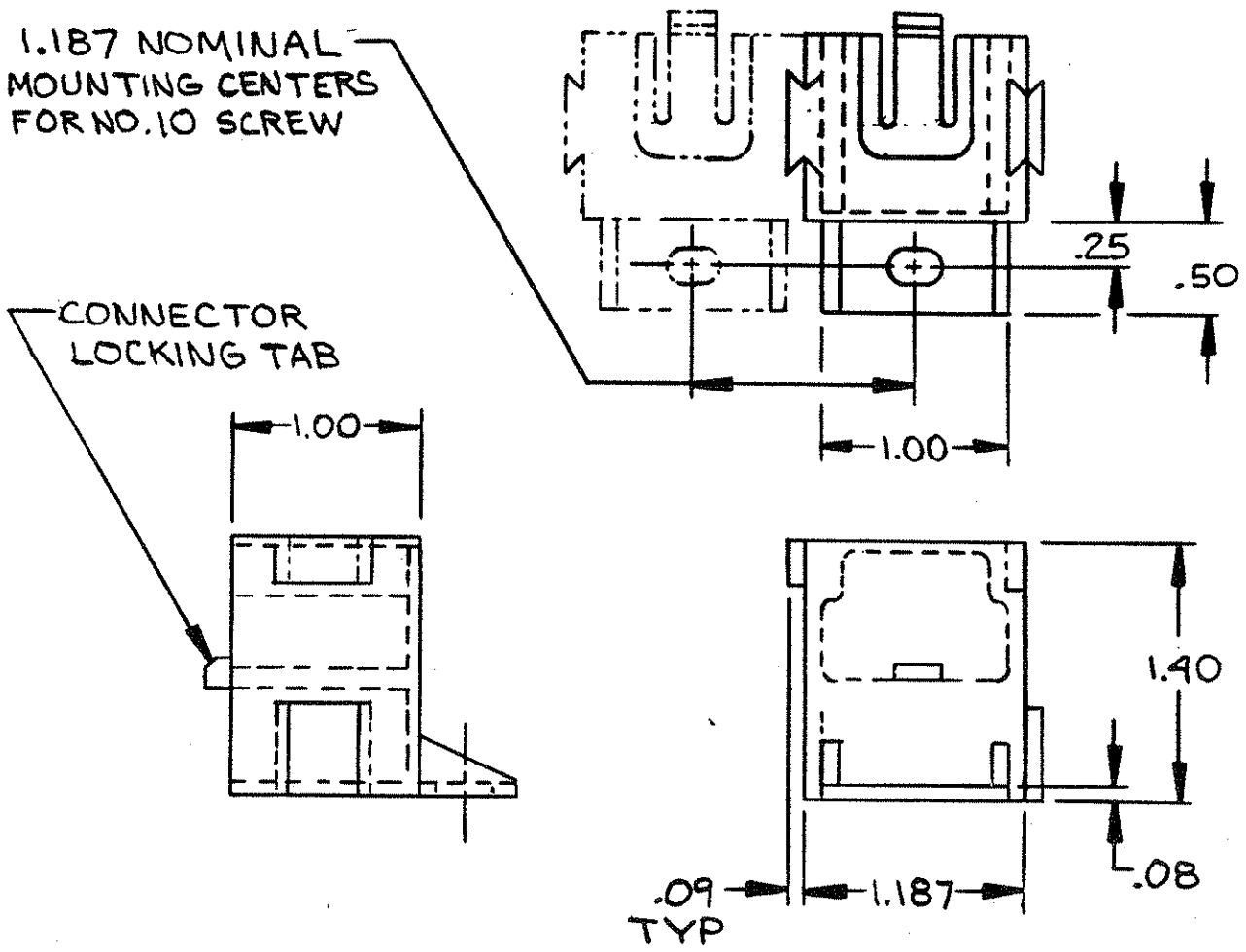
NOTES:

1. ALTERNATE SUPPLIERS MAY BE USE WITH ELECTRICAL ENGINEERING APPROVAL.
2. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

CHG	JOB NO	DATE	BY	REVISION
H	P02393-01	03/26/97	JCT	REVISED AND REDRAWN IN CATIA, ADDED SHT 3 AND -100.
J	PA2042-82	12/23/97	DAJ	VENDOR NUMBER VF28-15F14S01 WAS VF28-15F14Z03

X1

ORIGINAL JOB NO.	TITLE	PART NO.
E0323	MOUNTING BRACKET, RELAY	23-11277
LAST CHG LTR A		SHEET 1 OF 1



MANUFACTURERS NO.

NTR

2761

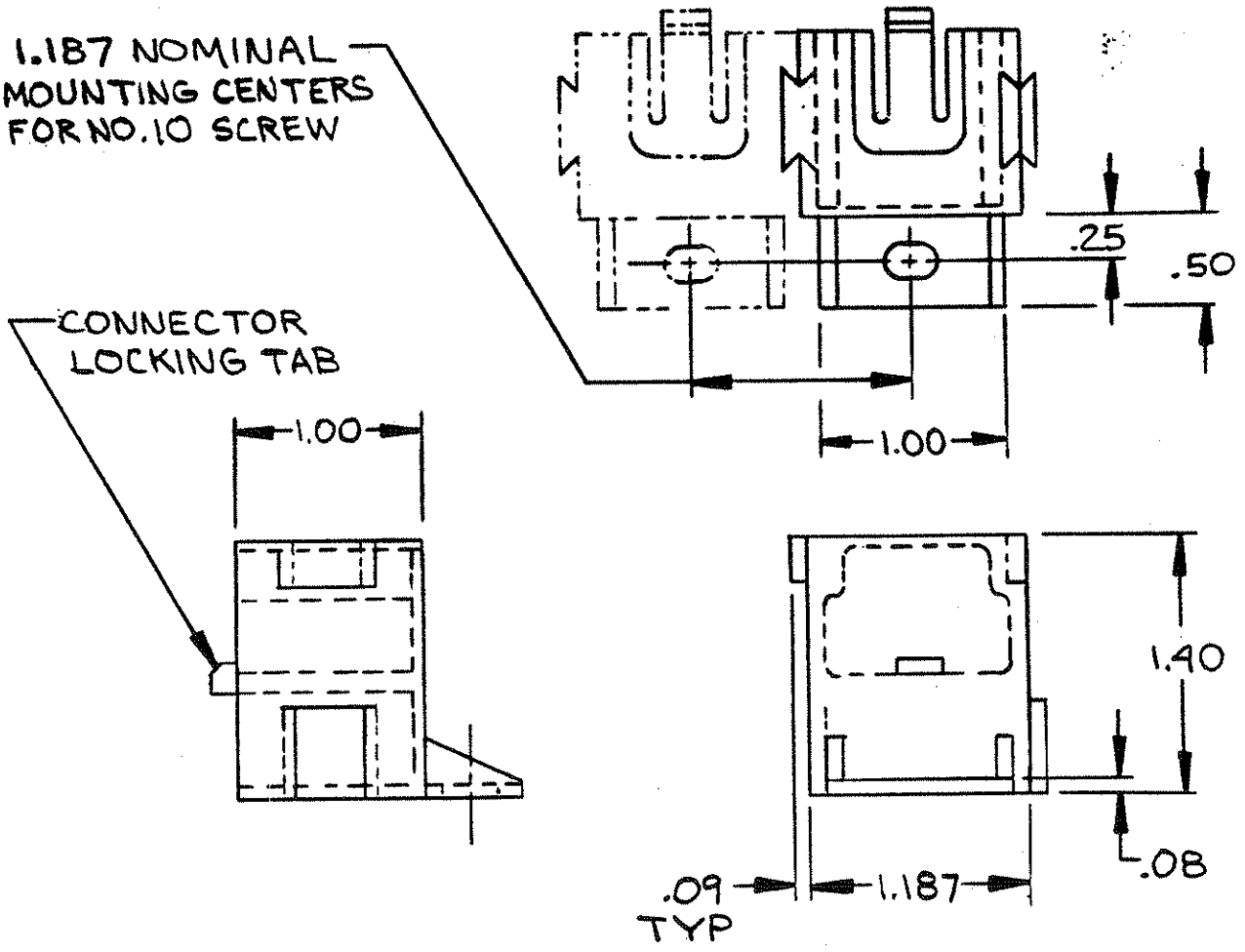
PRE-RELEASE PRINT

COMPILED	DS	DATE DRAWN
APPROVED		11/4/80

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION
A	E0699	DS	10-12-82	C TO UC; DWG. TO X1.

ORIGINAL JOB NO.	TITLE	PART NO.
E0323	MOUNTING BRACKET, RELAY	23-11277
LAST CHG LTR		SHEET 1 OF 1



MANUFACTURERS NO.

NTR			
2761			

COMPILED	DS	DATE DRAWN			
APPROVED		11/4/80			

CHANGE INFORMATION | DATE | BY | JOB NO. | LTR

CHANGE INFORMATION | DATE | BY | JOB NO. | LTR

E-183A Litho in USA Portland

FREIGHTLINER CORPORATION

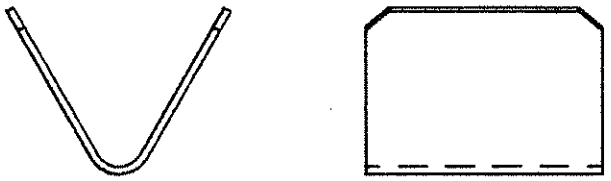
Oregon 97208

GENERAL USE PART

23-11283

ORIGINAL JOB NO.	TITLE	PART NO.
6138C	SPLICE CLIP, WIRE	23-11283
LAST CHG LTR: A		SHEET 1 OF 1

SKETCH:



PART NUMBERS:

CM AREA		APPROVED SOURCES & PART NUMBERS		F/L DASH NUMBER
MIN	MAX	PAC		
12000	24000	1839906		000

ENGINEERING NOTES:

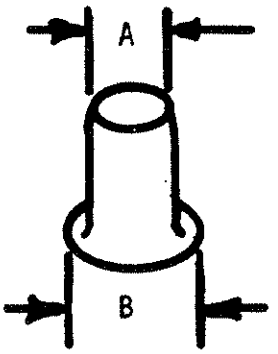
1. ONLY SOURCES SHOWN ABOVE MAY BE USED FOR THIS TERMINAL. NO ALTERNATE SOURCES MAY BE USED UNLESS APPROVED BY CORPORATE ENGINEERING. WHILE THE ABOVE ARE APPROVED BY ENGINEERING, IN HOUSE MANUFACTURING IS GENERALLY TOOLED FOR ONLY ONE VENDOR PER DASH NUMBER. CHECK WITH MANUFACTURING SERVICES FOR TOOLING COMPATIBILITY BEFORE SPECIFYING OR PURCHASING.

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION
A	6138C	DDM	05-01-85	REV'D NOTE 1, REDRAWN ON CADAM

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION

COMPILED	DDM	DATE DRAWN	CADAM ORIGINAL		MASTER NUMBER	
APPROVED	DJL	05-01-85			06140	00001

ORIGINAL JOB NO.	TITLE	PART NO.
C1500B	ROLLED FLANGE EYELET	23-11285
LAST CHG LTR		SHEET OF



A - Outside Diameter

C - Material Thickness

B - Flange Diameter

Installation Hole DIA	A	B	C	Manufacturer's Part No. STI*			Freightliner Part Number
1/16	.059	.105	.007	GS2-3 thru GS2-7			23-11285-2xx
3/22	.089	.150	.009	GS3-3 thru GS3-12			23-11285-3xx
1/8	.121	.200	.0095	GS4-3 thru GS4-12			23-11285-4xx
5/32	.152	.245	.010	GS5-3 thru GS5-12			23-11285-5xx
3/16	.183	.290	.0105	GS6-3 thru GS6-14			23-11285-6xx
7/32	.215	.340	.011	GS7-3 thru GS7-14			23-11285-7xx
1/4	.246	.385	.011	GS8-3 thru GS8-14			23-11285-8xx

Complete Freightliner dash number with two digits specifying length under flange in 32nds. First digit specifies nominal outside diameter (installation hole diameter.) e.g. 23-11285-405 is .125 nominal O.D. eyelet 5/32 of an inch long.

Material: Brass (other materials available).

Finish: Plain (nickel-plated and painted available).

Tolerance: Diametral ±.002

*Stimpson numbering system: First digit is nominal O.D. in 32nds., second is shank length in 32nds. Available "off the-shelf" in sizes noted above.

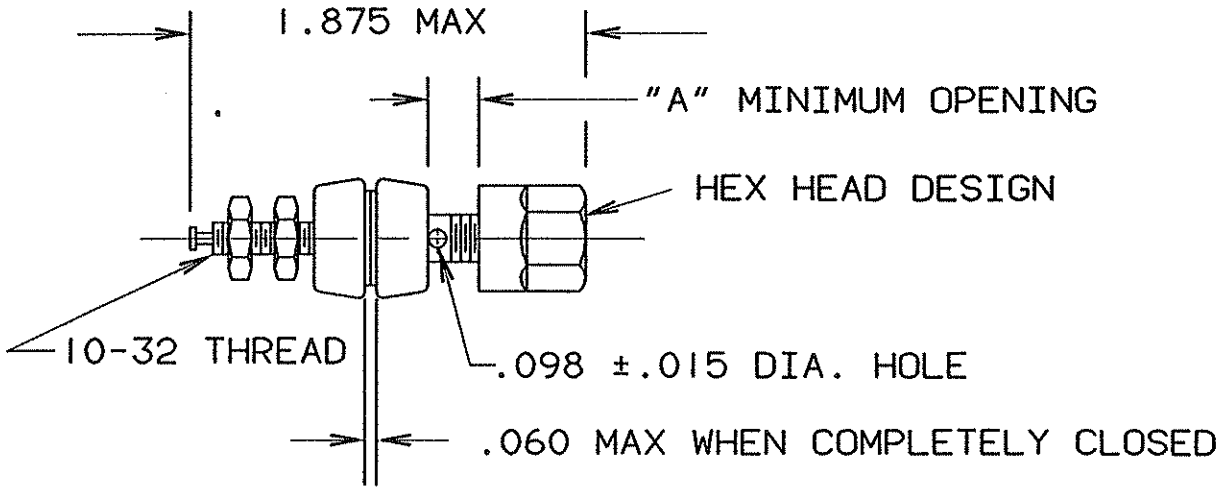
COMPILED	RDF	DATE DRAWN			
APPROVED	BEL	6-10-80			

CHANGE INFORMATION | DATE | BY | JOB NO. | LTR

CHANGE INFORMATION | DATE | BY | JOB NO. | LTR

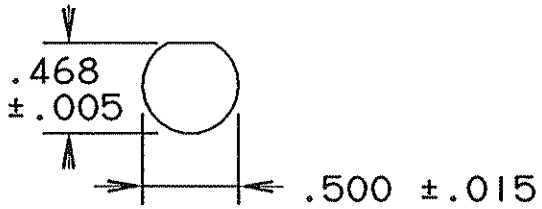
Portland FREIGHTLINER CORPORATION M/F Oregon 97208

DRAWN	RDF	TITLE POST,BINDING POWER TRAP	ITEM NUMBER 23-11328
APPRV	PCK		
DATE	01/19/89	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1



A DIM	APPROVED SUPPLIERS				COLOR	FL PART NO.
	ALD	SUP	PSO			
.188	920-0561				BLK	23-11328-001 (3)
.125/.250		A214858-001	260B	899-103	BLK	23-11328-002
.188	920-0563				RED	23-11328-006 (3)
.125/.250		A214858-002	260R	899-102	RED	23-11328-007

1. MUST FIT A .500 DIA "D" STYLE MOUNTING HOLE AS SHOWN BELOW (-002 AND -007 ONLY). -001 AND -006 MUST FIT A .500 ±.015 DIA MOUNTING HOLE.



2. BINDING POST TO ACCEPT STANDARD BANANA PLUG, .080 PHONE TIP PLUG, STRANDED OR SOLID WIRE UP TO 14 AWG, SPADE FORK AND ALLIGATOR CLIP.

(3) 8-24 AND 10-24 THD ACCEPTABLE(-001 & -006 ONLY).

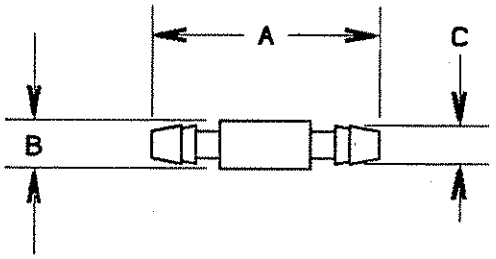
CHG	JOB/RLSE NO	DATE	BY	REVISION
F	P9760E-01	01/19/89	RDF	DOCUMENTED.ADDED PSO NUMBERS
G	P3625J-01	09/14/94	DAJ	ADDED ALTERNATE PSO PART NUMBERS

23-11346

GENERAL USE PART

ORIGINAL JOB NO.		TITLE	PART NO.
0103E		CONNECTOR, BRASS BARB	23-11346
LAST CHG LTR	C		SHEET 1 OF 1

SKETCH



PART NUMBERS

TUBING I.D.	A	B	C	MANUFACTURER'S NUMBER		FREIGHTLINER PART NUMBER
				ARS	PH	
.125	1.188	0.250	0.200	AWL50P	507A	23-11346-125

ENGINEERING NOTES

(1) BRASS

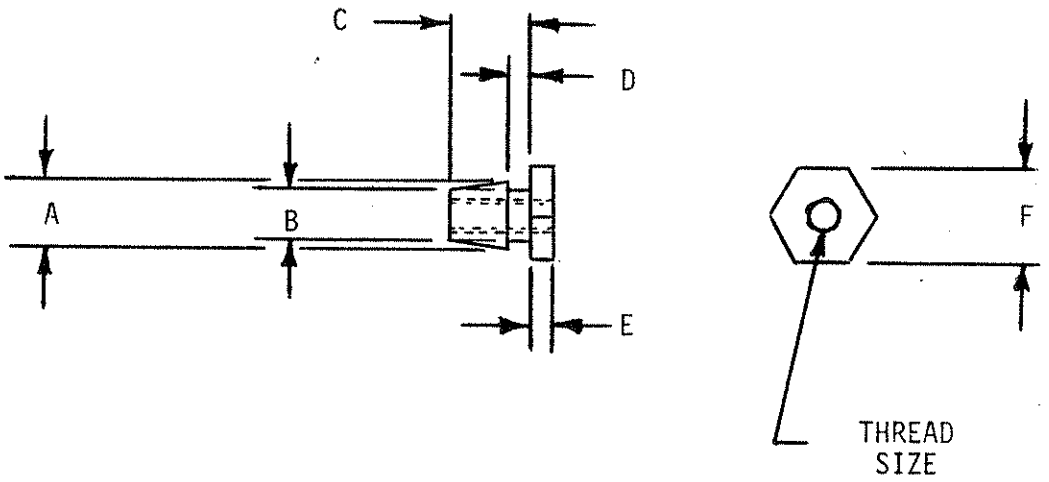
LTR	JOB NO.	BY	DATE	CHANGE INFORMATION
C1	0103E	DJL	09-12-86	REDRAWN TO CADAM
C2	0103E	DJL	09-12-86	ARS P/N TO AWL50P

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION

COMPILED	DJL	DATE DRAWN	CADAM ORIGINAL	MATERIAL	MASTER NUMBER	
APPROVED	DJL	09-12-86		(1)	05045	000D1

PORTLAND FREIGHTLINER CORPORATION OREGON 97208

ORIGINAL JOB NO.	TITLE	PART NO.
E0671	NUT, CIRCUIT BREAKER COVER	23-11374
LAST CHG LTR		SHEET 1 OF 1



THREAD SIZE	A DIA.	B DIA.	C SHOULDER LENGTH	D GROOVE WIDTH	E HEAD HEIGHT	F ACROSS FLATS	FREIGHT-LINER PART NO.
10-32 NF	.335 .353	.271 .291	.427 .447	.125 .135	.070 .130	.490 .519	23-11374-000

MATERIAL: Nylon 6, Nylon 12 or Delrin (Acetal)

COMPILED	PHILLIPS	DATE DRAWN			
APPROVED		1-21-82			

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION
	E0671	RLP	1/22/82	NEW

SAC-826

Portland FREIGHTLINER CORPORATION Oregon 97208

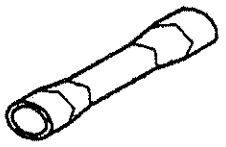
M/F

23-11779

GENERAL USE PART

ORIGINAL JOB NO.	TITLE	PART NO.
1981D	SPLICE-WIRE, WATERPROOF (2)	23-11779
LAST CHG LTR: A		SHEET 1 OF 1

SKETCH:



PART NUMBERS:

WIRE SIZE	COLOR	APPROVED SOURCES & PART NUMBERS		FREIGHTLINER PART NUMBER
10/12	YELLOW	(RYC) D-406-0003		23-11779-010
14/16	BLUE	(RYC) D-406-0002		23-11779-014

ENGINEERING NOTES:

1. ONLY SOURCES SHOWN ABOVE MAY BE USED FOR THIS TERMINAL. NO ALTERNATE SOURCES MAY BE USED UNLESS APPROVED BY CORPORATE ENGINEERING.

(2) NOT APPROVED FOR USE ON OUR VEHICLE.
REF: TONY MOORE'S MEMO DATED 8-6-85.

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION
A	6258C	DDM	10-17-85	ADDED NOTE 2

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION

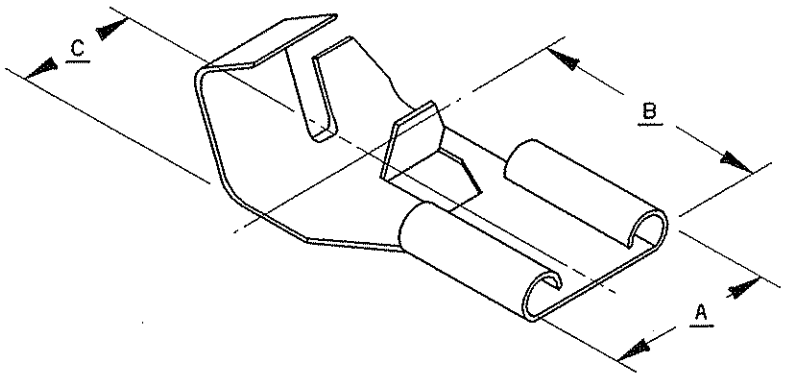
COMPILED	DJL	DATE DRAWN	CADAM ORIGINAL		MASTER NUMBER	
APPROVED	DJL	06-04-85			06140	000D1

EAC-826

PORTLAND FREIGHTLINER CORPORATION OREGON 97208

)RIENNE CHILBERG

DRAWN	FHC	TITLE BLADE-RECEPTACLE, FLAG	DRAWING NUMBER 23-12402
APPRV	DAJ		
DATE	11/05/96	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1 / CHG. LTR. -
CATIA ORIGINAL			



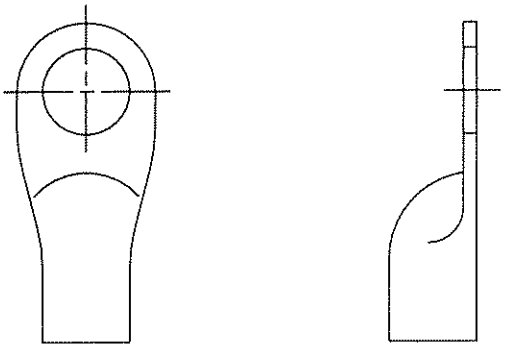
WIRE SIZE	DIMENSIONS			FREIGHTLINER PART NUMBER
	A	B	C	
14	6.3	14.2	4.3	23-12402-000

ENGINEERING NOTES:

1. MATERIAL: .08 THICK TIN PLATED CDA 210 OR 260 BRASS.
2. SUPPLIER: UTILUX H2593ET . OR ENGINEERING APPROVED ALTERNATE.

CHG	JOB NO	DATE	BY	REVISION
-	PA2103-J2	11/05/96	FHC	INITIAL RELEASE

DRAWN	DAJ	TITLE	DRAWING NUMBER	
APPRV	DAJ	TERMINAL-RING, TUBULAR	23-12446	
DATE	09/16/97			
CATIA ORIGINAL		FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1	CHG. LTR. B



CABLE GAUGE	STUD SIZE	VENDOR PART NUMBER		FREIGHTLINER PART NUMBER
		PANDUIT	AMY	
8	#10	S8-10R	8101-3	23-12446-080
	1/4	S8-14R	8141-3	23-12446-081
	5/16	S8-56R	8561-3	23-12446-082
	3/8	S8-38R	8382-3	23-12446-083
6	1/4	S6-14R (2)	6141-3	23-12446-061
	5/16	S6-56R	6561-3	23-12446-062
	3/8	S6-38R	6382-3	23-12446-063
2 & 1	1/4	S2-14R (2)	2141-3	23-12446-021
	5/16	S2-56R (2)	2561-3	23-12446-022
2/0	5/16	S2/0-56R (2)	20561-3	23-12446-202
	3/8	S2/0-38R	20381-3	23-12446-203

ENGINEERING NOTES:

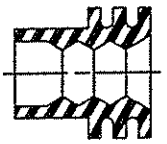
1. MATERIAL: SEAMLESS COPPER TUBE, TIN PLATED

(2) APPROVED ALTERNATES: -021, QUICK CABLE 5953-010D
-022, QUICK CABLE 5953-010E
-061, QUICK CABLE 5951-010D
-202, QUICK CABLE 5956-010E

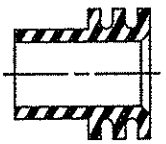
CHG	JOB NO	DATE	BY	REVISION
-	P03380-05	09/16/97	DAJ	INITIAL RELEASE
A	P03688-01	12/05/97	DAJ	ADDED -061, -202 AND -203.
B	P09351-39	08/20/99	CGD	ADDED AMY TO CHART AS AN APPROVED VENDOR

ADRIENNE CHILBERG

DRAWN	DAJ	TITLE	DRAWING NUMBER	
APPRV	DAJ	SEAL-CABLE METRI-PACK, 1 WAY	23-12497	
DATE	03/02/98	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1	CHG. LTR. -
CATIA ORIGINAL				



TYPE 1



TYPE 2

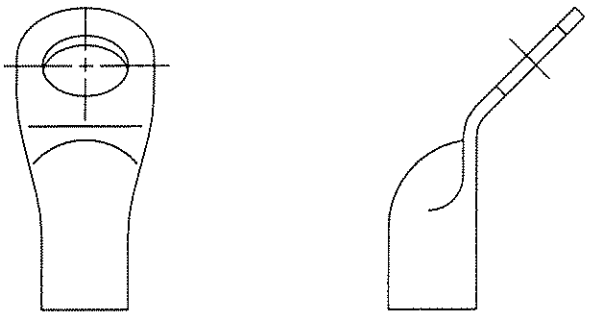
CABLE DIA.	SERIES	COLOR	TYPE	VENDOR/DELPHI		FREIGHTLINER PART NUMBER
				MYLAR STRIP	SEAL P/N	
3.49-2.81	280-W/P	LT GRA	2	12015359	12010293	23-12497-000
4.30-3.45	280-W/P	BLU	2	12015360	12015193	23-12497-001
2.85-2.03	280-W/P	GRN	1	12015284	12015323	23-12497-002
1.70-1.29	280-W/P	DK RED	1	12034365	12015899	23-12497-003
2.85-2.03	150	DK RED	1	12052924	12048086	23-12497-006
1.70-1.29	150	BLU	1	12052925	12048087	23-12497-007
2.85-2.01	480	WHT	1	12048433	12048441	23-12497-008
3.76-2.81	480	BRT RED	1	12052452	12048442	23-12497-009
4.50-3.61	480	PPL	1	12052453	12048443	23-12497-010
3.75-2.81	630	LT GRA	1	12059258	12052387	23-12497-012
2.85-2.01	630	DK RED	1	12059259	12052388	23-12497-013
4.50-3.51	630	BLU	1	12059260	12052668	23-12497-014
2.15-1.60	480	YEL	1	12052931	12052930	23-12497-015
2.15-1.65	630	TAN	1	12077760	12077759	23-12497-016
2.15-1.60	150	WHT	1	12089442	12089678	23-12497-018
2.15-1.60	280-W/P	PPL	1	12089444	12089679	23-12497-019
1.70-1.29	480	PNK	1	12162068	12162067	23-12497-024

ENGINEERING NOTES:

1. MATERIAL: SILICONE
2. W/P = WEATHER PACK

CHG	JOB NO	DATE	BY	REVISION
-	P03380-15	03/02/98	DAJ	INITIAL RELEASE

DRAWN	DAJ	TITLE	DRAWING NUMBER	
APPRV	DAJ	TERMINAL-RING, TUBULAR, 45 DEGREE	23-12518	
DATE	05/13/98			
CATIA ORIGINAL		FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1	CHG. LTR. A



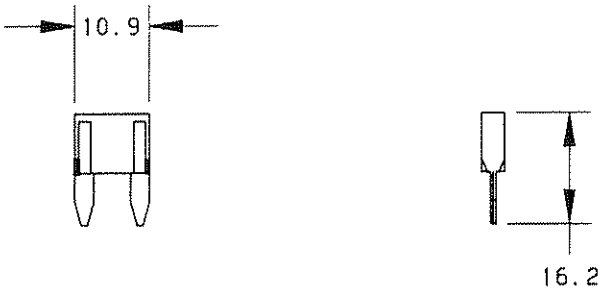
CABLE GAUGE	STUD SIZE	VENDOR PART NUMBER		FREIGHTLINER PART NUMBER
		QUICK CABLE	AMY	
2	5/16	5953-010EV	2561-1145	23-12518-022
	3/8	5953-010FV	2381-1145	23-12518-023
2/0	5/16	5956-010EV	20561-1145	23-12518-202

ENGINEERING NOTES:

1. MATERIAL: SEAMLESS COPPER TUBE, TIN PLATED

CHG	JOB NO	DATE	BY	REVISION
-	P05464-01	05/13/98	DAJ	INITIAL RELEASE
A	P09351-39	10/04/99	CGD	CRCTD QUICK CABLE P/N'S, ADDED AMY AS AN APVD VENDOR

DRAWN	CGD	TITLE	DRAWING NUMBER	
APPRV	DAJ	FUSE-MINI MP280, MALE	23-12537	
DATE	07/13/99	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1	CHG. LTR. A
CATIA ORIGINAL				



MINI BLADE FUSE					
CURRENT CAPACITY	COLOR	PACKARD NUMBER	BUSSMAN NUMBER	LITTEL FUSE	FREIGHLINER NUMBER
5 AMP	TAN	12092081	ATM-5	297005	23-12537-005
7.5 AMP	BROWN	12092080	ATM-7.5	297075	23-12537-007
10 AMP	RED	12092079	ATM-10	297010	23-12537-010
15 AMP	BLUE	12092078	ATM-15	297015	23-12537-015
20 AMP	YELLOW	12092077	ATM-20	297020	23-12537-020
25 AMP	NATURAL	12092076	ATM-25	297025	23-12537-025
30 AMP	GREEN	12092075	ATM-30	297030	23-12537-030

A

ENGINEERING NOTES:

1. FOR DIMENSIONS, TESTING AND CONSTRUCTION REFER TO SAE STANDARD J2077.

2. DIMENSIONS ABOVE ARE FOR REFERENCE ONLY.

CHG	JOB NO	DATE	BY	REVISION
-	P09270-01	07/13/99	CGD	INITIAL RELEASE
A	P02214-J7	08/25/99	WCR	ADDED -005, -007, 020, -025, -030

23-12539 , - , FUSE-MAXI

DRAWN	CGD	TITLE	DRAWING NUMBER	
APPRV	DAJ	FUSE-MAXI MP800, MALE	23-12539	
DATE	07/13/99			
CATIA ORIGINAL		FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1	CHG. LTR. -



MAXI BLADE FUSE					
CURRENT CAPACITY	COLOR	PACKARD NUMBER	BUSSMAN NUMBER	LITTEL FUSE	FREIGHLINER NUMBER
30 AMP	GREEN	12065932	MAX-30	299030	23-12539-030
40 AMP	ORANGE	12065933	MAX-40	299040	23-12539-040

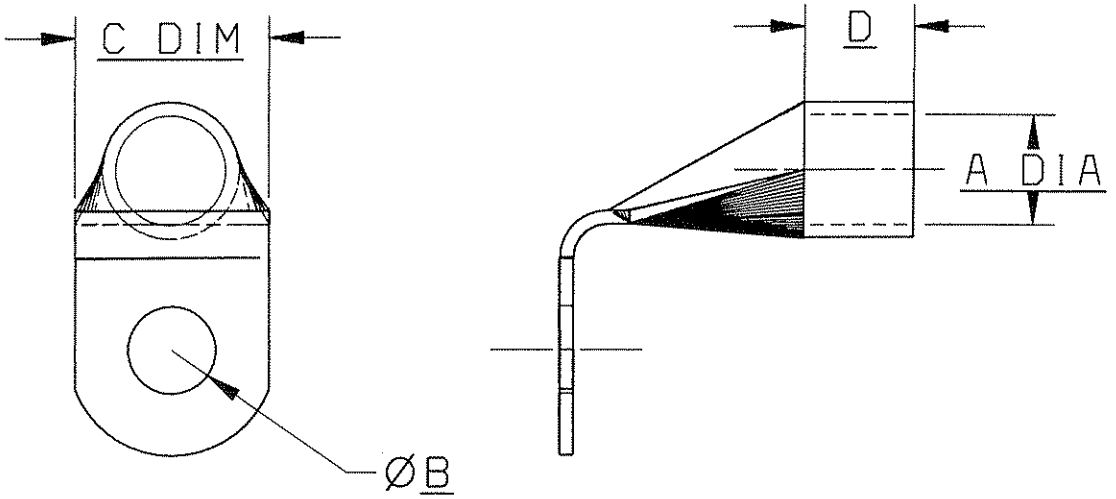
ENGINEERING NOTES:

1. FOR DIMENSIONS, TESTING AND CONSTRUCTION REFER TO SAE STANDARD J1888.

2. DIMENSIONS ABOVE ARE FOR REFERENCE ONLY.

CHG	JOB NO	DATE	BY	REVISION
-	P09270-01	07/13/99	CGD	INITIAL RELEASE

DRAWN	JRT	TITLE	DRAWING NUMBER	
APPRV	DAJ	TERMINAL-LUG BATTERY CABLE, BENT 90	23-12776	
DATE	03/12/00			
CATIA ORIGINAL		FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1	CHG. LTR. -



"A" DIA	"B" STUD SIZE	"C" REF	"D"	CABLE SIZE (GA.)	MANUFACTURER'S NUMBER					FREIGHTLINER PART NUMBER
					ASI	MOLEX	AMY	JEI	KAL	
.500	.500	.81	.62	2/0	--	--	20501-9-90	--	--	23-12776-021
.550	.500	.90	.62	3/0	--	--	30501-9-90	--	--	23-12776-031

ENGINEERING NOTES:

1. MATERIAL: LEAD COATED OR TIN PLATED COPPER.
2. ONLY SOURCES SHOWN ABOVE MAY BE USED FOR THIS TERMINAL. NO ALTERNATE SOURCES MAY BE USED UNLESS APPROVED BY PRODUCT ENGINEERING.

CHG	JOB NO	DATE	BY	REVISION
-	P09115-06	03/12/00	JRT	INITIAL RELEASE