

Excellent

The soldering tip from Weller
innovative and reduces costs



Weller®

Tool protection. Perfect interaction between the heating element and the soldering tip.

Weller soldering tips are designed at the Weller' German Research and Development Centre to meet the very latest requirements of the market. Weller's soldering tip and heater form a unit and therefore a perfect heating system to produce high quality solder joints. Combined with the right soldering iron to form the perfect tool!

Genuine Weller soldering tips feature individual galvanic coatings.

Every Weller tip is designed for a specific application.



✓ **High quality copper core,**
for effective heat transfer to the solder point.

✓ **Galvanised ferrous coating,**
determines the service life of the soldering tip.

✓ **Solder area**
tin-plated in advance to prevent oxidation.

✓ **Corrosion-resistant nickel coating,**
is the bonding coating between the iron and chrome.

✓ **Special chrome coating,**
limits the wetting area.



Tool protection

Perfect interaction between the heater and soldering tip protects the soldering iron from irreparable damage. Other tips often damage the heating system.



The perfect technology for every application – and thus maximum flexibility

None of our competitors offer this much choice.

Only Weller supplies three different technologies to ensure customers always have precisely the best tool for their application. This technology enables them finally to tackle those solder jobs which in the past have not been so easy to complete. And the result – you save lots of money!

Why three different technologies and what benefits do they offer?



Active-Tip technology

- For excellent performance.
- This technology produces perfect results.
- Not possible with standard tools.
- Fast heat up and recovery time.



Fast-Response technology

- For maximum performance.
- This technology produces effective results. Lower cost alternative to Active Tip technology. Wide range of solder tips.
- For universal applications with very high quality requirements.



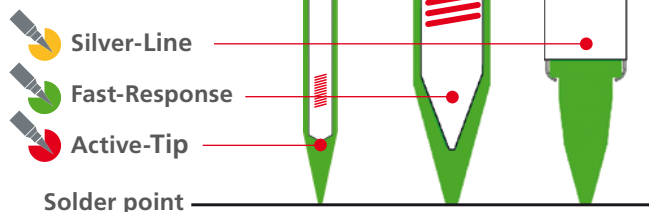
Silver-Line technology

- For good performance.
- A wide range of low cost tips is available to produce very good results.
- For universal applications.

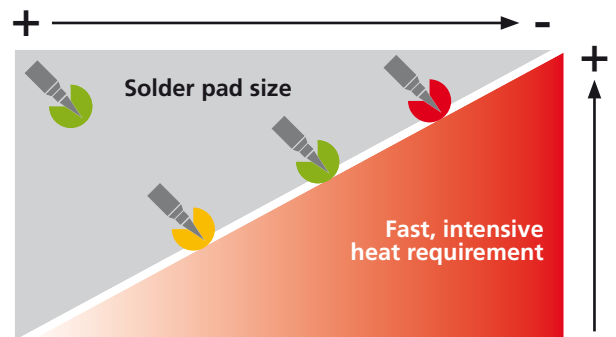


Distance from sensor to solder point

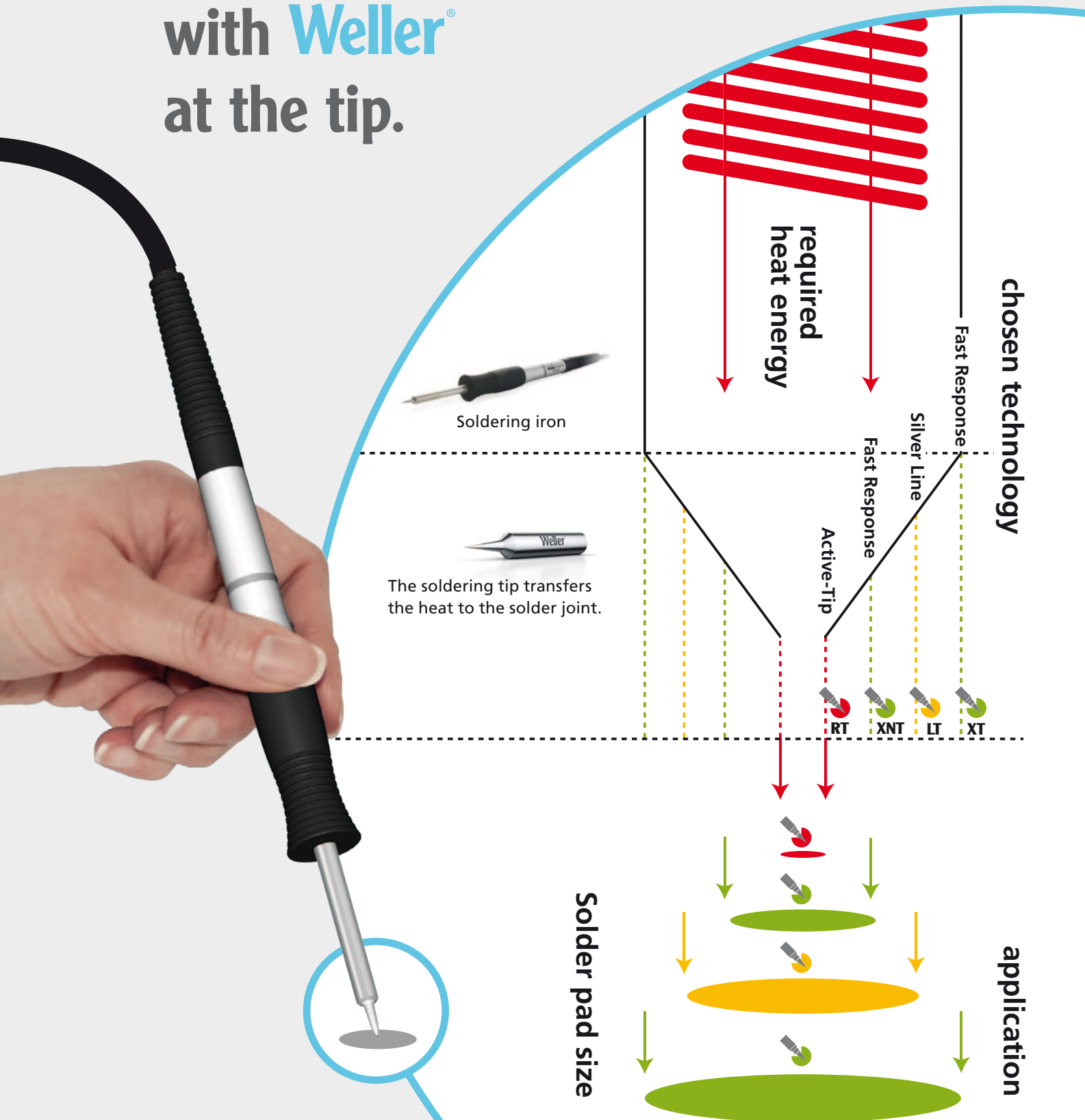
● Sensor position



Maximum flexibility



Concentrated power with **Weller**[®] at the tip.



Save costs with WSW soldering wire from Weller.

The permanent development of Weller soldering wire means that it is now possible to drastically improve the quality of soldering joints. Weller is launching across the world its exclusive, optimized and patented WSW soldering wire in cooperation with the soldering wire manufacturer **almit**

Example calculation: Costs for soldering tips compared with competition

Assumption price for soldering tip: Active tips approx. 20 €, changeable tips approx. 5 €

| | Weller WSW | Competition SAC 305 |
|--|------------|---------------------|
| Number of solder cycles per soldering tip | 50,000 | 15,000 |
| Cost per solder joint: Active Tip (cartridge tip)  | 0.0004 € | 0.0013 € |
| Cost per solder joint: Interchangeable tips from Weller   Weller supplies heating technology with interchangeable tips.  | 0.0001 € | 0.00033 € |

Potential saving per workstation

Assumption: 50,000 solder joints per week, 1 kg soldering wire, 44 working weeks per year


Potential savings for soldering wire

| Active Tip | Weller | Competition |
|-----------------------|------------|---------------------|
| Soldering wire | Weller WSW | Competition SAC 305 |
| Cost per solder joint | 0.0004 € | 0.0013 € |
| = Cost per year | 880 € | 2,860 € |
| + Cost soldering wire | 3,586 € | 2,640 € |
| = | 4,466 € | 5,500 € |

Saving per year 1,034 € 

Potential saving for Weller solder tips + soldering wire

| | Weller | Competition |
|-----------------------|----------------------|-------------|
| | Interchangeable tips | Active Tip |
| Cost per solder point | 0.0001 € | 0.0013 € |
| = Cost per year | 220 € | 2,860 € |
| + Cost Soldering wire | 3,586 € | 2,640 € |
| = | 3,806 € | 5,500 € |

Saving per year 1,694 € 



Performance

- WSW soldering wire provides excellent flux properties
- No more solder splatter due to a very even flux distribution
- Reduced Fe leaching
- Fast and homogeneous wetting



| 8 |



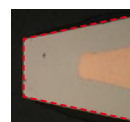
Great cost efficiency

Reduction in soldering tip use by around 50 – 70%, in some cases as much as 80%.

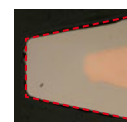


Increased service life

Increase in soldering tip service life due to its microalloy finish.



New tip



Weller WSW after 10,000 solder cycles



Competition after 10,000 solder cycles



Maximum flexibility

To guarantee maximum flexibility with soldering wire too, Weller can supply a range of alloys and fluxes as well as various wire diameters. See page 22

The perfect technology for every application combined with the genuine soldering tip from Weller.

RT

soldering tips

WXMP
WMRP



40 W, 12 V

Fine slim soldering iron.
Ideal for microscope work.

RTW

soldering tips

WXMT
WMRT

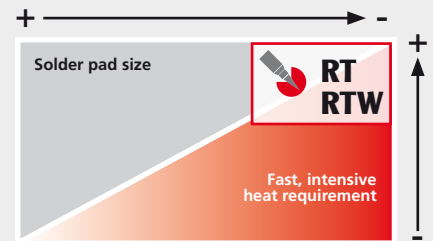


2 x 40 W, 12 V

Slim tweezers. Ideal for soldering and desoldering of very small SMD components.



Active-Tip



XNT

soldering tips

WXP 65
WP 65

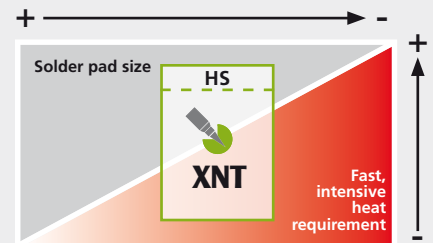


65 W, 24 V

Small fast soldering iron.
Suitable for fine solder jobs with high heat demand.



Fast Response



LT

soldering tips

WSP 80
WP 80

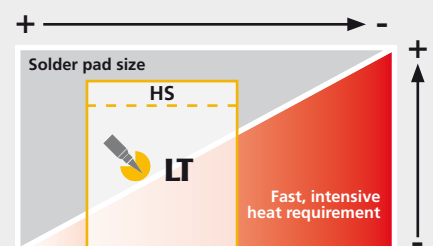


80 W, 24 V

For all purpose industrial applications.
A wide range of soldering tips is available.



Silver Line



XT

soldering tips

WXP 120
WP 120



120 W, 24 V

All-rounder with 120 watts.
For soldering applications from small to large components with higher heat demand.

XHT

soldering tips

WXP 200
WP 200

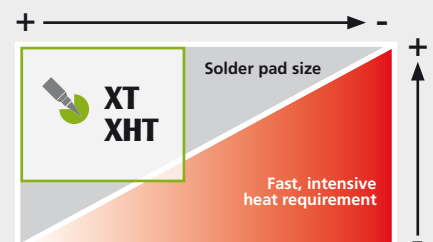


200 W, 24 V

High Power soldering iron.
Ideal for applications with high mass applications e.g. LED backpanels or RF shieldings.











Fast Response



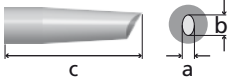
Conical





| Type | Ø a mm | Order-no. |
|---|-----------|----------------|
| RT 1  | 0,2 | T005 44 601 99 |
| RT 1NW*  | 0,1 | T005 44 625 99 |
| RT 2  | 0,8 | T005 44 602 99 |

| Type | Ø a mm | Order-no. |
|--|-----------|----------------|
| RT 1MS  | 0,2 | T005 44 614 99 |
| RT 1NWMS*  | 0,1 | T005 44 625 71 |
| RT 2MS  | 0,8 | T005 44 617 99 |
| RT 12MS 25°  | 0,5 | T005 44 632 99 |
| RT 13MS 30°  | 0,4 | T005 44 633 99 |

Gull Wing





| Type | Ø a mm | b mm | Order-no. |
|---|-----------|---------|----------------|
| RT 10GW  | 1,2 | 2,0 | T005 44 610 99 |

| Type | Ø a mm | b mm | Order-no. |
|--|-----------|---------|----------------|
| RT 10GWMS  | 1,2 | 2,0 | T005 44 624 99 |

Knife




| Type | Ø a mm | Order-no. |
|--|-----------|----------------|
| RT 7 45°  | 2,2 | T005 44 607 99 |

| Type | Ø a mm | Order-no. |
|---|-----------|----------------|
| RT 7MS 45°  | 2,2 | T005 44 621 99 |

MS tips: separate grounded

Measuring tip

| Type | Order-no. |
|---|----------------|
| Measuring tip  | T005 44 613 99 |

* none wettable



WXP 65 / WP 65

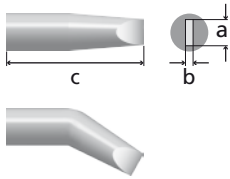
Small fast soldering iron. Suitable for fine solder jobs with high heating demand.

65 W, 24 V



- Interchangeable soldering tips at low prices
- Maximum heat transfer
- Heater with improved sensor position
- Fast recovery time

Chisel



| XNT | Ø a mm | b mm | c mm | Order-no. |
|-------------------|-----------|---------|---------|----------------------------------|
| XNT 15CNW* | 0,3 | 0,1 | 27,0 | T005 44 881 99 T005 44 881 10 |
| XNT 15C | 0,4 | 0,15 | 27,0 | T005 44 862 99 T005 44 862 10 |
| XNT H | 0,8 | 0,4 | 28,0 | T005 44 859 99 T005 44 859 10 |
| XNT K | 1,2 | 0,4 | 28,0 | T005 44 860 99 T005 44 860 10 |
| XNT A | 1,6 | 0,4 | 28,0 | T005 44 851 99 T005 44 851 10 |
| XNT 6 | 1,6 | 0,4 | 29,5 | T005 44 856 99 T005 44 856 10 |
| XNT B | 2,4 | 0,8 | 27,0 | T005 44 857 99 T005 44 857 10 |

| Type | Ø a mm | b mm | c mm | Order-no. |
|-------------------|-----------|---------|---------|----------------------------------|
| XNT C | 3,2 | 0,8 | 27,0 | T005 44 858 99 T005 44 858 10 |
| XNT D | 4,0 | 0,8 | 28,0 | T005 44 853 99 T005 44 853 10 |
| XNT HX 45° | 0,8 | 0,4 | 36,5 | T005 44 873 99 T005 44 873 10 |
| XNT 4X 45° | 1,2 | 0,4 | 34,6 | T005 44 874 99 T005 44 874 10 |
| XNT AX | 1,6 | 0,8 | 28,0 | T005 44 864 99 T005 44 864 10 |
| XNT BX | 2,4 | 0,8 | 36,5 | T005 44 882 99 T005 44 882 10 |
| XNT MX | 3,2 | 0,8 | 37,5 | T005 44 883 99 T005 44 883 10 |

Sloped



| Type | a mm | Order-no. |
|-------------------|---------|----------------------------------|
| XNT 4 | 1,2 | T005 44 855 99 T005 44 855 10 |
| XNT AA 45° | 1,6 | T005 44 884 99 T005 44 884 10 |
| XNT BB 45° | 2,4 | T005 44 885 99 T005 44 885 10 |

| Type | a mm | Order-no. |
|-------------------|---------|----------------------------------|
| XNT CC 45° | 3,2 | T005 44 886 99 T005 44 886 10 |
| XNT F 45° | 1,2 | T005 44 887 99 T005 44 887 10 |

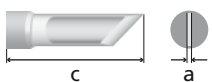
Conical



| Typ | Ø a mm | c mm | Order-no. |
|--------------|-----------|---------|----------------------------------|
| XNT 1 | 0,5 | 27,0 | T005 44 850 99 T005 44 850 10 |

| Typ | Ø a mm | c mm | Order-no. |
|--------------|-----------|---------|----------------------------------|
| XNT S | 0,4 | 37,5 | T005 44 868 99 T005 44 868 10 |

Knife



| Type | Ø a mm | c mm | Order-no. |
|---------------|-----------|---------|----------------------------------|
| XNT KN | 2,0 | 33,0 | T005 44 863 99 T005 44 863 10 |

- T005XXXXX99 = 1 Piece
- T005XXXXX10 = 10 Pieces
- T005XXXXX11 = 100 Pieces

* none wettable

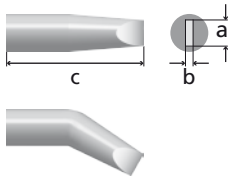
WSP 80 / WP 80





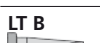





Approved heating technology with effective heat transfer.
For all purpose industrial applications. A wide range of soldering tips are available.













- For universal applications
- Effective heat transfer
- Extensive range of soldering tips
- High quality heater core
- Soldering tip with low material use and therefore lower cost

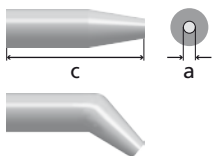
Chisel













| LT | \varnothing a mm | b mm | c mm | Order-no. |
|--|-----------------------|---------|---------|--|
|  LT 1SC | 0,4 | 0,15 | 15,0 | T005 44 494 99 T005 44 494 10 |
|  LT 1SCNW* | 0,3 | 0,1 | 15,0 | T005 44 497 99 |
|  LT A | 1,6 | 0,7 | 12,5 | T005 44 440 99 T005 44 440 10 T005 44 403 11 |
|  LT ASL | 1,6 | 0,45 | 12,5 | T005 44 516 99 T005 44 516 11 |
|  LT B | 2,4 | 0,8 | 12,5 | T005 44 405 99 T005 44 405 10 T005 44 405 11 |
|  LT BSL | 2,4 | 0,45 | 12,5 | T005 44 517 99 T005 44 517 11 |
|  LT H | 0,8 | 0,4 | 12,5 | T005 44 437 99 T005 44 437 10 T005 44 412 11 |
|  LT HSL | 0,8 | 0,4 | 12,5 | T005 44 518 99 T005 44 518 11 |
|  LT C | 3,2 | 0,8 | 12,5 | T005 44 407 99 T005 44 407 10 T005 44 407 11 |
|  LT D | 4,6 | 0,8 | 12,5 | T005 44 409 99 T005 44 409 10 T005 44 409 11 |

| Type | \varnothing a mm | b mm | c mm | Order-no. |
|---|-----------------------|---------|---------|--|
|  LT DLL | 4,6 | 1,2 | 12,5 | T005 44 448 99 T005 44 448 10 |
|  LT K | 1,2 | 0,4 | 20,0 | T005 44 438 99 T005 44 438 10 T005 44 413 11 |
|  LT L | 2,0 | 1,0 | 20,0 | T005 44 414 99 T005 44 414 10 T005 44 414 11 |
|  LT M | 3,2 | 1,2 | 20,0 | T005 44 415 99 T005 44 415 10 T005 44 415 11 |
|  LT HX 30° | 0,8 | 0,4 | 17,5 | T005 44 420 99 T005 44 420 11 |
|  LT ALX 30° | 1,6 | 0,7 | 17,5 | T005 44 443 99 T005 44 443 10 |
|  LT BX 30° | 2,4 | 0,8 | 17,5 | T005 44 442 99 T005 44 442 10 |
|  LT AX 30° | 1,6 | 0,8 | 14,1 | T005 44 427 99 T005 44 427 10 |
|  LT 4X 30° | 1,2 | 0,4 | 17,2 | T005 44 428 99 T005 44 428 10 |
|  LT MX 30° | 3,2 | 1,2 | 20,0 | T005 44 469 99 |

Round
























| Type | \varnothing a mm | c mm | Order-no. |
|---|-----------------------|---------|--|
|  LT 1S | 0,2 | 15,0 | T005 44 436 99 T005 44 402 10 |
|  LT 1SNW* | 0,1 | 15,0 | T005 44 496 99 |
|  LT 1SA | 0,5 | 15,0 | T005 44 488 99 |
|  LT 1 | 0,25 | 13,0 | T005 44 435 99 T005 44 435 10 T005 44 401 11 |
|  LT 1LNW* | 0,1 | 25,4 | T005 44 498 99 |

| Type | \varnothing a mm | c mm | Order-no. |
|---|-----------------------|---------|--|
|  LT 1A | 0,5 | 13,0 | T005 44 489 99 T005 44 489 10 T005 44 489 11 |
|  LT AS | 1,6 | 12,5 | T005 44 404 99 T005 44 404 10 T005 44 404 11 |
|  LT CS | 3,2 | 12,5 | T005 44 411 99 T005 44 411 10 |
|  LT 1SLX 30° | 0,4 | 22,0 | T005 44 426 99 T005 44 426 10 |
|  LT 1X 30° | 0,4 | 13,0 | T005 44 425 99 T005 44 425 10 |

High Speed



| LT | Ø a mm | b mm | c mm | Order-no. |
|---|------------------|----------------|----------------|--|
| LT 1 HS  | 0,25 | | 13,0 | T005 44 520 99 T005 44 520 10 T005 44 520 11 |
| LT 1S HS  | 0,2 | | 15,0 | T005 44 521 99 T005 44 521 10 T005 44 52 111 |
| LT AS HS  | 1,6 | | 12,5 | T005 44 522 99 T005 44 522 10 T005 44 522 11 |
| LT S HS  | 0,4 | | 21,0 | T005 44 523 99 T005 44 523 10 T005 44 523 11 |
| LT F HS 45°  | 1,2 | | 12,5 | T005 44 524 99 T005 44 524 10 T005 44 524 11 |
| LT K HS  | 1,2 | 0,4 | 20,0 | T005 44 525 99 T005 44 525 10 T005 44 525 11 |
| LT HX HS 30°  | 0,8 | 0,4 | 17,5 | T005 44 526 99 T005 44 526 10 T005 44 526 11 |
| LT 4 HS 45°  | 1,2 | | 15,0 | T005 44 527 99 T005 44 527 10 T005 44 527 11 |
| LT 1L HS  | 0,2 | | 25,4 | T005 44 528 99 T005 44 528 10 T005 44 528 11 |
| LT 1LX HS 35°  | 0,2 | | 25,4 | T005 44 529 99 T005 44 529 10 T005 44 529 11 |
| LT 1X HS 30°  | 0,4 | 13,0 | | T005 44 530 99 T005 44 530 10 |

| Type | Ø a mm | b mm | c mm | Order-no. |
|---|------------------|----------------|----------------|--|
| LT 1SLX HS 30°  | 0,4 | | 22,0 | T005 44 531 99 T005 44 531 10 |
| LT AX HS 30°  | 1,6 | 0,8 | 14,1 | T005 44 532 99 T005 44 532 10 |
| LT 4X HS 30°  | 1,2 | 0,4 | 17,2 | T005 44 533 99 T005 44 533 10 |
| LT O HS  | 0,8 | | 17,0 | T005 44 534 99 T005 44 534 10 |
| LT THS  | 0,6 | | 13,0 | T005 44 535 99 T005 44 535 11 |
| LT 1SA HS  | 0,5 | | 15,0 | T005 44 536 99 |
| LT 1A HS  | 0,5 | | 14,0 | T005 44 537 99 T005 44 537 10 T005 44 537 11 |
| LT O HS  | 1,4 | | 17,0 | T005 44 538 99 |
| LT ASL HS  | 1,6 | 0,45 | 12,5 | T005 44 539 99 T005 44 539 11 |
| LT HSL HS  | 0,8 | 0,4 | 12,5 | T005 44 540 99 T005 44 540 11 |

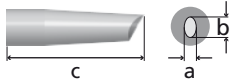
Accessories



| Type | a mm | c mm | Order-no. |
|---|----------------|----------------|------------------|
| Measuring tip MLR 80/ WSP 80 | 0,5 | 13,0 | T005 44 416 99 |
| Screw M4 external thread | 8,0 | | T005 44 449 99 |
| ET-LT Adapter | | | T005 87 207 81 |


* none wettable

■ T005XXXXX99 = 1 Piece
■ T005XXXXX10 = 10 Pieces
■ T005XXXXX11 = 100 Pieces

Gull Wing




| XT | | Ø a mm | b mm | c mm | Order-no. |
|---------------|---|------------------|----------------|----------------|----------------------------------|
| XT GW1 |  | 2,3 | 3,2 | 36,5 | T005 44 712 99 T005 44 712 10 |
| XT GW2 |  | 3,5 | 4,8 | 36,5 | T005 44 735 99 |

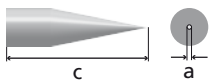
| Type | Ø a mm | b mm | c mm | Order-no. | |
|---------------|--|----------------|----------------|------------------|----------------------------------|
| XT GW3 |  | 0,8 | 0,9 | 41,5 | T005 44 711 99 T005 44 711 10 |


Knife






| Type | Ø a mm | c mm | Order-no. | |
|-------------------|---|----------------|------------------|----------------------------------|
| XT KN 60 ° |  | 2,0 | 45,0 | T005 44 711 99 T005 44 714 10 |

Conical








| Type | Ø a mm | c mm | Order-no. | |
|-------------|---|----------------|------------------|----------------------------------|
| XT O |  | 1,0 | 36,5 | T005 44 714 99 T005 44 714 10 |

Soldering head

| Type | a mm | b mm | Order-no. | |
|------------------------------------|---|----------------|------------------|----------------|
| XT Soldering head + adapter |  | 10,0 | 4,0 | T005 44 731 99 |
| Soldering head | | 10,0 | 4,0 | T005 44 731 90 |
| XT Soldering head + adapter |  | 20,0 | 4,0 | T005 44 732 99 |
| Soldering head | | 20,0 | 4,0 | T005 44 732 90 |
| XT Soldering head + adapter |  | 33,0 | 4,0 | T005 44 733 99 |
| Soldering head | | 33,0 | 4,0 | T005 44 733 90 |

Accessories

| Type | a mm | c mm | Order-no. | |
|----------------------|---|----------------|------------------|----------------|
| Measuring tip |  | 0,5 | 40,0 | T005 44 722 99 |
| XT Adapter M4 |  | | 36,0 | T005 44 719 99 |
| XT Adater M5 |  | | 36,0 | T005 44 720 99 |

| Type | Order-no. |
|------------------------|--|
| Barrel |  WXP 120 WP 120 T005 87 657 11 T005 87 637 09 |
| Barrel for bent |  WXP 120 WP 120 T005 87 657 66 T005 87 658 02 |

- T005XXXXX99 = 1 Piece
- T005XXXXX10 = 10 Pieces
- T005XXXXX11 = 100 Pieces

How to extend the life time of your Weller soldering tips.

The soldering tip is the critical component in the soldering process which must transfer heat effectively and reliably to the solder point.

Unprofessional care can therefore result in soldering problems. Weller products and tips should be used at all times to prevent this.

Weller soldering irons and safety rests enable you to use these devices in standby mode to protect the soldering tip and save energy.



Weller WSW soldering wire protects the soldering tip



Excellent melting properties for copper and nickel. Very fast, homogeneous wetting, even on difficult surfaces. Reduced Fe leaching. Soldering tip life times can be extended by up to 30% by the microalloy. Good wetting properties of the soldering tip in low temperatures. Better flow properties and low flux splatter.

Always wet the soldering tip – even after using it with Weller WSW.

To guarantee maximum flexibility with soldering wire, Weller can supply a range of alloys and fluxes as well as various wire diameters.

Alloys

- SAC alloy – tin / silver / copper
- SC alloy – tin / copper

Flux

- Mildly activated flux (NoClean) M1
- Halogen-free flux L0

Diameters

- 0,5 mm, 0,8 mm, 1,0 mm, 1,2 mm, 1,6 mm

| Type | WSW SAC M1 | WSW SAC L0 | WSW SC L0 | WSW SC M1 |
|-----------------------|----------------|----------------|----------------|----------------|
| Alloy | Sn3.0Ag0.5Cu | Sn3.0Ag0.5Cu | Sn0.7Cu | Sn0.7Cu |
| Temperature | 217-221°C | 217-221°C | 227°C | 227°C |
| Flux J-STD 004 | M1 | L0 | L0 | M1 |
| Flux content | 3.5% | 3.5% | 3.5% | 3.5% |
| Weight | 500 gr | 500 gr | 500 gr | 500 gr |
| Diameter | Order-no. | Order-no. | Order-no. | Order-no. |
| 0,3 mm | T005 13 865 99 | T005 13 872 99 | | |
| 0,5 mm | T005 13 864 99 | T005 13 870 99 | T005 13 880 99 | T005 13 876 99 |
| 0,8 mm | T005 13 863 99 | T005 13 869 99 | T005 13 879 99 | T005 13 875 99 |
| 1,0 mm | T005 13 862 99 | T005 13 868 99 | T005 13 878 99 | T005 13 874 99 |
| 1,2 mm | T005 13 861 99 | T005 13 867 99 | T005 13 877 99 | T005 13 873 99 |
| 1,6 mm | T005 13 860 99 | T005 13 866 99 | | |

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