



**AUTOGEN-RITTER GmbH**

Arc-welding torches MIG-MAG WIG/TIG Plasma Spare parts

Quality Welding Solutions since 1920.

EN

**e.ARc®**

**Hot/cold wire TIG manual welding torches**





**Inhalt**

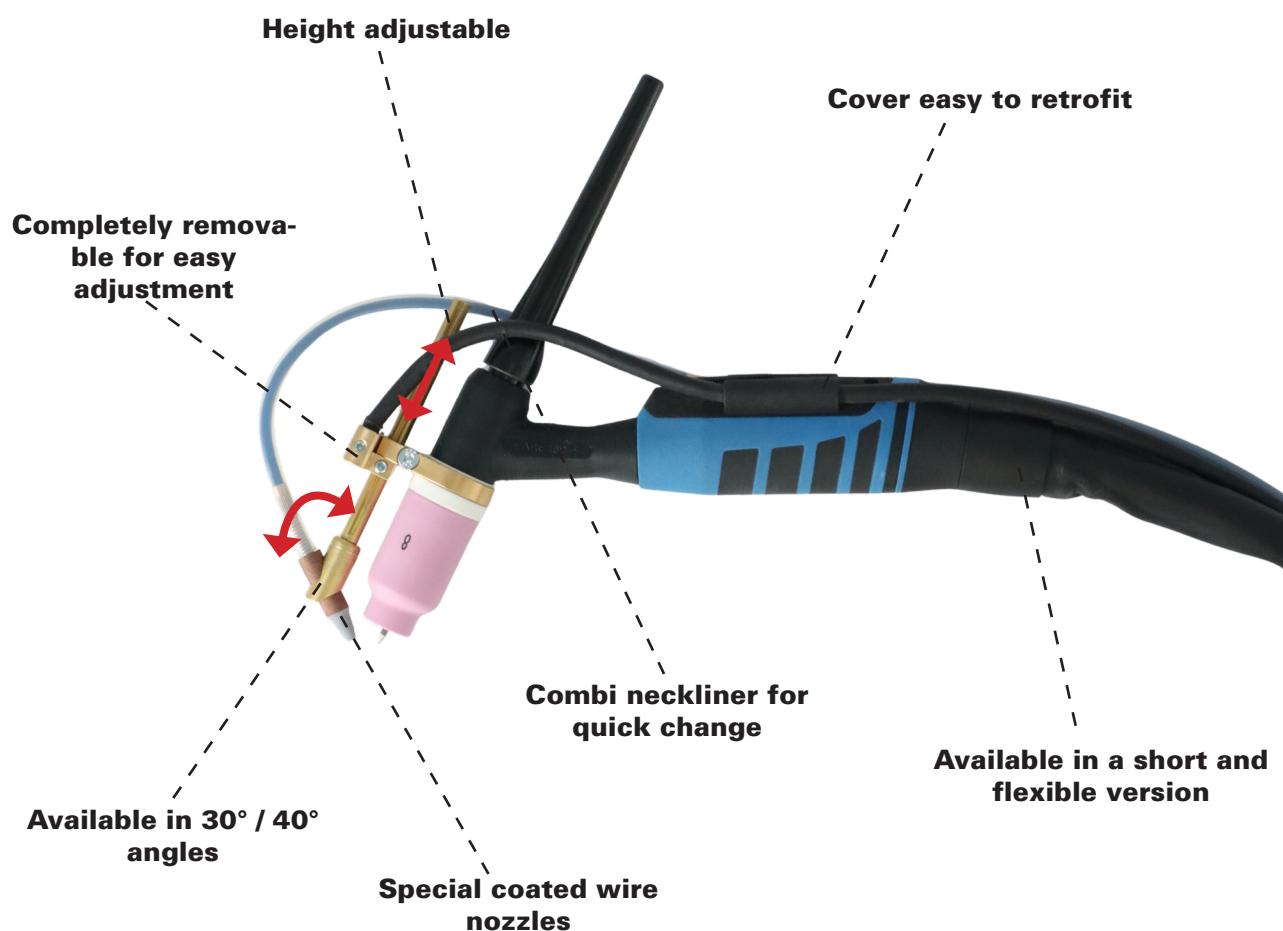
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## The e.ARC® hot/cold wire system

### Easy handling – designed with practical use in mind

At e.ARC®, ease of use and practical operation take centre stage. Every detail is designed to make the welding process as comfortable and reliable as possible:

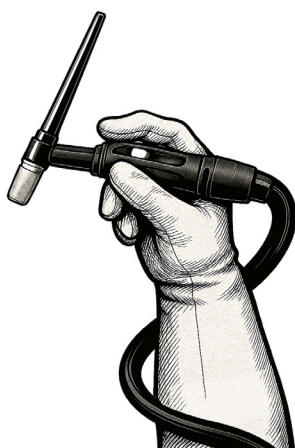
- **Hot- and cold-wire lines** available either integrated in the hose package or as a convenient retrofit kit
- **Quick adjustment** of the wire feed for smooth, uninterrupted operation
- **Various angle options** for the wire feed to ensure maximum flexibility
- **Specially coated wire nozzles** for enhanced insulation protection and significantly reduced spatter adhesion



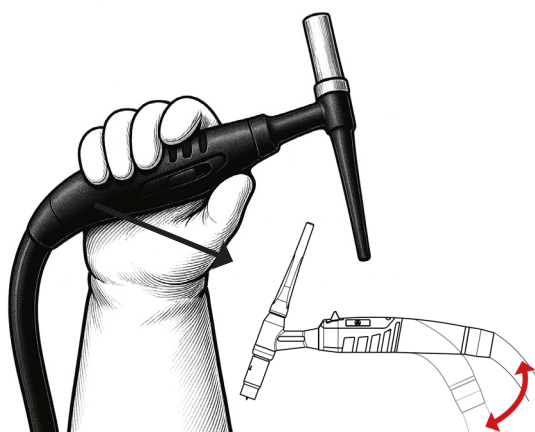
## The e.ARC® handle variants - choosing the right handle

Every welder has different requirements. With the e.ARC® handle variants, you can combine precision and comfort to suit your needs – individually, ergonomically and reliably.

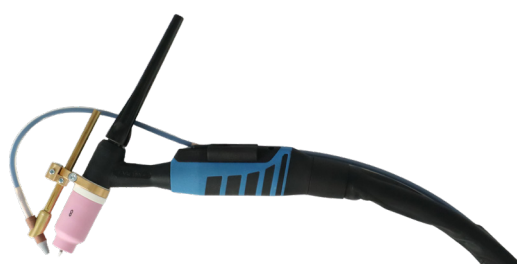
### **e.ARC® handle short**



### **e.ARC® handle flex**



|             |                                                                                                                                                                                               |                                                                                                                                                                                                  |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Features:   | compact design, ergonomic, easy to guide                                                                                                                                                      | variably adjustable, adapts to any welding position                                                                                                                                              |
| Advantages: | <ul style="list-style-type: none"> <li>• maximum freedom of movement in confined areas</li> <li>• optimal precision for detailed work</li> <li>• suitable for small and large hand</li> </ul> | <ul style="list-style-type: none"> <li>• reduces fatigue during long periods of use</li> <li>• maximum comfort even in awkward areas</li> <li>• greater mobility in varying positions</li> </ul> |
| Ideal for:  | delicate work, fine weld seams, hard-to-reach areas                                                                                                                                           | long weld seams, complex workpieces, changing working positions                                                                                                                                  |

**Technical data e.ARc® hot/cold wire welding torch**e.ARc 18W-F hot wiree.ARc 18W-F cold wire

Technical data according to EN 60 974-7

Rating\*<sup>1</sup>:                      400 A DC at 60 % Duty cycle  
                                     280 A AC at 60 % Duty cycle

Tungsten electrodes-Ø:    1.6 - 4.0 mm

Hot wire current:            max. 100 A

Ø-filler wire:                0.8 - 1.6mm

Length of cable hose        4m  
package:

Rating\*<sup>1</sup>:                      400 A DC at 60 % Duty cycle  
                                     280 A AC at 60 % Duty cycle

Tungsten electrodes-Ø:    1.6 - 4.0 mm

Hot wire current:            -

Ø-filler wire:                0.8 - 1.6mm

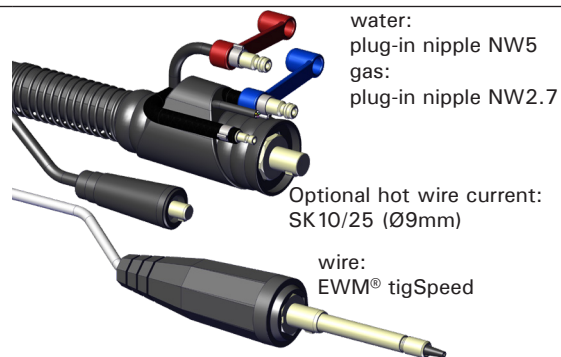
Length of cable hose        4m  
package:

\*<sup>1</sup>Cooling capacity of at least 800W with a cable hose package length of 4m and a welding torch inlet pressure of the cooling liquid of 3–6bar.

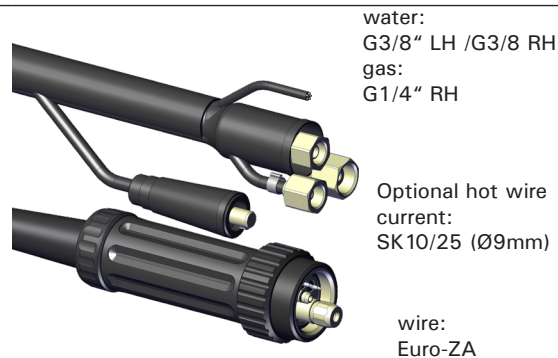


## Overview torch connections for e.ARC<sup>®</sup> hot/cold wire welding torches

### **TIG compact connection EWM<sup>®</sup> SK35/50 (Ø13mm)**



### **Single connection TIP TIG<sup>®</sup>**



*Different connections on request!*

## Configurator hot/cold wire e.ARC® welding torches with control cable plug

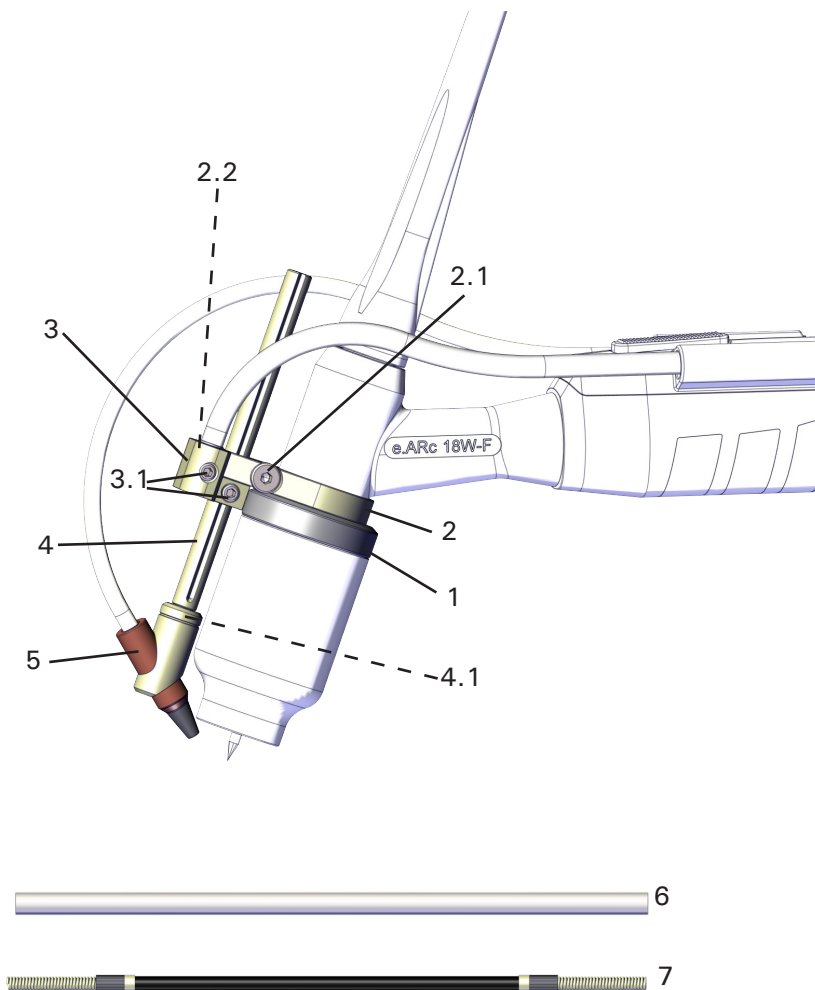
| Torch type             | cable<br>hose<br>pa-<br>ckage<br>length | Hose<br>package<br>type                          | Handle                 | Function module                                                                                                 | Torch connection for power<br>source                                                                                                                | hot / cold wire<br>application    |
|------------------------|-----------------------------------------|--------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <b>181</b>             | <b>T</b>                                | <b>L</b>                                         | <b>1</b>               | <b>0</b>                                                                                                        | <b>E3</b>                                                                                                                                           | <b>C</b>                          |
| 181<br>e.ARC®<br>18W-F | 04<br>4m                                | leather (11m)<br>L<br>with rubber<br>outer cover | 1<br>Blue,<br>flexible | 0<br><br>Single<br>switch      | <u>EW/M®</u><br><br>E3<br><br>TIG compact connection<br>SK35/50;<br>water: plug-in nipple NW5;<br>gas: plug-in nipple NW2.7;<br>12 pol. Burndy plug | C<br>For cold wire<br>application |
|                        |                                         |                                                  | 2<br>Gray,<br>flexible | 1<br><br>Double<br>switch      |                                                                                                                                                     | H<br>For hot wire<br>application  |
|                        |                                         |                                                  | 3<br>Blue,<br>short    | 2<br><br>Double<br>Up/<br>Down | <u>TIP TIG®</u><br><br>T3<br><br>Single connection G3/8" RH;<br>gas: G1/4";<br>water: G3/8" LH;<br>7 pol. Tuchel plug                               |                                   |
|                        |                                         |                                                  | 4<br>Gray,<br>short    | 4<br><br>DD-<br>Wippe         |                                                                                                                                                     |                                   |

*Different connections on request!*

Delivery condition:

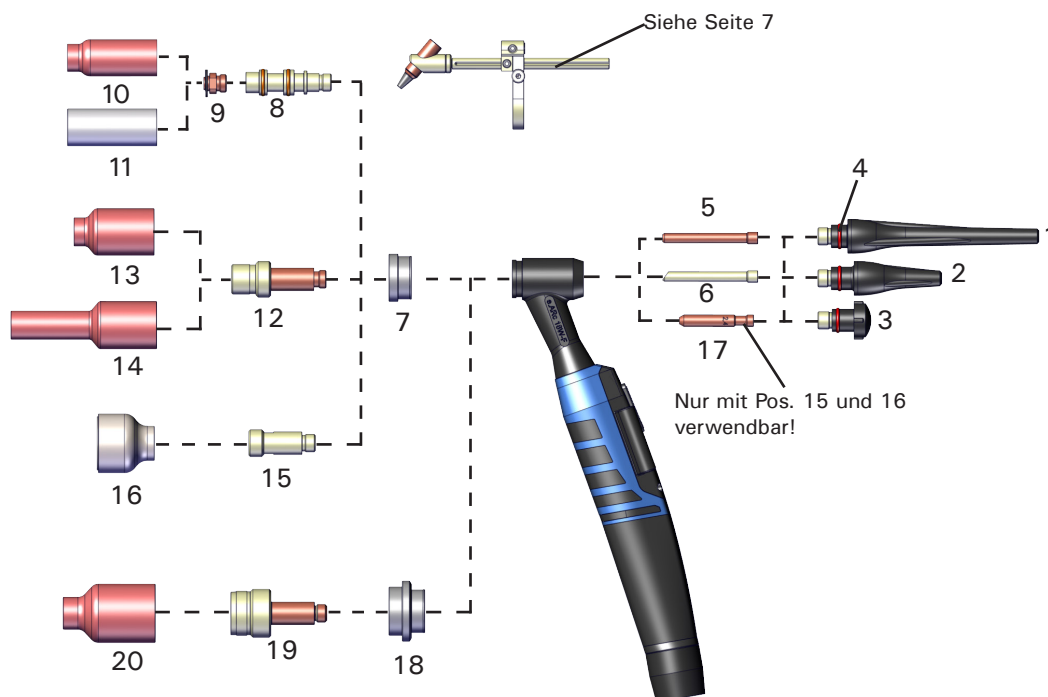
*All TIG torches are equipped with spare parts Ø2.4mm and contact tip Ø1,0mm.*

## Hot/cold wire - support e.ARc® 18W-F



### Spare parts

| Pos. | Part No.  | Description                                              | Pos. | Part No.   | Description                      |
|------|-----------|----------------------------------------------------------|------|------------|----------------------------------|
| 1    | 14022122  | Insulator e.ARc® 18W-F hot/cold wire                     | 4.1  | 0051603    | Set screw M4x4                   |
| 2    | 105030400 | Hot/cold wire support e.ARc® (with Pos. 2.1 and 2.2)     | 5    | 105030430B | Hot/cold wire contact tip Ø0.8mm |
| 2.1  | 0041201   | Screw M4x12                                              |      | 105030431B | Hot/cold wire contact tip Ø1.0mm |
| 2.2  | 0031003   | Screw M3x10                                              |      | 105030432B | Hot/cold wire contact tip Ø1.2mm |
| 3    | 105030410 | Hot/cold wire adapter block e.ARc® (with Pos. 3.1)       |      | 105030433B | Wire conduits tube e.ARc®        |
| 3.1  | 0051606   | Set screw M4x5                                           | 6    | 105030450  | Combi liner e.ARc®               |
| 4    | 10503420  | Hot/cold wire - axis 30° for contact tip (with Pos. 4.1) | 7    | 105030460  | Kombi-Drahtführungsliner e.ARc®  |
|      | 10503421  | Hot/cold wire - axis 40° for contact tip (with Pos. 4.1) |      |            |                                  |

**Verschleißteile Heiß-/Kalt Draht e.Arc® 18W-F**

**Spare parts**

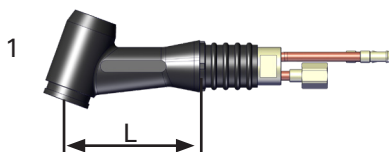
| Pos.                                                                                                                                                                   | Part No. | Description                          | Pos.                                                                                                                                                                 | Part No. | Description                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------|
| 1                                                                                                                                                                      | 1170301  | Back Cap, long (PU = 5)              | 10                                                                                                                                                                   | 1351704  | Ceramic Nozzle Size 4, Ø6,5, l=47mm                         |
| 2                                                                                                                                                                      | 1170403  | Back Cap, medium (PU = 5)            |                                                                                                                                                                      | 1351705  | Ceramic Nozzle Size 5, Ø8,0, l=47mm                         |
| 3                                                                                                                                                                      | 1170401  | Back Cap, short (PU = 5)             |                                                                                                                                                                      | 1351706  | Ceramic Nozzle Size 6, Ø9,5, l=47mm                         |
| 4                                                                                                                                                                      | 0092001  | O-Ring for Back Cap (PU = 20)        |                                                                                                                                                                      | 1351707  | Ceramic Nozzle Size 7, Ø11,0, l=47mm                        |
| 5                                                                                                                                                                      | 11704XX  | Collet, l=50mm (PU = 5)              |                                                                                                                                                                      | 1351708  | Ceramic Nozzle Size 8, Ø12,5, l=47mm                        |
| Collets are available in Ø1.6/2.4/3.2/4.0mm<br>Please insert <b>XX</b> for electrode diameter.<br>Example: Ø1.6mm is: 16; Part-No.: = 11704 <b>16</b>                  |          |                                      | 11                                                                                                                                                                   | 1350720  | Glas-Nozzle, Ø14,0, l=47mm                                  |
| 6                                                                                                                                                                      | 13504XX  | Collet Long Life, l=50mm (PU = 5)    | 12                                                                                                                                                                   | 11823XX  | Collet Body with Gas Lens, l=50mm (PU = 5)                  |
| Collets are available in Ø1.6/2.4/3.2/4.0mm<br>Please insert <b>XX</b> for electrode diameter.<br>Example: Ø1.6mm is: 16; Part-No.: = 13504 <b>16</b>                  |          |                                      | Collet Body with Gas Lens available in Ø1.6/2.4/3.2/4.0mm.<br>Please insert <b>XX</b> for electrode diameter.<br>Example: Ø2.4mm is: 24; Part-No.: = 11826 <b>24</b> |          |                                                             |
| 7                                                                                                                                                                      | 14022122 | Insulator e.Arc® 18W-F hot/cold wire | 13                                                                                                                                                                   | 1210704  | Ceramic Nozzle Size 4 for Gas Lens, Ø6,5, l=42mm (PU = 10)  |
| 8                                                                                                                                                                      | 1350620  | Collet Body, l=45mm                  |                                                                                                                                                                      | 1210705  | Ceramic Nozzle Size 5 for Gas Lens, Ø8,0, l=42mm (PU = 10)  |
| 9                                                                                                                                                                      | 13523XX  | Adapter, l=12mm                      |                                                                                                                                                                      | 1210706  | Ceramic Nozzle Size 6 for Gas Lens, Ø9,5, l=42mm (PU = 10)  |
| Adapter for Collet Body are available in Ø1.6/2.4/3.2/4.0mm.<br>Please insert <b>XX</b> for electrode diameter.<br>Example: Ø1.6mm is: 16; Part-No.: = 13523 <b>16</b> |          |                                      |                                                                                                                                                                      | 1210707  | Ceramic Nozzle Size 7 for Gas Lens, Ø11,0, l=42mm (PU = 10) |
|                                                                                                                                                                        |          |                                      |                                                                                                                                                                      | 1210708  | Ceramic Nozzle Size 8 for Gas Lens Ø12,5, l=42mm (PU = 10)  |
|                                                                                                                                                                        |          |                                      |                                                                                                                                                                      | 1210712  | Ceramic Nozzle Size 12 for Gas Lens Ø19,0, l=42mm (PU = 10) |



## Spare parts

| Pos.                                                                                                                                           | Part No.        | Description                                               | Pos.                                                                                                                                              | Part No.        | Description                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------|
| 14                                                                                                                                             | 54N18L          | Ceramic Nozzle Size 4 for Gas Lens, Ø6,5, l=76mm (PU=10)  | 17                                                                                                                                                | 14014 <b>XX</b> | Collet, l=40mm, e.Arc® (PU=5)                                  |
|                                                                                                                                                | 54N17L          | Ceramic Nozzle Size 5 for Gas Lens, Ø8,0, l=76mm (PU=10)  | Collets are available in Ø1.6/2.4/3.2mm<br>Please insert <b>XX</b> for electrode diameter.<br>Example: Ø1.6mm is: 16; Part-No.: = 14014 <b>16</b> |                 |                                                                |
|                                                                                                                                                | 54N16L          | Ceramic Nozzle Size 6 for Gas Lens, Ø9,5, l=76mm (PU=10)  | 18                                                                                                                                                | 14022161        | Insulator e.Arc® 18W-F hot/cold wire for big gas lens          |
|                                                                                                                                                | 54N15L          | Ceramic Nozzle Size 7 for Gas Lens, Ø11,0, l=76mm (PU=10) | 19                                                                                                                                                | 45V0204         | Big Gas Lens Ø1,0mm, l=50mm                                    |
|                                                                                                                                                | 54N14L          | Ceramic Nozzle Size 8 for Gas Lens, Ø12,5, l=76mm (PU=10) |                                                                                                                                                   | 45V116          | Big Gas Lens Ø1,6mm, l=50mm                                    |
| 15                                                                                                                                             | 14023 <b>XX</b> | Gas lens, l=35mm, e.Arc® (PU=5)                           |                                                                                                                                                   | 45V64           | Big Gas Lens Ø2,4mm, l=50mm                                    |
| Gas lens available in Ø1.6/2.4/3.2mm<br>Please insert <b>XX</b> for electrode diameter.<br>Example: Ø2.4mm is: 24; Part-No.: = 14016 <b>24</b> |                 |                                                           |                                                                                                                                                   | 995795          | Big Gas Lens Ø3,2mm, l=50mm                                    |
| 16                                                                                                                                             | 99400028        | Nozzle cpl. TIG-Lens Cover Ø1,6, l=28mm                   |                                                                                                                                                   | 45V63           | Big Gas Lens Ø4,0mm, l=50mm                                    |
|                                                                                                                                                | 99400029        | Nozzle cpl. TIG-Lens Cover Ø2,4, l=28mm                   | 20                                                                                                                                                | 53N88           | Ceramic Nozzle Size 10 for Big Gas Lens, Ø16,0, l=48mm (PU=10) |
|                                                                                                                                                | 99400030        | Nozzle cpl. TIG-Lens Cover Ø3,2, l=28mm                   |                                                                                                                                                   | 53N87           | Ceramic Nozzle Size 12 for Big Gas Lens, Ø19,5, l=48mm (PU=10) |
|                                                                                                                                                |                 |                                                           |                                                                                                                                                   | 53N89           | Ceramic Nozzle Size 16 for Big Gas Lens, Ø25,5, l=48mm (PU=10) |

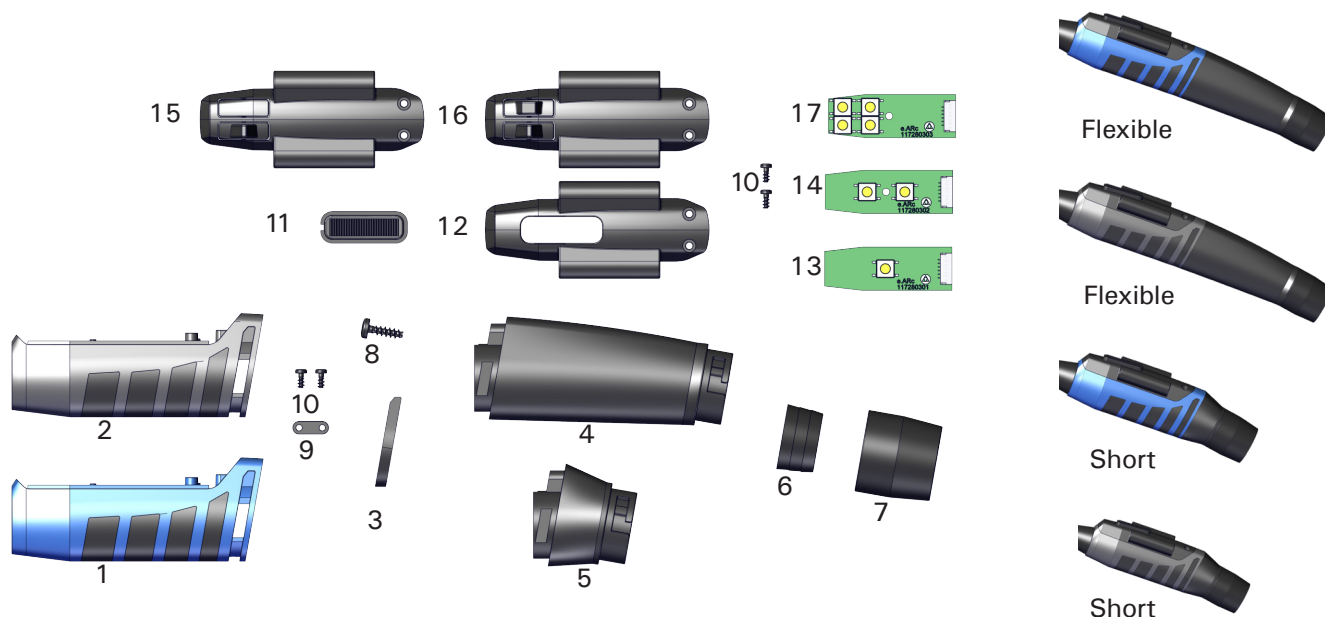
## Overview torch body for hot/cold wire e.Arc® 18W-F



### Spare parts

| Pos. | Part No. | Description             | L [mm] |
|------|----------|-------------------------|--------|
| 1    | 1181T100 | Torch body e.Arc® 18W-F | 55     |

## Overview handle e.Arc® for hot/cold wire

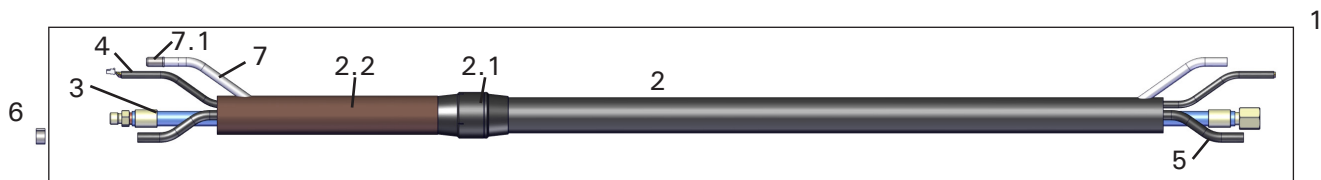


### Spare parts

| Pos. | Part No.  | Description                         | Pos. | Part No.       | Description                                         |
|------|-----------|-------------------------------------|------|----------------|-----------------------------------------------------|
| 1    | 117280101 | Handle e.Arc® blue                  | 10   | 002205K        | Screw Torx (PU = 20)                                |
| 2    | 117280102 | Handle e.Arc® gray                  | 11   | 117280230      | Trigger for single switch, black                    |
| 3    | 117280111 | Clamp for handle e.Arc®             | 12   | 117280203      | Cover hot/cold wire for single/double switch, black |
| 4    | 117280110 | Flexible kink protection e.Arc®     | 13   | 117280301      | Single Switch PCB                                   |
| 5    | 117280115 | Short kink protection e.Arc®        | 14   | 117280302      | Double Switch PCB                                   |
| 6    | 117280112 | Clamping ring for cover hose e.Arc® | 15   | 117280100SET08 | Cover hot/cold wire for single lever cpl., black    |
| 7    | 117280113 | Nut for kink protection e.Arc®      | 16   | 117280100SET07 | Cover hot/cold wire for Up/Down, black              |
| 8    | 003512K   | Screw torx (PU = 20)                | 17   | 117280303      | Up/Down PCB                                         |
| 9    | 117280114 | Strain relief e.Arc®                |      |                |                                                     |

## Cable hose package hot/cold wire e.ARC® 18W-F

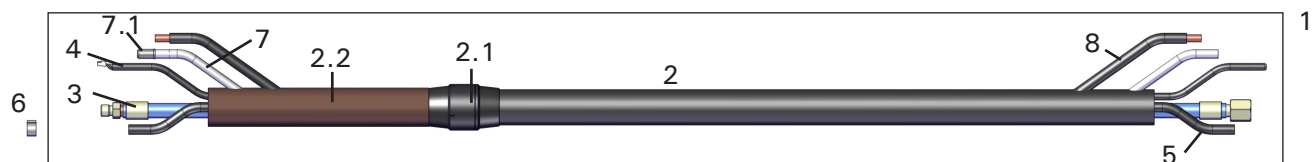
### Cable hose package with leather for cold wire



#### Spare parts

| Pos. | Part No.    | Description                                           | Pos. | Part No.    | Description                                                  |
|------|-------------|-------------------------------------------------------|------|-------------|--------------------------------------------------------------|
| 1    | 181T04002LC | Cable hose package with leather for cold wire 4m cpl. | 4    | 0510614-046 | Control cable 6 pol., one side with flat connector, l = 4,6m |
| 2    | 92572124    | Rubber outer cover 21x1,5 (PU = 60m)                  | 5    | 0550121     | PVC-hose (PU = 200m)                                         |
| 2.1  | 1172651     | Leather/rubber connector                              | 6    | 03210801    | Single ear clamp D = 8, . (PU = 100)                         |
| 2.2  | ARLS-23100  | Leather l = 1m                                        | 7    | 0550608-4   | Outer liner cpl. with connector                              |
| 3    | 181T41041   | Power cable 4m cpl.                                   | 7.1  | 105030459   | Connector                                                    |

### Cable hose package with leather for hot wire

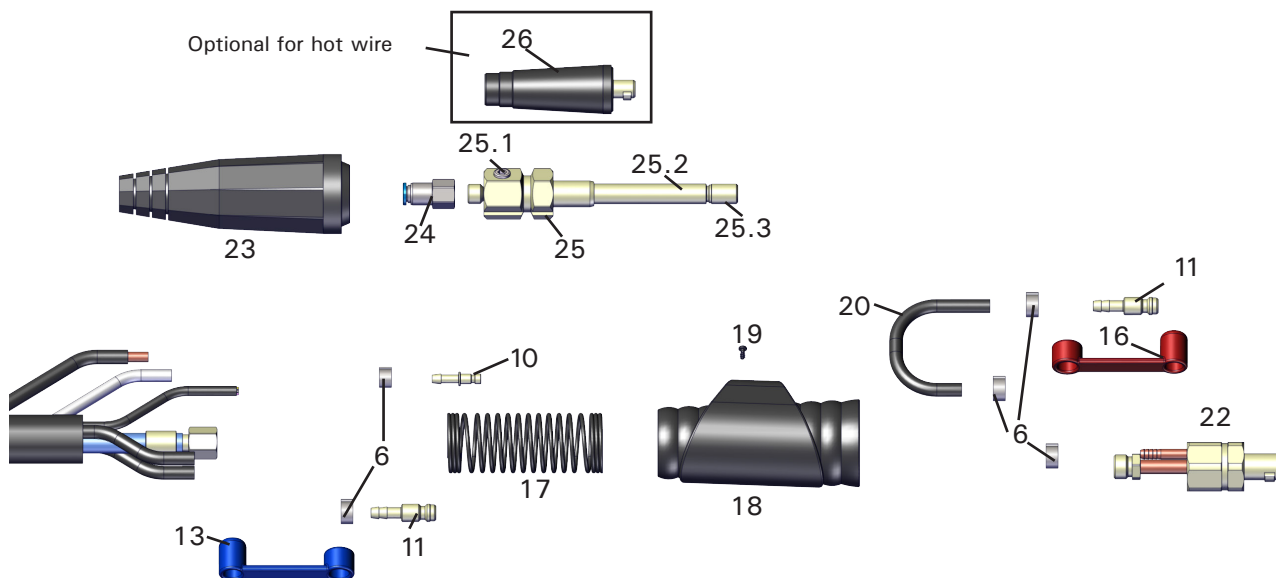


#### Spare parts

| Pos. | Part No.    | Description                                                  | Pos. | Part No.  | Description                         |
|------|-------------|--------------------------------------------------------------|------|-----------|-------------------------------------|
| 1    | 181T04002LH | Cable hose package with leather for hot-wire 4m cpl.         | 5    | 0550121   | PVC-hose (PU = 200m)                |
| 2    | 92572124    | Rubber outer cover 21x1,5 (PU = 60m)                         | 6    | 03210801  | Single ear clamp D = 8.0 (PU = 100) |
| 2.1  | 1172651     | Leather/rubber connector                                     | 7    | 0550608-4 | Outer liner cpl. with connector     |
| 2.2  | ARLS-23100  | Leather l = 1m                                               | 7.1  | 105030459 | Connector                           |
| 3    | 181T41041   | Power cable 4m cpl.                                          | 8    | 105030470 | Hot wire power cable                |
| 4    | 0510614-046 | Control cable 6 pol., one side with flat connector, l = 4,6m |      |           |                                     |

## Machine-side e.Arc® 18W-F connection with hot/cold wire

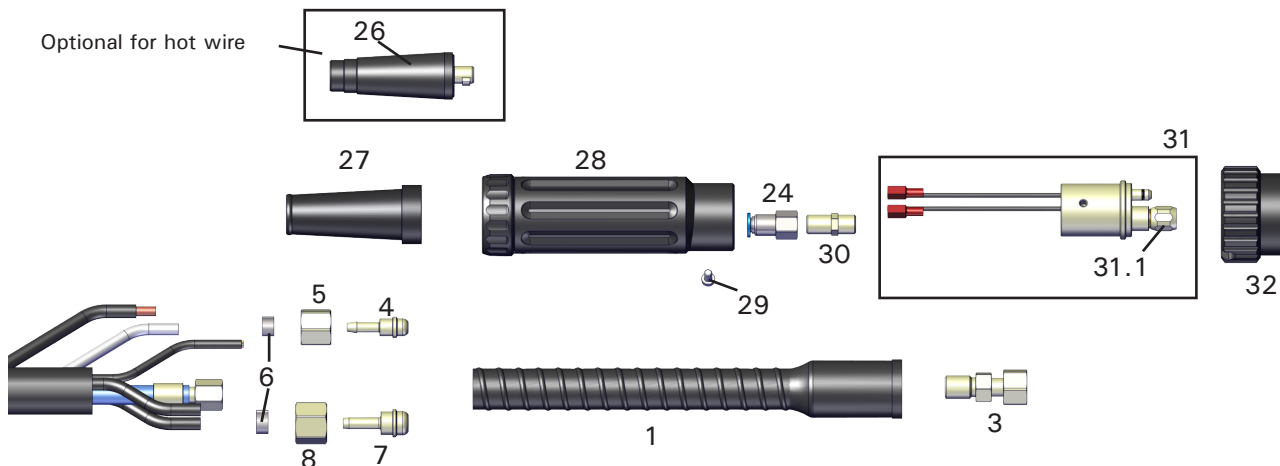
**TIG compact connector EWM® SK35/50 (Ø13mm) with gas: plug-in nipple NW2.7;  
water: plug-in nipple NW5; wire connection: EWM® tigSpeed;  
optional: hot wire connection: SK10/25 (Ø9mm)**



### Spare parts

| Pos. | Part No.  | Description                         | Pos. | Part No.   | Description                         |
|------|-----------|-------------------------------------|------|------------|-------------------------------------|
| 6    | 03210871  | Single ear clamp D = 8.7 (PU = 100) | 19   | 300022735  | Screw Torx (PU = 20)                |
| 9    | 03210801  | Single ear clamp D = 8.0 (PU = 100) | 20   | 0550121    | Hose 4x1,3mm black (PU = 100m)      |
| 10   | ARTR-0401 | Plug-in nipple NW2.7 (PU = 10)      | 22   | 300022725  | Compact connector TIG SK35/50       |
| 11   | 2990800   | Plug-in nipple NW5 (PU = 10)        | 23   | 9940000135 | Housing for liner connection        |
| 13   | 45050339  | Water stop blue (PU = 10)           | 24   | 9940000243 | Straight plug-in fitting R 1/8"-6mm |
| 16   | 45050340  | Water stop red (PU = 10)            | 25   | 994000002  | Plug for wire connection            |
| 17   | 300022731 | Spring for housing                  | 25.1 | 994000039  | Grub screw M8x8                     |
| 18   | 30002273  | Housing for compact connection TIG  | 25.2 | 994100165  | Liner connector for EWM® tigSpeed   |
|      |           |                                     | 25.3 | 994000004  | Liner positioner nut                |
|      |           |                                     | 26   | 3001201    | Plug SK10/25 (Ø9mm)                 |

**Single connection TIP TIG® with gas: G1/4"; water in: G3/8" LH;  
water return: G3/8" RH; wire connection: Euro-connection;  
optional: hot wire connection: SK10/25 (Ø9mm)**

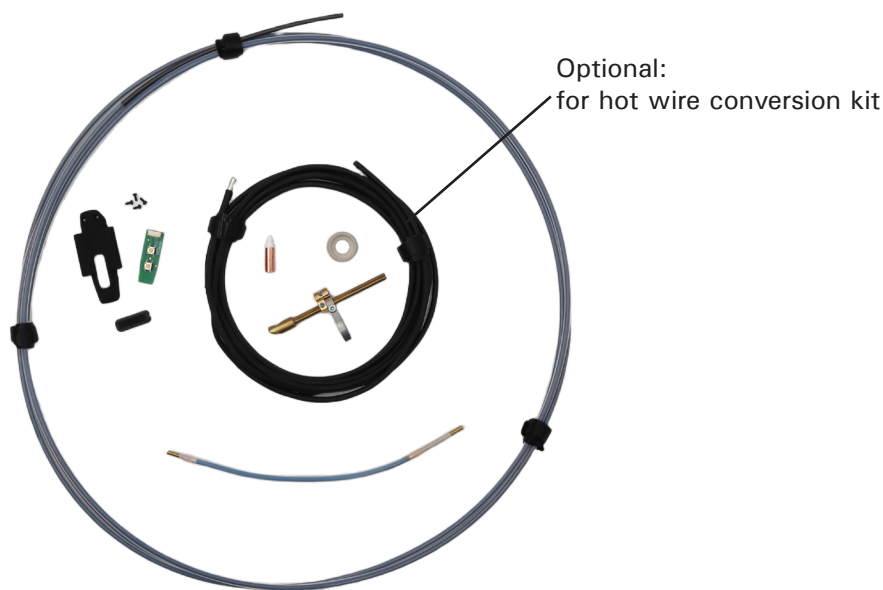


### Spare parts

| Pos. | Part No.   | Description                         | Pos. | Part No. | Description          |
|------|------------|-------------------------------------|------|----------|----------------------|
| 1    | 0331025    | Kink protection                     | 27   | 2151200  | PVC-kink protection  |
| 3    | 0331017    | Adaptor M12x1 AG – G3/8" IG         | 28   | 2251601  | Gun plug housing     |
| 4    | 0311004    | Connector G1/4"                     | 29   | 0040601  | Screw M4x6 (VE = 10) |
| 5    | 0313001    | Union nut G1/4"                     | 30   | 000F219  | Threaded nipple      |
| 6    | 03210871   | Single ear clamp D = 8,7 (PU = 100) | 31   | 2151505  | Euro.connector       |
| 7    | 0312004    | Connector G3/8"                     | 31.1 | 2151501  | Liner positioner nut |
| 8    | 0313005    | Union nut G3/8"                     | 32   | 2151700  | Plug nut             |
| 24   | 9940000243 | Sraight plug-in fitting R 1/8"-6mm  |      |          |                      |
| 26   | 3001201    | Plug SK10/25 (Ø9mm)                 |      |          |                      |

## Conversion kit for e.Arc® 18W-F hot/cold wire

**Conversion kit for hot/cold wire:**  
**Outer liner without machine-side connection**  
**optional: hot wire power cable without plug**



### Spare parts

| Pos. | Part No.        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pos. | Part No.        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 10503040-SET001 | Conversion kit e.Arc® 18W-F for hot wire and double switch consists of:<br>1x Cover hot/cold wire for single/double switch, black<br>4x Screw Torx<br>1x Trigger for single/double switch, black<br>1x Double switch PCB<br>1x Insulator e.Arc® 18W-F hot/cold wire<br>1x Hot/cold wire contact tip Ø1.0mm<br>1x Hot/cold wire - axis 30° for contact tip<br>1x Hot/cold wire support e.Arc®<br>1x Hot/cold wire adapter block e.Arc®<br>1x Wire conduits tube e.Arc®<br>1x Combi liner e.Arc®<br>1x Outer liner cpl. with connector<br>1x Hot wire power cable<br>1x PA-Liner |      | 10503040-SET002 | Conversion kit e.Arc® 18W-F for cold wire and double switch consists of:<br>1x Cover hot/cold wire for single/double switch, black<br>4x Screw Torx<br>1x Trigger for single/double switch, black<br>1x Double switch PCB<br>1x Insulator e.Arc® 18W-F hot/cold wire<br>1x Hot/cold wire contact tip Ø1.0mm<br>1x Hot/cold wire - axis 30° for contact tip<br>1x Hot/cold wire support e.Arc®<br>1x Hot/cold wire adapter block e.Arc®<br>1x Wire conduits tube e.Arc®<br>1x Combi liner e.Arc®<br>1x Outer liner cpl. with connector<br>1x PA-Liner |



## Spare part kits

### **Starter kit for e.ARC<sup>®</sup> hot/cold wire welding torches**



#### **Starter kit e.ARC<sup>®</sup> 18W-F hot/cold wire (994100168), consists of:**

| Part No.   | Description                                         | Part No. | Description                                          |
|------------|-----------------------------------------------------|----------|------------------------------------------------------|
| 14022122   | 1x Insulator e.ARC <sup>®</sup> 18W-F hot/cold wire | 1182332  | 1x Collet Body with Gas Lens Ø3,2mm, l=50mm (PU=5)   |
| 10503420   | 1x Hot/cold wire - axis 30° for contact tip         | 1350432  | 1x Collet Long Life Ø3.2mm, l=50mm                   |
| 10503421   | 1x Hot/cold wire - axis 40° for contact tip         | 1210708  | 1x Ceramic Nozzle Size 8 for Gas Lens, Ø12,5 l=42mm  |
| 105030430B | 1x Hot/cold wire contact tip Ø0.8mm                 | 54N14L   | 1x Ceramic Nozzle Size 8 for Gas Lens, Ø12,5, l=76mm |
| 105030431B | 1x Hot/cold wire contact tip Ø1.0mm                 | 0458002  | 1x Tungsten electrode WC20 Ø3.2mm, l=175mm           |
| 105030432B | 1x Hot/cold wire contact tip Ø1.2mm                 |          |                                                      |
| 105030450  | 1x Wire conduits tube e.ARC <sup>®</sup>            |          |                                                      |
| 105030460  | 1x Combi liner e.ARC <sup>®</sup>                   |          |                                                      |



## Wire conduits and liners for e.ARC<sup>®</sup> hot/cold wire welding torches

### PA liners – for Euro connection

(Aluminum (AlMg, AlSi etc.), Stainless steel (chrome-nickel, VA, V2A etc.), Special alloys (CuSi etc.), Carbon steel (G3Si1, SG2 etc.))

| Wire-Ø<br>[mm] | Dimension<br>[mm] | Color      | Collet<br>(PU = 10) | O-ring<br>(PU = 10) | Fig. | Liner cpl. | bundles<br>(200m) |
|----------------|-------------------|------------|---------------------|---------------------|------|------------|-------------------|
| 0,6 – 0,9      | 1,4 x 4,0         | anthracite | 2155740             | 0031500             |      | 35314X0*   | 3531400           |
| 0,8 – 1,2      | 2,0 x 4,0         | anthracite | 2155740             | 0031500             |      | 35320X0*   | 3522000-200       |
| 1,2 – 1,6      | 2,3 x 4,7         | anthracite | 2415747             | 0031500             |      | 35323X0*   | 3532300-200       |

### PTFE liners – for Euro connection

(Aluminum (AlMg, AlSi etc.), Stainless steel (chrome-nickel, VA, V2A etc.), Special alloys (CuSi etc.), Carbon steel (G3Si1, SG2 etc.))

| Wire-Ø<br>[mm] | Dimension<br>[mm] | Color  | Collet<br>(PU = 10) | O-ring<br>(PU = 10) | Fig. | Liner cpl. | bundles<br>(100m) |
|----------------|-------------------|--------|---------------------|---------------------|------|------------|-------------------|
| 0,8 - 1,0      | 1,5 x 4,0         | blue   | 2155740             | 0031500             |      | 34115X0*   | 3411500           |
| 0,9 - 1,2      | 2,0 x 4,0         | red    | 2155740             | 0031500             |      | 34120X0*   | 3412000           |
| 1,2 - 1,6      | 2,7 x 4,7         | yellow | 2415747             | 0031500             |      | 34727X0*   | 3472700           |

### Carbon PTFE liners – for Euro connection

(Carbon steel (G3Si1, SG2 etc.), Special alloys (CuSi etc.), conditional aluminum (AlMg, AlSi etc.))

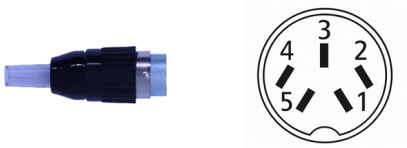
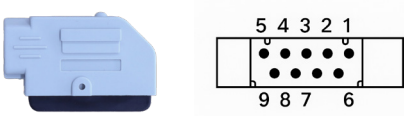
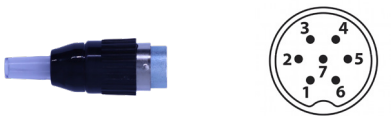
| Wire-Ø<br>[mm] | Dimension<br>[mm] | Color | Collet<br>(PU = 10) | O-ring<br>(PU = 10) | Fig. | Liner cpl. | bundles<br>(100m) |
|----------------|-------------------|-------|---------------------|---------------------|------|------------|-------------------|
| 0,8 - 1,0      | 1,5 x 4,0         | black | 2155740             | 0031500             |      | 35115X0*   | 3511500           |
| 0,9 - 1,2      | 2,0 x 4,0         | black | 2155740             | 0031500             |      | 35120X0*   | 3512000           |
| 1,2 - 1,6      | 2,7 x 4,7         | black | 2415747             | 0031500             |      | 35727X0*   | 3572700           |

\*Wire conduits and liners available in standard length in 3 or 4 / 5 /6m. Please insert the length at **X**.

Example: 3m ist: 3; Art.-Nr.: = 34115**3**0

Contact us for different length.

## Control cable plugs

| EWM®                                                                                                                                       | Kempfi®                                                                                                                                   | Rehm®                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Tuchel plug 5-pol.</p>  <p>Part No.: T3012002</p>      | <p>Amphenol plug 7-pol.</p>  <p>Part No.: P-0001-Set</p> | <p>Amphenol C16-1 plug 7-pol.</p>  <p>Part No.: T3104001</p> |
| <p>Burndy plug 8-pol.</p>  <p>Part No.: P-0003-Set</p>   |                                                                                                                                           | <p>Amphenol plug 12-pol.</p>  <p>Part No.: P-0002-Set</p>   |
| EWM®                                                                                                                                       | Fronius®                                                                                                                                  | TIP TIG®                                                                                                                                        |
| <p>Burndy plug 12-pol.</p>  <p>Part No.: P-0004-Set</p> | <p>Tuchel plug 9-pol.</p>  <p>Part No.: ART902</p>    | <p>Tuchel plug 7-pol.</p>  <p>Part No.: 0002607</p>        |

## Tungsten electrodes



Markings      Part.No.      Ø [mm]      Length [mm]      Recommendation

|                    |           |     |     |                   |                                                |
|--------------------|-----------|-----|-----|-------------------|------------------------------------------------|
| Green<br>„WP“      | 08602110  | 1,0 | 175 |                   |                                                |
|                    | 08602170  | 1,6 |     | Current type:     | Alternating current                            |
|                    | 08602240  | 2,4 |     | Ignitability:     | -                                              |
|                    | 08602320  | 3,2 |     | Lifetime:         | +                                              |
|                    | 08602400  | 4,0 |     | Arc stability:    | +                                              |
|                    | 08602480  | 4,8 |     | Type of material: | Aluminium, aluminium alloys                    |
| Gray<br>„WC 20“    | 0458000S1 | 1,0 | 175 |                   |                                                |
|                    | 0458000   | 1,6 |     | Current type:     | Direct current minus pole, Alternating current |
|                    | 0458001   | 2,4 |     | Ignitability:     | + +                                            |
|                    | 0458002   | 3,2 |     | Lifetime:         | +                                              |
|                    | 0458003   | 4,0 |     | Arc stability:    | +                                              |
|                    | 0458004   | 4,8 |     | Type of material: | For all applications                           |
| Black<br>„WL 10“   | 0464001   | 1,0 | 175 |                   |                                                |
|                    | 0464002   | 1,6 |     | Current type:     | Direct current minus pole                      |
|                    | 0464004   | 2,4 |     | Ignitability:     | +                                              |
|                    | 0464006   | 3,2 |     | Lifetime:         | +                                              |
|                    | 0464007   | 4,0 |     | Arc stability:    | +                                              |
|                    | 0464008   | 4,8 |     | Type of material: | High-alloyed steels                            |
| Gold<br>„WL 15“    | 0446902   | 1,0 | 175 |                   |                                                |
|                    | 0446903   | 1,6 |     | Current type:     | Direct current minus pole                      |
|                    | 0446904   | 2,4 |     | Ignitability:     | + +                                            |
|                    | 0446905   | 3,2 |     | Lifetime:         | + +                                            |
|                    | 0446906   | 4,0 |     | Arc stability:    | +                                              |
|                    | 0446907   | 4,8 |     | Type of material: | High-alloyed steels                            |
| Blue<br>„WL 20“    | 0461001   | 1,0 | 175 |                   |                                                |
|                    | 0461002   | 1,6 |     | Current type:     | Direct current minus pole                      |
|                    | 0461003   | 2,4 |     | Ignitability:     | + + +                                          |
|                    | 0461004   | 3,2 |     | Lifetime:         | + + +                                          |
|                    | 0461005   | 4,0 |     | Arc stability:    | + +                                            |
|                    | 0461007   | 4,8 |     | Type of material: | High-alloyed steels                            |
| White<br>„WZ8“     | 0445928   | 1,0 | 175 |                   |                                                |
|                    | 0445929   | 1,6 |     | Current type:     | Alternating current                            |
|                    | 0445930   | 2,4 |     | Ignitability:     | +                                              |
|                    | 0445931   | 3,2 |     | Lifetime:         | + +                                            |
|                    | 0445932   | 4,0 |     | Arc stability:    | + +                                            |
|                    | 0445933   | 4,8 |     | Type of material: | Aluminium, aluminium alloys                    |
| Turquoise<br>„WS2“ | 0459000S  | 1,0 | 175 |                   |                                                |
|                    | 0459000   | 1,6 |     | Current type:     | Direct current minus pole, Alternating current |
|                    | 0459002   | 2,4 |     | Ignitability:     | + + +                                          |
|                    | 0459003   | 3,2 |     | Lifetime:         | + + +                                          |
|                    | 0459004   | 4,0 |     | Arc stability:    | + +                                            |
|                    | 0459005   | 4,8 |     | Type of material: | For all applications                           |





## Impressum:

Autogen-Ritter GmbH  
Otto-Lilienthal-Ring 5  
85622 Feldkirchen-München  
Phone: + 49(0) / 427230-0  
[info@autogenritter.com](mailto:info@autogenritter.com)  
[www.autogenritter.com](http://www.autogenritter.com)

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Autogen-Ritter GmbH  
Otto-Lilienthal-Ring 5  
85622 Feldkirchen-München  
Phone: +49 (0) 89 427230-0  
[info@autogenritter.com](mailto:info@autogenritter.com)  
[www.autogenritter.com](http://www.autogenritter.com)