

# NORTH AMERICAN HEATSHRINK

## CROSS REFERENCE CATALOG & ORDERING PROCEDURE

HELLERMANNTYTON – SIGMAFORM – RAYCHEM –  
3M – HEBRAN – MIL. SPEC. – NAVSEA


### Moulded Shapes


# NORTH AMERICAN CROSS REFERENCE

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## NORTH AMERICAN CROSS REFERENCE

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
313 K 232		202 K 121	152-42	Bottle shapes with rib ~ VG Style 	
313 K 343		202 K 232	153-42		
313 K 243		202 K 132	154-42		
313 K 253		202 K 142	155-42		
313 K 264		202 K 153	156-42		
313 K 274		202 K 163	157-43		
313 K 285		202 K 174	158-43		
313 K 296		202 K 185	159-43		
313 K 307		202 K 196	160-43		


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
313 K 232-01		202 K 121-01	152-41	Bottle shapes with rib ~ VG Style (Non standard products with reduced overall lengths) 	
313 K 343-01		202 K 232-01	153-41		
313 K 243-01		202 K 132-01	154-41		
313 K 253-01		202 K 142-01	155-41		
313 K 264-01		202 K 153-01	156-41		
313 K 274-02		202 K 163-02	157-41		
313 K 274-01		202 K 163-01	157-42		
313 K 285-02		202 K 174-02	158-41		
313 K 285-01		202 K 174-01	158-42		
313 K 296-02		202 K 185-02	159-41		
313 K 296-01		202 K 185-01	159-42		
313 K 307-02		202 K 196-02	160-41		
313 K 307-01		202 K 196-01	160-42		


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		204 W 221	1030-4	Lightweight motorsport straight	


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
313 D 220		202 D 119	113-4	Bottle shapes with rib ~ Mil Style 	
313 D 222	913L46	202 D 111	104-4		
313 D 232	913L47	202 D 121	105-4		MS3109-11
313 D 243	913L48	202 D 132	106-4		MS3109-12
313 D 253	913L49	202 D 142	101-4		MS3109-13
313 D 264	913L50	202 D 153	102-4		MS3109-14
313 D 274	913L51	202 D 163	103-4		MS3109-15
313 D 285	913L52	202 D 174	107-4		MS3109-16
313 D 296	913L53	202 D 185	118-4		MS3109-17
313 D 207	913L54	202 D 196	119-4		MS3109-18


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
313 H 222	91346	202 A 111	104-1	Bottle shapes without rib 	
313 H 122		202 A 011	104-2		
313 H 232	91347	202 A 121	105-1		
313 H 132		202 A 021	105-2		
313 H 243	91348	202 A 132	106-1		
313 H 143		202 A 032	106-2		
313 H 253	91349	202 A 142	101-1		
313 H 153		202 A 042	101-2		
313 H 264	91350	202 A 153	102-1		
313 H 164		202 A 053	102-2		
313 H 274	91351	202 A 163	103-1		
313 H 174		202 A 063	103-2		
313 H 285	91352	202 A 174	107-1		
313 H 185		202 A 074	107-2		
313 H 296	91353	202 A 185	118-1		
313 H 196		202 A 085	118-2		
313 H 307	91354	202 A 196	119-1		
313 H 207		202 A 096	119-2		
315 H 723		204 A 612	1724-1		


## NORTH AMERICAN CROSS REFERENCE

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
319 H 122		208 A 011	113-1	Bottle shapes without rib (thick wall) 	
319 H 132		208 A 021	108-1		
319 H 143		208 A 032	109-1		
319 H 153		208 A 042	110-1		
319 H 164		208 A 053	111-1		
319 H 197		208 A 086	116-1		


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
314 H 122		203 A 011	120-1	Long outlet bottle shapes without rib 	
314 H 132		203 A 021	120-2		
314 H 222		203 A 111	120-3		
315 H 122		204 A 011	121-1		
315 H 422		204 A 311	122-8		
315 H 522		204 A 411	122-1		
315 H 622		204 A 511	121-2		

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		202 D 211-22	129-1	Low profile, long outlet bottle shapes with rib 	
		202 D 221-22	130-1		
		202 D 232-22	131-1		
		202 D 242-22	132-1		
		202 D 253-22	133-1		
		202 D 263-22	134-1		
		202 D 274-22	135-1		
		202 D 285-22	136-1		
		202 D 296-22	138-1		
		202 D 299-22	187-1		


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
313 D 322	913L66	202 D 211	129-4	Low profile, long outlet bottle shapes with rib ~ Mil Style 	MS3109-01
313 D 332	913L67	202 D 221	130-4		MS3109-02
313 D 343	913L68	202 D 232	131-4		MS3109-03
313 D 353	913L69	202 D 242	132-4		MS3109-04
313 D 364	913L70	202 D 253	133-4		MS3109-05
313 D 374		202 D 263	134-4		MS3109-06
313 D 385		202 D 274	135-4		MS3109-07
313 D 396		202 D 285	136-4		MS3109-08
313 D 407		202 D 296	138-4		MS3109-09
313 D 410		202 D 299	187-4		MS3109-10


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
313 H 423		202 A 312	146-1	Low profile, long outlet bottle shapes without rib 	
313 H 323		202 A 212	146-2		
313 H 444		202 A 333	148-1		
313 H 344		202 A 233	148-2		
313 H 454		202 A 343	149-1		
313 H 354		202 A 243	149-2		
313 H 465		202 A 354	150-1		
313 H 365		202 A 254	150-2		


## NORTH AMERICAN CROSS REFERENCE


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
313 D 032	913L87	202 D 921	176-1	Long tall bottle shapes with rib ~ VG style 	
		202 D 921 G01	176-2		
313 D 043		202 D 932	177-1		
313 D 064		202 D 953	178-1		
313 D 074		202 D 963	179-1		


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		202 A 917	184-1	Umbilical Harness style	


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
				Bottle shapes with external rib ~ VG style 	
		203 W 112	199-4		

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
				Low profile 2-way outlet shapes (fan tail) 	
		342 W 012	201-1		
		342 W 023	202-1		


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
493 H 112		382 K 001	227-1	2-way outlet shapes ~ VG style (fan tail) 	
493 H 123		382 A 012	206-1		
492 H 126		381 A 015	213-1		
453 H 326		342 A 215	212-1		
493 H 134		382 A 023	203-1		
493 H 145		382 A 034	204-1		
493 H 157		382 A 046	211-1		


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		CBR-2-1	223-1	2-way outlet shapes ~ in line style 	
HDBB-205-1-250	91342-1	SSB1202 FR	216-3		1A62-1
HDBB-210-1-250	91342-2	SSB2002 FR	217-2		1A62-2
HDBB-220-1-250	91342-3		218-2		1A62-3
HDBB-230-1-250		CBR-2-3	219-2		1A62-4


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
573 H 122		462 A 011	306-1	3-way outlet shapes ~ VG style (fan tail) 	
		462 A 014	301-1		
573 H 134		462 A 023	304-1		
573 H 145		462 A 034	310-1		
573 H 157		462 A 046	311-1		
		462 A 442	338-1		


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
HDBB-310-1-250	91343-5	CBR-3-1/T3-9FR	318-2	3-way outlet shapes ~ in line style 	1A62-5
HDBB-320-1-250	91343-6	CBR-3-1/T42-100FR	319-2		1A62-6
HDBB-321-1-250	91343-7		339-2		1A62-7
		CBR-3-2	320-2		
		402 W 516	320-1		
		CBR-3-3-A	324-1		
HDBB-325-1-250	91343-8	T42-100FR & SSB200-400	328-2		1A62-8
		CBR-3-3	316-2		
		402 W 526	316-3		
HDBB-335-1-250	91343-9	T150-300FR & SSB200-400	330-2		1A62-9
HDBB-340-1-250	91343-10	T400FR & SSB250-500	340-2		1A62-10
HDBB-345-1-250	91343-11	T500-600FR & SSB500-600	341-2		1A62-11
		462 W 232	346-1		


## NORTH AMERICAN CROSS REFERENCE

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		562 W 014	401-1	4-way outlet shapes ~ VG style (fan tail) 	
		512 W 024	402-1		
		512 W 024 E11 G01	402-5		
673 H 154		562 A 043	403-1		
673 H 133		562 A 022	411-1		
673 H 165		562 A 054	413-1		
		522 A 013	421-1		

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		502 K 033/CBR-4-1	408-2	4-way outlet shapes ~ in line style 	
HDBB-405-1-250	91344-12	F-23FR	434-2		1A62-12
		502 K 046	409-2		
		CBR-4-2	418-4		
		502 K 026/CBR-4-3	419-4		
HDBB-410-1-250	91344-13	F42-60FR	435-2		1A62-13
		518 K 016	409-4		
HDBB-415-1-250	91344-14	F133-200FR	436-2		1A62-14
HDBB-420-1-250	91344-15		437-2		1A62-15
HDBB-425-1-250	91344-16		438-2		1A62-16
HDBB-430-1-250	91344-17		439-2	1A62-17	
		502 A 812	442-1		
		CBR-4-3-A	444-1		


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		613 W 024	501-1	5-way outlet shapes ~ in line style 	
		603 W 015	505-1		
		603 W 035	506-1		


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
HDBB-605-1-250		6S100-200FR	608-2	6-way outlet shape ~ in line style 	1A62-18


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
333 K 232		222 K 121	1152-4	Right angle shapes with rib ~ VG style 	
333 K 243		222 K 132	1154-4		
333 K 253		222 K 142	1155-4		
333 K 263		222 K 152	1156-4		
333 K 274		222 K 163	1157-4		
333 K 285		222 K 174	1158-4		
333 K 296		222 K 185	1159-4		
333 K 307		222 K 196	1160-4		


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		224 W 221	1181-4	Lightweight motorsport right angle	


## NORTH AMERICAN CROSS REFERENCE

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
333 D 232		222 D 121	1106-4	Right angle shapes with rib ~ Mil Style 	MS3117-11
333 D 243	913RL48	222 D 132	1107-4		MS3117-12
333 D 253	913RL49	222 D 142	1104-4		MS3117-13
333 D 264	913RL50	222 D 152	1103-4		MS3117-14
333 D 274	913RL51	222 D 163	1101-4		MS3117-15
333 D 285	913RL52	222 D 174	1105-4		MS3117-16
333 D 296		222 D 185	1109-4		MS3117-17
333 D 207		222 D 196	1110-4		MS3117-18










3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		228 A 021	1112-1	Right angle shapes without rib ~ VG style (thick wall) 	
		228 A 032	1113-1		
		228 A 042	1114-1		
		228 A 064	1116-1		
		228 A 075	1117-1		
		228 A 086	1118-1		

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
333 H 222		222 A 111	1108-1	Right angle shapes without rib 	
333 H 122		222 A 011	1108-2		
333 H 232		222 A 121	1106-1		
333 H 132		222 A 021	1106-2		
333 H 243	913R48	222 A 132	1107-1		
333 H 143		222 A 032	1107-2		
333 H 253	913R49	222 A 142	1104-2		
333 H 153		222 A 042	1104-1		
333 H 263	913R50	222 A 152	1103-1		
333 H 163		222 A 052	1103-2		
333 H 274	913R51	222 A 163	1101-1		
333 H 174		222 A 063	1101-2		
333 H 285	913R52	222 A 174	1105-1		
333 H 185		222 A 074	1105-2		
333 H 296		222 A 185	1109-1		
333 H 196		222 A 085	1109-2		
333 H 307		222 A 196	1110-1		
333 H 207		222 A 096	1110-2		


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		222 D 211-22	1121-1	Right angle shapes low profile with rib ~ VG style 	
		222 D 221-22	1122-1		
		222 D 232-22	1123-1		
		222 D 242-22	1124-1		
		222 D 253-22	1125-1		
		222 D 263-22	1126-1		
		222 D 274-22	1127-1		
		222 D 285-22	1128-1		
		222 D 296-22	1129-1		
		222 D 299-22	1141-1		

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
333 D 322		222 D 211	1121-4	Right angle shapes low profile with rib ~ Mil style 	
333 D 332		222 D 221	1122-4		
333 D 343		222 D 232	1123-4		
333 D 353		222 D 242	1124-4		
333 D 364		222 D 253	1125-4		
333 D 374		222 D 263	1126-4		
333 D 385		222 D 274	1127-4		
333 D 396		222 D 285	1128-4		
333 D 407		222 D 296	1129-4		
333 D 410		222 D 299	1141-4		


## NORTH AMERICAN CROSS REFERENCE

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
333 D 032		222 D 921	1133-1	Right angle shapes low profile, high ratio with rib ~ VG style 	
		222 D 921 G01	1133-2		
333 D 043		222 D 932	1134-1		
333 D 064		222 D 953	1135-1		
		222 D 953 G01	1135-2		
333 D 074		222 D 963	1136-1		
3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		222 B 123	1189-4	Right angle shape with rib 	
3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
412 H 122		301 A 011	1206-1	T shapes ~ VG style 	
433 H 223		322 A 112	1203-1		
412 H 133		301 A 022	1202-1		
433 H 523		322 A 412	1205-1		
433 H 923		322 A 812	1201-1		
433 H 234		321 P 014	1221-1		
		301 A 028	1230-1		
433 H 245		322 A 134	1209-1		
412 H 145		301 A 034	1207-1		
3M	Hebran	Raychem/Sigmaform	HellermannTyton		Description
		322 A 315	1223-1	T shapes (offset) 	
		322 W 204	1224-1		
3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		322 A 514	1226-1	T shapes (offset) ~ VG style 	
3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		322 A 012	1204-1	T shapes (offset) ~ VG style 	
		322 A 024	1216-1		
3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
453 H 123		342 A 012	1301-1	45° angle T shapes ~ VG style 	
453 H 135		342 A 024	1302-1		
453 H 145		342 A 034	1303-1		
453 H 223		342 A 112	1306-1		
453 H 235		342 A 124	1307-1		
3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
473 H 125		362 A 014	1311-1	30° angle T shapes ~ VG style 	
3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
573 H 325		462 A 214	1310-1	30° angle double T shape 	
3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		362 W 204	1317-1	45° angle T shape 	
		362 W 214	1319-1		

## NORTH AMERICAN CROSS REFERENCE

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
				90° angle elbow shapes	
331 H 134		220 A 023	1401-1		
331 H 123		220 A 012	1403-1		
331 H 129		220 A 018	1408-2		
		220 A 018	1406-1		

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
325 H 122		214 A 011	1505-1	Connector cover for Min-D series with top entry (lipped)	
325 H 422		214 A 311	1505-2		
		214 W 013	1509-1		
325 H 132		214 A 021	1506-1		
325 H 432		214 A 321	1506-2		
		214 A 124	1504-1		
325 H 143		214 A 032	1507-1		
325 H 443		214 A 332	1507-2		
325 H 153		214 A 042	1501-1		
325 H 453		214 A 342	1501-2		
325 H 463		214 A 352	1502-1		
325 H 163		214 A 052	1502-2		

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
				Connector cover for Min-D series with top entry (without lip)	
325 H 622		214 A 511	1505-3		
325 H 632		214 A 521	1506-3		
325 H 643		214 A 532	1507-3		
325 H 653		214 A 542	1501-3		
325 H 663		214 A 552	1502-3		

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
SKE 4/10		102 L 011/SSC-1/ESC-1A	1612-1	End Caps	
SKE 8/20		102 L 022/SSC-2/ESC-2A	1613-1		
SKE 15/40	200EK075	102 L 033/SSC-3/ESC-3A	1614-1		
	137EK050	102 W 053	1620-1		
SKE 25/63	270EK087	102 L 044/SSC-4/ESC-4A	1615-2		
SKE 30/76		102 L 048/SSC-5/ESC-5A	1617-1		
SKE 45/100	380EK150	102 L 055/SSC-6/ESC-6A	1616-1		
		102 A 811	1638-1	End Cap (flat end)	


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
318 W 724-3-350		207 W 613-100-184	1750-1-H-250	Graduated strain relief shapes	5617649-0*
318 W 734-3-350		207 W 623-100-184	1751-1-H-250		5617649-1*
318 W 745-3-350		207 W 634-100-184	1752-1-H-250		5617649-2*
318 W 755-3-350		207 W 644-100-184	1753-1-H-250		5617649-3*
318 W 767-3-350		207 W 656-100-184	1754-1-H-250		5617649-4*
318 W 778-3-350		207 W 667-100-184	1755-1-H-250		5617649-5*


\*Now qualified on Navsea Dwg 5617649 Revision F


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		202 W 302	1793-1	Locating Bushes	
		202 W 342	1794-1		
		202 W 312	1795-1		
		202 W 331	1796-1		
315H723		204 A 612	1724-1	Bottle boot no rib	


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		205 W 325	1784-1	Rainsheds	
		205 W 336	1785-1		
		205 W 346	1786-1		


## NORTH AMERICAN CROSS REFERENCE


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		210 W 321	1822-1	Locating Bushes 	
		210 W 331	1823-1		


3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		322 W 214	1824-1	T shape with locating bush 	

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		243 A 022	1803-4	45° angle shapes with 	
		242 A 142	1805-1		

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
		263 W 042	1817-4	Angle shapes with rib 	
		262 W 014	1818-4		
		263 W 023	1819-42		
		264 W 012	1820-42		
		243 A 012	1821-42		

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
533 H 939		422 A 716	2003-1	90° cross shape 	

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
345 H 122		234 A 011	2101-1	Connector cover for Min-D series with side entry (lipped) 	
345 H 722		234 A 611	2101-2		
343 H 132		234 A 021	2102-1		
345 H 732		234 A 621	2102-2		
345 H 143		234 A 032	2103-1		
345 H 743		234 A 632	2103-2		
345 H 153		234 A 042	2104-1		
345 H 753		234 A 642	2104-2		
345 H 163		234 A 052	2105-1		
345 H 763		234 A 652	2105-2		

3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
				Connector cover for Min-D series with side entry (without lips) 	
345 H 022		234 A 911	2101-3		
345 H 032		234 A 921	2102-3		
345 H 043		234 A 932	2103-3		
345 H 053		234 A 942	2104-3		
345 H 063		234 A 952	2105-3		

NORTH AMERICAN CROSS REFERENCE

**BLOW MOULDED**

Government Ordnance No./Tacom No.	*Hellermann Part Number	Raychem Part Number	Description
12273147-120	313F322-9	202F211-51	Low profile long outlet bottle shape with rib
12273147-220	313F332-9	202F221-51	
12273147-320	313F343-9	202F232-51	
12273147-420	313F353-9	202F242-51	
12273147-520	313F364-9	202F253-51	
12273147-620	313F374-9	202F263-51	
12273147-720	313F385-9	202F274-51	
12273176-120	333F322-9	222F211-51	Right angle low profile shapes with rib
12273176-220	333F332-9	222F221-51	
12273176-320	333F343-9	222F232-51	
12273176-420	333F353-9	222F242-51	
12273176-520	333F364-9	222F253-51	
12273176-620	333F374-9	222F263-51	
12273176-720	333F385-9	222F274-51	
12273242-110	313C722-9	202C611-51	Convuluted low profile shapes with rib
12273242-210	313C732-9	202C621-51	
12273242-310	313C743-9	202C632-51	
12273242-410	313C753-9	202C642-51	
12273242-510	313C764-9	202C653-51	
1271867-610	313C774-9	202C663-51	
12273162-110	412H622-9	301A511-51	Low profile T shape
12273162-210	412H623-9	301A512-51	
12273162-310	412H624-9	301A513-51	
12273162-410	412H625-9	301A514-51	
12273148-110	492H412-9	381A301-51	Low profile Y shape
12273148-210	492H413-9	381A302-51	
12273148-310	492H414-9-01	381A303-51-01	
12273148-410	492H415-9-01	381A304-51-01	
12273164-110	313E445-9	202E334-51	Low profile shim boot
12273164-210	313E455-9	202E344-51	
12273164-310	313E447-9	202E336-51	
12273164-410	313E457-9	202E346-51	
12273163-110	573H532-9	462A421-51	Low profile 3 way transition shape
12273163-210	573H533-9	462A422-51	
12273163-310	573H534-9-01	462A423-51-01	
12273163-410	573H535-9-01	462A424-51-01	

\* Note that Hellermann have adopted the old 3M part numbers. There are no changes to the characteristics of the shapes.

NORTH AMERICAN CROSS REFERENCE


**BLOW MOULDED**


Government Ordnance No./Tacom No.	*Hellermann Part Number	Raychem Part Number	Description
12273147-130	313F322-8	202F211-50	Low profile long outlet bottle shape with rib
12273147-230	313F332-8	202F221-50	
12273147-330	313F343-8	202F232-50	
12273147-430	313F353-8	202F242-50	
12273147-530	313F364-8	202F253-50	
12273147-630	313F374-8	202F263-50	
12273147-730	313F385-8	202F274-50	
12273176-130	333F322-8	222F211-50	Right angle low profile shapes with rib
12273176-230	333F332-8	222F221-50	
12273176-330	333F343-8	222F232-50	
12273176-430	333F353-8	222F242-50	
12273176-530	333F364-8	222F253-50	
12273176-630	333F374-8	222F263-50	
12273176-730	333F385-8	222F274-50	
12273242-120	313C722-8	202C611-50	Convuluted low profile shapes with rib
12273242-220	313C732-8	202C621-50	
12273242-320	313C743-8	202C632-50	
12273242-420	313C753-8	202C642-50	
12273242-520	313C764-8	202C653-50	
1271867-620	313C774-8	202C663-50	
12273162-120	412H622-8	301A511-50	Low profile T shape
12273162-220	412H623-8	301A512-50	
12273162-320	412H624-8	301A513-50	
12273162-420	412H625-8	301A514-50	
12273148-120	492H412-8	381A301-50	Low profile Y shape
12273148-220	492H413-8	381A302-50	
12273148-320	492H414-8-01	381A303-50-01	
12273148-420	492H415-8-01	381A304-50-01	
12273164-120	313E445-8	202E334-50	Low profile shim boot
12273164-220	313E455-8	202E344-50	
12273164-320	313E447-8	202E336-50	
12273164-420	313E457-8	202E346-50	
12273163-120	573H532-8	462A421-50	Low profile 3 way transition shape
12273163-220	573H533-8	462A422-50	
12273163-320	573H534-8-01	462A423-50-01	
12273163-420	573H535-8-01	462A424-50-01	


\* Note that Hellermann have adopted the old 3M part numbers. There are no changes to the characteristics of the shapes.


# NORTH AMERICAN CROSS REFERENCE

## MIL. SPEC. REFERENCE

HellermannTyton	Description	Style	MS3109-
105-4-JL	Bottle shapes with rib 'J' or 'B7' material. J = Red stripe, B7 = White stripe. Optional drainholes (D)		11AU
105-4-B7L			11BU
106-4-JL			12AU
106-4-B7L			12BU
101-4-JL			13AU
101-4-B7L			13BU
102-4-JL			14AU
102-4-B7L			14BU
103-4-JL			15AU
103-4-B7L			15BU
107-4-JL			16AU
107-4-B7L			16BU
118-4-JL			17AU
118-4-B7L			17BU

HellermannTyton	Description	Style	MS3109-
129-4-JDL	Low profile long outlet bottle shapes with rib 'J' or 'B7' material. J = Red stripe, B7 = White stripe. Supplied with drainholes (D)		01AU
129-4-B7DL			01BU
130-4-JDL			02AU
130-4-B7DL			02BU
131-4-JDL			03AU
131-4-B7DL			03BU
132-4-JDL			04AU
132-4-B7DL			04BU
133-4-JDL			05AU
133-4-B7DL			05BU
134-4-JDL			06AU
134-4-B7DL			06BU
135-4-JDL			07AU
135-4-B7DL			07BU
136-4-JDL			08AU
136-4-B7DL			08BU
138-4-JDL			09AU
138-4-B7DL			09BU
187-4-JDL			10AU
187-4-B7DL	10BU		

HellermannTyton	Description	Style	MS3117-
1106-4-JL	Right angle shapes with rib 'J' or 'B7' material. J = Red stripe, B7 = White stripe. Optional drainholes (D)		11AU
1106-4-B7L			11BU
1107-4-JL			12AU
1107-4-B7L			12BU
1104-4-JL			13AU
1104-4-B7L			13BU
1103-4-JL			14AU
1103-4-B7L			14BU
1101-4-JL			15AU
1101-4-B7L			15BU
1105-4-JL			16AU
1105-4-B7L			16BU
1109-4-JL			17AU
1109-4-B7L			17BU

HellermannTyton	Description	Style	MS3117-
1121-4-JDL	Right angle shapes low profile with rib 'J' or 'B7' material. J = Red stripe, B7 = White stripe. Supplied with drainholes (D)		01AU
1121-4-B7DL			01BU
1122-4-JDL			02AU
1122-4-B7DL			02BU
1123-4-JDL			03AU
1123-4-B7DL			03BU
1124-4-JDL			04AU
1124-4-B7DL			04BU
1125-4-JDL			05AU
1125-4-B7DL			05BU
1126-4-JDL			06AU
1126-4-B7DL			06BU
1127-4-JDL			07AU
1127-4-B7DL			07BU
1128-4-JDL			08AU
1128-4-B7DL			08BU
1129-4-JDL			09AU
1129-4-B7DL			09BU
1141-4-JDL			10AU
1141-4-B7DL			10BU

# NORTH AMERICAN CROSS REFERENCE

## ORDERING PROCEDURE GUIDELINE TO PART NUMBERING SYSTEM

### ORDERING AGAINST MIL. SPEC

The following cross reference table shows how the make up of a Mil. Spec. number translates to that of a HellermannTyton part.

MIL. Spec.	Part Number	Material			Drainhole Option	Stripe	Adhesive	
MS3117-04	MS3117-04	A*	B**	C	D	-	C = lined	U = unlined
HellermannTyton	1124-4	J*	B7**	-	D	L**	W8****	-

### Examples

MIL. Spec. MS3117-02BDU = HELLERMANNTYTON 1122-4-B7DL: Right angle, low profile shapes with rib in B7 material, with drainholes and white stripe.

MIL. Spec. MS3109-10AC = HELLERMANNTYTON 187-4-JLW8: Long outlet, low profile bottle shape with rib in J material with red stripe and coated with hot melt adhesive.

\*Flexible Polyolefin

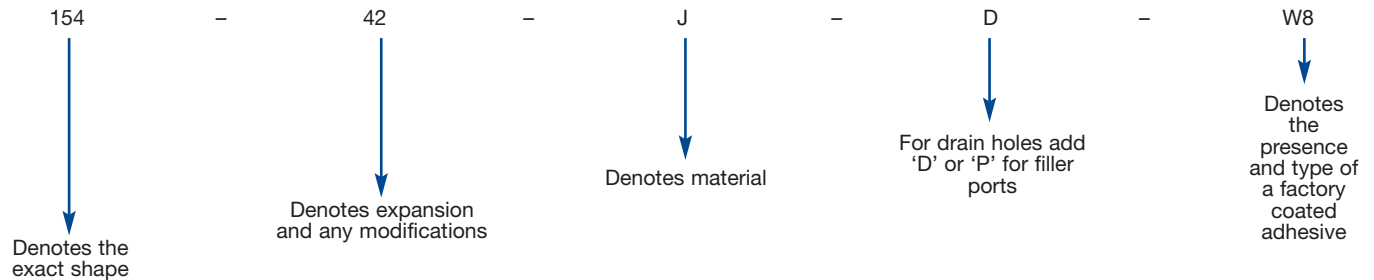
\*\*Semi-rigid Polyolefin

\*\*\*J material (flexible) has a red stripe, B7 material (semi-rigid) has a white stripe

\*\*\*\* W8 is a factory applied hot melt thermoplastic adhesive

### HELLERMANNTYTON PART NUMBER BREAKDOWN

It is necessary to give a complete part number when placing an order. Part numbers are made up of the following components:



Material Designation	Hebran	3M	Raychem	HellermannTyton
Semi-rigid flame retardant polyolefin MIL-1-81765/1 Type 1	-30	-1	-3	B7
Semi-rigid flame retardant polyolefin (industrial)			-37	B8
Flexible polyolefin (low smoke & fume, halogen free) Navsea 5617649		-3	-100	H
Flexible polyolefin MIL-1-81765/1 Type 2		-6	-4	J
Fluid resistant elastomer VG 95343 Part 6		-7	-25	G
Flexible flame retardant fluoro carbon material		-	-12	L

Adhesives	Hebran	3M	Raychem	HellermannTyton
Hot melt adhesive (factory applied)		250	-42	WM250
High temperature hot melt adhesive (factory applied)		-200	164	-200
High temperature hot melt adhesive (factory applied)		-350	180	W17
High temperature hot melt adhesive (factory applied)		450	-86	W8
Two part epoxy adhesive		TPA150	S1125	V9500
One part epoxy adhesive (factory applied)		-	-225	W24
Hot melt adhesive tape		TTS250	S1030 & S1112	HMT100A
High temperature hot melt adhesive tape		TTS450	S1048	HMT200A

Modifications	Hebran	3M	Raychem	HellermannTyton
Drain holes (4 off, 3mm diameter)		D	-88	D
Filler ports (3mm diameter vents & 4.5mm diameter filler)		P	-00	P

**NOTE: Hebran -31 = B7WM250 and -32 = B7W8** – For special expansions or cut length modifications, please consult factory to obtain special modification to Part Number

## **IMPORTANT NOTICE**

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## **SYSTEMS APPROVALS**

HellermannTyton has the following system approvals:

BS EN ISO 9001      Certificate Number: 860468 (L.R.Q.A.)

BS EN ISO 9002  
CAA A8-1              Certificate Number: DAI/3476/52

Cage Code              K0720

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