

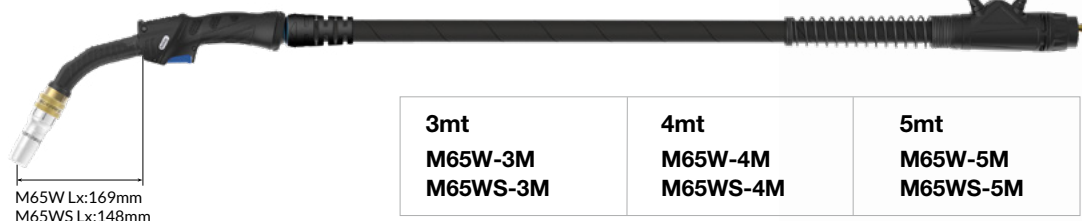
M65W/M65WS Liquid-Cooled Mig Welding Torch

M65W/ M65WS Ratings:	580A CO ₂ , 560A mixed gas M21, 400A pulse @100% Max. Load 25KW with 1600W liquid cooler, 0.9mm-2.0mm wires
	550A CO ₂ , 520A mixed gas M21, 360A pulse @100% Max. Load 23KW with 1200W liquid cooler, 0.9mm-2.0mm wires

Ideal for high deposition and pulse applications with high reflected heat.
Fitted with a long neck as standard with an optional shorter version.

ARC M HIGH PERFORMANCE MIG TORCH PACKAGES

M65W/WS Torches are supplied with a Euro termination as standard and are supplied 'ready to weld' with all wear parts fitted.



Wear Parts

Nozzles

Part Number	Description	Bore	Wall	Material
A • AMN55WCN	Conical / Insulator Assy	15mm	3.0mm	Copper
AMN55WTN	Tapered / Insulator Assy	13mm	3.0mm	Copper
AMN55WCYN	Cylindrical/Insulator Assy	17mm	3.0mm	Copper
A1 • AMN55WCN-C	Conical Nozzle c/w Insulator & Retaining Ring			
AMN55WTN-C	Tapered Nozzle c/w Insulator & Retaining Ring			
AMN55WCYN-C	Cylindrical Nozzle c/w Insulator & Retaining Ring			

B Nozzle Retaining Rings

Part Number	Description	Size	Material
• AMN6WCNR	Nozzle Retaining Ring-Pull Off	30.5mm	Brass

C Contact Tips

Part Number	Description	Size (mm)	Wire Size (mm-inch)	Material
Standard Series				
AM6WCT09	Contact Tip	M10*35.5	0.9 - 0.035	CuCrZr
AM6WCT10	Contact Tip	M10*35.5	1.0 - 0.040	CuCrZr
• AM6WCT12	Contact Tip	M10*35.5	1.2 - 0.045	CuCrZr
AM6WCT14	Contact Tip	M10*35.5	1.4 - 0.055	CuCrZr
AM6WCT16	Contact Tip	M10*35.5	1.6 - 0.063	CuCrZr
AM6WCT20	Contact Tip	M10*35.5	2.0 - 0.080	CuCrZr
A Series				
AM6WCT10A	Contact Tip	M10*35.5	1.0 - 0.040	CuCrZr
AM6WCT12A	Contact Tip	M10*35.5	1.2 - 0.045	CuCrZr
AM6WCT16A	Contact Tip	M10*35.5	1.6 - 0.063	CuCrZr
AM6WCT20A	Contact Tip	M10*35.5	2.0 - 0.080	CuCrZr
AMC6WCT10A	Contact Tip	M10*35.5	1.0 - 0.040	Copper
AMC6WCT12A	Contact Tip	M10*35.5	1.2 - 0.045	Copper

• Denotes torch package standard wear part set-up

D Tip Adaptors

Part Number	Description	Material
• AM6OSWTAC-20	High Performance 2.0mm Recess	Copper
AM6OSWTAC-45	High Performance 4.5mm Recess	Copper
AM6OSWTAB-20	Tip Adaptor 2.0mm Recess	Brass
AM6OSWTAB-45	Tip Adaptor 4.5mm Recess	Brass

E Tip Adaptor Insulators

Part Number	Description
• AM55WTAI	Tip Adaptor Insulator

F Liners

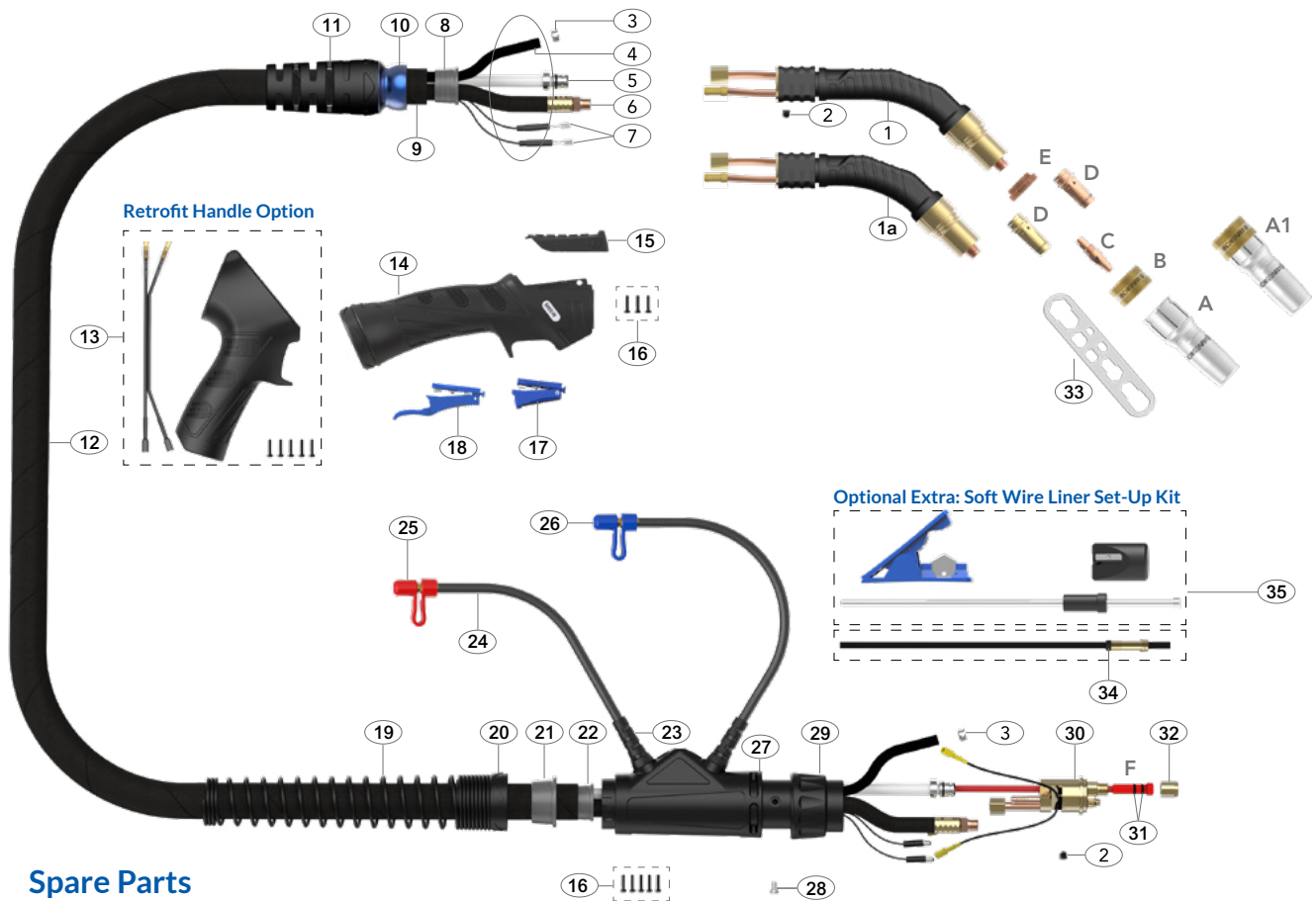
Part Number	Description	Wire Size
• AM6SL-1012-30	Steel Liner x 3mt	1.0-1.2mm
• AM6SL-1012-40	Steel Liner x 4mt	1.0-1.2mm
• AM6SL-1012-50	Steel Liner x 5mt	1.0-1.2mm
AM6SL-16-30	Steel Liner x 3mt	1.6mm
AM6SL-16-40	Steel Liner x 4mt	1.6mm
AM6SL-16-50	Steel Liner x 5mt	1.6mm
AM6SL-20-30	Steel Liner x 3mt	2.0mm
AM6SL-20-40	Steel Liner x 4mt	2.0mm
AM6SL-20-50	Steel Liner x 5mt	2.0mm
AM6OSWL-1012-30	Soft Wire Liner x 3mt	1.0-1.2mm
AM6OSWL-1012-40	Soft Wire Liner x 4mt	1.0-1.2mm
AM6OSWL-1620-30	Soft Wire Liner x 3mt	1.6-2.0mm
AM6OSWL-1620-40	Soft Wire Liner x 4mt	1.6-2.0mm

For alternate liner options please refer to page 35-36

HIGH PERFORMANCE SERIES



MAKE WORK
L I F E E A S I E R



Spare Parts

Part Number	Description
1 AM6502	M65W Swan Neck Assembly 45°
1a AM6502S	M65WS Swan Neck Assembly 45°
2 AM6X6	Outer Liner Retaining Screw
3 AM15400023	Water Hose Clamp 10mm
8 AMS8010	Canvas Cover Retainer
10 AM3208-1	Ball Joint
11 AMS3208-S	Cable Support With Nut
14 AM2515	Handle and Lock Nut Assembly
15 AM2515-C	Handle Control Cover
16 AMSP1-1	Screw Pack
17 AM2516	Microswitch Standard Trigger
18 AM2516L	Microswitch Extended Trigger
19 AM8027	Cable Support Spring
20 AM8028	Housing Lock Nut
21 AM8009	Canvas Cover Clamp
22 AM8010	Canvas Cover Retainer
23 AM1820	Hose Support
24 AM5017	Water Outlet Hose Assembly
25 AM80320	Red Cap Stopper
26 AM80310	Blue Cap Stopper
27 AM5022	Housing Assembly
28 AM1526	Gun Plug Screw (M4 x 0.7)
29 AM1519	Gun Plug Nut
30 AM5098	Water-Cooled Plug Body Assembly
31 AMLOR	Liner 'O' Ring
32 AM1826	Liner Retaining Nut
33 AMWS	Wear Parts Spanner

Part Number	Description
Optional Extra	
34 AMOSWLK	Soft Wire Liner Gasket
35 AMOSW-LINER-T	Soft Wire / Combi-Liner Set-up Kit

Retrofit Handle Option

Part Number	Description
13 AMMP2515	Pistol Handle Assembly

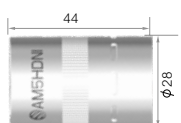
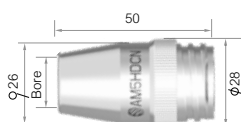
Cable Parts

Description	Part Number		
	3mt	4mt	5mt
4 Water Inlet Hose Assembly	AM5012-30	AM5012-40	AM5012-50
5 Outer Liner Assembly	AM6008-30	AM6008-40	AM6008-50
6 Power Cable Assembly	AM6015-30	AM6015-40	AM6015-50
7 Switch Lead Assembly	AM5010-30	AM5010-40	AM5010-50
9 Canvas Cover Assembly	AM5019-30	AM5019-40	AM5019-50
12 Complete Cable Assembly	AM6006-30	AM6006-40	AM6006-50

Welding with Soft Wires

For welding with Aluminum wires use a Soft Wire / Combi-Liner (page 36). Optimum installation is achieved when using the Soft Wire / Combi-Liner set-up kit.

Air-Cooled Nozzles - 2 Piece



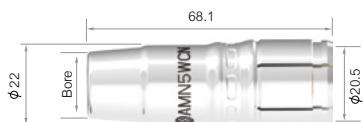
Part No.	Description	Bore	Wall	Material	M5	M5W	M55W	M65W/WS	M65WLP
AM5HDTN	Tapered Nozzle	13mm	3.5mm	Copper	●	●	●	●	●
AM5HDCN	Conical Nozzle	15mm	3.5mm	Copper	●	●	●	●	●
AM5HDCYN	Cylindrical Nozzle	21mm	3.5mm	Copper	●	●	●	●	●

AM5HDNI	Nozzle Insulator				●	●	●	●	●
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Air-Cooled Nozzles - Single Piece

AM5TN	Tapered Nozzle / Insulator Assy	13mm	2.5mm	Copper	●	●	●	●	●
AM5CN	Conical Nozzle / Insulator Assy	15mm	2.5mm	Copper	●	●	●	●	●
AM5CYN	Cylindrical Nozzle / Insulator Assy	21mm	2.5mm	Copper	●	●	●	●	●



Liquid-Cooled Nozzles - Separate

AMN5WCN	Conical / Insulator Assy	13.5mm	3.0mm	Copper	●	●	●	●	●
AMN5WTN	Tapered / Insulator Assy	11.5mm	3.0mm	Copper	●	●	●	●	●
AMN5WCYN	Cylindrical / Insulator Assy	16.0mm	3.0mm	Copper	●	●	●	●	●



AMN55WCN	Conical / Insulator Assy	15mm	3.0mm	Copper	●	●	●	●	●
AMN55WTN	Tapered / Insulator Assy	13mm	3.0mm	Copper	●	●	●	●	●
AMN55WCYN	Cylindrical / Insulator Assy	17mm	3.0mm	Copper	●	●	●	●	●

● Standard wear part range ● Torch package standard wear part set-up

Nozzle Retaining Rings

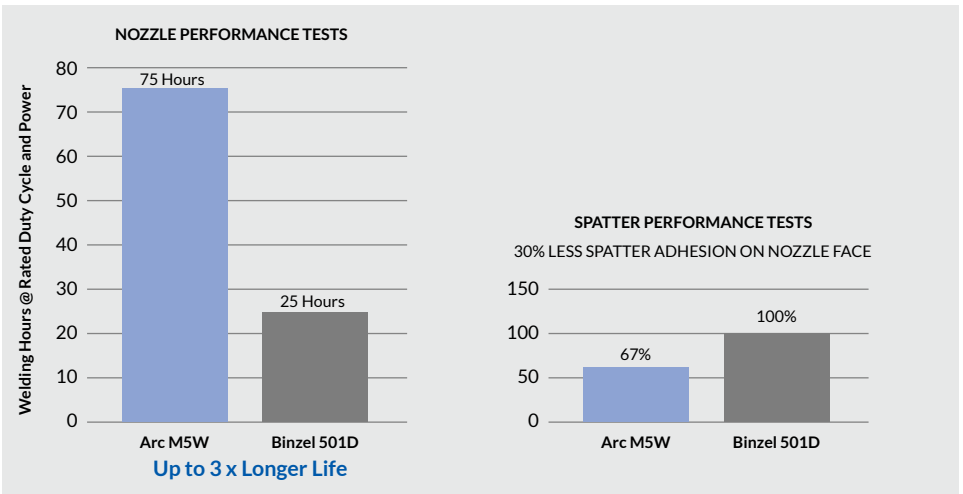


Part No.	Description	Size	Material	M5	M5W	M55W	M65W/WS	M65WLP
AMN5WCNR	Nozzle Retaining Ring	29.5mm	Brass					
AMN6WCNR	Nozzle Retaining Ring	30.5mm	Brass					

Liquid-Cooled Nozzles -Complete

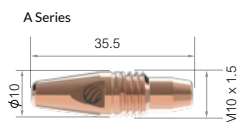
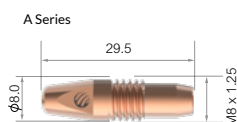
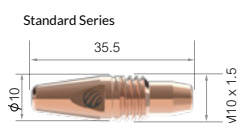


Part No.	Description	M5	M5W	M55W	M65W/WS	M65WLP
AMN5WCN-C	Conical Nozzle c/w Insulator and Retaining Ring					
AMN5WTN-C	Tapered Nozzle c/w Insulator and Retaining Ring					
AMN5WCYN-C	Cylindrical Nozzle c/w Insulator and Retaining Ring					
AMN55WCN-C	Conical Nozzle c/w Insulator and Retaining Ring					
AMN55WTN-C	Tapered Nozzle c/w Insulator and Retaining Ring					
AMN55WCYN-C	Cylindrical Nozzle c/w Insulator and Retaining Ring					



Standard wear part range Torch package standard wear part set-up

Contact Tips

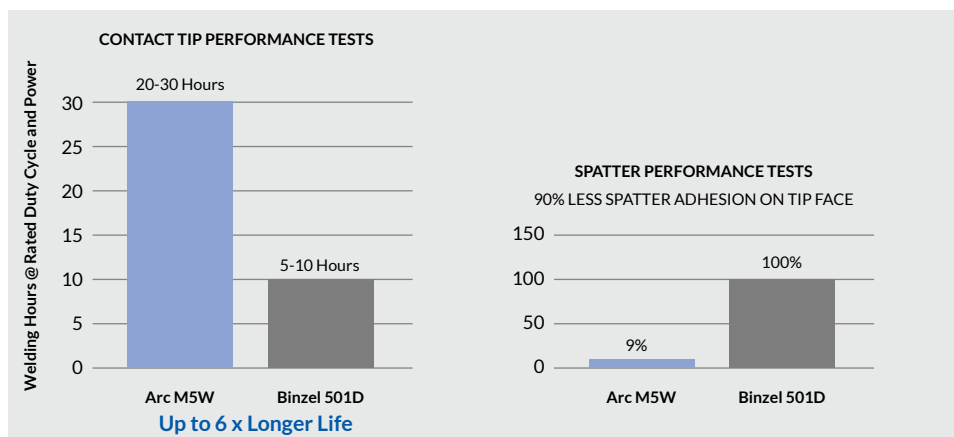


Part No.	Description	Size mm	Wire Size mm-inch	Material	Wire Type	M5	M5W	M55W	M65W/WS	M65WLP
Standard Series - Recommended for Fe, Fe-MC/FC Set-up										
AM5CT09	Contact Tip	M8*29.5	0.9-0.035	CuCrZr	Fe, Fe-FC/MC SS,SS-FC/MC upto 1.2mm	●	●	●	●	●
AM5CT10	Contact Tip	M8*29.5	1.0-0.040	CuCrZr		●	●	●	●	●
AM5CT12	Contact Tip	M8*29.5	1.2-0.045	CuCrZr		●	●	●	●	●
AM5CT14	Contact Tip	M8*29.5	1.4-0.055	CuCrZr		●	●	●	●	●
AM5CT16	Contact Tip	M8*29.5	1.6-0.063	CuCrZr		●	●	●	●	●

Standard Series - Recommended for Fe, Fe-MC/FC Set-up										
AM6WCT09	Contact Tip	M10*35.5	0.9-0.035	CuCrZr	Fe, Fe-FC/MC SS,SS-FC/MC upto 1.2mm	●	●	●	●	●
AM6WCT10	Contact Tip	M10*35.5	1.0-0.040	CuCrZr		●	●	●	●	●
AM6WCT12	Contact Tip	M10*35.5	1.2-0.045	CuCrZr		●	●	●	●	●
AM6WCT14	Contact Tip	M10*35.5	1.4-0.055	CuCrZr		●	●	●	●	●
AM6WCT16	Contact Tip	M10*35.5	1.6-0.063	CuCrZr		●	●	●	●	●
AM6WCT20	Contact Tip	M10*35.5	2.0-0.080	CuCrZr		●	●	●	●	●

A Series - Recommended for Aluminium and SS Set-up										
AM5CT10A	Contact Tip	M8*29.5	1.0-0.040	CuCrZr	Aluminium SS, SS-FC/MC upto 1.6mm	●	●	●	●	●
AM5CT12A	Contact Tip	M8*29.5	1.2-0.045	CuCrZr		●	●	●	●	●
AM5CT16A	Contact Tip	M8*29.5	1.6-0.063	CuCrZr		●	●	●	●	●
AM2CT10A	Contact Tip	M8*29.5	1.0-0.040	Copper		●	●	●	●	●
AM2CT12A	Contact Tip	M8*29.5	1.2-0.045	Copper		●	●	●	●	●

A Series - Recommended for Aluminium and SS Set-up										
AM6WCT10A	Contact Tip	M10*35.5	1.0-0.040	CuCrZr	Aluminium SS, SS-FC/MC 1.6mm	●	●	●	●	●
AM6WCT12A	Contact Tip	M10*35.5	1.2-0.045	CuCrZr		●	●	●	●	●
AM6WCT16A	Contact Tip	M10*35.5	1.6-0.063	CuCrZr		●	●	●	●	●
AM6WCT20A	Contact Tip	M10*35.5	2.0-0.080	CuCrZr		●	●	●	●	●
AMC6WCT10A	Contact Tip	M10*35.5	1.0-0.040	Copper		●	●	●	●	●
AMC6WCT12A	Contact Tip	M10*35.5	1.2-0.045	Copper		●	●	●	●	●



● Standard wear part range ● Torch package standard wear part set-up

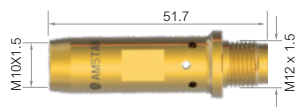
WEAR PARTS

High Performance Series

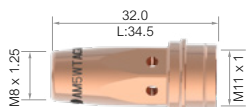


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Tip Adaptors



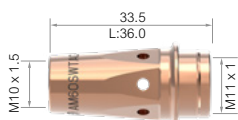
Part No.	Description	Length	Material	Transfer	Amps / Pulse	M5	M5W	M55W	M65W/M65WS	M65WLP
Recommended for high amperages, high duty and pulse welding. Tips run cooler										
AM5TAC	Tip Adaptor High Performance	51.7mm	CuCrZr		High Current Pulse	●	●	●	●	●
AM5TAB	Tip Adaptor	51.7mm	Brass		Low Current Pulse	●	●	●	●	●



Recommended for high amperages, high duty and pulse welding. Tips run cooler										
AM5WTAC-20	High Performance 2.0mm Recess	34.5mm	Copper	Short Circuit	<200A Low Current Pulse	●	●	●	●	●
AM5WTAC-45	High Performance 4.5mm Recess	32mm	Copper	Spray	>200A High Current Pulse	●	●	●	●	●



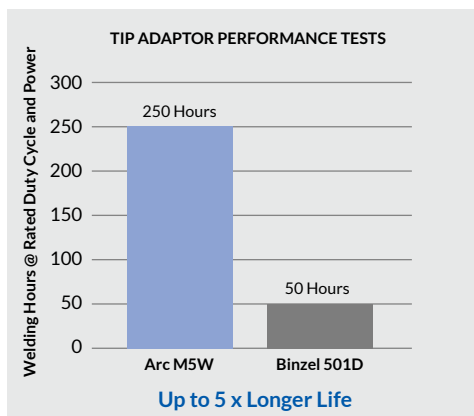
AM5WTAB-20	Tip Adaptor 2.0mm Recess	34.5mm	Brass	Short Circuit	<200A Low Current Pulse	●	●	●	●	●
AM5WTAB-45	Tip Adaptor 4.5mm Recess	32mm	Brass	Spray	>200A High Current Pulse	●	●	●	●	●



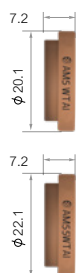
Recommended for high amperages, high duty and pulse welding. Tips run cooler										
AM6OSWTAC-20	High Performance 2.0mm Recess	36.0mm	Copper	Short Circuit	<200A Low Current Pulse	●	●	●	●	●
AM6OSWTAC-45	High Performance 4.5mm Recess	33.5mm	Copper	Spray	>200A High Current Pulse	●	●	●	●	●



AM6OSWTAB-20	Tip Adaptor 2.0mm Recess	36.0mm	Brass	Short Circuit	<200A Low Current Pulse	●	●	●	●	●
AM6OSWTAB-45	Tip Adaptor 4.5mm Recess	33.5mm	Brass	Spray	>200A High Current Pulse	●	●	●	●	●



Tip Adaptor Insulators



Part No.	Description	M5	M5W	M55W	M65W/M65WS	M65WLP
AM5WTAI	Tip Adaptor Insulator	●	●	●	●	●
AM55WTAI	Tip Adaptor Insulator	●	●	●	●	●

● Standard wear part range ● Torch package standard wear part set-up

Liners

Filler Metal Fe, Fe-MC/FC

Steel Liner Recommended for: Light and medium duty applications

Part No.	Description	Contact Tip	Wire Size mm	M5	M5W	M55W	M65W/WS	M65WLP
AM6SL-1012-30	Steel Liner x 3mt	Standard Series	1.0-1.2	●	●	●	●	●
AM6SL-1012-40	Steel Liner x 4mt	Standard Series	1.0-1.2	●	●	●	●	●
AM6SL-1012-50	Steel Liner x 5mt	Standard Series	1.0-1.2	●	●	●	●	●



AM6SL-16-30	Steel Liner x 3mt	Standard Series	1.6	●	●	●	●	●
AM6SL-16-40	Steel Liner x 4mt	Standard Series	1.6	●	●	●	●	●
AM6SL-16-50	Steel Liner x 5mt	Standard Series	1.6	●	●	●	●	●



AM6SL-20-30	Steel Liner x 3mt	Standard Series	2.0	●	●	●	●	●
AM6SL-20-40	Steel Liner x 4mt	Standard Series	2.0	●	●	●	●	●
AM6SL-20-50	Steel Liner x 5mt	Standard Series	2.0	●	●	●	●	●



Filler Metal ss, ss-MC/FC

Stainless Steel Liner Recommended for: Heavy Duty Fe. High amperages and heavy deposition welding

Part No.	Description	Contact Tip	Wire Size mm	M5	M5W	M55W	M65W/WS	M65WLP
AM6SSTL-1012-30	Stainless Steel Liner x 3mt	Standard Series	1.0-1.2	●	●	●	●	●
AM6SSTL-1012-40	Stainless Steel Liner x 4mt	Standard Series	1.0-1.2	●	●	●	●	●
AM6SSTL-1012-50	Stainless Steel Liner x 5mt	Standard Series	1.0-1.2	●	●	●	●	●



AM6SSTL-16-30	Stainless Steel Liner x 3mt	A Series	1.6	●	●	●	●	●
AM6SSTL-16-40	Stainless Steel Liner x 4mt	A Series	1.6	●	●	●	●	●
AM6SSTL-16-50	Stainless Steel Liner x 5mt	A Series	1.6	●	●	●	●	●



● Standard wear part range ● Torch package standard wear part set-up

WEAR PARTS

High Performance Series



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Liners

Filler Metal ^{AlMg}

Al - Combi Liner Recommended for: Liquid-cooled torches and frequent /repetitive arc starts

Part No.	Description	Contact Tip	Wire Size mm	M5	M5W	M55W	M65W/M65WS	M65WLP
AM6CL-1012-30	Combi-Liner x 3mt	A Series	1.0-1.2	●	●	●	●	●
AM6CL-1012-40	Combi-Liner x 4mt	A Series	1.0-1.2	●	●	●	●	●
AM6CL-1012-50	Combi-Liner x 5mt	A Series	1.0-1.2	●	●	●	●	●



AM6CL-1620-30	Combi-Liner x 3mt	A Series	1.6	●	●	●	●	●
AM6CL-1620-40	Combi-Liner x 4mt	A Series	1.6	●	●	●	●	●
AM6CL-1620-50	Combi-Liner x 5mt	A Series	1.6	●	●	●	●	●



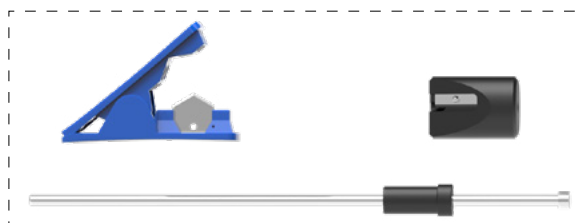
Filler Metal ^{AlMg}

Al - Soft Wire Liner Recommended for: Liquid-cooled torches, AlSi, Pure Al and copper wires

Part No.	Description	Contact Tip	Wire Size mm	M5	M5W	M55W	M65W/M65WS	M65WLP
AM6OSWL-1012-30	Soft Wire Liner x 3mt	A Series	1.0-1.2	●	●	●	●	●
AM6OSWL-1012-40	Soft Wire Liner x 4mt	A Series	1.0-1.2	●	●	●	●	●
AM6OSWL-1620-30	Soft Wire Liner x 3mt	A Series	1.6-2.0	●	●	●	●	●
AM6OSWL-1620-40	Soft Wire Liner x 4mt	A Series	1.6-2.0	●	●	●	●	●



AMOSW_LINER-T	Soft Wire / Combi-Liner Set-up Kit			●	●	●	●	●
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● Standard wear part range ● Torch package standard wear part set-up