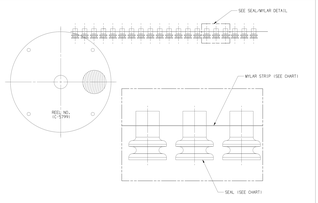
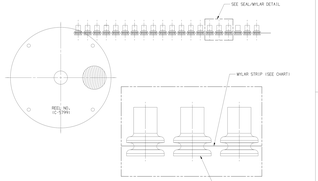


SEAL/MYLAR ASSEMBLY DETAIL
NO SCALE
TYPE 101

NOTES

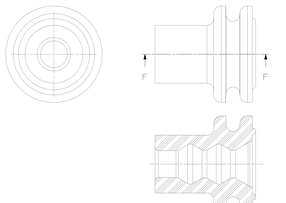
1. THE MYLAR TAPE IS ONLY A CARRIER USED AS A PROCESS AID AND IS NOT PART OF THE FINAL HARNESS ASSEMBLY.
2. WHEN PARTS ARE SHIPPED, THEY MUST BE PACKED IN PLASTIC BAGS OR SHIPPING CONTAINERS MUST BE LINED WITH PLASTIC LINERS. BAGS OR LINER MUST BE SEALED TO AVOID ENTRY OF FOREIGN WATER.



SEAL/MYLAR ASSEMBLY DETAIL
NO SCALE
TYPE 102
SAME AS TYPE 101 EXCEPT AS SHOWN

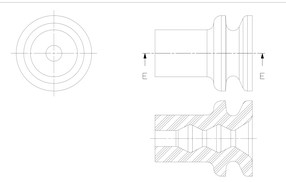
NOTES

1. THE MYLAR TAPE IS ONLY A CARRIER USED AS A PROCESS AID AND IS NOT PART OF THE FINAL HARNESS ASSEMBLY.
2. WHEN PARTS ARE SHIPPED, THEY MUST BE PACKED IN PLASTIC BAGS OR SHIPPING CONTAINERS MUST BE LINED WITH PLASTIC LINERS. BAGS OR LINER MUST BE SEALED TO AVOID ENTRY OF FOREIGN WATER.



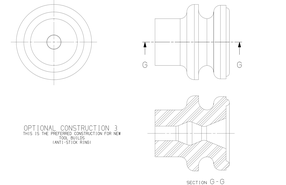
SECTION F-F

OPTIONAL CONSTRUCTION 1
FOR EXISTING TOOL ONLY, NOT TO BE USED ON NEW TOOLS



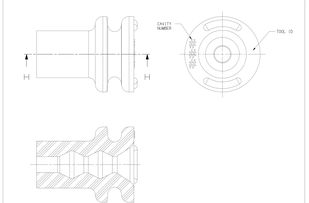
SECTION E-E

OPTIONAL CONSTRUCTION 2



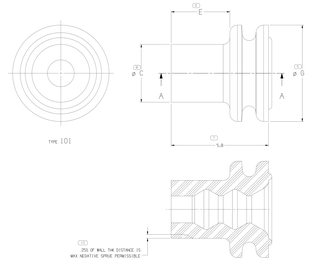
SECTION G-G

OPTIONAL CONSTRUCTION 3
THIS IS THE PREFERRED CONSTRUCTION FOR NEW TOOL DESIGNS
(ANTI-STICK RING)



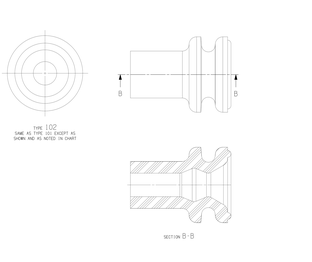
SECTION H-H

OPTIONAL CONSTRUCTION 4



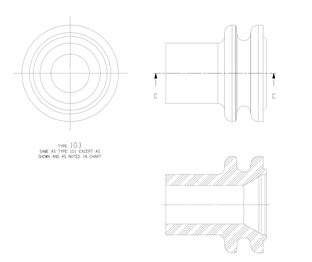
TYPE 101

SECTION A-A



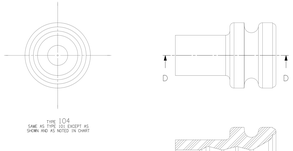
TYPE 102
SAME AS TYPE 101 EXCEPT AS SHOWN AND AS NOTED IN CHART

SECTION B-B



TYPE 103
SAME AS TYPE 101 EXCEPT AS SHOWN AND AS NOTED IN CHART

SECTION C-C



TYPE 104
SAME AS TYPE 101 EXCEPT AS SHOWN AND AS NOTED IN CHART

SECTION D-D

GT 150 3.5 CL (3.2 X 4.0 OVAL INTERNAL CAVITY DIAMETER)

CABLE SEAL	REV	N/P	USAGE	REPLACED BY	TYPE	MAT'L SPEC	CABLE O.D. RANGE	E	VOL (CM³)	MYLAR & CABLE SEAL PDM	REQ	N/P	MYLAR STRIP	TYPE
7941860	D	AG	-	-	101	VMQ SELF-LUBRICATING REDISH BROWN	2.0-2.2	2.4	3.25	3.9 +0.3/-0.05	0-029	-	-	-
7530002	D	AG	-	-	101	VMQ SELF-LUBRICATING GREEN	1.4-1.9	2.4	3.2	4.1 +0.3/-0.05	0-029	-	-	-
7530003	D	AG	-	-	101	VMQ SELF-LUBRICATING BLUE	2.0-2.4	2.4	3.25	3.9 +0.3/-0.05	0-029	11	7530006	101
7530004	D	AG	RESTRICTED	7530002	101	VMQ SELF-LUBRICATING GREEN	1.4-1.9	2.4	3.25	4.1 +0.3/-0.05	0-029	11	WS25004	101

CABLE SEAL	REV	N/P	USAGE	REPLACED BY	TYPE	MAT'L SPEC	CABLE O.D. RANGE	E	VOL (CM³)	MYLAR & CABLE SEAL PDM	REQ	N/P	MYLAR STRIP	TYPE
2594994	D	AG	-	-	101	FVMQ RED/ORANGE	2.2-2.5	2.8	4.5	5.4 +0.3/-0.05	0-041	-	-	-
1304908	D	AG	-	-	101	FVMQ SELF-LUBRICATING BLUE	1.96-2.4	2.8	4.5	5.4 +0.3/-0.05	0-041	-	-	-
1304909	D	AG	-	-	101	VMQ SELF-LUBRICATING BLUE	2.0-2.4	2.8	4.5	5.4 +0.3/-0.05	0-041	-	-	-
7530001	D	AG	-	-	101	VMQ SELF-LUBRICATING WHITE	2.0-2.4	2.8	4.5	5.4 +0.3/-0.05	0-041	-	-	-
7941940	D	AG	RESTRICTED	7530001	101	VMQ SELF-LUBRICATING WHITE	2.0-2.4	2.8	4.5	5.4 +0.3/-0.05	0-041	10	1530/101	101
7530005	D	AG	RESTRICTED	7530001	101	VMQ SELF-LUBRICATING WHITE	2.0-2.4	2.8	4.5	5.4 +0.3/-0.05	0-041	10	WS25005	101

CABLE SEAL	REV	N/P	USAGE	REPLACED BY	TYPE	MAT'L SPEC	CABLE O.D. RANGE	E	VOL (CM³)	MYLAR & CABLE SEAL PDM	REQ	N/P	MYLAR STRIP	TYPE
7530006	D	AT	-	-	101	VMQ SELF-LUBRICATING VIOLET	.06-2.4	4.25	5.5	6.75	0-267	-	-	-
7530007	D	AG	-	-	101	VMQ SELF-LUBRICATING GRAY	2.0-2.4	4.25	5.5	6.75	0-267	-	-	-
7530008	D	AG	-	-	101	VMQ SELF-LUBRICATING DARK RED	2.08-2.46	4.25	5.5	6.75	0-267	-	-	-
7530009	D	AG	-	-	101	VMQ SELF-LUBRICATING BLUE	2.0-2.4	4.25	5.5	6.75 +0.15	0-267	-	-	-
7379410	D	AT	RESTRICTED	7530006	101	VMQ SELF-LUBRICATING VIOLET	1.96-2.4	4.25	5.5	6.75	0-267	06	1379/101	101
7379420	D	AG	RESTRICTED	7530007	101	VMQ SELF-LUBRICATING GRAY	2.0-2.4	4.25	5.5	6.75	0-267	06	WS25004	101
7379430	D	AG	RESTRICTED	7530008	101	VMQ SELF-LUBRICATING DARK RED	2.08-2.46	4.25	5.5	6.75	0-267	06	WS25004	101

CABLE SEAL	REV	N/P	USAGE	REPLACED BY	TYPE	MAT'L SPEC	CABLE O.D. RANGE	E	VOL (CM³)	MYLAR & CABLE SEAL PDM	REQ	N/P	MYLAR STRIP	TYPE

GT 280 (5.2 INTERNAL CAVITY DIAMETER)

CABLE SEAL	REV	N/P	USAGE	REPLACED BY	TYPE	MAT'L SPEC	CABLE O.D. RANGE	E	VOL (CM³)	MYLAR & CABLE SEAL PDM	REQ	N/P	MYLAR STRIP	TYPE
7530004	D	AT	-	-	101	VMQ SELF-LUBRICATING VIOLET	.06-2.4	4.25	5.5	6.75	0-267	-	-	-
7530005	D	AG	-	-	101	VMQ SELF-LUBRICATING GRAY	2.0-2.4	4.25	5.5	6.75	0-267	-	-	-
7530006	D	AG	-	-	101	VMQ SELF-LUBRICATING DARK RED	2.08-2.46	4.25	5.5	6.75	0-267	-	-	-
7530007	D	AG	-	-	101	VMQ SELF-LUBRICATING BLUE	2.0-2.4	4.25	5.5	6.75 +0.15	0-267	-	-	-
7379410	D	AT	RESTRICTED	7530004	101	VMQ SELF-LUBRICATING VIOLET	1.96-2.4	4.25	5.5	6.75	0-267	06	1379/101	101
7379420	D	AG	RESTRICTED	7530005	101	VMQ SELF-LUBRICATING GRAY	2.0-2.4	4.25	5.5	6.75	0-267	06	WS25004	101
7379430	D	AG	RESTRICTED	7530006	101	VMQ SELF-LUBRICATING DARK RED	2.08-2.46	4.25	5.5	6.75	0-267	06	WS25004	101

CABLE SEAL	REV	N/P	USAGE	REPLACED BY	TYPE	MAT'L SPEC	CABLE O.D. RANGE	E	VOL (CM³)	MYLAR & CABLE SEAL PDM	REQ	N/P	MYLAR STRIP	TYPE

GT 280 (5.8 INTERNAL CAVITY DIAMETER)

CABLE SEAL	REV	N/P	USAGE	EQUIV/REP CABLE SEAL	REPLACED BY	TYPE	MAT'L SPEC	CABLE O.D. RANGE	E	VOL (CM³)	MYLAR & CABLE SEAL PDM	REQ	N/P	MYLAR STRIP	TYPE	REMARKS
2509939	D	AB	-	(2)15/25	-	201	VMQ SELF-LUBRICATING VIOLET	3.5-3.9	4.25 +0.2/-0	5.5	6.75	0-282	-	-	-	-
7550001	D	AG	-	-	-	201	VMQ SELF-LUBRICATING BLUE	2.7-3.4	4.25	5.5	6.75 +0.15/-0	0-282	-	-	-	-
1304907	D	AG	-	-	-	201	FVMQ RED/ORANGE	3.0-3.4	4.25	5.5	6.75	0-282	-	-	-	-
1311984	D	AT	-	-	-	201	FVMQ RED/BROWN	1.88-2.4	4.25	5.5	6.75	0-282	-	-	-	-
7985880	D	AC	RESTRICTED	-	-	201	FVMQ/VMQ BLEND ORANGE	1.8-2.9	4.25	5.5	6.75	0-282	-	-	-	-
7985881	D	AC	RESTRICTED	-	-	201	FVMQ/VMQ BLEND BLUE	1.88-2.4	4.25	5.5	6.75	0-282	-	-	-	-
7985882	D	AC	RESTRICTED	-	-	201	FVMQ BLUE	1.8-2.4	4.25	5.5	6.75	0-282	-	-	-	-
7530003	D	AG	-	-	-	201	VMQ SELF-LUBRICATING WHITE	2.0-2.4	4.25	5.5	6.75	0-282	-	-	-	-
7530001	D	AG	-	-	-	201	VMQ SELF-LUBRICATING TAN	2.0-2.4	4.25	5.5	6.75 -0.15/-0	0-282	1519/201	201	-	-
7530006	D	AG	-	-	-	201	VMQ SELF-LUBRICATING YELLOW	1.96-2.4	4.25	5.5	6.75	0-282	WS25001	201	-	-
7530007	D	AG	-	-	-	201	VMQ SELF-LUBRICATING ORANGE	1.8-2.4	4.25	5.5	6.75	0-282	WS25001	201	-	-
7530008	D	AG	-	-	-	201	VMQ SELF-LUBRICATING VIOLET	1.8-2.4	4.25 +0.2/-0	5.5	6.75	0-282	WS25001	201	-	-
(2)1621X	D	AT	RESTRICTED	-	7530003	201	VMQ SELF-LUBRICATING WHITE	2.0-2.4	4.25	5.5	6.75 -0.15/-0	0-282	-	-	-	-
(2)1621X	D	AT	RESTRICTED	-	7530001	201	VMQ SELF-LUBRICATING TAN	2.0-2.4	4.25	5.5	6.75 -0.15/-0	0-282	-	-	-	-
(2)1621X	D	AT	RESTRICTED	-	7530006	201	VMQ SELF-LUBRICATING YELLOW	1.96-2.4	4.25	5.5	6.75	0-282	-	-	-	-
(2)1621X	D	AT	RESTRICTED	-	7530007	201	VMQ SELF-LUBRICATING ORANGE	1.8-2.4	4.25	5.5	6.75	0-282	-	-	-	-

CABLE SEAL	REV	N/P	USAGE	EQUIV/REP CABLE SEAL	REPLACED BY	TYPE	MAT'L SPEC	CABLE O.D. RANGE	E	VOL (CM³)	MYLAR & CABLE SEAL PDM	REQ	N/P	MYLAR STRIP	TYPE	REMARKS

SYMBOL DEFINITION		MISSING SYMBOLS
A DIMENSION WITHOUT AN INSPECTION REPORT SYMBOL DOES NOT REQUIRE INSPECTION. IT MAY BE CONTROLLED ON THE INDIVIDUAL COMPONENT DRAWING.	TOTAL NO OF INSPECTIONS REQUIRED: 5	1 3 4 6 9
	LAST NO. USED: 10	

REV	ZONE	REVISION HISTORY	ECN	ECO	DATE	APPR
D		(2)15/22 THRU (2)15/25 & (2)15/31 THRU (2)15/33 - REVISED TOOL VALIDATION DRAWING			2/20/08	JS
D		(2)15/22 & (2)15/23 (2)15/25 (2)HRADD MYLAR STRIP MATERIAL NOT TIE			2/20/04	SS
D	D8	(2)15/22 (2) & (2)15/24 (2) - UPDATED PDM ATTRIBUTES (2)15/22 (2) & (2)15/24 (2) SHOULD ALL NOTE STRIP - HOWEVER, WHEN			2/17/04	ADA
D	D9	(2)15/22 (2) - CORRECTED REVISION LEVELS ON DRAWING			2/12/03	ARJ
D	D3	ADDED CUSTOMER SPECIFIC DRAWING			2/5/02	ACM
D	D3	(2)15/22 (2)15/23 (2)15/25 (2)15/31 - CORRECTED PDM ATTRIBUTES			2/04/02	JLL
D	D2	ALL ACTIVE PARTS - ADDED RESTRICTED SEAL, ALTERNATE MYLAR, AND MYLAR TYPE. (2)15/22 (2)15/23 (2)15/25 AND (2)15/24 (2)			2/6/02	RH
D	D3	(2)15/22 (2) - REVISED CAVITY DIMENSIONS ADDED INTERNAL NECK OPENING - ADDED MYLAR/SEAL ASSEMBLY DETAIL			2/5/02	PCP
D	D4	(2)15/22 (2) - CORRECTED MYLAR AS B #6 FROM 3M 966 DW A - TYPO FROM CHART			08/08/01	RD
D	D5	ADDED (3)PARTS, 1 BASTICK AND RELEASED, ALL ACTIVE PARTS - REVISED CHART			4/14/99	PCP
D	D6	(2)15/21, (3)6TAPE, (3)15/21, (1)3AATB, (1)3AATC, (1)3AATD, (1)3AATE, (1)3AATF, (1)3AATG - ADD ON SHT 1 (2)15/22 (2) - ADD ON SHT 2 (2)15/22 (2) AND (2)15/24 (2) SHEET 1 OF 2 - ADD ON SHT 2 OF 2			4/25/97	JRC
D	D7	(1)6TAPE & (1)6TAPE - RELEASED (1)3AATB - RESTRICTED, TABLE C, ALL NOTE, (1)3AATC - RESTRICTED, (2) NOTE, (1)3AATD - RESTRICTED, (2) NOTE, (1)3AATE AND (2)3AATF - RESTRICTED, (2) NOTE, AND (2)3AATG - RESTRICTED			4/11/97	JRC
D	D8	(1)3AATB - RELEASED - RELEASED ALL PARTS - UPDATED PDM ATTRIBUTES			4/24/96	TCT
D	D9	(1)6TAPE & (1)6TAPE - WRITTEN DESCRIPTION AND FINAL DRAWING & FINAL BLUE			4/14/96	TLS
D	D5	(1)6AATB, (1)6AATBPK, (1)6AATBPL - (1)6AATC - RELEASED			4/04/96	RCP
D		(2)15/22 (2) & (2)15/23 - UPDATED PDM ATTRIBUTES			10/07/95	JAV
D	D2	(2)15/22 (2), (2)15/23 - (2)15/24 (2) - UPDATED PDM ATTRIBUTES			10/04/95	JAV
D	D3	ALL ACTIVE PARTS - UPDATED PDM ATTRIBUTES - (2)15/22 (2) - (2)15/24 (2) ADD MYLAR STRIP (2)15/22 (2) - (2)15/24 (2) - ADD SEAL ASSY DW (2) 1-1-1			4/04/94	JCP
D	D4	(3)6AATC - UPDATED PDM ATTRIBUTES			4/07/94	DG, DG, SMP
D	D5	(3)15/21 - UPDATED PDM ATTRIBUTES			4/11/12	DG, DG, SMP
D	D6	(1)6TAPE - RELEASED			4/11/07	SMD, AVI, SMP
D	D7	(1)6TAPE - RELEASED			4/17/14	SMP, SMD, SMP
D	D8	ALL PARTS - (2) ϕC +0.2/-0.1 AND (2) ϕC +0.3/-0.1 TYPE 104 AND TYPE 101 EXCEPTION			11/17/15	DW, DW, SMP
D	D9	ALL ACTIVE PARTS - ADDED OPTIONAL CONSTRUCTION 1, 2 & 3 STEMS			4/17/19	JTC, JTC, DW
D		ALL PARTS - ADDED REEL NUMBER			4/14/17	DW, DW, DW
D		(1)3QA-11 - RELEASED			4/29/14	JER, JFT, JMP
D		(1)6AATB - UPDATED PART AVAILABILITY (1)6AATB - (2)4 REQ NOT (2)4 REQ			4/11/14	JFT, JMP, JMP
D	D1	(1)6TAPE - UPDATED MATERIAL CALLOUT AND DIM 3.5 +0.2/-0.05 WAS DIM 3.5+/-0.05			4/21/05	DD, DD, DD, MAC
D	D2	(1)3QA-11 - UPDATED PART AVAILABILITY			4/26/08	JRP, PBC, JMP
D	D3	(2)15/22 - UPDATED PART AVAILABILITY			4/20/04	JMP, JMP, JMP
D	D4	ALL PARTS - ADDED "(2) OF WILL THE DISTANCE IS MAY NEGATIVE SPACE PERMISSIBLE" NOTE			4/26/02	JMP, JMP, JMP
D	D7	ALL ACTIVE PARTS - ADDED OPTIONAL CONSTRUCTION 4 - (2)15/22 (2) - (2)15/24 (2) CONSTRUCTION 3 REVISED GRAPHICS			4/24/01	JMP, JMP, JRP
D	D8	(2)15/22 - CORRECTED PART AVAILABILITY			4/14/17	JMS, TCT, DG
D	D9	(3)6AATC - ADDED MYLAR & CABLE SEAL PDM PART NUMBER			4/12/11	JCP, DG, DG
		(2)15/22 (2) SHOULD BE: (2)15/22 (2), (2)15/23 (2) CABLE SEAL REQ (2)15/23 (2), (2)15/25 (2) CABLE SEAL REQ (2)15/25 (2)				
D	D4	(2)15/22 - ADDED FROM CUSTOMER 90 AND ADDED "EQUIV/REP CABLE SEAL" INFO	7511396	JLL	4/14/10	JMP
D	D5	(2)15/22 - UPDATED PART AVAILABILITY	7512541	JLL	4/12/11	JMP, TCT
D	D6	(2)15/22 - TYPO, TYPE 101 (CORRECTION ADDED)			3/1/2011	JMP, JMP
D	D7	(2)15/22 (2), (2)15/23 & (2)15/25 - OBSOLETE	7570976	DSG	4/14/11	JMP, JMP

NOTES

1. UNLESS OTHERWISE SPECIFIED AND/OR INDICATED:
   DIMENSIONS ARE TO FACE OF VIEW SHOWN AND AUTOMATICALLY GENERATED BY COMPUTER FOR INSPECTION USE WITH MODEL. DIMENSIONS FOR ALL ANGLES, FILLETS, CHAMFERS, DRAFT, SHRINKAGE, ETC. ARE WITH MODEL FOR PRECISE TOOL PATH DATA.
2. PARTS SHOULD BE MADE FROM VIRGIN MATERIAL ONLY.
3. CABLE SEALS MADE FROM LUBRICED MATERIAL (2)LUBE RECOMMENDED FOR THE LOOSE PIECE SEAL APPLICATION PROCESS.
4. CABLE SEALS MADE FROM HIGHER (5) MATERIAL (2)LUBE RECOMMENDED FOR THE BRUSH-CABLE SEAL ASSEMBLY PROCESS.
5. THE MYLAR TAPE IS ONLY A CARRIER USED AS A PROCESS AID AND IS NOT PART OF THE FINAL HARNESS ASSEMBLY. SMALL IMPERFECTIONS, SUCH AS MINOR DENTS, MINOR WRINKLES, MINOR SCUFFS, GATE WEITLINE, AND SOFT FLASH THAT DO NOT AFFECT THE FIT, FORM, OR FUNCTION OF THE PART ARE PERMISSIBLE PER EWM A-125.01.01EN.

THIS DRAWING CONTAINS PROPRIETARY INFORMATION. THIS DRAWING MUST NOT BE COPIED OR DISTRIBUTED WITHOUT PRIOR WRITTEN CONSENT OF APTIV.

APTIV
DELPHI TECHNOLOGIES
ELECTRICAL SYSTEMS
CONNECTOR SYSTEMS
ANN ARBOR, MI 48108

PART DRAWING

SIZE	
SEE CHART	D

SCALE	
NONE	

DRAWN BY	DATE
SEE CHART	

CHECKED BY	DATE
SEE CHART	

APPROVED BY	DATE
SEE CHART	

DRAWING TITLE	
TAI SEAL CBL CR	

DRAWING NUMBER	
1219225	

REVISION	
D	

SHEET	OF
1	1

REV	DATE
D	4/14/2011

REPLACED BY	

REPLACES	