Stripping

Stripping	Introduction	C.2
	Stripping and cutting tools	C.4
	Stripping tool	C.10
	Stripping tool for coaxial cable	C.12

Stripping

After a conductor has been cut it is then prepared for the next step or for crimping. For this purpose, a specific length of the conductor insulation has to be removed, while preventing damage to the conductor. The length of the conductor insulation to be removed depends on the terminal clamping point or the crimp to be processed.

Professional stripping tools guarantee perfect results due to precise adjustment of the tool to the corresponding insulation and the conductor cross-section.

Precision tools by Weidmüller guarantee that the user will always obtain consistent, reliable stripping results.

“Stripping” means the cutting and removal of the insulation. The following must be ensured in performing this task.

The stripping dimension must be observed and neither the conductor nor the remaining insulation must be damaged.

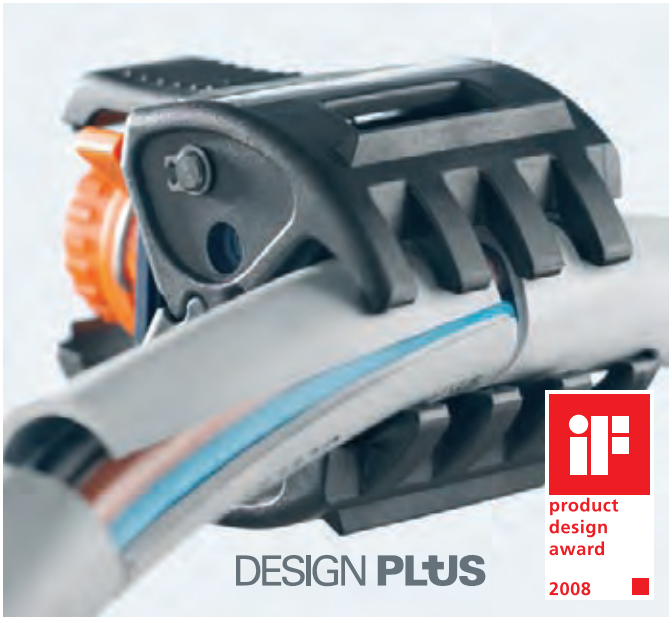
To avoid mistakes, use a stripping tool matched to the insulation and cross-section of the conductor.

Do not use work knives or penknives because the stripping quality when using such tools depends entirely on the manual dexterity of the user. The quality is not consistent, even when the user is highly skilled.

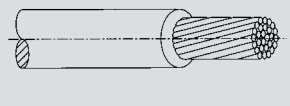
Preference should be given to hand-operated tools that adjust automatically to the corresponding cross-section of the conductor. They do not damage to the conductor during stripping and avoid faults.

stripax® stripping tools guarantee a consistent stripping result which complies with DIN regulations. The tools are rated for standard dimension PVC insulation. Any PVC insulation thicknesses deviating from normal can be set manually. The conductor stopper and integrated wire cutter allow highly versatile use of the tools.

Special insulation types such as Teflon, Silicone and Kapton require special stripping tools. These tools strip the conductor with punch blades.

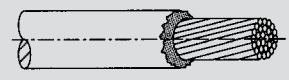


DIN IEC 60352 part 2 contains references to stripping faults which must be avoided:



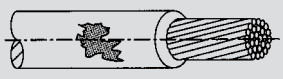
Correctly stripped conductor

Possible faults during stripping:

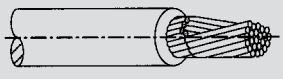


Insulation has not been cut properly

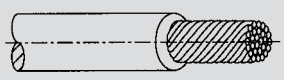
Remains of the conductor insulation are still to be found on the stripped conductor



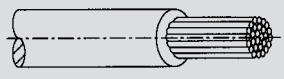
The conductor insulation has been damaged by the stripping tool



Single conductors have been damaged or cut off by the stripping tool



Single conductors have been twisted too tightly afterwards



Single conductors are no longer twisted.

Stripping and cutting tools

- for flexible and solid conductors with PVC insulation
- Cable with double insulation in two processing steps without special adjustment
- Automatic opening of clamping jaws after stripping
- No play in self-adjusting cutting unit
- Long-lasting
- No splicing of single conductors
- Optimised ergonomic design
- Stripping length adjustable via stop
- Adjustable for different insulation thicknesses
- switchable partial stripping function
- Removable handle shells
- Fold-out cutting protection
- Custom marking with ESG device markers

stripax®

0.08 - 10 mm²

- Stripping: PVC insulated flexible conductor, size 0.08...10 mm² (~AWG 28...7)
- Cutting: PVC insulated flexible conductor, size 0.08...6 mm² (~AWG 28...10)
- Conductors undamaged due to special self adjusting stripping blades.
- Processing of multi-conductors, with thin flat ribbon cables and even multiple conductors in one operation

stripax® 16

6 - 16 mm²

- Stripping: PVC insulated flexible and solid conductors (~AWG 10...6)
- Cutting: PVC insulated flexible and solid conductors, up to 6 mm² (AWG 10)
- Conductors undamaged due to special self adjusting stripping blades.

Technical data

Max. stripping performance		stripax®	stripax® 16
Cable type		Flexible and solid conductors with PVC insulation	Flexible and solid conductors with PVC insulation
Conductor cross-section	mm²	0.08...10	6...16
Stripping length, max.	mm	25	25
Cutting performance			
Max. cutting performance	mm²	6	6
Tool data			
Length	mm	190	190
Weight	g	175	175
Note			

Ordering data

Version	Type	Qty.	Order No.
	stripax®	1	**9005000000**
Note			

Type	Qty.	Order No.
stripax® 16	1	**9005610000**

Accessories

	Type	Qty.	Order No.
	Spare stripping blades	1	**1119030000**
Note			

Type	Qty.	Order No.
Spare stripping blades	1	**1119040000**

Stripping and cutting tool for conductors with special insulation Types for conductor diameters 0.2 … 1.21 mm (~ AWG 32 … 18)

- Flexible and solid conductors with PVC, Teflon (PTFE) and silicone insulation
- Special stripping blades do not damage the conductor
- No splicing of the single conductors
- Blade inserts can be easily replaced
- All inserts fit one housing

Mini-duro-stripax

Blade set

Technical data

		Mini-duro-stripax					
Max. stripping length		3–7					
Stripping diameter max. cutting performance	mm	2.2					
Tool data							
Length	mm	135					
Weight	g	110					
Selection of blade sets							
	Colour blade set	white	yellow	red	green	blue	black
	Conductor diameter mm (min./max.)	0.3–1.3	0.2–0.3	0.3–0.5	0.55–0.8	0.88–0.92	1.0–1.21
	AWG	28 …18	32/1, 32/7, 30/1, 30/7	28/1, 28/7, 28/19, 26/1, 26/7, 26/19, 24/1	24/7, 24/19, 22/1, 22/7, 22/19, 20/1	20/7, 20/19	18/1, 18/7, 18/19
	mm^2	≈ 0.08 ... 1.0					
	Insulation material	PVC / silicone	PTFE	PTFE	PTFE	PTFE	PTFE
Information							

Ordering data

Tools with blade set	**Order No.**	**Order No.**	**Order No.**	**Order No.**	**Order No.**	**Order No.**
	9001280000	**9003700000**	**9003710000**	**9003720000**	**9003730000**	**9003740000**
Tool with all blade sets	**Order No.**					
	9003500000					

Accessories

	Order No.	**Order No.**	**Order No.**	**Order No.**	**Order No.**	**Order No.**
Blade set	**9006970000**	**9003600000**	**9003610000**	**9003620000**	**9003630000**	**9003640000**
Set of stripping blades (Mini Stripax up to April 2003)	**9001290000**					
Information						

multi-stripax®

Stripping is the name given to the cutting and removal of conductor insulation. When carrying out this task it must be guaranteed that the appropriate length of insulation is removed and that neither the conductor nor the remaining insulation are damaged in any way.

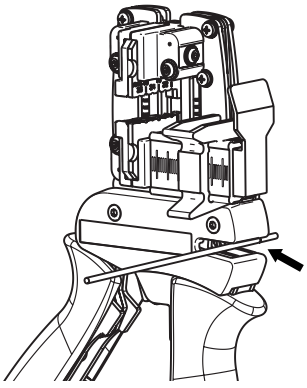
DIN IEC 352 part 2 (formerly DIN IEC 48/290) contains details of the stripping faults to avoid.

The challenge

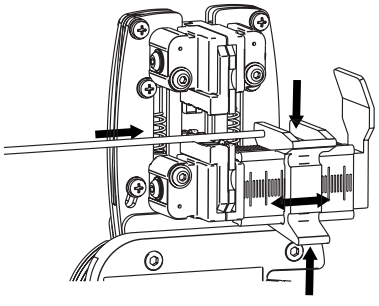
AWG lines	Fieldbus lines	Standardised conductors	Sensor and actuator lines	Cables for Rail industry	Cables for the aerospace industry

Bus applications	Power supply and distribution	Sensors and actuators in the field

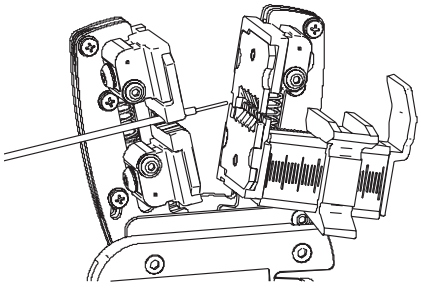
Cutting



Positioning



Stripping



multi-stripax®

Multifunctional stripping tool for use on a multitude of conductor insulation forms and configurations – even those not covered by the standard

multi-stripax® – the troubleshooter

- Interchangeable stripping units
- Proper stripping of any conductor – round, flat or special profiles – thanks to the specially shaped stripping blades
- Incorporates cutting function for up to 2.5 mm^2 solid and 6 mm^2 fine
- Non-fatiguing operation thanks to ergonomic design
- No damage to conductor or remaining insulation
- Good stripping results for industrial applications
- Stripping results reproduced accurately time and time again
- A long-lasting, reliable tool thanks to its robust design
- Plus, the customary Weidmüller repair service

Special stripping units – the answer to diverse stripping tasks

The multi-stripax® tool – distinguished by its robust design – was developed to handle all the stripping tasks met with in practice. Thanks to the interchangeable stripping units, a special solution can be found for every challenge in the marketplace.

The specially shaped stripping blades guarantee perfect stripping results. The guide plates ensure the correct positioning of the wire and therefore prevent damage to the remaining wire. The clamping jaws hold the conductor with just the right force during the stripping operation and are matched to the specific situation. This flexibility within the variables that affect the result of the stripping operation turns the multi-stripax® tool into a universal troubleshooter.

Stripping and cutting tools multi-stripax®

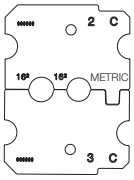
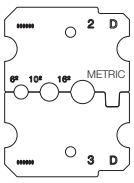
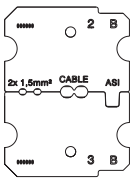
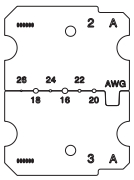
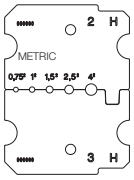
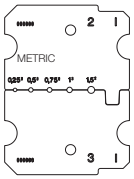
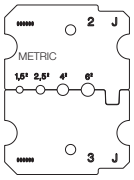
- Specially shaped stripping blades enable stripping of special types of insulation and conductor configurations
- High-quality stripping for industrial applications
- Stripping results reproduced accurately time and time again
- A long-lasting, reliable tool thanks to its robust design
- Optimised ergonomic design
- No damage to the conductor or insulation
- Highly flexible thanks to interchangeable stripping units
- Adjustable stop for setting stripping lengths from 2.3 to 30 mm
- The stripping length can be increased by repeating the stripping process.
- Integral cutting function for max. 2.5 mm² solid or 6 mm² flexible cables

multi-stripax®

Technical data

Cable type	PVC, Teflon, PTE, PUR, silicone, halogen-free
Conductor cross-section, min.	2 mm
Conductor cross-section, max.	no limit (in several steps)
max. cutting capacity, fine-strand	6 mm²
max. cutting capacity, solid	2.5 mm²
max. cutting capacity, ribbon	10.2 x 4 mm
Length/Width/Height	250 / 85 / 40 mm
Weight	250 g
Information	

Ordering data

Type	Conductor	Insulation	Shaped blade	Code	Qty.	Order No.
multi-stripax 16 SL stripping unit multi-stripax 16 SL	16 mm² Standard stranded	PVC		C	1 1	**9202220000** **9202270000**
multi-stripax 6-16 stripping unit multi-stripax 6-16	6 mm² 10 mm² 16 mm² solid stranded flexible	PVC		D	1 1	**9202210000** **9202260000**
multi-stripax ASI stripping unit multi-stripax ASI	ASI cable 1.5 mm²	PTE PUR EPDM		B	1 1	**9202250000** **9202300000**
multi-stripax AWG stripping unit multi-stripax AWG	AWG 26 AWG 24 AWG 22 AWG 20 AWG 18 AWG 16	PTFE PVC		A	1 1	**9202230000** **9202280000**
multi-stripax 0.75-4²SL stripping unit multi-spx 0.75-4²SL	0.75 mm² 1 mm² 1.5 mm² 2.5 mm² 4 mm²	PVC halogen-free		H	1 1	**9203610000** **9203730000**
multi-stripax 0.25-1.5S stripping unit M-SPX 0.25-1.5 S	0.25 mm² 0.5 mm² 0.75 mm² 1 mm² 1.5 mm²	PVC halogen-free		I	1 1	**9204540000** **9204550000**
multi-stripax 1.5-6.0S stripping unit M-SPX 1.5-6.0 S	1.5 mm² 2.5 mm² 4 mm² 6 mm²	PVC halogen-free		J	1 1	**9204560000** **9204570000**
Information						

Accessories

Type	Description	Qty.	Order No.
ERME MULTI-STRIPAX	cutting blade	1	**9203070000**
ERAN MULTI-STRIPAX	wire stop-set	1	**9203100000**
Information			

Sheathing strippers

• Sheathing stripper for round PVC cables

AM 25 / AM 35

AM 25: Ø 6...25 mm; AM 35: Ø 25...36 mm

• Pivoting blade for circular, longitudinal and spiral cuts
• Retaining clip with integrated blade to break open an incision in the insulation
• Integrated spare blade

AM 12

For UTP and STP data cables

• Cuts UTP and STP data cables and other flexible copper cables with a diameter of up to 4 mm² (~AWG11)
• Strips the outer insulation of UTP and STP data cables and other round cables with ø 0.5 ... 12.5 mm
• No damage to the shielding or conductor due to adjustable stripping blade
• Length end stop for repeated cutting or stripping lengths

Technical data

Max. stripping performance		AM 25	AM 35	AM 12
Cable type		PVC round cable	PVC round cable	UTP and STP data cables
Conductor cross-section	-			AWG 20...11
Conductor diameter	mm	6...25	25...36	0.5...12.5
Depth of cut		adjustable up to 4.5 mm	adjustable up to 4.5 mm	adjustable
Cutting performance				
UTP und STP data cables, max. diameter	-			8
Flexible (max. conductor cross-section)	-			4
Tool data				
Length	mm	135	140	97
Weight	g	135	135	36
Note				

Ordering data

Version	Type	Qty	Order No.
	AM 25	1	9001540000
	AM 35	1	9001080000
Note			

Type	Qty	Order No.
AM 12	1	9030060000

Accessories

	Type	Qty	Order No.
	Spare blades	2	9001530000
Note	Sheathing stripper		

Type	Qty	Order No.
Sheathing stripper		

Sheathing strippers

- Sheathing stripper for PVC cables
- Insulation can be stripped from any point along the cable
- Opening of slit insulation by means of integrated cutter

product design award 2008

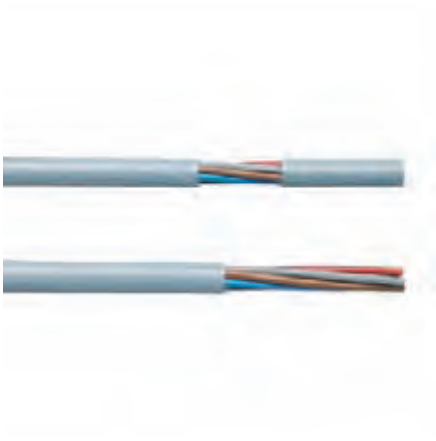
AM 16

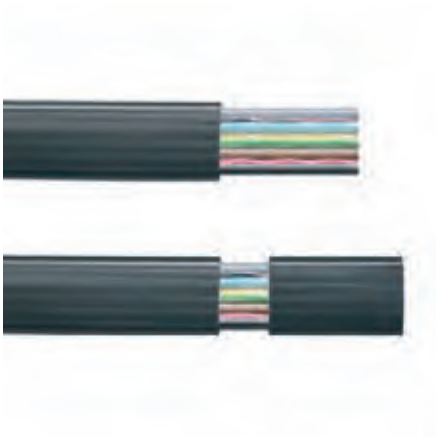
For round cable, Ø 6...17 mm

- Especially suitable for stripping cables in the cable duct, too

AMF 6/10

For ribbon cable, 6 mm² and 10 mm²





Technical data

Max. stripping performance		AM 16	AMF 6/10
Cable type		PVC round cable	PVC ribbon cable
Conductor cross-section	-		
Conductor diameter	mm	6...17	
Depth of cut		0.8 - 2.5 mm	0 - 4.0 mm
Cutting performance			
UTP und STP data cables, max. diameter	mm		
Flexible (max. conductor cross-section)	mm²		
Tool data			
Length	mm	53	110
Weight	g	60	115
Note			

Ordering data

Version	Type	Qty	Order No.	Type	Qty	Order No.
	AM 16	1	9204190000	AMF 6/10	1	9204180000
Note						

Accessories

	Type	Qty	Order No.	Type	Qty	Order No.
	Spare blade	1	9204260000	Spare blade	1	9204250000
Note	Sheathing stripper			Sheathing stripper		

Stripping tool for coaxial cable

Sheathing strippers for coaxial cable

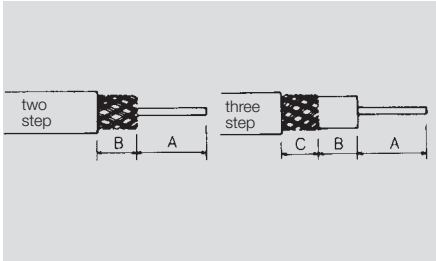
- For coaxial cable and round (shielded) data cables from 2.5 to 8mm diameter
- 1-, 2- and 3-level stripping in one step
- Fast changeover to other cable types thanks to adjustable interchangeable screw holder
- Colour-coded replaceable cassettes with preset stripping lengths for standard coax cable. Refer to the table.
- Setting block (included) permits quick presetting of cutting depths
- Blade cassettes can be used on both sides

CST / IE-CST

ø 2.5...8 mm

- RG 58 and RG 71
- RG 59 and RG 62
- Antenna cable
- Profibus cable
- Ethernet cable

Cutter cassettes for CST



Technical data

Max. stripping performance		CST	IE-CST
Cable type		Coaxial & round data cables	Coaxial & round data cables
Conductor diameter	mm	2.5...8	2.5...8
Stripping length, max.	-		
Tool data			
Length	mm	100	100
Weight	g	65	85
Note			

Colour cutter cassettes	B [mm]	C [mm]
grey	3.9	
red	6.0	
yellow	12.0	
blue	6.5	
white	8.6	
green	7.1	5.1
brown	7.5	3.5
orange	8.0	3.7
light green	6.0	6.0
black	8.6	2.3

Dim. A as stated by manufacturer (not defined by tool)

Ordering data

Version	Type	Qty	Order No.
	CST	1	**9030500000**
	IE-CST	1	**9204350000**
Note	IE-CST including blade cartridge, adjusted to Weidmüller Ethernet cable CST not including blade cartridge		

Colour cutter cassettes	Qty.	Order No.
grey	1	**9032050000**
red	1	**9032040000**
yellow	1	**9032030000**
blue	1	**9032020000**
white	1	**9204340000**
green	1	**9032000000**
brown	1	**9032010000**
orange	1	**9032200000**
light green	1	**9032210000**
black	1	**9032220000**

Accessories

	Type	Qty	Order No.
	Screw holder	1	**9032060000**
	Screwdriver	1	**9005720000**
	Setting block	1	**9005800000**
Note	Dimension A: as specified by connector manufacturer (not defined by tool)		

Sheathing strippers for coaxial cable

- For coaxial cable and round (shielded) data cables from 2.5...8mm diameter
- 1-, 2- and 3-level stripping in one step
- Adjustable stripping lengths in 1-mm steps for meshwork and dielectric materials (min. stripping length approx. 3.2 mm)
- Fast changeover to other cable types
- max. stripping length 17 mm
- incl. 3 blades

CST vario

ø 2.5...8 mm

- RG 58 and RG 71
- RG 59 and RG 62
- Antenna cable
- Profibus cable
- Ethernet cable

Technical data

Max. stripping performance		CST VARIO
Cable type		Coaxial & round data cables
Conductor diameter	mm	2.5...8
Stripping length, max.	mm	17
Tool data		
Length	mm	116
Weight	g	76
Note		

Ordering data

Version	Type	Qty	Order No.
	CST VARIO	1	9005700000

Note

Accessories

	Type	Qty	Order No.
	Screwdriver	1	9005720000
	Blade holder	1	9005740000
	Blade insert	1	9005730000
Note	Includes spare blade set (1 set = 3 blades)		

CST Vario blade holder

Ordering data

Type	Qty	Order No.
CST VARIO BLADE HOLDER	1	9005740000

CST Vario blade insert

Ordering data

Type	Qty	Order No.
CST VARIO BLADE INSERT	1	9005730000

CST Screwdriver

Ordering data

Type	Qty	Order No.
CST SCREWDRIVER	1	9005720000

Setting block CST

Ordering data

Type	Qty	Order No.
CST SETTING BLOCK	1	9005800000

Screw holder CST

Ordering data

Type	Qty	Order No.
CST SCREW HOLDER	1	9032060000