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## AS 4051.195

# Wire Terminal WT L fully automated wire processing machine

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CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# AS 4051.195 - Wire Terminal WT L fully automated wire processing machine

The Wire Terminal WT L10 T fully automated wire processing machine can process wire cross-sections ranging from 0.5–6 mm<sup>2</sup>. This includes length-cutting, insulation-stripping, crimping and project-specific labelling of the wires. The pre-assembled wires are made available by the Wire Handling System (WHS). The WHS is a fully automated wire distribution system. Wires that have been manufactured just-in-time in the Wire Terminal WT are delivered sequentially to a maximum of four wiring workstations using compressed air.



## Features

Model No.	AS 4051.195
Design	WT L10 T Wire Terminal (Wire Handling System)
Product description	The Wire Terminal WT L10 T fully automated wire processing machine can process wire cross-sections ranging from 0.5–6 mm <sup>2</sup> . This includes length-cutting, insulation-stripping, crimping and project-specific labelling of the wires. The pre-assembled wires are made available by the Wire Handling System (WHS). The WHS is a fully automated wire distribution system. Wires that have been manufactured just-in-time in the Wire Terminal WT are delivered sequentially to a maximum of four wiring workstations using compressed air.

# Features

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## Benefits

Fully interlinked, from the E-CAD tool through to the production processes  
Continuous top quality  
Assembled wires from the wire rail system, chain bundle or wire handling system may be processed in the downstream enclosure wiring process using the "Smart Wiring" tool from Eplan  
Comprehensive process optimisation  
Simple, fast changeover of consumable materials  
Uses a new-technology crimper for various wire end ferrule lengths from 8-18 mm, including infinitely variable partial and full stripping.  
Secure wire infeed via a new type of wire routing system including quick-lock mechanism  
Simple operation with large 24" touch display  
Allows you to respond quickly and flexibly to project changes  
Error minimisation even in downstream processes  
Amortisation period of 2.5 years from a minimum of 150 enclosures per annum  
Make your wire assembly production process 11 times faster  
Up to 50% time savings are achievable with a combination of the Rittal Wire Terminal and Eplan smart wiring  
Optimum, order-specific labelling of the wires

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## Technical specifications

10 wire end ferrule infeeds via feeder bowls  
Crimping range 0.5 mm<sup>2</sup>: Crimping length 8 mm (0.31 in.) and 10 mm (0.39 in.)  
Crimping range 0.75 mm<sup>2</sup>: Crimping length 8 mm (0.31 in.), 10 mm (0.39 in.) and 12 mm (0.47 in.)  
Crimping range 1 mm<sup>2</sup>: Crimping length 8 mm (0.31 in.), 10 mm (0.39 in.) and 12 mm (0.47 in.)  
Crimping range 1.5 mm<sup>2</sup>: Crimping length 8 mm (0.31 in.), 10 mm (0.39 in.), 12 mm (0.47 in.) und 18 mm (0.71 in.)  
Crimping range 2.5 mm<sup>2</sup>: Crimping length 8 mm (0.31 in.), 12 mm (0.47 in.) and 18 mm (0.71 in.)  
Crimping range 4 mm<sup>2</sup>: Crimping length 10 mm (0.39 in.), 12 mm (0.47 in.) and 18 mm (0.71 in.)  
Crimping range 6 mm<sup>2</sup>: Crimping length 12 mm (0.47 in.) and 18 mm (0.71 in.)  
The Wire Terminal WT L can process wire lengths from 150 mm to 10 m  
The WT L Wire Terminal can accommodate one wire infeed block.  
Wire output via the integral Wire Handling System

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# Features

Supply includes	Machine frame and encapsulation Operating unit 1 x WT 16 vibratory bowl feeder for 0.5 mm <sup>2</sup> 3 x WT 20 vibratory bowl feeders for 0.75/1.0 mm <sup>2</sup> 3 x WT 29 vibratory bowl feeders for 1.5/2.5 mm <sup>2</sup> 3 x WT 43 vibratory bowl feeders for 4.0/6.0 mm <sup>2</sup> Wire distribution system for the wire handling system
Machinable material	Fine-wire copper cables to EN 60228 / VDE 0295 Category 5 Wire end ferrules with plastic collar to DIN 46228-4 and Multinorm
Note	Please talk to your Rittal sales consultant about a bespoke machine configuration. German and English are included as standard with the Wire Terminal The vibratory bowl feeders and the separation of single wire end ferrules are designed for the dimensional tolerances of Rittal wire end ferrules to DIN 46228-4:2019-02. If the wire end ferrules used exceed the defined dimension tolerances, it may be necessary to design/test a new bowl feeder and to adapt the wire end ferrule separation. We reserve the right to make technical modifications
Machine options	Wire store WT Tube 12 (4051.218) WT printer IQ.JET, black 4051281 WT printer IQ.JET, white 4051280
Interfaces	Eplan Pro Panel Eplan Smart Wiring
Compressed air supply min.	5.5 bar
Compressed air supply max.	6 bar
Rated operating voltage	230 V, 1~, 50 Hz/60 Hz
Control voltage (DC)	24 V
Power consumption (approx.)	1 kW
Cycle time	11 s
Wires per hour approx.	320
Support area	Width: 2,170 mm Height: 1,870 mm Depth: 1,080 mm

# Features

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Customs tariff number	84633000
ETIM 8	EC000000
ECLASS 8.0	18129090
Product description	Wire Terminal WT L10 T fully automated wire processing machine (wire feeder unit for the Wire Handling System)