

WBT-0645 Safety-pin banana

The insulated banana plug for loudspeaker cables

WBT

WBT-0645 E

please open here

product specifications
overleaf

WBT

Made in Germany

Safety-pin banana WBT-0645

The insulated banana plug

specifically designed for loudspeaker cables

Pat. pend. 1 95 01 987.3
Int. pat. pend. 2 97 03 602.5

Design Pat. M 95 00 657.5
for cables up to 10 mm²

In the safety-pin banana WBT-0645, you have purchased a banana plug with all-round insulation, special design and additional safety pin which offers the modern hifi enthusiast an extremely high level of user comfort. The material, design and finishing of the WBT-0645 ensure first-rate transmission properties and lasting contact quality.

Additional contact resistances at various plug components are ruled out due to the consequent one-piece fabrication. The plug receives a particularly good electrical conductivity because of the special copper alloy it is made of.

In order to allow perfect connection of even larger cross sections, the WBT-0645 is designed for crimping. Cable customising and handling of the ready-made plug are absolutely simple and convenient.

Handling

Your WBT-0645 features a variable contact pin which is expanded by a spindle located in its centre. This way the plug can be locked into any pole terminal. The clamping mechanism is activated by simply turning the spindle. In comparison to conventional banana plugs, this clamping in the pole terminal causes a substantially higher contact pressure.

In order not to damage the contact lamellas make sure you only connect or disconnect the plug when it is in a freely moving position (the contact pin unexpanded). The safety pin coming out of the all-round insulation prevents from accidental insertion of the plug in a mains socket. Its position is such that it stays outside whenever the plug is inserted in a terminal.

Important:

To insure you enjoy your plug forever you should abstain from using contact cleansers. Their contents may cause damage to the insulators!

Bi-wiring/Cascade connection

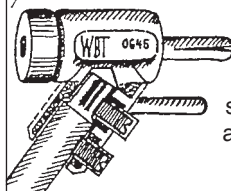
In case of bi-wiring you have the possibility to install your WBT-0645 in a cascade connection, i.e. one banana is in a position to receive another by the hole inside the spindle's head. When using this application it is recommended to turn the second plug a little to the left or right making the safety pin staying aside.

Cable termination: crimping

For terminating your WBT-0645 to a cable the crimping technique is recommended. Applying the crimping technique mounting your cable will not only be faster and easier, but you will also get more security as well as long-term stability in your connection. Since the conducting medium between cable and plug is not – as in the case of soldering – a mixture of lead and tin, but highly pure OFC copper, the contact resistances will be dramatically reduced.

Mounting and handling:

For a crimping termination you would only have to strip the cable as usual, slide on a suitable cable end sleeve and crimp the cable end by means of an appropriate crimping tool.



The crimped cable end will be fixed onto the plug by the front Torx* screw, the rear screw secures the cable sheath and ensures a perfect strain relief.

Crimping: some hints

Make sure you choose one of WBT's pure copper and 24 K gold plated cable end sleeves, or – in case you want to terminate silver cables – the appropriate silver versions.

- In order to achieve the best possible crimping result (a cold-welding bond) the sleeve should tightly fit to the cable cross section.
- When sliding the cable end sleeves onto the cable strands, avoid by all means to twist the strands: It complicates applying the sleeve since you would widen the cross section.
- The crimping pliers you use should provide a special bit for multi-mandrel pressure so that an 8 mm long connection piece can be achieved with one powerful squeeze.

More crimping details are available through our website www.wbt.de

Safety note: The banana plug WBT-0645 is only approved for use in the low-voltage range. Its pat. pend. safety pin prevents accidental insertion of the plug in a mains socket.

WBT GmbH assumes no liability for incorrect use.

In order to avoid the risk of injury and impairment of the functional properties of the plug, you should never completely unscrew the spindle.

Accessories/Recommended tools:



WBT offers a wide range of crimping accessories: gold-plated cable sleeves made of highly conductive electrolyte copper (E-Cu with purity > 99.996%) in all standard sizes from 0.5 to 16 mm² (22-5 AWG), special crimping pliers for the above requirements, and a complete crimping set for beginners.

WBT-0403 crimping pliers/WBT-0411 crimping set.



A special bonus for those who appreciate precision tools: the torque screwdriver WBT-0481. In machine construction quality,

with high-grade finish and precise turning moment. Factory-set to 0.5 Nm. With 18-piece set containing different bits made of hardened steel. The bits are also available separately. Simply send in for our info brochure!

* Torx is a registered trademark of Camcar Textron, USA.
WBT is a registered trademark of WBT Germany.

Detailed product information available.
Design and specifications subject to change without notice.

© WBT-Distribution GmbH · Im Teelbruch 103 · 45219 Essen · Germany
Tel.: +49 (0) 2054 87 552-0 · Fax: +49 (0) 2054 87 552-22
e-mail: info@wbt.de · Internet: www.wbt.de