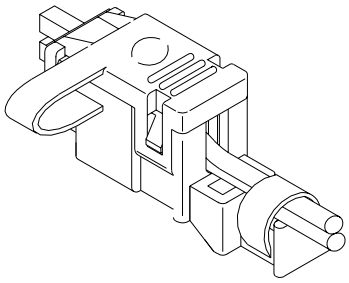
Jameco Part Number 304637

FEATURES AND SPECIFICATIONS

4.20mm (.165") Pitch Mini-Fit, Jr.™ Strain Relief

41995



Features and Benefits
- Provides secondary relief for wire harnesses using Mini-Fit, Jr. receptacles
- One-piece snap-on construction for easy assembly
- Accepts both free-hanging plug without ears and receptacle in 6 to 24 circuits

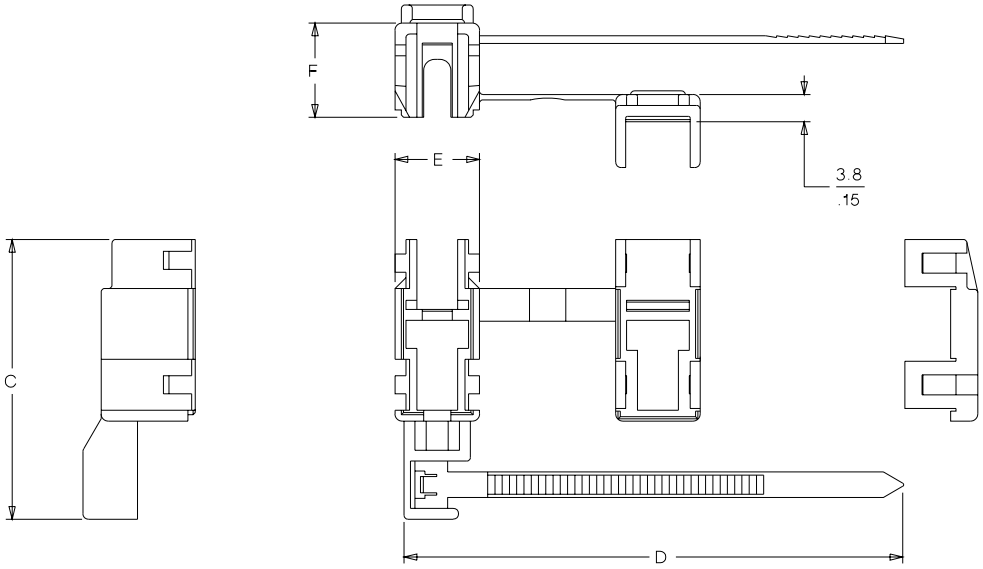
Reference Information
Product Specification: PS-5556-0001
Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R75142
Use With: 5557 dual row receptacle
Designed In: Millimeters

Electrical
Voltage: 600V
Current: 9.0A
Contact Resistance: 10mΩ max.
Dielectric Withstanding Voltage: 1500V
Insulation Resistance: 1000 MΩ min.

Mechanical
Wire Pull-Out Force: 9.0kg min.
Mating Force: 0.7kg (1.54 lb) max.
Unmating Force: 0.35kg (0.7 lb) min.
Normal Force: 200g min.
Durability: 30 cycles

Physical
Housing: 6/6 nylon, UL 94V-2
Operating Temperature: -40 to +105˚C

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Color	Dimension			
			C	D	E	F
2	• 15-04-0340	Natural	39.10 (1.540)	69.80 (2.750)	11.90 (.470)	13.20 (.520)
4	• 15-04-0294		48.00 (1.890)	107.90 (4.250)	16.00 (.630)	13.20 (.520)
6	• 15-04-0296		48.20 (1.890)	107.90 (4.250)	20.20 (.800)	13.20 (.520)
8	• 15-04-0343		48.60 (1.890)	107.90 (4.250)	24.60 (.970)	13.20 (.520)
12	• 15-04-0345		48.00 (1.890)	107.90 (4.250)	33.00 (1.300)	13.20 (.520)
4	• 15-04-9341	Black	48.00 (1.890)	107.90 (4.250)	16.00 (.630)	13.20 (.520)
6	• 15-04-9342		48.00 (1.890)	107.90 (4.250)	20.20 (.800)	13.20 (.520)
8	• 15-04-9343		48.00 (1.890)	107.90 (4.250)	24.60 (.970)	13.20 (.520)

• US Standard Product, available through Molex franchised distributors

PRODUCT SPECIFICATION

MINI-FIT JR. STRAIN RELIEF

1.0 SCOPE

This Product Specification covers performance requirements for the MINI-FIT JR. STRAIN RELIEF for use with MINI-FIT JR. receptacle and plug housings without mounting ears.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBER (S)

PRODUCT NAME	PART NUMBER
Strain Relief Shell	41995-**
Receptacle Housing	5557-****
Plug Housing	5559-**P1-*

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

See the appropriate sales drawings for the information on dimensions, materials, platings and markings.

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

See sales drawings and the other sections of this specification for the necessary referenced documents and specifications

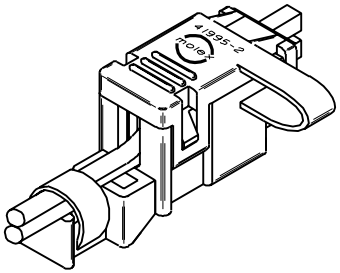
4.0 PERFORMANCE

4.1 MECHANICAL REQUIREMENTS

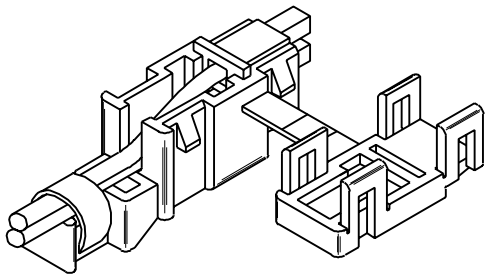
ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	**Connector Housing Retention**	Assemble connector housing into strain relief shell. Mount wire-exit end of shell into fixture and apply a force to the connector housing at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute until failure.	124 N (28 lbf) MINIMUM retention force
2	**Axial Wire Retention**	Assemble fully loaded connector housing into strain relief shell. Tighten tie-strap around wire bundle to 30 lb. tension. Secure strain relief shell in fixture. Pull wire bundle at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute until slippage is observed.	41995-2* = 111 N (25 lbf) Min. 41995-4* = 111 N (25 lbf) Min. 41995-6* = 111 N (25 lbf) Min. 41995-8* = 111 N (25 lbf) Min. 41995-12* = 155 N (35 lbf) Min

5.0 PACKAGING

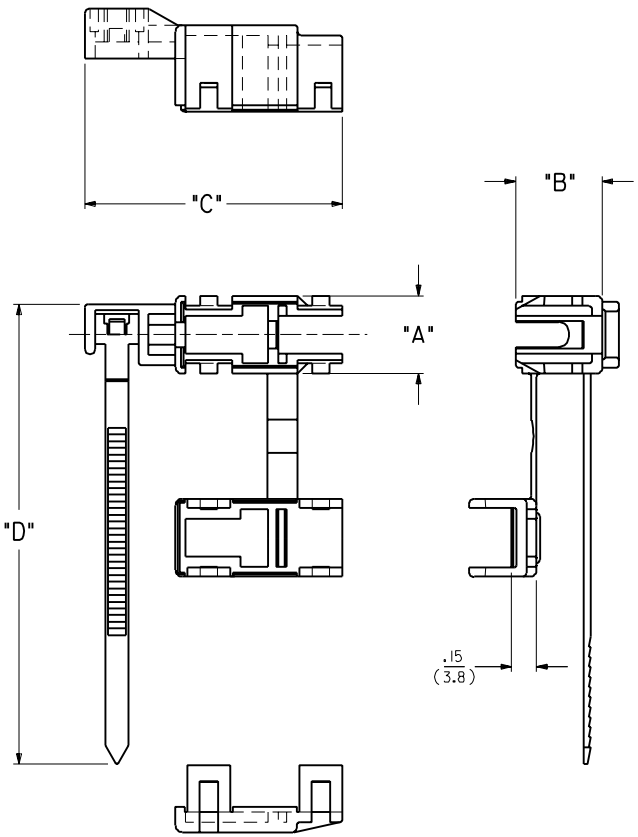
Parts shall be packaged to protect against damage during handling, transit and storage.



2 CIRCUIT PART (CLOSED)



2 CIRCUIT PART (OPEN)



NOTES:

1) THIS PART IS TO BE USED ONLY WITH MINI-FIT JR. SERIES CONNECTORS WITHOUT MOUNTING EARS, PER CHART. SEE PAGE 2.

2) THIS PART CAN BE USED WITH A STANDARD TIE-STRAP GUN.

3) ALL DIMENSIONS ARE FOR REFERENCE ONLY.

4) IF THIS PRODUCT IS STORED IN AN ENVIRONMENT WITH A RELATIVE HUMIDITY OF LESS THAN 50%, MOISTURE MUST BE ADDED AS PER THE FOLLOWING:

   A) ADD 0.4 oz. OF DEIONIZED WATER PER 1.0 lb. OF PRODUCT

   B) RESEAL PLASTIC BAG AFTER MOISTURIZATION

LTR.	REVISIONS
G2	REVISED UCR2000-0297 L.MOSLEY 99/10/28
G1	REVISED ECN U70573 RUSHTON 96/12/4
G	REMOVED 10 CKT. PART, ECN U31520 GEP 11-8-93
F	REVISED PER ECR U10256 1-11-91 RJF
E2	ADDED E.D.P. NO. PER ERO 29246 11-28-89 RF
E1	REV. A & B ADDED DIM D, ERO 29152 GEP 11-6-89 RJF
E	REV. & ADDED 3AA & 3AB, ECN U90966 GEP 8-15-89 RJF
D1	REVISED PER ERO 28534 6-16-89 RJF
D	REDRAWN ON CAD ECR #U9 0357 05-01-89 RHR/DMF

MFG.	SH.	REV.
G	2	G2
G1	1	G2

REVISE ONLY ON CAD SYSTEM

DIMENSIONS SHOWN (METRIC) INCH

UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°

	INCH	METRIC
3 PLACE	± ---	---
2 PLACE	± ---	± ---
1 PLACE	---	± ---

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

TITLE: STRAIN RELIEF FOR MINI-FIT PLUGS AND RECEPTACLES

MOLEX INCORPORATED, LISLE, ILL. 60532 U.S.A.

SHEET NO. 1 OF 2

DATE 05/01/89

PART NO. SEE SHEET 2

DRWG. NO. SD-41995-•••

DRWG. BY	CHK'D. BY	APP'D. BY	SCALE
DMF	RHR	RAS	2 : 1

FILE NAME S041995X1.DGN

DIV. CP

SIZE C

NO P.S. 1

41995

41995

PART NO.	ENG. NO.	FOR USE WITH CONNECTOR NO.	CKT. SIZE	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"
15-04-0340	41995-2AA	5557-02R1• 5559-02P1•	2	.47/(11.9)	.52/(13.2)	1.54/(39.1)	2.75/(69.8)
15-04-0294	41995-4AA	5557-04R1• 5559-04P1•	4	.63/(16.0)	.52/(13.2)	1.89/(48.0)	4.25/(107.9)
15-04-0296	41995-6AA	5557-06R• 5559-06P1•	6	.80/(20.2)	.52/(13.2)	1.89/(48.0)	3.25/(82.55)
15-04-0343	41995-8AA	5557-08R• 5559-08P1•	8	.97/(24.6)	.52/(13.2)	1.89/(48.0)	4.25/(107.9)
15-04-0345	41995-12AA	5557-12R• 5559-12P1•	12	1.30/(33.0)	.52/(13.2)	1.89/(48.0)	4.25/(107.9)
NOT TOOLED	41995-14AA	5557-14R• 5559-14P1•	14	1.46/(37.0)	.64/(16.2)	1.89/(48.0)	4.25/(107.9)
NOT TOOLED	41995-16AA	5557-16R• 5559-16P1•	16	1.62/(41.1)	.64/(16.2)	1.89/(48.0)	4.25/(107.9)
NOT TOOLED	41995-18AA	5557-18R• 5559-18P1•	18	1.79/(45.4)	.80/(20.3)	2.04/(51.8)	4.25/(107.9)
NOT TOOLED	41995-20AA	5557-20R• 5559-20P1•	20	1.95/(49.6)	.80/(20.3)	2.04/(51.8)	4.25/(107.9)
NOT TOOLED	41995-22AA	5557-22R• 5559-22P1•	22	2.12/(53.7)	.80/(20.3)	2.04/(51.8)	4.25/(107.9)
NOT TOOLED	41995-2AB	5557-02R1• 5559-02P1•	2	.47/(11.9)	.52/(13.2)	1.54/(39.1)	2.75/(69.8)
15-04-9341	41995-4AB	5557-04R1• 5559-04P1•	4	.63/(16.0)	.52/(13.2)	1.89/(48.0)	4.25/(107.9)
15-04-9342	41995-6AB	5557-06R• 5559-06P1•	6	.80/(20.3)	.52/(13.2)	1.89/(48.0)	4.25/(107.9)
15-04-9343	41995-8AB	5557-08R• 5559-08P1•	8	.97/(24.6)	.52/(13.2)	1.89/(48.0)	4.25/(107.9)
NOT TOOLED	41995-12AB	5557-12R• 5559-12P1•	12	1.30/(33.0)	.52/(13.2)	1.89/(48.0)	4.25/(107.9)
NOT TOOLED	41995-14AB	5557-14R• 5559-14P1•	14	1.46/(37.0)	.64/(16.2)	1.89/(48.0)	4.25/(107.9)
NOT TOOLED	41995-16AB	5557-16R• 5559-16P1•	16	1.62/(4.11)	.64/(16.2)	1.89/(48.0)	4.25/(107.9)
NOT TOOLED	41995-18AB	5557-18R• 5559-18P1•	18	1.79/(45.4)	.80/(20.3)	2.04/(51.8)	4.25/(107.9)
NOT TOOLED	41995-20AB	5557-20R• 5559-20P1•	20	1.95/(49.6)	.80/(20.3)	2.04/(51.8)	4.25/(107.9)
NOT TOOLED	41995-22AB	5557-22R• 5559-22P1•	22	2.12/(53.7)	.80/(20.3)	2.04/(51.8)	4.25/(107.9)

LEGEND: 41995-•••

BASE NUMBER

CIRCUIT SIZE (2-22)

MATERIAL
"A" = NYLON 6/6, U.L. 94V-2

COLOR
"A" = NATURAL (NOT DYED)
"B" = BLACK (DYED)

LTR.	REVISIONS	LTR.	REVISIONS
		G	SEE SHT. 1
		F	SEE SHT. 1
		E2	SEE SHT. 1
		E1	SEE SHT. 1
		E	SEE SHT. 1
		D1	SEE SHT. 1
G2	SEE SHEET #1	D	SEE SHT. 1

DIMENSIONS SHOWN (METRIC) INCH
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°

	INCH	METRIC
3 PLACE	± ---	---
2 PLACE	± ---	± ---
1 PLACE	---	± ---

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DRWG. BY DMF | CHK'D. BY RHR
APP'D. BY RAS | SCALE --:--

∇ = Ø ▼ = Ø REVISE ONLY ON CAD SYSTEM

TITLE: STRAIN RELIEF FOR MINI-FIT PLUGS AND RECEPTACLES

MOLEX INCORPORATED LISLE,ILL. 60532 U.S.A.

SHEET NO. 2 | DATE 05/01/89

PART NO. SEE CHART | DRWG. NO. SD-41995-•••

FILE NAME SD41995X2.DGN

DIV. CP | SIZE C

NO P.S. 1

41995