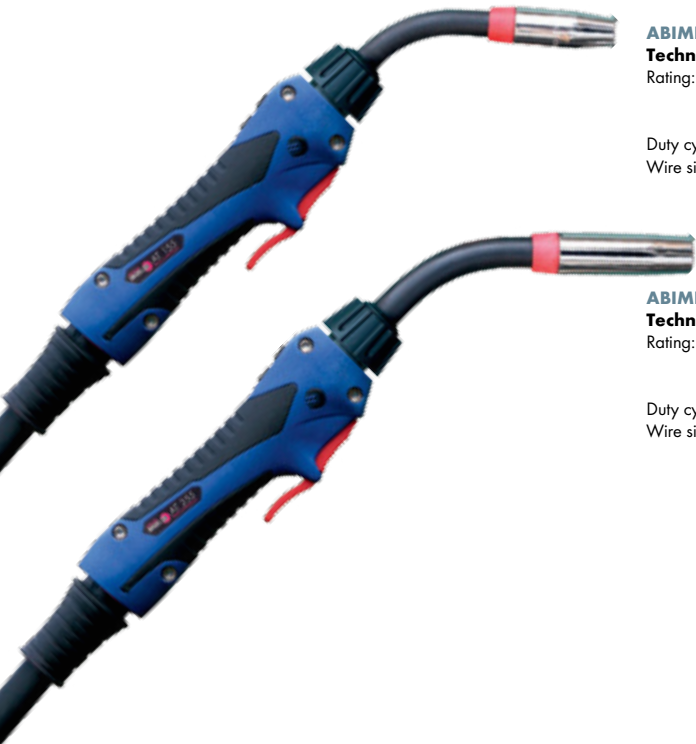


MIG/MAG Welding Torches "ABIMIG® A T LW"

Air cooled • rating 180 A up to 240 A

The newly developed, super lightweight MIG/MAG welding torch series "ABIMIG® A T LW" with ergonomic and universal two-component handle offer flexibility in perfection. They are equipped standard with ball joint and lightweight "Bikox® LW" cable assembly as well as exchangeable and 360° rotatable torch neck, so the torches enable ergonomic and relaxed welding in every position.

- New welding torch series and lightweight "Bikox® LW" cable assembly - Reduction of the torch weight up to 50%
- Newly designed ergonomic handle, optionally available with Up/Down module - Improved working comfort
- Universal contact tip holder (contact tip holder, gas diffuser and gas nozzle holder all in one) - Reduction of the number of spare parts and thus the costs
- Screwable, thermally insulated gas nozzle - Longer service life of the torch and cost reduction
- Turnable, quick-change torch neck - increased working comfort and reduction of service costs



ABIMIG® A T 155 LW

Technical data (EN 60 974-7):

Rating: 190 A CO₂
180 A Mixed Gases
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 0.8-1.0 mm

ABIMIG® A T 255 LW

Technical data (EN 60 974-7):

Rating: 240 A CO₂
220 A Mixed Gases
M21 (DIN EN 439)

Duty cycle: 60%

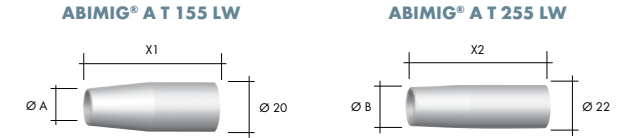
Wire size: 0.8-1.2 mm

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
ABIMIG® A T 155 LW	Trigger long	006.D810.1	006.D811.1	006.D812.1	45°	006.D804.1
ABIMIG® A T 255 LW	Trigger long	004.D850.1	004.D851.1	004.D852.1	45°	004.D831.1

Definition: T = turnable/exchangeable torch neck, LW = lightweight cable assembly
Attention: The specified variants correspond to the "BASIC" version. Further versions (COMBI, VARIO, FREE STYLE) on request.

ABIMIG® A T 155 LW, ABIMIG® A T 255 LW

Wear parts



Gas nozzle (5 pcs.)

	Ø A	X1		Ø B	X2	
Cylindrical	Ø 17	52 mm	145.D003	Ø 18	69 mm	145.D014
Conical	Ø 12	52 mm	145.D001	Ø 16	70 mm	145.D011
Conical	Ø 12	54 mm	145.D004	Ø 14	67 mm	145.D012

Contact tip (10 pcs.)

		M6	M6
E-Cu	Ø 0.8	140.0059	140.0051
	Ø 1.0	140.0253	140.0242
	Ø 1.2	-	140.0379
E-Cu for Al	Ø 0.8	141.0002	141.0001
	Ø 1.0	141.0007	141.0006
	Ø 1.2	-	141.0010
CuCrZr	Ø 0.8	140.0062	140.0054
	Ø 1.0	140.0256	140.0245
	Ø 1.2	-	140.0382

Contact tip holder (5 pcs.)

	006.D719.5	004.D624.5
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Spacer (5 pcs.)

	767.D607.5	767.D637.5
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Torch neck liner for T-torches

Standard	Ø 0.8	122.D037	122.D037
	Ø 1.0	122.D038	122.D038
	Ø 1.2	-	122.D038
Brass for Al	Ø 0.8	122.D040	122.D040
	Ø 1.0	122.D040	122.D041
	Ø 1.2	-	122.D041

Liner	Ø	for 3 m	for 4 m	for 5 m
Liner	Ø 0.8	124.0011	124.0012	124.0015
	Ø 1.0	124.0026	124.0031	124.0035
	Ø 1.2	124.0026	124.0031	124.0035
PTFE liner	Ø 0.8	126.0005	126.0008	126.0011
	Ø 1.0	126.0021	126.0026	126.0028
	Ø 1.2	126.0021	126.0026	126.0028
Carbon	Ø 0.8	127.0002	127.0003	127.0004
	Ø 1.0	127.0005	127.0007	127.0008
	Ø 1.2	127.0005	127.0007	127.0008

MIG/MAG Welding Torches "ABIMIG® A T LW"

Air cooled • rating 260 A up to 400 A

- New welding torch series and lightweight "Bikox® LW" cable assembly - Up to 50% lighter than comparable standard torches
- Newly designed ergonomic torch handle, available with optional Up/Down module - Improved working comfort
- Universal contact tip holder (contact tip holder, gas diffuser and gas nozzle holder all in one) - Reduces stocking requirements and costs
- Screwable, thermally insulated gas nozzle - Longer service life of the torch - Cost reduction
- Turnable, quick-change torch neck - increased working comfort and reduction of service costs



ABIMIG® A T 305 LW

Technical data (EN 60 974-7):

Rating: 290 A CO₂
260 A Mixed Gases
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 0.8-1.2 mm

ABIMIG® A T 355 LW

Technical data (EN 60 974-7):

Rating: 340 A CO₂
320 A Mixed Gases
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 1.0-1.6 mm

ABIMIG® A T 405 LW*

Technical data (EN 60 974-7):

Rating: 400 A CO₂
370 A Mixed Gases
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 1.0-1.6 mm
(up to 2.4 mm on demand)

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
ABIMIG® A T 305 LW	Trigger long	018.D960.1	018.D961.1	018.D962.1	45°	014.H356.1
ABIMIG® A T 355 LW	Trigger long	014.H390.1	014.H391.1	014.H392.1	45°	014.H363.1
ABIMIG® A T 405 LW	Trigger long	015.D070.1	015.D071.1	015.D072.1	45°	015.D082.1

Definition: T = turnable/exchangeable torch neck, LW = lightweight cable assembly

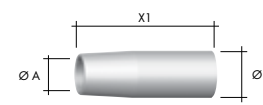
Attention: The specified variants correspond to the "BASIC" version. Further versions (COMBI, VARIO, FREE STYLE) on request.

*The ABIMIG® A T 405 LW is adjustable in 45° steps.

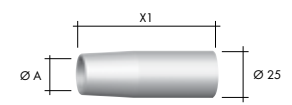
ABIMIG® A T 305 LW, ABIMIG® A T 355 LW, ABIMIG® A T 405 LW

Wear parts

ABIMIG® A T 305 / 355 LW

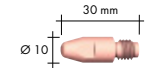
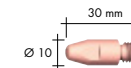


ABIMIG® A T 405 LW



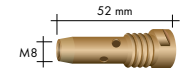
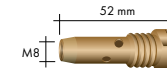
Gas nozzle (5 pcs.)

	Ø A	X1		Ø A	X1	
Cylindrical	Ø 21	71 mm	145.D024	Ø 21	71 mm	145.D024
Conical	Ø 18	72 mm	145.D021	Ø 18	72 mm	145.D021
Conical	Ø 16	69 mm	145.D022	Ø 16	69 mm	145.D022



Contact tip (10 pcs.)

		M8	M8
E-Cu	Ø 0.8	140.0114	140.0114
	Ø 1.0	140.0313	140.0313
	Ø 1.2	140.0442	140.0442
	Ø 1.6	140.0587	140.0587
E-Cu for Al	Ø 0.8	141.0003	141.0003
	Ø 1.0	141.0008	141.0008
	Ø 1.2	141.0015	141.0015
	Ø 1.6	141.0022	141.0022
CuCrZr	Ø 0.8	140.0117	140.0117
	Ø 1.0	140.0316	140.0316
	Ø 1.2	140.0445	140.0445
	Ø 1.6	140.0590	140.0590



Contact tip holder (5 pcs.)

M8	014.D745.5	014.D745.5
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Spacer (5 pcs.)

	767.D668.5	015.D080.5
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Torch neck liner for T-torches

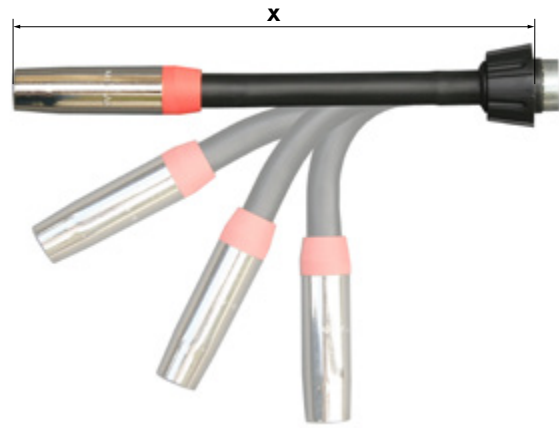
Standard	Ø 0.8	122.D037	-
	Ø 1.0-1.2	122.D038	122.D077
	Ø 1.6	122.D045	122.D078
Brass for Al	Ø 1.0	122.D040	122.D040
	Ø 1.0-1.2	122.D041	122.D041

Liner		305 / 355	405	305 / 355	405	305 / 355	405
		for 3 m	for 3 m	for 4 m	for 4 m	for 5 m	for 5 m
Liner	0.8	124.0011	-	124.0012	-	124.0015	-
	1.0	124.0026	124.D113	124.0031	124.D114	124.0035	124.D115
	1.2	124.0026	124.D116	124.0031	124.D117	124.0035	124.D118
	1.6	124.0041	124.D119	124.0042	124.D120	124.0044	124.D121
PTFE liner	0.8	126.0005	-	126.0008	-	126.0011	-
	1.0	126.0021	-	126.0026	-	126.0028	-
	1.2	126.0021	-	126.0026	-	126.0028	-
	1.6	126.0039	-	126.0042	-	126.0045	-
Carbon PTFE liner	0.8	127.0002	-	127.0003	-	127.0004	-
	1.0	127.0005	-	127.0007	-	127.0008	-
	1.2	127.0005	-	127.0007	-	127.0008	-
	1.6	127.0010	-	127.0012	-	127.0013	-

Note: Combined wire guides for ABIMIG® A / A T 405 LW on page 33.

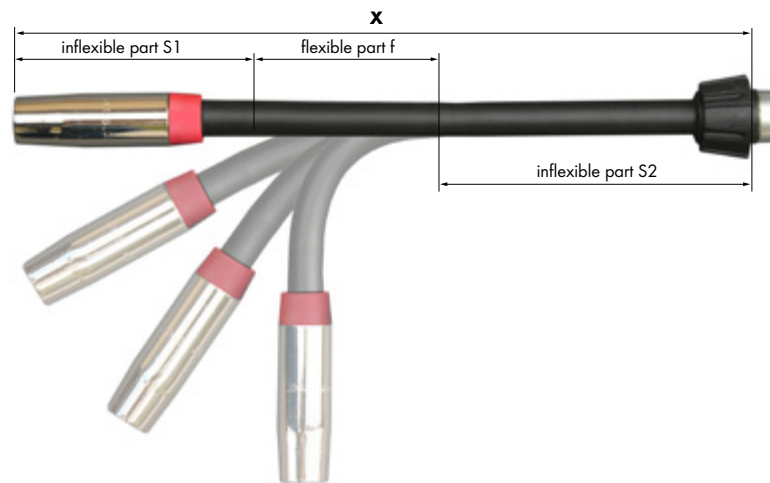
MIG/MAG Welding Torches "ABIMIG® A T LW"

Flexible changeable torch necks



Compatible for torch line ABIMIG® T and ABIMIG® A T with torch neck interface (M22 x 1.5).

FLEX copl.		For contact tip	X
006.0133.1	COMBI-Neck A T 155 T8	M6	230
004.0646.1	COMBI-Neck A T 255 T8	M6	250
018.0191.1	COMBI-Neck A T 305 T8	M8	250



Flexible special torch necks:
The flexible special torch necks combine an inflexible straight torch neck and a flexible front end.

FLEX copl.		For contact tip	X	f	S1	S2
018.0198.1	COMBI-Neck A T 305 T8	M8	350	108	96	146
018.0199.1	COMBI-Neck A T 305 T8	M8	500	180	96	296

MIG/MAG Gas nozzles and Contact tips

Gas nozzles for narrow gap welding

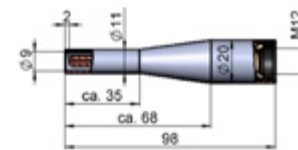


For all torches ABIMIG® 155 ... 405

- Compatible for standard tip holders
- Special gas nozzles and contact tips are necessary
- All Gas nozzles are nickel plated.
- The contact tip material is CuCrZr.

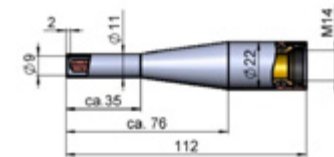
Attention:

- The amperage rates are reduced based on the small gap welding conditions and the small tube walls of the gas nozzles.
- Because of the small gap between the gas nozzle and the contact tip a regular cleaning is a protection against short circuit.



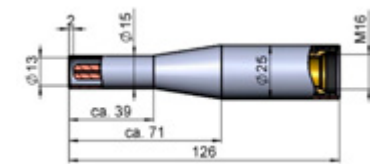
For ABIMIG® 155

Gas nozzle BOT M12 DN9 L98	145.D450.5
Contact tip CuCrZr M6/0.8/71	140.1644.10
Contact tip CuCrZr M6/0.8/71	140.D465.10



For ABIMIG® 255

Gas nozzle BOT M14 DN9 L112	145.D448.5
Contact tip CuCrZr M6/0.8/71	140.1644.10
Contact tip CuCrZr M6/1.0/71	140.D465.10
Contact tip CuCrZr M6/1.2/71	140.D466.10



For ABIMIG® 305/355/405

Gas nozzle BOT M16 DN13 L126	145.D437.5
Contact tip CuCrZr M8/1.0/85	140.1584.10
Contact tip CuCrZr M8/1.2/85	140.1585.10

MIG/MAG Welding Torches "ABIMIG® A LW"

Air cooled • rating 170 A up to 230 A

MIG/MAG welding torches ABIMIG® A LW with fixed torch neck open a new chapter in the development of the successful ABIMIG® line. Optimized production technologies and materials enabled the increase of product strengths, especially for use in the most severe environment. So, tasks with averages up to 350 A can be trouble-free welded air-cooled. The proven ABIMIG® parts show also in this power range secure both gas coverage and durability.

The torches of the ABIMIG® A LW series utilize the Low Weight Bikox®, which gives perfect balance to the torches for effortless welding in all positions. All torches are carefully designed to provide comfortable and precise operation.

- Low Weight Bikox® - up to 50 % weight saving
- Screw-on gas nozzle with thermo-protective insulation - extending torch life
- Function integrated tip holder (gas diffuser, gas nozzle holder and contact tip holder in one piece) - reduces stock requirements
- Laminar gas feed - excellent gas coverage for best welding results
- Changeable gas nozzle seat - "extends" operating cycle of the torch neck and reduces maintenance costs
- Electrically insulated liner and connection nut (on the central adaptor) - enables exact setting of the arc parameters and therefore repeatability of welding results

ABIMIG® A 155 LW

Technical data (EN 60 974-7):

Rating: 170 A CO₂
170 A Mixed Gases
M21 (DIN EN 439)

Duty cycle: 60 %

Wire size: 0.6 - 1.0 mm

ABIMIG® A 255 LW

Technical data (EN 60 974-7):

Rating: 230 A CO₂
220 A Mixed Gases
M21 (DIN EN 439)

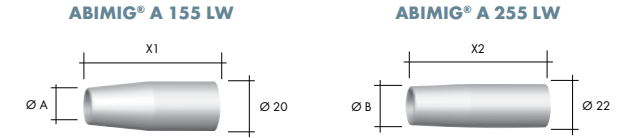
Duty cycle: 60 %

Wire size: 0.8 - 1.2 mm

Torch complete Type	Handle	Part-No.			Swan neck Part-No.
		3 m	4 m	5 m	
ABIMIG® A 155 LW	Trigger short	767.0030.1	767.0031.1	767.0032.1	45° 767.0024.1
ABIMIG® A 155 LW	Trigger long	767.0062.1	767.0063.1	767.0064.1	45° 767.0024.1
ABIMIG® A 255 LW	Trigger short	767.0033.1	767.0034.1	767.0035.1	45° 767.0027.1
ABIMIG® A 255 LW	Trigger long	767.0065.1	767.0066.1	767.0067.1	45° 767.0027.1

ABIMIG® A 155 LW, ABIMIG® A 255 LW

Wear parts



Gas nozzle (5 pcs.)	ABIMIG® A 155 LW			ABIMIG® A 255 LW		
	Ø A	X1		Ø B	X2	
Cylindrical	Ø 17	52 mm	145.D003	Ø 18	69 mm	145.D014
Conical	Ø 12	52 mm	145.D001	Ø 16	70 mm	145.D011
Conical	Ø 12	54 mm	145.D004	Ø 14	67 mm	145.D012



Contact tip (10 pcs.)	ABIMIG® A 155 LW		ABIMIG® A 255 LW	
	Ø	Length	Ø	Length
E-Cu	Ø 0.8	140.0059	Ø 0.8	140.0051
	Ø 1.0	140.0253	Ø 1.0	140.0242
	Ø 1.2	-	Ø 1.2	140.0379
E-Cu for Al	Ø 0.8	141.0002	Ø 0.8	141.0001
	Ø 1.0	141.0007	Ø 1.0	141.0006
	Ø 1.2	-	Ø 1.2	141.0010
CuCrZr	Ø 0.8	140.0062	Ø 0.8	140.0054
	Ø 1.0	140.0256	Ø 1.0	140.0245
	Ø 1.2	-	Ø 1.2	140.0382



Contact tip holder (5 pcs.)	ABIMIG® A 155 LW	ABIMIG® A 255 LW
	006.D719.5	004.D624.5

Spacer (5 pcs.)	ABIMIG® A 155 LW	ABIMIG® A 255 LW
	767.D607.5	767.D637.5

Liner	for 3 m	for 4 m	for 5 m	
				Ø
Liner	Ø 0.8	124.0011	124.0012	124.0015
	Ø 1.0	124.0026	124.0031	124.0035
	Ø 1.2	124.0026	124.0031	124.0035
PTFE liner	Ø 0.8	126.0005	126.0008	126.0011
	Ø 1.0	126.0021	126.0026	126.0028
	Ø 1.2	126.0021	126.0026	126.0028
Carbon PTFE liner	Ø 0.8	127.0002	127.0003	127.0004
	Ø 1.0	127.0005	127.0007	127.0008
	Ø 1.2	127.0005	127.0007	127.0008

MIG/MAG Welding Torches "ABIMIG® A LW"

Air cooled • rating 255 A up to 400 A



ABIMIG® A 305 LW

Technical data (EN 60 974-7):

Rating: 280 A CO₂
260 A Mixed Gases
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 0.8–1.2 mm

ABIMIG® A 355 LW

Technical data (EN 60 974-7):

Rating: 330 A CO₂
310 A Mixed Gases
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 1.0–1.6 mm

ABIMIG® A 405 LW

Technical data (EN 60 974-7):

Rating: 400 A CO₂
350 A Mixed Gases
M21 (DIN EN 439)

Duty cycle: 60%

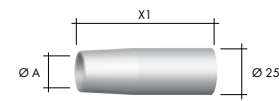
Wire size: 1.2–1.6 mm
(up to 2.4 mm on demand)

Torch complete		Part-No.			Swan neck	
Type	Handle	3 m	4 m	5 m	Type	Part-No.
ABIMIG® A 305 LW	Trigger short	767.0036.1	767.0037.1	767.0038.1	45°	767.0045.1
ABIMIG® A 305 LW	Trigger long	767.0068.1	767.0069.1	767.0070.1	45°	767.0045.1
ABIMIG® A 355 LW	Trigger short	767.0039.1	767.0040.1	767.0041.1	50°	767.0050.1
ABIMIG® A 355 LW	Trigger long	767.0071.1	767.0072.1	767.0073.1	50°	767.0050.1
ABIMIG® A 405 LW	Trigger short	767.0042.1	767.0043.1	767.0044.1	50°	767.0055.1
ABIMIG® A 405 LW	Trigger long	767.0074.1	767.0075.1	767.0076.1	50°	767.0055.1

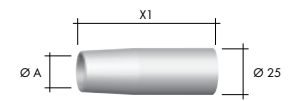
ABIMIG® A 305 LW, ABIMIG® A 355 LW, ABIMIG® A 405 LW

Wear parts

ABIMIG® A 305 / 355 LW

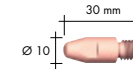


ABIMIG® A 405 LW

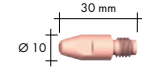


Gas nozzle (5 pcs.)

	Ø A	X1		Ø A	X1	
Cylindrical	Ø 21	71 mm	145.D024	Ø 21	71 mm	145.D024
Conical	Ø 18	72 mm	145.D021	Ø 18	72 mm	145.D021
Conical	Ø 16	69 mm	145.D022	Ø 16	69 mm	145.D022



M8



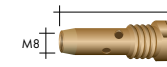
M8

Contact tip (10 pcs.)

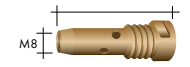
		M8	M8
E-Cu	Ø 0.8	140.0114	140.0114
	Ø 1.0	140.0313	140.0313
	Ø 1.2	140.0442	140.0442
	Ø 1.6	140.0587	140.0587
E-Cu for Al	Ø 0.8	141.0003	141.0003
	Ø 1.0	141.0008	141.0008
	Ø 1.2	141.0015	141.0015
	Ø 1.6	141.0022	141.0022
CuCrZr	Ø 0.8	140.0117	140.0117
	Ø 1.0	140.0316	140.0316
	Ø 1.2	140.0445	140.0445
	Ø 1.6	140.0590	140.0590

52 mm

52 mm



M8



M8

Contact tip holder (5 pcs.)

M8	014.D745.5	014.D745.5
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Spacer (5 pcs.)

	767.D668.5	015.D080.5
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Liner		305 / 355	405	305 / 355	405	305 / 355	405
		for 3 m	for 3 m	for 4 m	for 4 m	for 5 m	for 5 m
Liner	0.8	124.0011	-	124.0012	-	124.0015	-
	1.0	124.0026	124.D113	124.0031	124.D114	124.0035	124.D115
	1.2	124.0026	124.D116	124.0031	124.D117	124.0035	124.D118
	1.6	124.0041	124.D119	124.0042	124.D120	124.0044	124.D121
PTFE liner	0.8	126.0005	-	126.0008	-	126.0011	-
	1.0	126.0021	-	126.0026	-	126.0028	-
	1.2	126.0021	-	126.0026	-	126.0028	-
	1.6	126.0039	-	126.0042	-	126.0045	-
Carbon PTFE liner	0.8	127.0002	-	127.0003	-	127.0004	-
	1.0	127.0005	-	127.0007	-	127.0008	-
	1.2	127.0005	-	127.0007	-	127.0008	-
	1.6	127.0010	-	127.0012	-	127.0013	-

Note: Combined wire guides for ABIMIG® A / A T 405 LW on page 33.