

NORTH AMERICAN HEATSHRINK

CROSS REFERENCE CATALOG & ORDERING PROCEDURE

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


Moulded Shapes


NORTH AMERICAN CROSS REFERENCE

C O N T E N T S


General Heatshrink Cross Reference	3-10
Bottle Shapes	3-5
2 Way Outlet Shapes	5
3 Way Outlet Shapes	5
4 Way Outlet Shapes	6
5 Way Outlet Shapes	6
6 Way Outlet Shapes	6
Right Angle Shapes	6-8
T-Shapes	8
Offset & Angle T-Shapes	8
Elbow Shapes	8
Connector Covers (Min-D Series)	9 & 10
Endcaps	9
Graduated Strain Relief Shapes	9
Locating Bushes	9 & 10
45 Deg. Angle Shape	10
90 Deg. Cross Shape	10
Blow Moulded	11 & 12
MIL Spec. Reference	13
Ordering Procedure & Guideline to Part Numbering System	14


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 tail 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
				5-way outlet shapes ~ in line style 	
		613 W 024	501-1		
		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
		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	Mil. Spec/Nav. Sea
		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		

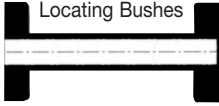
3M	Hebran	Raychem/Sigmaform	HellermannTyton	Description	Mil. Spec/Nav. Sea
325 H 122		214 A 011	1505-1	Connector cover for Min-D series with top entry (lipped) 	
325 H 422		214 A 311	1505-2		
		214 W 013	1509-1		
325 H 132		214 A 021	1506-1		
325 H 432		214 A 321	1506-2		
		214 A 124	1504-1		
325 H 143		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		
		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	Convolved 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.

	Part Number	Material			Drainhole Option	Stripe	Adhesive	
MIL. Spec.	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

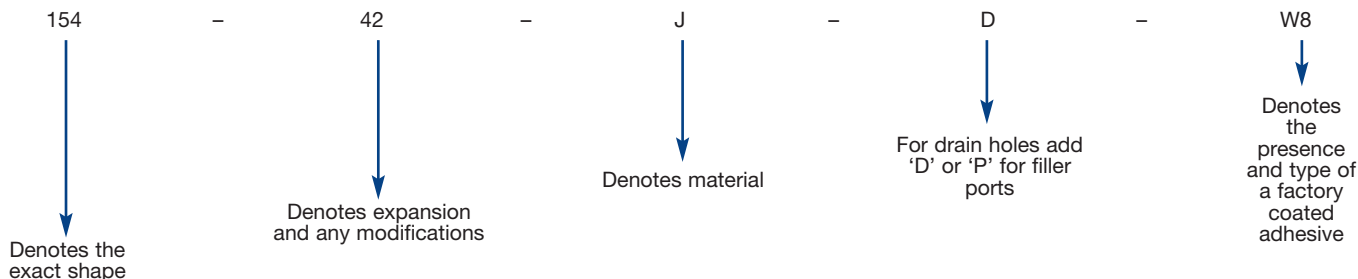
**Semi-rigid Polyolefin

*** 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

NORTH AMERICAN CROSS REFERENCE

NOTES

IMPORTANT NOTICE

All statements, technical information and recommendations related to the Seller's products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Specifications and installation instructions are believed to be reliable as at the date of issue. The Seller shall not be liable for the customer's failure to install or use the Seller's product in accordance with the Seller's installation instructions and makes no warranties concerning the product if not installed in accordance with the Seller's installation instructions. Before utilising any product, the user should determine the suitability of the product for its intended use. The user assumes all risks and liability howsoever arising in connection with such use. Any statements or recommendations of the Seller which are not contained in the Seller's current publications shall have no force or effect unless contained in an agreement signed by an authorised officer of the Seller. Such statements are made in lieu of all warranties, express or implied including but not limited to the implied warranties of merchantability, satisfactory quality and fitness for a particular purpose which warranties are hereby expressly disclaimed.

THE SELLER SHALL NOT BE LIABLE TO THE USER OR ANY OTHER PERSON UNDER ANY LEGAL THEORY, INCLUDING BUT NOT LIMITED TO NEGLIGENCE OR ANY OTHER TORTIOUS CLAIM, FOR ANY INJURY OR FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES (INCLUDING BUT NOT LIMITED TO LOSS OF PROFIT, LOSS OF REVENUE AND LOSS OF USE) SUSTAINED OR INCURRED BY REASON OF THE USE OF ANY OF THE SELLER'S PRODUCTS THAT ARE DEFECTIVE.

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

HellermannTyton

U.S. OFFICE

2024 Liverpool Drive

Plano

Texas

75025

Tel 001 469 361 6678

Fax 001469 361 6671

e-mail: efenton@cox.net

www.hellermanntyton.co.uk

DISTRIBUTED BY:



WWW.CABLEJOINTS.CO.UK

THORNE & DERRICK UK

TEL 0044 191 490 1547 FAX 0044 477 5371

TEL 0044 117 977 4647 FAX 0044 977 5582

WWW.THORNEANDDERRICK.CO.UK