

- I CONNECTORS
- I CASES
- I HEATSINKS
- I HARNESS PRODUCTION
- I CABLES & CABLE PROCESSING SYSTEMS

RELIABLE CONNECTION **SYSTEMS**

MICRODIS with over 30 years of experience **ELECTRONICS** in sales of electromechanical components, Microdis Electronics provides customers with deep knowledge and application support.

> In-house harness production for small and medium projects allows us to support our partners with customised solutions fitted just to their needs.

We also fulfill the needs of our customers concerning the equipment needed for harness production.

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CABLING SOLUTIONS FOR Automotive & Home appliances

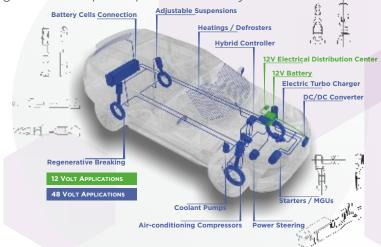
LEAR CORPORATION TERMINALS & CONNECTORS



Lear's product portfolio includes standard and custom terminal & connector systems, with capability ranging from signal to high power. Lear experience in integrating terminal & connector solutions throughout the vehicle's electrical distribution system allows for maximum reliability while reducing cost.

Lear's capabilities cover the complete value chain—from advanced research and development, through tooling construction, to extensive manufacturing expertise, allowing Lear to shorten the product and process development cycle.

From patents filed to finished product, Lear continues to commit its resources to the development of the industry's most technically advanced terminals & connectors. Lear's focus remains on developing and manufacturing high performance, ultra-compact, cost-effective systems, engineered for optimal performance anywhere in the vehicle.



MANUFACTURERS' PRODUCTS

LEAR MAIN PORTFOLIO

- I Leaf spring connection systems
- I Pin and socket round connection systems
- I Secure contact systems
- I Flat fuse connection systems

SAVOY MAIN PORTFOLIO

- I Chain terminals 2.8-4.8-6.3-7.7-9.3 mm
- I Ring tongue and other solderless terminals and splices

JST MAIN PORTFOLIO

- I Wire to PCB connectors
- IPCB to PCB connectors
- I Wire to wire connectors
- I Solderless terminals and splices
- I Flat ribbon cables
- I Control cables
- I Stranded wires



SAVOY TECHNOLOGY



Savoy Technology is the specialist stamping company of the multi-national group Savoy International. In operation since 1961, Savoy Technology is a supplier of high quality and high performance connectors for automotive market and industries.

Savoy Technology designs, produces and supplies the complete range of connectors and hundreds of other special assembly parts.

With more than 45 years in skill design, manufacturing and stamping of innovating electrical connectors, Savoy Technology is an significant supplier for the automotive market.

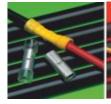
Savoy Technology designs and manufactures a multitude of products ranging from the most basic to the most complex electrical connectors, like hermaphrodite sliding terminals with the highest level of quality.

JAPAN SOLDERLESS TERMINALS - JST



J.S.T is one of the worlds largest manufacturers of electrical and electronic connectors. The first products were loose piece terminals, which were introduced into the market in 1957.

Today, JST is a manufacturer of the most reliable, most technologically advanced and cost-efficient electromechanical components.







CABLING SOLUTIONS FOR Industry, Defence, Medicine

FISCHER CONNECTORS



Fischer Connectors has been designing, manufacturing and distributing high performance connectors and cable assembly solutions for 60 years. Fischer Connectors connectors are known for their reliability, precision and resistance to demanding and harsh environments.

Fischer Connectors' products are commonly used in fields requiring faultless quality, such as: medical equipment, industrial instrumentation, measuring and testing devices, broadcast, telecommunication and defence.

Primary design and manufacturing facilities are located in Saint-Prex, Switzerland.

60+ YEARS OF EXPERTISE, RELIABILITY, INNOVATION



EXPERTISE

GUIDING YOU FROM CONCEPT TO DELIVERY

- I Sustainable supply chain efficiency
- I Performance via lean manufacturing
- I Process control & continuous improvement

RELIABILITY

GETTING YOU WHERE YOU WANT TO BE

- I Products: delivering quality over time
- I Service: ensuring on-time deliveries
- I Support: responding quickly to your requests

INNOVATION

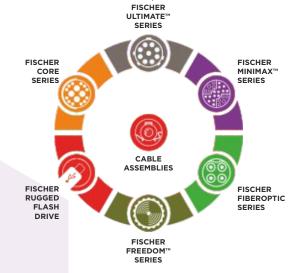
HELPING YOU WORK SMARTER

- I Technology that speeds up production & delivery
- I Solutions that help you overcome your challenges
- I Customer-first approach that saves you time & money



CHOOSE FROM MORE THAN 30.000 CONFIGURATIONS THEN SELECT THE CABLE YOU NEED FOR YOUR APPLICATION

To date, Fischer Connectors has placed expertise with more than 30.000 references across five product families:



A PIONEER IN CONNECTOR TECHNOLOGY

Fischer Connectors has been keeping the spirit of innovation alive for over sixty years. Breakthrough technologies, high quality products and laser-focused customer culture has helped customers design reliable, innovate products and achieve business goals.

SOLVING CHALLENGES - AS UNIQUE AS YOU ARE

Turning your connectivity challenges into success stories:

- I Miniaturization & weight reduction
- I Data transmission: more & faster
- Extreme sealing & hermeticity
- I Complete solutions (connectors & cable assemblies)

COMPLETE SOLUTIONS, ENGINEERING SUPPORT, RAPID DELIVERY

- Vertically integrated solutions (connectors, components, cables and assembly)
- I Expertise in design, manufacture & test assemblies
- Fast prototyping & production
- I High quality guaranteed in low & high volume projects



Any size Any configuration Any application

- I Fully configurable to fulfill each of your
- I High sealing performances for vacuum & underwater applications

 I High temperature & chemical resistance
- I Connectors and / or cable solutions



Rugged Compact Lightweight I 360 degree EMC shielding I High corrosion resistance I 10.000 mating cycles

FISCHER FREEDOM™ SERIES



Easy Mating Easy Cleaning **Easy Integration**

- I Breakthrough plug & use connectivity 1360 degree mating freedom & optimized cable management
- I Non-magnetic ball locking with variable force
 I IP68 sealed to -20m/24h
 I Low profile, right-angled plug



4 то 24 CONTACTS

High-density miniaturization High-speed data transfer Reliability I Miniature and lightweight

I Designed and tested for high-speed protocols I IP68 watertight down to 20m

FISCHER FIBEROPTIC SERIES



Robust **High Performance Easy Cleaning**

A pre-cabled solution ideal for:

I Fautless optic performance I Indoor, outdoor & extreme applications
I Up to IP67 (unmated) / IP68 (mated)

















Locking	Push-pull Quick-release / Friction	Push-pull Quick-release	Push-pull	Push-pull Screw-locking Quick-release	
Shell material	Chromium / Plated brass	Brass / Aluminum	Brass	Brass / PEEK ongoing test	
Plug Ø [mm]	9-34	12-29	24	12.9	
Number of contacts	1 to 55	2 to 42	1 to 4 fibers / Hybrid 2+2	4 to 24	
Contact type	Low voltage / High voltage	Low voltage	Fiber optic / Low voltage	Low voltage	
Test voltage DC [kV]	Up to 50	Up to 2.5	Up to 2.8	Up to 1.5	
Current rating [A]	Up to 60	Up to 9.2	Up to 10	Up to 5.0	
Contact termination	Crimp / Solder / PCB	Crimp / Solder / PCB	Solder Solder / PCE		
Sealing level	IP68/69 / Hermetic	IP68/69 / Hermetic	IP67/68	IP68	
Mating cycles	10,000	10,000	1,000	5,000	
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PLASTIC ENCLOSURES

PERFORMANCE ENGINEERED ENCLOSURES

CamdenBoss has over 440 designs, sizes and styles of enclosures to satisfy todays competitive market, where functionality, price, aesthetics and ergonomics are all driving demands.

In addition to extensive range of standard injection moulded, die-cast and sheet-metal enclosures, Camdenboss has manufacturing and assembly facilities enabling offering bespoke designed Tool-Free Custom-Design enclosures from flat-sheet plastic, full customisation of standard ranges and complete turnkey enclosure and assembly solutions.

PRODUCTS

I Universal enclosures

I Heavy duty enclosures

I Interface supports

I Diecast & metal boxes

I Potting boxes

119" subracks

I Hand held cases

I Din-Rail boxes

I Control stations

I Desktop & instrument cases

119" enclosures

CUSTOM DESIGNED ENCLOSURES

Custom Enclosures with Flat-Sheet Plastic Technology - No Tooling!

CamdenBoss develops and manufactures enclosures to your specifications using Flat Sheet Plastic Technology.

Combining years of engineering expertise, precision machining & innovative assembly techniques; any concept can be manufactured to your exact size and specification. CamdenBoss unique is ideally suited for low to medium batch quantities – from the most simple to the most complex of enclosures.

Advantages:

I Rapid Lead Times

I 1-3 weeks prototyping

13 - 4 weeks volume productions

I Creative - industrial designers, technical sales & CAD/CAM engineers at your disposal

I Inexpensive - No Tooling Charge

Low design and set-up costs

I Competitive unit pricing

Any Quantities

I From low batch runs of 5 to high volume 5000+ production runs

I Flexible - make changes to the design quickly & easily after prototyping or after production





CUSTOMIZATION CAPABILITIES

- I Machining: milling, drilling, cutting and countersinking etc.
- I Surface coating and RFI shielding
- I Printing and engraving
- I Materials: bespoke colours, material types and flammability

Basic Construction Method

Basic Construction







Complex Construction Method Complex Construction

Day 1

Week 1

Week 2-3







ALUMINIUM ENCLOSURES AND HEATSINKS

CASES

I Miniature aluminium cases

I Design cases

I Combination cases

I Tube cases

I Desk consoles and shell cases





THERMAL MANAGEMENT

I Machined extruded heatsinks

I Extruded heatsinks with solder pin

I Heatsinks and fan coolers for processors

I Lamella heatsinks

I Finger shaped and small heatsinks

I Cooling aggregates

I Thermal interface materials



SERVICES

Precision Machining

Fischer Elektronik offers a wide range of processing options, especially for decorative applications. All standard cooling heatsinks and cases and also special front and



cover plates can be manufactured to suit customers' requirements in terms of decorative design.

CNC machining centres and automatic machines are used to ensure optimum processing quality.

Components receive mechanical surface treatment in preparation for anodizing or galvanic coating such as chromium or gold, consisting of sandblasting, grinding and polishing.



Powder Coating

For the safe use of electronic casings under difficult ambient conditions where anodized or painted casing surfaces are no longer sufficient, first-class surface coating is required.



In addition to its standard product range, Fischer Elektronik offers robust and invulnerable powder coatings. In addition to colour and structural options for individual surface designs, powder coatings offer excellent resistance to scratches, abrasion and shocks and provide outstanding protection against corrosion and chemicals as well as good electrical insulation.

Other important features include a long service life, highlight fastness and a base material which is environmentally friendly, as the powder contains neither heavy metals nor solvents.

Screen printing & Laser lettering

For optical identification of milling Fischer use screen printing or YAG-lasers.

Espacially laser inscriptions are of outstanding quality and ensure good, permanent legibility, even in the case of letter sizes below 1mm and under the influence of solvents.











CABLING SOLUTIONS FOR Networks



We realize ideas

CABLING SOLUTIONS IN THE COPPER AND FIBER OPTIC TECHNIQUES FOR BUILDING AND INDUSTRIAL CABLING APPLICATIONS

The growing demand for data transmission volumes requires an ever stronger performance and continuity of underlying data networks. Today, IT-technologies are used in a multitude of applications in buildings, date centers and industrial plants. Anticipatory and intelligent cabling systems that spanningly connect several segments must therefore match perfectly in order to guarantee a sustainable, safe and continuous form of communications

All this is guaranteed by the Metz Connect range of P|Cabling products: Highly specialized, internationally standardized and high-performance connection components in copper and fiber optic technology stand out by their quality and strong system compatibility.



Office fiber optic

I Office RJ45

Industry fiber optic

I Industry RJ45

I Ethernet M12

Industry unequipped housings

I Data center solutions

I Assembled cables

Accessories



TERMINAL BLOCKS

SPRING CLAMP TERMINAL BLOCKS

- I Solderable
- I Pluggable
- I Compression-mount
- I For solid wires and multi-stranded wires
- I Nominal cross section of 0.08 2.5 mm²
- I Centerline 2.5 10mm

SCREW-TYPE TERMINAL BLOCKS

- I Solderable
- I Pluggable
- I Single poles
- I For solid wires and multi-stranded wires
- I Centerline 3.5 10.16 mm

IDC TYPE TERMINAL BLOCKS

I Solderable

■ Centerline 3.5 - 10.16 mm

ADVANTAGES

Solderable

E-DAT Industry RJ45 field inser

I Complete range for different installation requirements

E-DAT Industry RJ45 housing

- A variety of connecting technologies
- Additional product designs (operating options, mounting flanges etc.)
- I Solutions for different connection cross-sections
- Color variants at customer request
- I Varying number of poles
- I Codeability
- Customer-specific adaptations possible



We realize ideas

C6,, RJ45 field plug pro







PCB LEVEL CONNECTORS



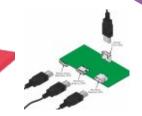
USB 2.0 & 3.x connectors

I USB C
I Micro USB

I Mini USB

I Full size USB

I A, B, AB types



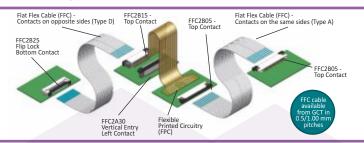
FFC connectors & cables

I 0.3, 0.5, 1.0 mm pitch

I Side or top entry

I Top or bottom contact

I Side or flip lock



Memory SD & uSD card connectors

- I Hinged
- I Push-push
- I Push-pull

SIM card connectors

- I Hinged
- I Push-push
- **I** Retainer
- I Dual SIM



Modular Jack connectors

- I 4-8 positions
- I 4-8 positions loaded
- I Right angle or vertical
- I THT or SMD style



Board-to-board connectors

I 0.8, 1.0, 1.27, 2.0, 2.54 mm pitch

- I Headers, elevated headers,
- sockets, elevated sockets
- I Horizontal, parallel, perpendicular
- I THT or SMD style





DC Power Jacks

I THT and SMD

I 0.65 mm, 2.00 mm, 2.35 mm & 2.50 mm center pin diameters

I Current ratings from 1.5 A to 8.0 A

I Shielded variations in both straight and right angle orientation

I Flat ribbon cables



fircher elektronik **5**3

I PCB connectors - male and female headers, contact strips I DIL, PGA, PLCC, transistor sockets

I IDC connectors male & female headers, one & two rows

I D-SUB connectors









Board to Board Connectors

I Centerline 1.27, 2.00, 2.54 mm

ISMD & THT

RJ45 & RJ11, RJ12 Jacks

I THT & SMD versions

I Shielded & unshielded

I Single & multiport

I With integrated magnetics and/or LED indicators

USB Jacks

I THT & SMD versions
I Type A, B & microB

M12 Jacks

ID coded or X coded types

I 4 or 8 pins

I THT or panel mounted

I Sealing level up to IP68





CABLES

Since 1987 the designated target of MEDI - Kabelhandels GmbH is to supply customers with cables and wires at the highest quality level. The companys' aim is to provide solutions for all requirements, with business and technical advice as well as training from development to serial production.

With partners worldwide, MEDI-Kabel can satisfy customers' needs and requirements with competence and effectiveness. The manufacturer is capable of offering a wide range of products in wide temperature-ranges, mechanical and electrical requirements as well as different approvals (VDE, HAR, UL, CSA, MIL etc.). A modern high-level rack with 1500 pallets capacity and more than 5000 cable and wire types available enables MEDI-Kabel to cover most of customers' requirements in short time, even special customized cables with small minimum order quantities.





INTERCONNECTING WIRES AND FLEXIBLE LEADS

I Insulation: PVC/PE/TPE/Silicone/PP/PA Tefzel/Teflon/PUR/Glass filament/EVA etc. I Temperature range: -200 to 1200 °C halogen- free/flame resistant/lead free I VDE/UL/CSA/MIL approvals, DIN standards I Single, multiple, fine, ultra-fine wire / single, double, triple coloured

FLAT CIRCULAR CONDUCTORS

IUL / CSA approval

DATA AND COMMUNICATION TECHNOLOGY

I Optical fiber technology (patch cable / connection technology)

I Optical fiber cables

I Plug-in connectors and systems

I Splice boxes

I Trunk cables

I Copper wiring systems

RIBBON CABLES AND TWIN CONDUCTORS

All grid sizes / single & multi coloured I Solid or flexible - screened

DATA AND CONTROL CABLES, **POWER CABLES**

I Screened / unscreened

I Insulation: PVC/PE/PUR/Silicone/Teflon

Approvals: UL/CSA/MIL/VDE

I Customer-specific manufacture from

500m

ACCESSORIES

I Shrink tubing

I Insulation tubing

I Cable testing systems

I Cable protection systems

I Spiral cables (from 1 cable)

XTRA CABLES FOR INTERNATIONAL USE **Xtra BASIC**

This standard cable is suitable for systems and equipment which have been designed for export.

Xtra ECO

A halogen-free single core with UL/cUL

and HAR approval. Suitable for most industrialized coutries of the world and immediately stocked as standard.

Xtra HEAT

A high temperature resistant cable in VDE quality. Available immediately with UL/cUL approval at no extra charge.



Xtra BASIC UL/CSA/HAR/MTW/AWM Wire Style 1015

Cable: Tinned copper according to EN 13602 Cable insulation: Special PVC Marking Printing and label



Xtra ECO UL/cUL/HAR/VDE Wire Style 3578

Cable:

Copper blank according to EN 13602 Marking:

Printing and label Core insulation: Cross-linked halogen free elastomer compound

Xtra HEAT UL/cUL/VDE Wire Style 3672

Cable: Core insulation: Marking

Tinned copper according to EN 13602 Silicone in VDE quality Printing and label

Technical Data

Test voltage: 3000 V UL/CSA: 600V - 105 °C

600V - 90 °C 300/500 V - 90 °C (H05V2-K) 450/750 V - 90 °C (H07V2-K)

Certifications



Technical Data

Test voltage: 3000 V 600 V - 105 °C HAR/VDE: 300/500 V - 90 °C (H05Z-K) 450/750 V - 90 °C (H07Z-K)



Technical Data

Test voltage: 2000 V UL/cUL: 300 V - 150 °C VDE: 300/300 V - 180 °C (0,75 mm²: N2GFAF)

Certifications



HARNESS PRODUCTION

IN-HOUSE PRODUCTION OF HARNESSES

based on all typical connectors in the full (with continuous control of crimping parameters CFA) and half – automatic process



I Pull force measurement

I Processing of FBL / FFC flat cables with IDC connectors and electronic quality control

Application of IDC connectors with single-core cables in the half automatic process

I Crimping of insulated and uninsulated connectors

I Processing of multi-wire signal cables (stripping, crimping, tinning) - up to OD = 6.0 mm

I Soldering of cables to the PCBs

I Tinning of wires (automatic or manual)

I Shrinking of heat shrink sleeves

I Assembling



CABLE PROCESSING SYSTEMS

APPLICATORS AND DIES



Ricardo & Barbosa - Portuguese company, located in PORTO, established in 1978, as manufacturer of spare parts for molds and tools for the semiconductor industry, electrical wiring for the automotive industry as well as precision mechanical parts for space & aero industry, working on big numbers of multi-axial CNC machines with wide range different materials. Certified by basic ISO, as well as dedicated certifications for automotive and space industry. With two production facilities in Portugal and Mexico and distribution in several countries.

R&B' main products in wire harness division are dedicated tools for crimping, like standard applicators for all kind of reeled terminals and connectors, as well as special dies for lose parts, removal tools and spare parts for applicators, produced on demand in very short time, using multi-axial CNC machines.



APPLICATORS, DIES AND PRESSES



MECAL SrI - italian company, established in 1976, with the aim of supplying the wire harness industry with the best crimping equipment. Their leading products like applicators and presses are extensively used by the automotive, communication and IT industry, and wherever a high quality connection is needed.

MECALS CRIMPING MACHINES PORTFOLIO

- I Mechanical applicators for crimping of reeled terminals with cross-sections up to 25 mm²
- I Dies for crimping of loose terminals up to 75 mm²
- I Special applicators for crimping of IDC-rast connectors (pin by pin)
- I 4 Points Crimp Applicator, designed to crimp loose End Sleeve (Tube) Terminals up to 25 mm²
- I Electromechanical presses with a crimping force: 1.5 20 T
- I Production process analyzers CFA I Pull force measurement devices I Mini laboratories for micrography

Product ID: MRS Crimping height Stroke Terminal pitch Terminal thickness Wire section APPLICATOR 135.8 mm (5.346") 40/30 mm (1.575/1.18") <27 mm (<1.06") <1.2 mm (<0.047") max. 10 mm²



FEATURED PRODUCT

Heavy-duty big cross-section dies

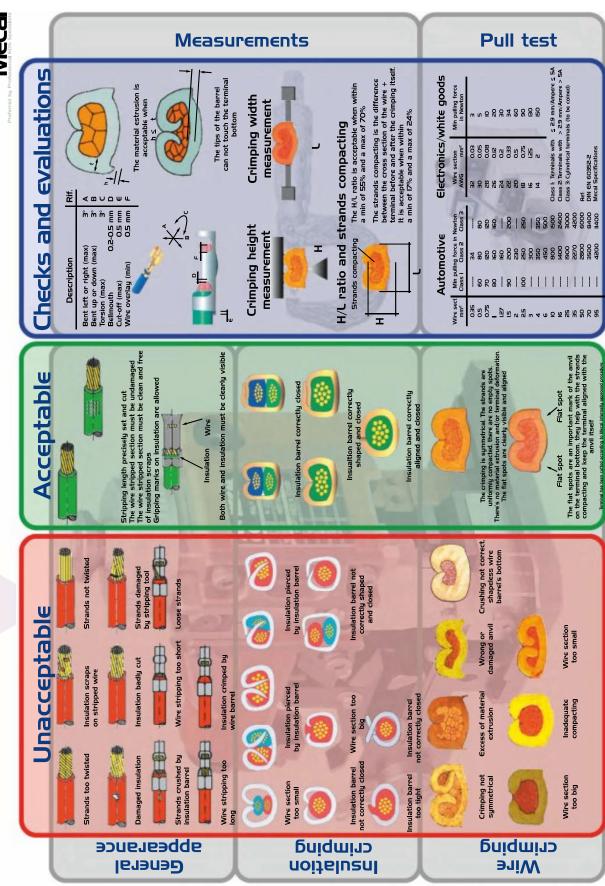


MECHANICAL PRESSES WITH CRIMPING FORCE FROM 2 TO 22 TONS



MECAL GUIDE TO QUALITY CRIMPING

The following information is referred to standard crimping



Specifications subject to change. Consult Mecal s.r.l. for latest specification

www.mecal.net

CABLE PROCESSING SYSTEMS

PROFESSIONAL HAND TOOLS

WEZAG®

for crimping of single terminals and cable ends, tools for cutting of power cables

WEZAG, German company, founded in 1949. One of the worldwide leading manufacturers of hand tools.



Separately delivered and terminal dedicated dies: CS30 system for crimping various types of contacts / terminals and universal handles.

It's possible to use the same dies with WDT machines for crimping in half automatic cycles.



PNEUMATIC AND HYDRAULIC PRESSES

Swiss WDT company (owned by WEZAG) is a strong supplier of pneumatic solutions for crimping of big cross section loose plugs. WDT-presses with or without special adapters can work together with the same WEZAG-dies that are dedicated to CS or CK systems.









		UP15 Electric	UP14 Pneumatic	UP14ZLW Pneumatic	SSC Pneumatic	UP35 Pneumatic
	Max. Crimp Force	15 kN (3372 lbf)	14 kN at 6 bar (3147 lbf at 87 psi)	14 kN at 6 bar (3147 lbf at 87 psi)	20 kN at 6 bar (4496 lbf at 87 psi)	20 kN at 6 bar (4496 lbf at 87 psi)
	Dimensions	440 x 265 x 170 mm (17.3 x 10.4 x 6.7 inch)	320 x 135 x 260 mm (12.6 x 5.3 x 10.2 inch)	335 x 135 x 260 mm (13.2 x 5.3 x 10.2 inch)	385 x 180 x 480 mm (15.15 x 7.1 x 18.9 inch)	385 x 180 x 480 mm (15.15 x 7.1 x 18.9 inch)
	Approx. Weight	10.5 kg (23.1 lbs)	14 kg (31 lbs)	14.5 kg (32 lbs)	22 kg (48.5 lbs)	20 kg (44.1 lbs)
	Noise Level	70 dB(A)	73 dB(A)	73 dB(A)	62 dB(A)	62 dB(A)
	Max. Air Pressure	-	6 bar / 87 psi	6 bar / 87 psi	6 bar / 87 psi	6 bar / 87 psi
	Air Consumption	-	4.8 l per stroke	4.8 l per stroke	4.2 I per stroke	4.2 I per stroke
	Electrical Connection	115 / 230 VAC 50 - 60 Hz	-	-	-	-
	Electrical Connection (Light source)	-	-	-	Plug-in power supply 12 Volt with change adapter EU / US / UK / AU	Plug-in power supply 12 Volt with change adapter EU / US / UK / AU
	Other Features	+ Piece & batch counter + Use of CSV10 tool heads	Economical entry into machine processing CS30-dies from hand tool can be used without adapter	Linear working machine for automotive	Linear working machine for automotive Safe crimping machine No hands in crimping	+ 8-indent processing possible



Dies and adapters for UP presses

I CS dies I CSV10 heads I U dies I EHC dies

More dies and adapters available for almost all loose piece applications. Customised development according to specifications.



Insulation Crimping Tool

CABLE BST

The new blade design enables an exact cutting of the insulation of each stranded and solid wire with insulation of 0.03 to 16.0 mm².

High tool stability thanks to glass fiber polyamid, cutting and stripping area made of high-strength steel.









+ Internal Hydraulic Pump



			, 	
UP35BA	UP40	UP60	UP65	UP150
Pneumatic	Electro-Pneumatic	Pneumatic	Hydraulic	Hydraulic
20 kN at 6 bar (4496 lbf at 87 psi)	40 kN at 6 bar (8892 lbf at 87 psi)	60 kN at 6 bar (13488.5 lbf at 87 psi)	150 kN (33721 lbf)	150 kN (33721 lbf)
380 x 225 x 480 mm (15.15 x 8.9 x 18.9 inch)	550 x 310 x 560 mm (21.65 x 12.2 x 22.05 inch)	545 x 260 x 555 mm (21.5 x 10.2 x 21.85 inch)	595 x 245 x 625 mm (23.4 x 9.65 x 24.6 inch)	695 x 245 x 660 mm (27.4 x 9.65 x 26 inch)
20 kg (44.1 lbs)	45 kg (99.2 lbs)	64.5 kg (142.2 lbs)	145 kg (320 lbs)	185 kg (408 lbs)
62 dB(A)	70 dB(A)	69 dB(A)	69 dB(A)	69 dB(A)
6 bar / 87 psi	6 bar / 87 psi	6 bar / 87 psi	max. 200 bar / 2901 psi	max. 210 bar / 3046 psi
4.2 I per stroke	21 I per stroke	16 I (stroke of 10 mm) 52.5 I (stroke of 32 mm)	-	-
-	24 VDC min. 1.75 A Plug-in power supply 100 - 240 VAC with change adapter EU / US / UK / AU	-	230 VAC 50 Hz	110 - 230 VAC 50 - 60 Hz
Plug-in power supply 12 Volt with change adapter EU / US / UK / AU	-	Plug-in power supply 12 Volt with change adapter EU / US / UK / AU	-	
+ Contact holding function	+ 2 operating modes (with or without hold function) + Crimp force monitoring as an option available	Use of EHC & U-dies possible Crimp force monitoring as an option available Reduced return of stroke possible at small cross	+ Freely programmable Crimp Height / Return Height/ Pre Crimp Position + 30 Program Memory Locations	+ Freely programmable Crimp Height / Return Height/ Pre Crimp Position + Crimp Force Monitoring (CFM)

+ Reduced return of stroke possible at small cross sections

+ Internal Hydraulic Pump



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*Electromechanical Competence Center for France

Currently the Microdis Group employs over 100 people, with a large number of electronic engineers, mostly involved in sales and application support.

As a company with an extensive experience in the distribution of electronic components, and a purchasing center in Germany for many years, we are able to offer almost any product from a wide variety of electronic components. We offer also the production of cable harnesses and programming of crystal oscillators for a customised frequency. Cooperation with a catalogue distributor provides fast deliveries (2 days) of a wide range of catalogue products. We have certificates of quality management DIN EN ISO 9001:2015 for the distribution of electronic components.



AAEON AEGID ASROCK INDUSTRIAL **BRIGHTEK CAMDENBOSS EPSON**

FISCHER CONNECTORS FISCHER ELEKTRONIK **GERSYS** GLOBAL CONNECTOR TECHNOLOGY IIYAMA ISOCOM **JST** LEAR **MAXTENA** MECAL

MEDER MEDIKABEL METZ CONNECT NEOUSYS TECHNOLOGY NEXCOM NEXAIOT RICARDO & BARBOSA

RAKON SAVOY TECHNOLOGY SHARP/NEC TAIWAN SEMICONDUCTOR **U-BLOX**

Programmable oscillator web-shop Military, medical and industrial connectors Heatsinks, connectors, 19" and case technology Railway computers SIM-Holders, memory card connectors, USB connectors Large Format Displays Optocouplers, optoswitches Signal connectors Automotive and white goods connectors GPS, Galileo, Glonass, Iridium antennas Machines and systems for wire crimping Reed switches, sensors and relavs UL/CSA/DIN certified, customized industrial cables Terminal block connectors - screw, spring and pins Wide-temperature fanless computers Industrial computers and panels Industry 4.0 computer solutions Crimping tools like standard applicators and heavy duty dies for loose terminals Advanced Frequency control and Timing solutions Automotive and white goods connectors Displays & projectors Semiconductor devices Modules & services: GNSS, GSM, UMTS/HSPA/CDMA/LTE/NBIOT WWW.u-blox.com modules, WiFi, Bluetooth, NFC, antennas Hand tools for crimping, pneumatic presses

Interconnect components, electronic housings, 19" cabinets

Industrial computers and panels

RFID systems and transponders

3.5" & mini-ITX industrial boards

Power, THT and chip LEDs and LED modules

Crystals, oscillators, filters and sensors

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