

The background of the cover features a close-up, slightly blurred image of a gas chromatography column. The column is a long, thin, yellowish-orange tube with a metal mesh support structure. It is held in place by several metal rings or clips. The overall aesthetic is clean and professional, with a focus on the product being advertised. The text is overlaid on this background, with the product names in white on green bars and the title in a light green font.

Heliflex AT[®]+

&

EconoCap EC[®]+

GC Columns
CATALOG
2020

Rev. 1-2021

Heliflex AT[®] - and Econo-Cap EC[®] - GC Capillary Columns Families

We offer two lines of capillary columns to suit every application and budget; Heliflex AT[®]- and Econo-Cap EC[®]-.

Regardless of the capillary line you choose, every manufactured capillary column has a guarantee of column performance.

Heliflex AT[®]- Capillary Columns

- High-performance individually tested columns
- 7" (or 5") rugged cage
- Most complete selection of phases
- Custom columns available to suit your specific application
- FAST GC columns available to speed up your analysis

Heliflex AT[®]- Capillary Columns are manufactured from the highest quality polyimide coated synthetic fused silica. They are mounted on a rugged wear-resistant cage. Each Heliflex AT[®]- Column is individually tested to guarantee column performance and comes with a test chromatogram, instruction manual, capillary end caps, and a free ceramic column cutter.

Note: column nuts and ferrules are not included. If the column you need is not available in our standard offering, request a custom Heliflex AT[®]- Column made to your individual specifications.

Econo-Cap EC[®]- Capillary Columns

- Best value in capillary columns anywhere
- Batch tested to dramatically reduce price
- Ideal for aggressive applications
- Available in the most popular phases

We've taken our most popular capillary columns and perfected the manufacturing procedure to the point that reproducibility is assured, producing them one-by-one and carefully following each step of the production.

This allows us to test these columns in batches instead of individually, while still offering a guarantee. Batch testing significantly reduces cost in production without sacrificing quality.

Each Econo-Cap EC[®]- Capillary Column comes with a copy of the batch test results, an instruction manual, capillary end caps and a free ceramic column cutter.

Note: column nuts and ferrules are not included.

Available Heliflex AT [®] - Phases	
Phase	Page
Heliflex AT [®] -1ms+	3
Heliflex AT [®] -1ht+	3
Heliflex AT [®] -1+	4
Heliflex AT [®] -5ms+	5
Heliflex AT [®] -5+	5
Heliflex AT [®] -20+	6
Heliflex AT [®] -50+	6
Heliflex AT [®] -1301+	6
Heliflex AT [®] -35+	7
Heliflex AT [®] -35ms+	7
Heliflex AT [®] -210+	8
Heliflex AT [®] -1701+	8
Heliflex AT [®] -WAX+	9
Heliflex AT [®] -WAXms+	9
Heliflex AT [®] -AquaWax+	10
Heliflex AT [®] -AquaWax DA+	10
Heliflex AT [®] -1000+	11
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Heliflex AT [®] -624+	12
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In this catalog only the most common stationary phases and GC column types are reported.
Contact us for other items and custom products.

Available Econo-Cap EC [®] - Phases	
Phase	Page
Econo-Cap EC [®] -1+	4
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Econo-Cap EC [®] -WAX+	10
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tech tip

Temperature limits

Our GC capillary columns are temperature rated. In some cases, we list two maximum operating temperatures; the lower one is for isothermal condition and the higher one for temperature-programmed condition.

Contact us for more info

Capillary Column Phase Cross Reference

Use the chart below to cross reference manufacturers' stationary phases as well as USP method designations to Heliflex AT[®]- and Econo-Cap EC[®]-equivalent columns. Slight variations in selectivity may result between different manufacturers' columns.

Standard Phase Cross Reference

Standard Phase Cross Reference			
Composition	Heliflex, Econo-Cap Brand	USP Designation	Similar Phases
100% Dimethylpolysiloxane	AT [®] -1ms+	G1, G2, G38	DB-1ms, HP-1ms, Rtx [®] -1ms, MEGA-1 MS, CP-Sil 5CB low-bleed/ms
100% Dimethylpolysiloxane	AT [®] -1ht+, AT [®] -1+ EC [®] -1+	G1, G2, G38	007-1, CP-Sil 5CB, DB-1, DB-1ht, HP-1, HP-101, MEGA-1, MEGA-1 HT OV [™] -1, RSL-150, RSL-160, Rtx [®] -1, SE-30 [™] , SPB [™] -1, SPB [™] -Sulfur, ULTRA-1, SP-2100, BP-1, DC-200, PE-1, ZB-1
5% Phenyl equivalent Polysilphenylene-Siloxane	AT [®] -5ms+		DB-5ms, Rtx [®] -5 Sil ms, BPX [™] -5, 007-5ms, MEGA-5 MS, MEGA-5 MS Xil, HP-5ms
5% Phenyl - 95% Methylpolysiloxane	AT [®] -5+ EC [®] -5+	G27, G36	007-2, CP-Sil 8CB, DB-5, DB-5.625, DB-5ht, HP-5, MEGA-5, HP-5ms, OV [™] -5, PTE-5, PTE-5QTM, PAS-5, RSL-200, Rtx [®] -5, Rtx [®] -5ms, SAC-5, SE [™] -54, SPB [™] -5, ULTRA-2, XTI-5, SE [™] -52, BP-5, PE-2, ZB-5
20% Phenyl - 80% Methylpolysiloxane	AT [®] -20+ EC [®] -20+	G28, G32	007-7, Rtx [®] -20, SPB [™] -20, VOCOL [™] , MEGA-20, PE-7
35 Phenyl - 65% Methylpolysiloxane	AT [®] -35ms+ AT [®] -35+	G42	DB-35ms, Rtx [®] -35, SPB [™] -35, SUP-HERB [™] , MDN-35, BPX [™] -35, MEGA-35, 007-11, DB-35, DB-35ms, HP-35, RSL-300, Rtx [®] -35, SPB [™] -35, SPB [™] -608, OV [™] -11, PE-35, SUP-HERB [™] , MEGA-35 MS
50 Phenyl - 50% Methylpolysiloxane	AT [®] -50+	G3	DB-17ms, H5-50+, Rtx [®] -50, SP-2250, SPB [™] -50, SPB [™] -17, BPX [™] -50, Rtx [®] -65TG, BPX [™] -50, CP-TAB-CB, MEGA-17, MEGA-17 MS, MEGA-17 HT 007-17, DB-17, DB-17ht, HP-17, HP-50+, Rtx [®] -50, SP-50, SP-2250, SPB [™] -50, CP-Sil 24CB, PE-17, ZB-50
6% Cyanopropylphenyl - 94% Methylpolysiloxane	AT [®] -624+ AT [®] -1301+	G43	007-1301, DB-624, DB-1301, HP-1301, HP-624, MEGA-624, MEGA-1301, Rtx [®] -1301, Rtx [®] -624, SPB [™] -1301, SPB [™] -624, 007-624, ZB-624
14% Cyanopropylphenyl - 86% Methylpolysiloxane	AT [®] -1701+		007-1701, CP-Sil 19CB, DB-1701, HP-1701, OV [™] -1701, MEGA-1701, PAS-1701, Rtx [®] -1701, SPB [™] -1701, BP-10, ZB-1701
Trifluoropropyl - Methylpolysiloxane	AT [®] -210+	G6	DB-210, RSL-400, Rtx [®] -200, OV [™] -202, OV [™] -210, OV [™] -215, MEGA-200, QF-1, SP-2401
50% Cyanopropylphenyl - 50% Methylpolysiloxane	AT [®] -225+	G7	007-225, CP-Sil 43CB, DB-225, HP-225, OV [™] -225, RSL-500, Rtx [®] -225, MEGA-225, BP-225, PE-225
Poly 90% biscyanopropyl - 10% Cyanopropylphenyl siloxane	AT [®] -SILAR-90+	G8	DB-23, CP-Sil 84, Rtx [®] -2330, SP-2330
Polybiscyanopropylsiloxane	AT [®] -SILAR-100+	G5	CP-Sil 88, Rtx [®] -2330, MEGA-10, SP-2340
Polyethyleneglycol	AT [®] -WAXms+ AT [®] -WAX+ AT [®] -AquaWax+ EC [®] -WAX+	G14, G15 G16, G20, G39	DB-WAX, Rtx [®] -WAX, Supelcowax [™] -10, MEGA-WAX, MEGA-WAX MS, MEGA-WAX Plus, 007-CW, Carbowax [®] 20M, CP-Wax 52CB, DB-WAXetr, DB-WAX, Rtx [®] -WAX, HP-20M, HP-Wax, Innowax [™] , Omegawax [™] , Stabilwax [®] , Supelcowax [®] -10, Superox [®] II, BP-20, ZB-WAX
Polyethyleneglycol Acid Modified	AT [®] -1000+ EC [®] -1000+ AT [®] -AquaWax DA+	G25, G35	007-FFAP, CP-Wax 58CB, DB [™] -FFAP, HP [™] -FFAP, Nukol [™] , MEGA-FFAP EXT MEGA-ACID (FFAP), OV [™] -351, SP-1000, Stabilwax [®] -DA, Superox [®] -FA, BP-21
Polyethyleneglycol Base Modified	AT [®] -CAM+		Stabilwax [®] -DB, CAM, Carbowax [®] Amine, MEGA-WAX BA, CP Wax 51
PONAA analysis	AT [®] -Petro+		007-1-100-0.5F, CP-Sil PONA CB, DB-Petro100, Petrocol [™] DH, PONA, MEGA-1 PONA, Ttx-1PONA, HP-PONA

Specialty Columns Cross Reference

Specialty Phases Cross Reference		
EPA Method 502.2	AT [®] -502.2+	007-624, 007-502, DB-502.2, DB-VRX, HP-624, HP-VOC, MST-502.2, MXT-624, MXT-Volatiles, OV [™] -624, Rtx [®] -502.2, Rtx [®] -624, Rtx [™] -Volatiles, VOCOL [™]
Sulfur Analysis	AT [®] -Sulfur+	SPB [™] -1 Sulfur

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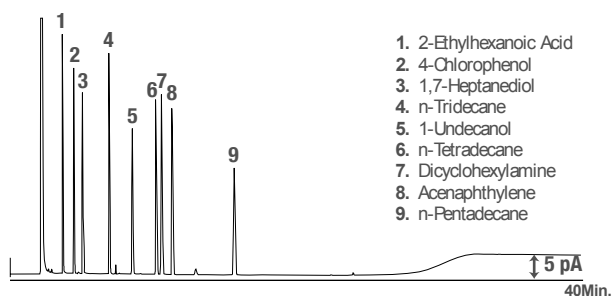
Heliflex AT[®]-1ms+

- Guaranteed low-bleed characteristics
- Specifically designed for mass spec analysis
- Highly inert
- Similar to DB-1ms, HP-1ms, Rtx[®]-1ms, MEGA-1 MS, CP-Sil 5CB low-bleed/MS, MDN-1

AT[®]-1ms+ is a line of high-performance low bleed non-polar columns designed specifically for use with mass spectrometers. They are ideal for pharmaceutical, environmental, petrochemical, and food and fragrance analysis, or any GC/MS analysis requiring a 100% dimethylpolysiloxane-type polarity capillary column.

Heliflex AT [®] -1ms+ Specifications	
Phase:	100% Dimethylpolysiloxane
Polarity:	Non-polar
Max. Temp.:	330/350°C*
USP Designation:	G1, G2, G38
Ideal For:	Mass Spec Analysis for Environmental, PAH, CLP Pesticides, Steroids, and Drugs

Low Bleed Profile



1. 2-Ethylhexanoic Acid
2. 4-Chlorophenol
3. 1,7-Heptanediol
4. n-Tridecane
5. 1-Undecanol
6. n-Tetradecane
7. Dicyclohexylamine
8. Acenaphthylene
9. n-Pentadecane

Column: Heliflex AT[®]-1ms+, 30m x 0.25mm x 0.25µm
Part No. **8635244** (Old Ref. 15897)

Temp: 135°C (20min hold) to 320°C (10min hold) at 20°C/min

Carrier Gas: Helium at 0.65mL/min (23.1cm/sec)

Detector: FID

Heliflex AT[®]-1ms+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
30m	0.25mm	0.10µm	-60–340/350°C	15884	8635243
	0.25mm	0.25µm	-60–330/350°C	15897	8635244
	0.32mm	0.25µm	-60–330/350°C	15938	8635273
60m	0.25mm	0.25µm	-60–330/350°C	15941	8635354
	0.32mm	0.25µm	-60–330/350°C	15944	8635377

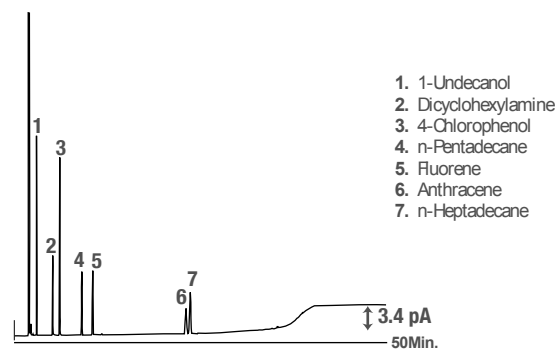
Heliflex AT[®]-1ht+

Shorten Your Analysis Time with High-Temperature/Low-Bleed Columns

- Faster analysis time for high boiling compounds
- Better peak detection at lower concentrations
- Individually bleed tested at 380°C
- Similar to 007-1, CP-Sil 5CB, DB-1, DB-1ht, HP-1, HP-101, OV[™]-1, RSL-150, RSL-160, Rtx[®]-1, SE-30[™], SPB[™]-1, SPB[™]-Sulfur, ULTRA-1, SP-2100, BP-1, DC-200, MEGA-1 HT, PE-1, ZB-1

Heliflex AT [®] -1ht+ Specifications	
Phase:	100% Dimethylpolysiloxane
Polarity:	Non-polar
Max. Temp.:	380/400°C*
USP Designation:	G1, G2, G38
Ideal For:	High Boiling Compounds Waxes, Crude Oils, and Triglycerides

Bleed Profile



1. 1-Undecanol
2. Dicyclohexylamine
3. 4-Chlorophenol
4. n-Pentadecane
5. Fluorene
6. Anthracene
7. n-Heptadecane

Column: Heliflex AT[®]-1ht+, 30m x 0.25mm x 0.10µm
Part No. **8635245** (Old Ref. 16368)

Column Temp: 125°C (25min hold) to 380°C at 20°C/min

Carrier Gas: Helium at 26.3cm/sec

Detector: FID at 390°C

Heliflex AT[®]-1ht+ GC Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
15m	0.25mm	0.1µm	-60–400°C	16367	8635143
30m	0.25mm	0.1µm	-60–400°C	16368	8635245
60m	0.25mm	0.1µm	-60–400°C	16369	8635355

*: Maximum Temperature range may change depending on stationary phase film thickness.
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Contact us for other items and custom products.

Custom Capillary Coiling Available
 Custom Capillary Column Dimensions Available
 Custom Capillary Column with Integral Guard Available
 FAST-GC narrow-bore Column Dimensions Available

Contact us for more info

Heliflex AT[®]-1+

- Excellent general purpose columns
- Similar to DB-1, Rtx[®]-1, SPB[™]-1, SPB[™]-Sulfur, SP-2100, HP-1, HP-101, ULTRA-1, BP-1, CP-Sil 5CB, 007-1, OV-1, SE[™]-30, DC-200, RSL-150, RSL-160, MEGA-1, PE-1, ZB-1

Heliflex AT[®]-1+ Specifications

Phase:	100% Dimethylpolysiloxane
Polarity:	Non-polar General Purpose Column
USP Designation:	G1, G2, G38
Ideal For:	General Purpose

Heliflex AT[®]-1+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.	
10m	0.25mm	0.20µm	-60–330/350°C	932510	8635081	
	0.32mm	0.10µm	-60–330/350°C	16868	8635090	
	0.32mm	0.25µm	-60–330/350°C	13755	8635089	
	0.32mm	0.30µm	-60–330/350°C	933210	8635091	
	0.53mm	0.25µm	-60–330/350°C	16840	8635106	
	0.53mm	1.20µm	-60–320/330°C	935110	8635105	
	0.53mm	2.65µm	-60–300°C	16849	8635104	
	0.53mm	5.00µm	-60–300°C	16842	8635103	
	15m	0.25mm	0.10µm	-60–330/350°C	13649	8635121
		0.25mm	0.25µm	-60–330/350°C	13753	8635123
0.25mm		1.00µm	-60–320/330°C	13653	8635122	
0.32mm		0.10µm	-60–330/350°C	13673	8635147	
0.32mm		0.25µm	-60–330/350°C	13757	8635150	
0.32mm		1.00µm	-60–320/330°C	13698	8635148	
0.32mm		5.00µm	-60–300°C	16836	8635151	
0.53mm		0.15µm	-60–330/350°C	13945	8635187	
0.53mm		1.20µm	-60–320/330°C	935115	8635188	
0.53mm		1.50µm	-60–320/330°C	13905	8635181	
0.53mm		3.00µm	-60–300°C	13893	8635184	
0.53mm		5.00µm	-60–300°C	16851	8635183	
25m		0.25mm	0.20µm	-60–330/350°C	932525	5123485
		0.32mm	0.30µm	-60–330/350°C	933225	8635901
30m	0.25mm	0.10µm	-60–330/350°C	13663	8635233	
	0.25mm	0.25µm	-60–330/350°C	13638	8635235	
	0.25mm	1.00µm	-60–320/330°C	13639	8635236	
	0.32mm	0.25µm	-60–330/350°C	13640	8635254	
	0.32mm	0.30µm	-60–330/350°C	933230	8635257	
	0.32mm	1.00µm	-60–320/330°C	13641	8635255	
	0.32mm	3.00µm	-60–300°C	13702	8635256	
	0.32mm	5.00µm	-60–300°C	16838	8635253	
	0.53mm	0.50µm	-60–330/350°C	14038	8635302	
	0.53mm	1.00µm	-60–320/330°C	13515	8635304	
	0.53mm	1.20µm	-60–320/330°C	935130	8635307	
	0.53mm	1.50µm	-60–320/330°C	13908	8635305	
	30m	0.53mm	2.65µm	-60–300°C	16876	8635303
		0.53mm	3.00µm	-60–300°C	13897	8635301
		0.53mm	5.00µm	-60–300°C	16843	8635306
	50m	0.25mm	0.20µm	-60–330/350°C	932550	8635322
60m	0.25mm	0.25µm	-60–330/350°C	13666	8635334	
	0.25mm	1.00µm	-60–320/330°C	13667	8635336	
	0.32mm	0.10µm	-60–330/350°C	13700	8635363	
	0.32mm	1.00µm	-60–320/330°C	13669	8635362	
	0.32mm	3.00µm	-60–300°C	13703	8635364	
	0.32mm	5.00µm	-60–300°C	13704	8635365	
	0.53mm	3.00µm	-60–300°C	13902	8635390	
	0.53mm	5.00µm	-60–300°C	13810	8635392	
	100m	0.25mm	0.25µm	-60–330/350°C	13972	8635902

Econo-Cap EC[®]-1+

- Batch tested to dramatically reduce price

Econo-Cap EC[®]-1+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
30m	0.25mm	0.25µm	-60–330/350°C	19652	8635041
	0.32mm	0.25µm	-60–330/350°C	19651	8635047
	0.32mm	1.00µm	-60–320/330°C	19660	8635048
	0.53mm	1.20µm	-60–320/330°C	19656	8635057

Econo-Cap EC[®]-1+ Capillary Columns, Six Pack

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
30m	0.25mm	0.25µm	-60–330/350°C	196526	5122228
30m	0.32mm	0.25µm	-60–330/350°C	196516	8635903
30m	0.53mm	1.20µm	-60–320/330°C	196566	8635904



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- Custom Capillary Coiling Available
- Custom Capillary Column Dimensions Available
- Custom Capillary Column with Integral Guard Available
- FAST-GC narrow-bore Column Dimensions Available

Heliflex AT[®]-5ms+

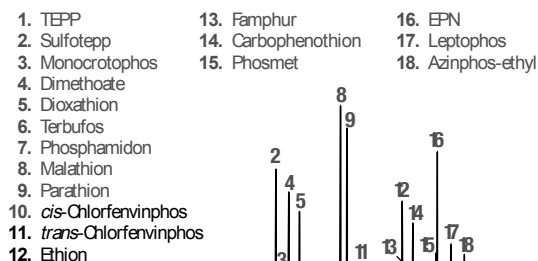
- Similar to DB-5ms, Rtx[®]-5 Sil ms, MEGA-5 MS, MEGA-5 MS Xil, HP-5ms, BPX[™]-5, 007-5ms

The Heliflex AT[®]-5ms + capillaries are ideal for environmental, pharmaceutical, and petrochemical analysis, or any GC/MS analysis requiring a 5% phenyl-type polarity capillary column.

Heliflex AT[®]-5ms+ Specifications

Phase:	5% Phenyl equivalent Polysilphenylene-Siloxane
Polarity:	Non-polar
USP Designation:	G27, G36
Ideal For:	Mass Spec Analysis—General Application

Organophosphorus Pesticides



Column: Heliflex AT[®]-5ms+, 30m x 0.25mm x 0.25µm
Part No. **8635225** (Old Ref. 15807)
Temp: 120°C (3min hold) to 285°C at 5°C/min (4min hold)
Carrier Gas: Helium, 26cm/sec
Detector: MSD

Heliflex AT[®]-5ms+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
15m	0.25mm	0.25µm	-60–330/350°C	15801	8635142
30m	0.25mm	0.10µm	-60–330/350°C	15806	8635224
	0.25mm	0.25µm	-60–330/350°C	15807	8635225
	0.25mm	0.50µm	-60–330/350°C	15808	8635226
	0.25mm	1.00µm	-60–320/330°C	15809	8635227
	0.32mm	0.25µm	-60–330/350°C	15894	8635270
60m	0.32mm	1.00µm	-60–320/330°C	15895	8635271
	0.25mm	0.10µm	-60–330/350°C	15879	8635351
	0.25mm	0.25µm	-60–330/350°C	15891	8635353
	0.25mm	1.00µm	-60–320/330°C	15892	8635352
	0.32mm	0.25µm	-60–330/350°C	15896	8635379

*: Maximum Temperature range may change depending on stationary phase film thickness.
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Heliflex AT[®]-5+

- Excellent general purpose column
- Similar to DB-5, Rtx[®]-5, SPB[™]-5, HP-5, MEGA-5, ULTRA-2, BP-5, CP-Sil 8CB, 007-2, OV[™]-5, SE[™]-52, SE[™]-54, RSL-200, ZB-5

Heliflex AT[®]-5+ Specifications

Phase:	5% Phenyl - 95% Methylpolysiloxane
Polarity:	Non-polar
Max. Temp.:	330/350°C *
USP Designation:	G27, G36
Ideal For:	General Applications

Heliflex AT[®]-5+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
10m	0.53mm	2.65µm	-60–300°C	16853	8635102
	15m	0.25mm	0.25µm	-60–330/350°C	13758
15m	0.25mm	1.00µm	-60–320/330°C	13706	8635126
	0.32mm	0.25µm	-60–330/350°C	13887	8635157
	0.32mm	1.00µm	-60–320/330°C	13710	8635156
	0.53mm	1.20µm	-60–320/330°C	955115	8635203
	0.53mm	1.50µm	-60–320/330°C	13906	8635201
25m	0.25mm	0.20µm	-60–330/350°C	952525	5123553
	30m	0.25mm	0.10µm	-60–330/350°C	13707
30m	0.25mm	0.25µm	-60–330/350°C	13656	8635222
	0.25mm	0.50µm	-60–330/350°C	13309	8635220
	0.25mm	1.00µm	-60–320/330°C	13657	8635223
	0.32mm	0.25µm	-60–330/350°C	13658	8635260
	0.32mm	1.00µm	-60–320/330°C	13659	8635261
	0.53mm	0.50µm	-60–330/350°C	14045	8635311
	0.53mm	1.00µm	-60–320/330°C	13798	8635309
	0.53mm	1.20µm	-60–320/330°C	955130	8635314
	0.53mm	1.50µm	-60–320/330°C	13909	8635310
	0.53mm	2.65µm	-60–300°C	16857	8635312
60m	0.53mm	5.00µm	-60–300°C	16859	8635313
	0.25mm	0.25µm	-60–330/350°C	13676	8635340
	0.32mm	0.25µm	-60–330/350°C	13678	8635369
	0.32mm	1.00µm	-60–320/330°C	13679	8635366
	0.53mm	1.00µm	-60–320/330°C	14076	8635397
100m	0.53mm	1.20µm	-60–320/330°C	13820	8635396
	0.53mm	5.00µm	-60–300°C	13829	8635394
	0.32mm	0.25µm	-60–330/350°C	14011	8635905

Contact us
for more info

Custom Capillary Coiling **Available**
 Custom Capillary Column Dimensions **Available**
 Custom Capillary Column with Integral Guard **Available**
 FAST-GC narrow-bore Column Dimensions **Available**

Econo-Cap EC[®]-5+

- Batch tested to dramatically reduce price

Econo-Cap EC[®]-5+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
15m	0.53mm	1.20µm	-60–320/330°C	19645	8635034
30m	0.25mm	0.25µm	-60–330/350°C	19647	8635042
	0.32mm	0.25µm	-60–330/350°C	19646	8635050
	0.53mm	1.00µm	-60–320/330°C	19671	8635058
	0.53mm	1.20µm	-60–320/330°C	19657	8635059

Econo-Cap EC[®]-5+ Capillary Columns, Six Pack

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
30m	0.25mm	0.25µm	-60–330/350°C	196476	5122223
	0.32mm	0.25µm	-60–330/350°C	196466	5122221
	0.53mm	1.20µm	-60–320/330°C	196576	5122237

best
value

Heliflex AT[®]-50+

- General purpose column
- Similar to DB-17, DB-17ht, Rtx[®]-50, BPX[™]-50, SPB[™]-50, SP-2250, HP-50+, HP-17, 007-17, MEGA-17, OV[™]-17, CP-Sil 24CB, PE-17, ZB-50

Heliflex AT[®]-50+ Specifications

Phase:	50% Phenyl - 50% Methylpolysiloxane
Polarity:	Intermediate Polarity
USP Code:	G3
Ideal For:	Pesticides, Herbicides, Phthalate Esters, Free Phenols, and Basic Drugs

Heliflex AT[®]-50+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
15m	0.25mm	0.25µm	40–320/340°C	13837	8635137
	0.53mm	1.00µm	40–280/300°C	13876	8635196
30m	0.25mm	0.25µm	40–320/340°C	13839	8635241
	0.32mm	0.25µm	40–320/340°C	13858	8635280
	0.53mm	0.50µm	40–300/320°C	13991	8635316
	0.53mm	1.00µm	40–280/300°C	13878	8635315

Heliflex AT[®]-20+

- Unique polarity between non-polar and mid-range
- Similar to 007-7, Rtx[®]-20, SPB[™]-20, VOCOL[™], PE-7, MEGA-20

Heliflex AT[®]-20+ Specifications

Phase:	20% Phenyl - 80% Methylpolysiloxane
Polarity:	Intermediate Polarity
USP Designation:	G28, G32
Ideal For:	Volatile Compounds and Solvents

Heliflex AT[®]-20+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
15m	0.25mm	0.25µm	-20–320/340°C	13838	8635138
30m	0.25mm	0.25µm	-20–320/340°C	13857	8635242
	0.53mm	1.00µm	-20–300/320°C	13882	8635299
	0.53mm	1.20µm	-20–300/320°C	13932	8635300

Heliflex AT[®]-1301+

- Unique polarity makes it ideal for a range of applications
- Similar to BP624, DB-1301, Rtx[®]-1301, Rtx[®]-624, HP-1301, HP-624, DB-624, 007-624, 007-1301, MEGA-1301, SPB[™]-1301, SPB[™]-624, ZB-624

Heliflex[®] AT[™]-1301 Specifications

Phase:	6% Cyanopropylphenyl - 84% Methylpolysiloxane
Polarity:	Intermediate Polarity
USP Code:	G43
Ideal For:	Volatile Organics, Pharmaceuticals, and EPA Method 612

Heliflex AT[®]-1301+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
30m	0.53mm	1.00µm	-20–240/260°C	13970	M8635565
	0.53mm	3.00µm	-20–240/260°C	15562	M8635544

*: Maximum Temperature range may change depending on stationary phase film thickness.
In this catalog are reported only the most common GC columns dimensions and part numbers.
Contact us for other items and custom products.

Custom Capillary Coiling **Available**
 Custom Capillary Column Dimensions **Available**
 Custom Capillary Column with Integral Guard **Available**
 FAST-GC narrow-bore Column Dimensions **Available**

Contact us for more info

Heliflex AT[®]-35ms+

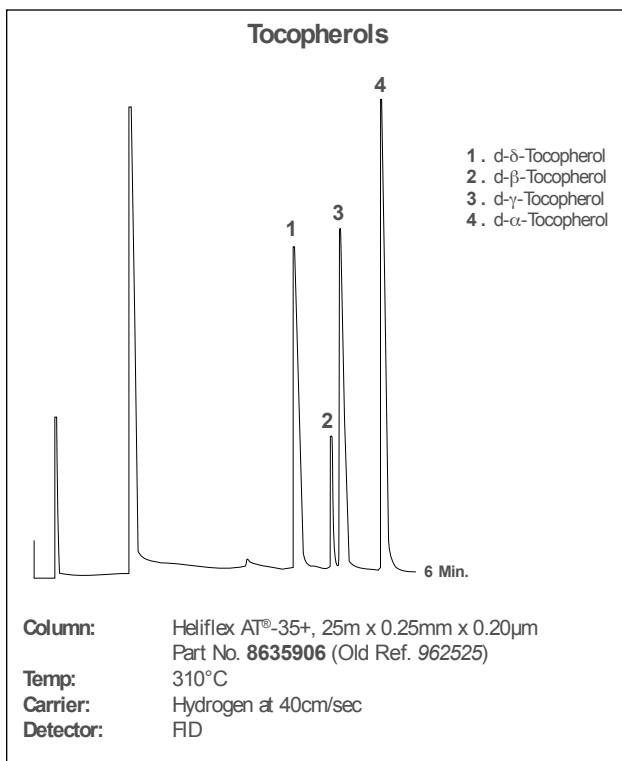
- Guaranteed low-bleed
- Specifically designed for mass spec analysis
- Similar to DB-35ms, Rtx[®]-35, SPB[™]-35, SUP-HERB[™], MEGA-35 MS, MDN-35, BPX[™]-35

Heliflex AT[®]-35ms+ Specifications

Phase:	35% Phenyl - 65% Methylpolysiloxane
Polarity:	Intermediate Polarity
USP Designation:	G42
Ideal For:	Pesticides, Herbicides, Drugs, Aromatics

Heliflex AT[®]-35ms+ Capillary Column

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
30m	0.25mm	0.25µm	-40–320/340°C	12589	8635213
60m	0.25mm	0.25µm	-40–320/340°C	12590	8635332



Heliflex AT[®]-35+

- Ideal column for conformational analysis
- Similar to DB-35, DB-35ms, Rtx[®]-35, BPX[™]-35, SPB[™]-35, SPB[™]-608, HP-35, 007-11, OV[™]-11, MEGA-35, RSL-300, PE-35, SUP-HERB[™], ZB-35

Heliflex AT[®]-35+ Specifications

Phase:	35% Phenyl - 65% Methylpolysiloxane
Polarity:	Intermediate Polarity
USP Designation:	G42
Ideal For:	Pesticides, Herbicides, Drugs, Aromatics

Heliflex AT[®]-35+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
10m	0.53mm	1.20µm	-40–300°C	965110	8635108
	0.53mm	2.65µm	-40–280/300°C	16877	8635109
15m	0.53mm	1.20µm	-40–300°C	965115	8635193
25m	0.53mm	1.20µm	-40–300°C	965125	8635212
30m	0.25mm	0.25µm	-40–320/340°C	13642	8635216
	0.25mm	1.00µm	-40–300/320°C	13796	8635218
	0.32mm	0.25µm	-40–320/340°C	13644	8635249
	0.32mm	0.50µm	-40–320/330°C	13645	8635250
	0.53mm	1.00µm	-40–300°C	14001	8635296
	0.53mm	1.20µm	-40–300°C	965130	8635297
60m	0.53mm	2.65µm	-40–280/300°C	16878	8635298
	0.25mm	0.25µm	-40–320/340°C	13682	8635341
	0.53mm	1.00µm	-40–320/340°C	14070	8635399

*: Maximum Temperature range may change depending on stationary phase film thickness.
In this catalog are reported only the most common GC columns dimensions and part numbers.
Contact us for other items and custom products.

Contact us for more info

Custom Capillary Coiling **Available**
 Custom Capillary Column Dimensions **Available**
 Custom Capillary Column with Integral Guard **Available**
 FAST-GC narrow-bore Column Dimensions **Available**

Heliflex AT[®]-210+

- Similar to DB- 210, Rtx[®]-200, OV[™]-202, MEGA-200, OV[™]-210, OV[™]-215, QF-1, SP-2401, RSL-400

Heliflex AT [®] -210+ Specifications	
Phase:	Trifluoropropyl Methylpolysiloxane
Polarity:	Polar
USP Code:	G6
Ideal For:	Ketones, Aldehydes, Silanes, Glycols, Nitro Aromatics, Herbicides, and Method 8140 and 609

Heliflex AT[®]-210+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
15m	0.53mm	1.00µm	40–240°C	13127	8635189
	0.53mm	1.20µm	40–240°C	985115	8635190
30m	0.53mm	1.00µm	40–240°C	13136	8635293
	0.53mm	1.20µm	40–240°C	985130	8635294

Heliflex AT[®]-1701+

- Similar to DB-1701, OV[™]-1701, SPB[™]-1701, Rtx[®]-1701, 007-1701, PAS-1701, CP-Sil 19CB, MEGA-1701, HP-1701, BP-10, ZB-1701

Heliflex AT [®] -1701+ Specifications	
Phase:	(14% Cyanopropylphenyl)-86% Methylpolysiloxane
Polarity:	Intermediate Polarity
USP Code:	n/a
Ideal For:	Pesticides, PCB's, Drugs, Herbicides, and TMS Sugars

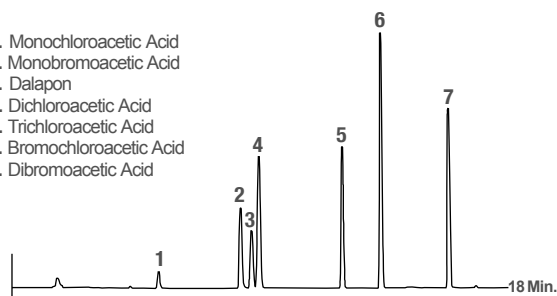
Heliflex AT[®]-1701+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
15m	0.25mm	0.25µm	-20–280°C	13881	M8635566
	0.32mm	0.25µm	-20–280°C	13762	M8635567
30m	0.25mm	0.25µm	-20–280°C	13686	M8635558
	0.25mm	1.00µm	-20–260/280°C	13687	M8635568
	0.32mm	0.25µm	-20–280°C	13690	5121863
	0.32mm	1.00µm	-20–260/280°C	13691	M8635517
60m	0.53mm	1.00µm	-20–260/280°C	13795	M8635569
	0.53mm	1.20µm	-20–260/280°C	13830	8635M405
	0.25mm	0.25µm	-20–280°C	13688	M8635570
	0.25mm	1.00µm	-20–260/280°C	13689	M8635571
	0.32mm	0.25µm	-20–280°C	13692	M8635572
	0.32mm	1.00µm	-20–260/280°C	13693	M8635573
	0.53mm	1.00µm	-20–260/280°C	14131	M8635574

*: Maximum Temperature range may change depending on stationary phase film thickness.
In this catalog are reported only the most common GC columns dimensions and part numbers.
Contact us for other items and custom products.

EPA Method 552.1: Haloacetic Acids

1. Monochloroacetic Acid
2. Monobromoacetic Acid
3. Dalapon
4. Dichloroacetic Acid
5. Trichloroacetic Acid
6. Bromochloroacetic Acid
7. Dibromoacetic Acid



Column: Heliflex AT[®]-1701+, 30m x 0.32mm x 0.25µm
Part No. **5121863** (Old. Ref. 13690)
Temp: 50°C (10min hold) to 120°C at 10°C/min
Carrier Gas: Helium at 35cm/sec
Detector: ECD

Contact us for more info

Custom Capillary Coiling **Available**
Custom Capillary Column Dimensions **Available**
Custom Capillary Column with Integral Guard **Available**
FAST-GC narrow-bore Column Dimensions **Available**

Heliflex AT[®]-WAX+

- Similar to DB-WAX, DB-WAXetr, Rtx[®]-WAX, MEGA-WAX Plus Stabilwax[®], Carbowax[®] 20M, Supelcowax[™]-10, Innowax[™], HP-20M, HP-Wax, BP-20, CP-Wax 52-CB, 007-CW, Superox[®] II, OmegaWAX[™], ZB-WAX

Heliflex AT[®]-WAX+ Specifications

Phase:	100% Polyethyleneglycol
Polarity:	Polar
USP Code:	G14, G15, G16, G39
Ideal For:	FAMEs, Polar Solvents, BTEX, Flavor and Fragrances, Glycols, Alcohols, and Aromatics

Heliflex AT[®]-WAX+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
10m	0.53mm	1.20µm	40–250/260°C	9951102	8635111
15m	0.25mm	0.50µm	40–250/260°C	137302	8635116
	0.32mm	0.50µm	40–250/260°C	137352	8635162
	0.32mm	1.00µm	40–250/260°C	137362	8635163
15m	0.53mm	0.50µm	40–250/260°C	14109	8635174
	0.53mm	1.00µm	40–250/260°C	13904	8635177
	0.53mm	1.20µm	40–250/260°C	9951152	8635179
25m	0.25mm	0.20µm	40–250/270°C	9925252	M8635502
	0.32mm	0.30µm	40–250/270°C	9932252	M8635545
	0.53mm	1.20µm	40–250/260°C	9951252	8635211
30m	0.25mm	0.20µm	40–250/270°C	9925302	8635229
	0.25mm	0.25µm	40–250/270°C	136462	8635230
	0.25mm	0.50µm	40–250/260°C	136472	8635231
	0.32mm	0.25µm	40–250/270°C	136482	8635275
	0.32mm	0.30µm	40–250/270°C	9932302	8635274
	0.32mm	0.50µm	40–250/260°C	136522	8635276
	0.32mm	1.00µm	40–250/260°C	137382	8635277
	0.53mm	0.50µm	40–250/260°C	14111	8635291
	0.53mm	1.00µm	40–250/260°C	13907	8635290
	0.53mm	1.20µm	40–250/260°C	9951302	8635292
50m	0.32mm	0.30µm	40–250/270°C	9932502	8635324
	0.53mm	1.20µm	40–250/260°C	13946	8635329
60m	0.25mm	0.20µm	40–250/270°C	9925602	8635349
	0.25mm	0.25µm	40–250/270°C	136942	8635350
	0.32mm	0.25µm	40–250/270°C	136962	8635372
	0.32mm	0.30µm	40–250/270°C	9932602	8635373
	0.32mm	0.50µm	40–250/260°C	136972	8635374
	0.53mm	1.00µm	40–250/260°C	13929	8635383
	0.53mm	1.20µm	40–250/260°C	13850	8635381

Heliflex AT[®]-WAXms+

- Designed to provide low MS bleed
- Similar to DB-WAX, Rtx[®]-WAX, Supelcowax[™]-10, MEGA-WAX MS

Heliflex AT[®]-WAXms+ Specifications

Phase:	100% Polyethyleneglycol
Polarity:	Polar
USP Code:	G14, G15, G16, G39
Ideal For:	Mass Spec Analysis

Heliflex AT[®]-WAXms+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
30m	0.25mm	0.25µm	40–250/270°C	12604	8635232
	0.32mm	0.25µm	40–250/270°C	12607	8635248
60m	0.25mm	0.25µm	40–250/270°C	12605	8635356

*: Maximum Temperature range may change depending on stationary phase film thickness.
In this catalog are reported only the most common GC columns dimensions and part numbers.
Contact us for other items and custom products.

Contact us for more info

Custom Capillary Coiling **Available**
 Custom Capillary Column Dimensions **Available**
 Custom Capillary Column with Integral Guard **Available**
 FAST-GC narrow-bore Column Dimensions **Available**

Econo-Cap EC[®]-WAX+

- Batch tested to dramatically reduce price
- For phase specifications, see Heliflex AT[®] version

Econo-Cap EC[®]-WAX+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
15m	0.53mm	1.20µm	40–250/260°C	19653	8635038
30m	0.25mm	0.25µm	40–250/270°C	19655	8635044
	0.32mm	0.25µm	40–250/270°C	19654	8635053
	0.53mm	1.20µm	40–250/260°C	19659	8635064

Econo-Cap EC[®]-WAX+ Six-Pack Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
30m	0.25mm	0.25µm	40–250/270°C	196556	5122233
	0.32mm	0.25µm	40–250/270°C	196546	5122231
	0.53mm	1.20µm	40–250/260°C	196596	5122240

best value

Heliflex AT[®]-AquaWax+

- Designed and tested for aqueous injections
- Similar to DB-Wax, DB-Waxer, Rtx[®]-WAX, Stabilwax[®], HP-Wax, HP-20M, HP-Innowax, MEGA-WAX Plus, ZB-Wax, and Supelcowax[™]-10

Heliflex AT[®]-AquaWax+ Specifications

Phase:	100% Polyethyleneglycol
Polarity:	Polar
USP Code:	N/A
Ideal For:	Food and Beverage Analysis

Heliflex AT[®]-AquaWax+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
30m	0.25mm	0.25µm	40–250/260°C	12437	5121748
	0.32mm	0.25µm	40–250/260°C	12439	5121750
60m	0.25mm	0.25µm	40–250/260°C	12447	5121751
	0.32mm	0.25µm	40–250/260°C	12449	5121752

Heliflex AT[®]-AquaWax DA+

- Designed and tested for aqueous injections
- Eliminates the need for derivatization of acidic organic compounds
- Similar to DB-FFAP, Stabilwax[®], HP-FFAP-DA, ZB-FFAP, SPB[™]-1000, and NukoI[™], MEGA-FFAP EXT

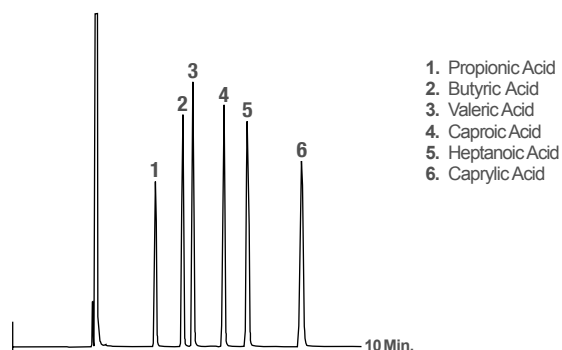
Heliflex AT[®]-AquaWax DA+ Specifications

Phase:	100% Polyethyleneglycol - Acid Modified
Polarity:	Polar
USP Code:	N/A
Ideal For:	Analysis of Acidic Organic Compounds and Free Fatty Acids

Heliflex AT[®]-AquaWax DA+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
30m	0.25mm	0.25µm	40–250/260°C	14537	5122065
	0.32mm	0.25µm	40–250/260°C	14539	5122066
	0.53mm	1.00µm	40–250/260°C	14543	5122067
60m	0.25mm	0.25µm	40–250/260°C	14547	5122068

Free Fatty Acids



Column: Heliflex AT[®]-AquaWax DA+, 30m x 0.25mm x 0.25µm
Part No. **5122065** (Old Ref. 14537)

Temp: 180°C

Carrier Gas: Helium at 22cm/sec

Detector: FID

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In this catalog are reported only the most common GC columns dimensions and part numbers.
Contact us for other items and custom products.

Custom Capillary Coiling **Available**
 Custom Capillary Column Dimensions **Available**
 Custom Capillary Column with Integral Guard **Available**
 FAST-GC narrow-bore Column Dimensions **Available**

Contact us for more info

Heliflex AT[®]-1000+

- Similar to DB[™]-FFAP, Stabilwax[®]-DA, SPB[™]-1000, Nukol[™], HP-FFAP, BP-21, CP-Wax-58-CB, 007-FFAP, OV[™]-351, FFAP, Superox[®]-FA, ZB-FFAP, MEGA-ACID (FFAP)

Heliflex AT [®] -1000+ Specifications	
Phase:	100% Polyethyleneglycol—Acid Modified
Polarity:	High Polarity
USP Code:	G25, G35
Ideal For:	Free Fatty Acids

Heliflex AT[®]-1000+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
10m	0.53mm	1.20µm	40–250°C	975110	8635112
15m	0.53mm	1.00µm	40–250°C	13873	8635191
	0.53mm	1.20µm	40–250°C	975115	8635192
25m	0.25mm	0.20µm	40–250/260°C	972525	5123576
	0.32mm	0.30µm	40–250/260°C	973225	M8635575
30m	0.25mm	0.25µm	40–250/260°C	13783	8635247
	0.32mm	0.25µm	40–250/260°C	13785	8635266
	0.32mm	0.30µm	40–250/260°C	973230	8635267
	0.53mm	1.00µm	40–250°C	13877	8635284
50m	0.53mm	1.20µm	40–250°C	975130	8635285
	0.53mm	2.00µm	40–250°C	13017	8635283
	0.25mm	0.20µm	40–250/260°C	972550	8635319
60m	0.32mm	0.30µm	40–250/260°C	973250	8635327
	0.25mm	0.25µm	40–250/260°C	13784	8635345
60m	0.32mm	0.25µm	40–250/260°C	13786	8635359
	0.32mm	0.30µm	40–250/260°C	973260	8635360
	0.32mm	1.00µm	40–250°C	13276	8635358
	0.53mm	1.00µm	40–250°C	13879	8635402

Econo-Cap EC[®]-1000+

- Batch tested to dramatically reduce price
- For phase specifications, see Heliflex AT[®] version

Econo-Cap EC[®]-1000+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
15m	0.53mm	1.20µm	40–250°C	19684	8635040
30m	0.25mm	0.25µm	40–250/260°C	19686	8635045
	0.32mm	0.25µm	40–250/260°C	19685	8635054
	0.53mm	1.20µm	40–250°C	19688	8635066

Econo-Cap EC[®]-1000+ Six-Pack Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
30m	0.32mm	0.25µm	40–250/260°C	196856	5122259
	0.53mm	1.20µm	40–250°C	196886	M8635576

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Heliflex AT[®]-502.2+

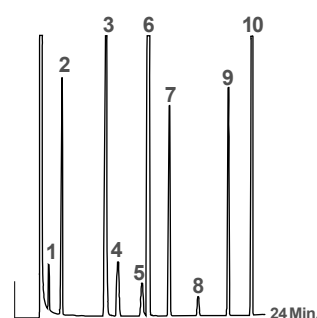
- Separates early eluting gases at above ambient temperature
- Useful for volatile organics analysis, including EPA Methods 502.2, 524.2, 8260

Heliflex AT [®] -502.2+ Specifications	
Phase:	Proprietary
Polarity:	Intermediate
USP Code:	n/a
Ideal For:	Volatile Organics and EPA Methods 502.2, 524.2, and 8260

Heliflex AT[®]-502.2+ Capillary Columns

Length	i.d.	Film	Temp. Limit* max.	Old Reference	Part No.
60m	0.25mm	1.40µm	280/300°C	13788	M86355022
	0.32mm	1.80µm	280/300°C	13790	5121932
	0.53mm	3.00µm	280/300°C	13793	5121935
105m	0.32mm	1.80µm	280/300°C	13791	M8635533

TCLP Volatiles Mix



1. Vinyl Chloride
2. 1,1-Dichloroethene
3. 2-Butanone
4. Chloroform
5. Carbon Tetrachloride
6. Benzene+ 1,2-Dichloroethene
7. Trichloroethene
8. Tetrachloroethene
9. Chlorobenzene
10. 1,4-Dichlorobenzene

Column: Heliflex AT[®]-502.2+, 30m x 0.53mm x 3.00µm
Part No. **M8635577** (Old Ref. 13792)
Temp: 40°C (10min hold) to 120°C at 4°C/min
Carrier Gas: Helium at 22cm/sec
Detector: FID

Contact us
for more info

Custom Capillary Coiling Available
Custom Capillary Column Dimensions Available
Custom Capillary Column with Integral Guard Available
FAST-GC narrow-bore Column Dimensions Available

Heliflex AT[®]-624+

- Specially tested for EPA Method 624
- Similar to DB[™]-1301, Rtx[®]-1301, MEGA-624, Rtx[®]-624, HP-1301, HP-624, DB[™]-624, 007[™]-624, 007[™]-1301, SPB[™]-1301, SPB[™]-624, ZB-624

Heliflex AT[®]-624+ Specifications

Phase:	6% Cyanopropylphenyl - 94% Methylpolysiloxane
Polarity:	Intermediate Polarity
USP Code:	G43
Ideal For:	EPA Methods 524, 601, 602, 624, 8240 and 8260, and Solvent Analysis

Heliflex AT[®]-624+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
30m	0.25mm	1.40µm	-20–240/260°C	13754	8635239
	0.32mm	1.80µm	-20–240/260°C	13756	8635278
	0.32mm	3.00µm	-20–240/260°C	13780	8635279
	0.53mm	3.00µm	-20–240/260°C	16889	8635317
60m	0.25mm	1.40µm	-20–240/260°C	13503	8635333
	0.32mm	1.80µm	-20–240/260°C	13799	8635375
	0.53mm	3.00µm	-20–240/260°C	13800	8635400
75m	0.53mm	3.00µm	-20–240/260°C	13937	8635403

Heliflex AT[®]-225+

- Similar to DB[™]-225, HP-225, Rtx[®]-225, OV[™]-225, RSL-500, 007-225, CP-Sil 43CB, BP-225, PE-225, MEGA-225

Heliflex AT[®]-225+ Specifications

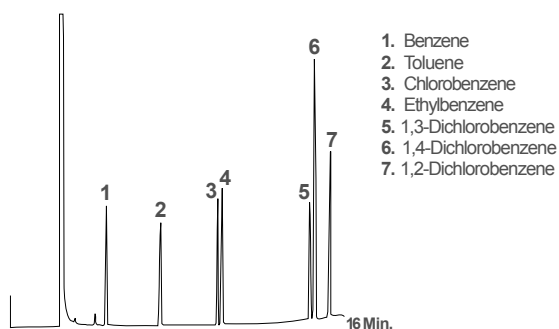
Phase:	50% Cyanopropylphenyl - 50% Methylpolysiloxane
Polarity:	Mid to High Polarity
USP Code:	G19
Ideal For:	Carbohydrates and Solvents

Heliflex AT[®]-225+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
15m	0.25mm	0.25µm	40–240°C	13883	8635139
25m	0.25mm	0.20µm	40–240°C	912525	M8635537
30m	0.25mm	0.25µm	40–240°C	13773	8635240
	0.32mm	0.25µm	40–240°C	13775	8635264
	0.32mm	0.30µm	40–240°C	913230	8635265
	0.53mm	1.20µm	40–220°C	915130	8635308

*: Maximum Temperature range may change depending on stationary phase film thickness.
In this catalog are reported only the most common GC columns dimensions and part numbers.
Contact us for other items and custom products.

EPA Method 602 - Purgeable Aromatics



Column: Heliflex AT[®]-624+, 30m x 0.32mm x 1.80µm
Part No. **8635278** (Old Ref. 13756)
Temp: 90°C (7min hold) to 180°C at 10°C/min
Carrier Gas: Helium at 1.1mL/min
Detector: FID

Custom Capillary Coiling **Available**
Custom Capillary Column Dimensions **Available**
Custom Capillary Column with Integral Guard **Available**
FAST-GC narrow-bore Column Dimensions **Available**

Contact us for more info

Heliflex AT[®]-SILAR-90+

- Designed and tested for FAMES
- Similar to DB[™]-23, CP-Sil 84, Rtx[®]-2330, SP-2330

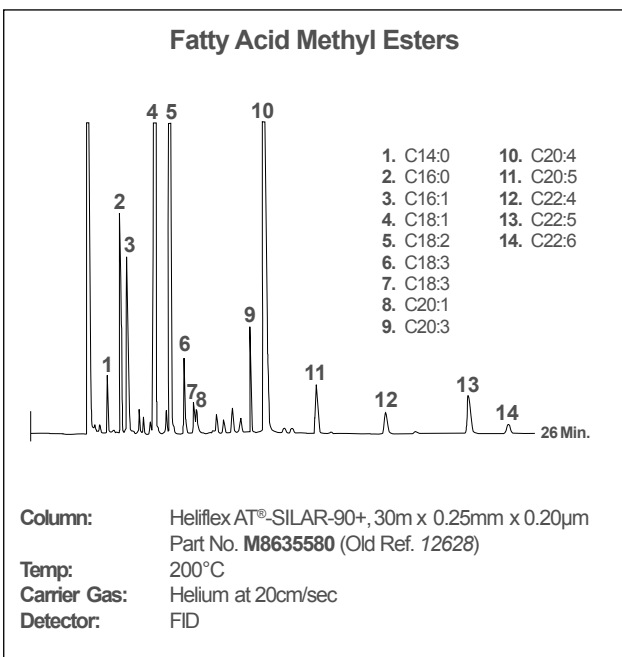
Heliflex AT[®]-SILAR-90+ Specifications

Phase:	Poly 90% bis Cyanopropyl -10% Cyanopropylphenyl siloxane
Polarity:	High Polarity
USP Code:	G8
Ideal For:	Analysis of FAMES

Heliflex AT[®]-SILAR-90+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
15m	0.25mm	0.20µm	60–250°C	12627	M8635579
30m	0.25mm	0.20µm	60–250°C	12628	M8635580
	0.32mm	0.20µm	60–250°C	12630	M8635581

Available also in 60m, 100m and 105m Lengths



tech tip

Tips for Heliflex AT[®]-SILAR-90+ and AT[®]-SILAR-100+; SILAR-90+ and SILAR-100+ are more susceptible to damage by oxygen, moisture, and HCl than other silicone phases. Avoid solvents such as water and methanol when using on-column injection techniques. Columns should not be rinsed.

Heliflex AT[®]-SILAR-100+

- Ideal for high and low temperature separation of samples containing geometric isomers of FAMES
- Similar to CP-Sil 88, Rtx[®]-2330, SP-2340, MEGA-10

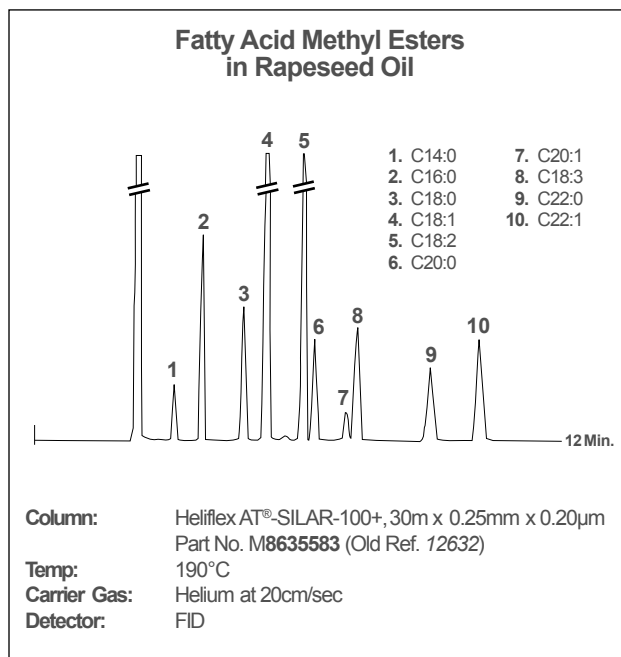
Heliflex AT[®]-SILAR-100+ Specifications

Phase:	Polybiscyanopropylsiloxane
Polarity:	High Polarity Available
USP Code:	G8
Ideal For:	<i>cis/trans</i> Isomers of FAMES, Dioxins, and Furans

Heliflex AT[®]-SILAR-100+ Capillary Columns

Length	i.d.	Film	Temp. Limits* min.–max.	Old Reference	Part No.
15m	0.25mm	0.20µm	60–250°C	12631	M8635582
30m	0.25mm	0.20µm	60–250°C	12632	M8635583
	0.32mm	0.20µm	60–250°C	12634	M8635584

Available also in 60m, 100m and 105m Lengths



*: Maximum Temperature range may change depending on stationary phase film thickness.
In this catalog are reported only the most common GC columns dimensions and part numbers.
Contact us for other items and custom products.

Custom Capillary Coiling **Available**
 Custom Capillary Column Dimensions **Available**
 Custom Capillary Column with Integral Guard **Available**
 FAST-GC narrow-bore Column Dimensions **Available**

Contact us for more info

Heliflex AT[®]-3710+

- For boiling range of gasoline samples

Heliflex AT [®] -3710+ Specifications	
Phase:	100% Methylpolysiloxane
Polarity:	Non-Polar
USP Code:	n/a
Ideal For:	Boiling Point of Gasoline

Heliflex AT[®]-3710+ Capillary Column

Length	i.d.	Film	Temp. Limit* max.	Old Reference	Part No.
15m	0.53mm	5.00µm	300°C	13949	M8635585

Heliflex AT[®]-Sulfur+

- Designed for the analysis of volatile sulfur-containing compounds in petroleum distillates

Heliflex AT [®] -Sulfur+ Specifications	
Phase:	100% Methylpolysiloxane
Polarity:	Non-Polar
USP Code:	n/a
Ideal For:	Volatile Sulfur Compounds

Heliflex AT[®]-Sulfur+ Capillary Columns

Length	i.d.	Film	Temp. Limit* min.–max.	Old Reference	Part No.
30m	0.32mm	4.00µm	-20–320°C	14029	M8635551

Heliflex AT[®]-Petro+

- For high resolution of complex hydrocarbon mixtures

Heliflex AT [®] -Petro+ Specifications	
Phase:	100% Methylpolysiloxane
Polarity:	Non-Polar
USP Code:	n/a
Ideal For:	hydrocarbon Mixtures

Heliflex AT[®]-Petro+ Capillary Column

Length	i.d.	Film	Temp. Limit* max.	Old Reference	Part No.
100m	0.25mm	0.50µm	330/340°C	13948	M8635586

*: Maximum Temperature range may change depending on stationary phase film thickness.
In this catalog are reported only the most common GC columns dimensions and part numbers.
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Contact us for more info

Custom Capillary Coiling **Available**
 Custom Capillary Column Dimensions **Available**
 Custom Capillary Column with Integral Guard **Available**
 FAST-GC narrow-bore Column Dimensions **Available**

Econo-Cap & Heliflex GC Columns

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