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Termination and Wiring

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Termination & Wiring



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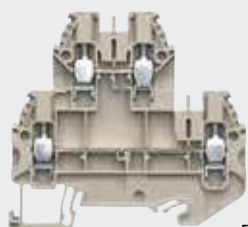
Screw connection rail-mount terminals



58.504.0055.0



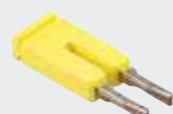
58.506.9055.0



58.504.7055.0



58.504.5155.0



Z7.284.7027.0

WT series - Terminal blocks - with screw connection technology

- Universal screw connection system (*one-piece thread for stress free connection and re-connection*)
- Compact dimensions - uniform design - universal marking system
- Double cross connection row accepts pluggable cross connectors (*plug-in bridge bars*)

type	model	colour	wire size mm ²	amperage IEC 947-7-1	term. width	maximum voltage	price
WT through terminals		1000V	(universal terminal block)				
58.503.0055.0	WT2.5	grey	0.14...4	24A	5 mm	1000 V	12.10
58.504.0055.0	WT4	grey	0.14...6	32A	6 mm	1000 V	13.20
58.506.0055.0	WT6	grey	0.2...10	41A	8 mm	1000 V	27.60
58.510.0055.0	WT10	grey	0.5...16	57A	10 mm	1000 V	31.80
58.503.0055.6	WT2.5BL	blue	0.2...4	24A	5 mm	1000 V	23.90
58.504.0055.6	WT4BL	blue	0.5...6	32A	6 mm	1000 V	25.70
58.506.0055.6	WT6BL	blue	0.14...10	41A	8 mm	1000 V	39.20
58.510.0055.6	WT10BL	blue	0.14...16	57A	10 mm	1000 V	46.00

WT earth terminals*yellow/green screw-less, clip-on earth terminals*

58.503.9055.0	WT2.5PE	yel/grn	0.14...4	—	5 mm	1000 V	45.00
58.504.9055.0	WT4PE	yel/grn	0.14...6	—	6 mm	1000 V	45.00
58.506.9055.0	WT6PE	yel/grn	0.2...10	—	8 mm	1000 V	63.00
58.510.9055.0	WT10PE	yel/grn	0.5...16	—	10 mm	1000 V	71.00

End plates*for above terminals*

07.313.2555.0	APWT2.5-10	grey	end plate		for term.	WT2.5/4/6/10	8.00
07.313.2655.0	TWWT2.5-10	grey	partition plate		for term.	WT2.5/4/6/10	11.10

Multi-tier terminal blocks**500V**

58.504.5055.0	WT4D1/2	grey	0.14...6	32A	6 mm	500 V	44.00
58.504.5155.0	WT4D2/2	grey	0.14...6	32A	6 mm	500 V	51.00
58.504.7055.0	WT4E	grey	0.14...6	32A	6 mm	800 V	43.00
07.313.2955.0	APWT4D1/2	grey	end plate		for term.	WT4D1/2	11.10
07.313.3155.0	APWT4D2/2	grey	end plate		for term.	WT4D2/2	12.30
07.313.3355.0	APWT4E	grey	end plate for two-tier		for term.	WT4E	12.30
07.313.2855.0	TWWT4E	grey	partition for two tier		for term.	WT4E	14.10

Disconnect terminal block*hinged blade type*

58.503.2055.0	WT2.5TKM	grey	0.14...4	20A	5 mm	500 V	75.00
58.504.2055.0	WT4TKM	grey	0.14...6	24A	6 mm	500 V	79.00
07.313.2955.0	APWT4D1/2	grey	end plate		for term.	WT2.5/4TKM	11.10
07.313.2855.0	TWWT4E	grey	partition plate		for term.	WT2.5/4TKM	14.10

Plug-in cross connectors (bridging bars)*for WT and WTP terminal blocks*

WT series terminals feature a two-row, plug-in jumpering channel, permitting variable potential distribution through use of a chain arrangement, providing a vibration-proof connection.

Any number of plug-in jumpers can be connected in succession as necessary.

- Robust combination of copper current bar and indestructible steel spring individually fabricated

		poles					
Z7.284.7027.0	IBWTP1.5-2	2-pole	plug-in bridging bar	for term.	WTP1.5		8.00
Z7.284.7127.0	IBWTP1.5-3	3-pole	plug-in bridging bar	for term.	WTP1.5		14.70
Z7.284.7227.0	IBWTP1.5-4	4-pole	plug-in bridging bar	for term.	WTP1.5		23.30
Z7.284.7327.0	IBWTP1.5-5	5-pole	plug-in bridging bar	for term.	WTP1.5		31.20
Z7.280.6227.0	IBWKF2.5-2	2-pole	plug-in bridging bar	for term.	WT2.5/P2.5/4		9.20
Z7.280.6327.0	IBWKF2.5-3	3-pole	plug-in bridging bar	for term.	WT2.5/P2.5/4		17.80
Z7.280.6427.0	IBWKF2.5-4	4-pole	plug-in bridging bar	for term.	WT2.5/P2.5/4		27.00
Z7.280.6527.0	IBWKF2.5-5	5-pole	plug-in bridging bar	for term.	WT2.5/P2.5/4		36.10
Z7.280.7027.0	IBWKF2.5-10	10-pole	plug-in bridging bar	for term.	WT2.5/P2.5/4		81.00
Z7.280.8027.0	IBWKF2.5-20	20 pole	plug-in bridging bar	for term.	WT2.5/P2.5/4		172.00
Z7.261.1227.0	IBWKF4-2	2-pole	plug-in bridging bar	for term.	WT4		9.80
Z7.261.1327.0	IBWKF4-3	3-pole	plug-in bridging bar	for term.	WT4		19.00
Z7.261.1427.0	IBWKF4-4	4-pole	plug-in bridging bar	for term.	WT4		28.20
Z7.261.1527.0	IBWKF4-5	5-pole	plug-in bridging bar	for term.	WT4		38.00
Z7.261.2027.0	IBWKF4-10	10-pole	plug-in bridging bar	for term.	WT4		86.00
Z7.282.5227.0	IBWKF6-2	2-pole	plug-in bridging bar	for term.	WT6/WTP6/10		19.00
Z7.282.5327.0	IBWKF6-3	3-pole	plug-in bridging bar	for term.	WT6/WTP6/10		29.40
Z7.282.5427.0	IBWKF6-4	4-pole	plug-in bridging bar	for term.	WT6/WTP6/10		45.00
Z7.282.5527.0	IBWKF6-5	5-pole	plug-in bridging bar	for term.	WT6/WTP6/10		57.00
Z7.283.8227.0	IBWKF10-2	2-pole	plug-in bridging bar	for term.	WT10		39.20

See DIN mounting rail

Push-in rail-mount terminals



Fasis WTP series - Terminal blocks - with push-in connection technology

- Terminate wires easily, directly and without tools (*wires simply push-in to terminals*)
- Integrated release lever - no contact with live parts - flat or star screwdriver release button
- Compact dimensions - uniform design - universal marking system
- Double cross connection row on all terminals for pluggable cross connectors (*plug-in bridge bars*)
- Designed for use in machinery and plant engineering, as well as power distribution for buildings
- Connects a control cabinet quickly, reducing installation time and keeps inventory costs to a minimum

type	model	wire size mm ²	amperage IEC 947-7-1	terminal width	terminal in	terminal out	max. voltage	price
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Feed-through terminals with push-in connection

56.202.0055.0	WTP1.5	0.14...1.5	17.5A	3.5 mm	1	1	500 V	17.20
56.203.0055.0	WTP2.5/4	0.2...4	30A	5 mm	1	1	800 V	14.70
56.203.5055.0	WTP2.5/4D1/2	0.2...4	32A	5 mm	1	2	800 V	23.30
56.203.5155.0	WTP2.5/4D2/2	0.2...4	32A	5 mm	2	2	800 V	30.60
56.203.7055.0	WTP2.5/4E	0.2...4	24A	5 mm	2	2	500 V	47.00
56.206.0055.0	WTP6/10	0.2...10	57A	8 mm	1	1	1000 V	39.20

Feed-through terminals

blue push-in terminals

56.202.0055.6	WTP1.5BL	0.14...1.5	17.5A	3.5 mm	1	1	500 V	17.20
56.203.0055.6	WTP2.5/4BL	0.2...4	30A	5 mm	1	1	800 V	20.20
56.206.0055.6	WTP6/10BL	0.2...10	57A	8 mm	1	1	1000 V	36.70

Earth terminals

yellow/green

- screwless, clip-on earth terminals / plug-in bridging bars

56.202.9055.0	WTP1.5PE	0.14...1.5	17.5A	3.5 mm	1	1	500 V	59.00
56.203.9055.0	WTP2.5/4PE	0.2...4	32A	5 mm	1	1	800 V	46.00
56.203.9355.0	WTP2.5/4D1/2PE	0.2...4	32A	5 mm	1	2	800 V	77.00
56.206.9055.0	WTP6/10PE	0.2...10	57A	8 mm	1	1	1000 V	92.00

End plates/partitions - For above WTP terminals

07.313.4455.0	APWTP1.5	terminal insulated end plate for	WTP1.5	8.00
07.312.6755.0	APFN2.5	terminal insulated end plate for	WTP2.5/4	9.80
07.312.6955.0	APFN2.5D1/2	terminal insulated end plate for	WTP2.5/4D1/2	11.10
07.312.7155.0	APFN2.5D2/2	terminal insulated end plate for	WTP2.5/4D2/2	12.30
07.312.7355.0	APFN2.5E	terminal insulated end plate for	WTP2.5/4 E	13.50
07.313.4155.0	APWTP6/10	terminal insulated end plate for	WTP6/10	12.90
07.312.6855.0	TWFN2.5	terminal insulated partition plate for	WTP2.5/4	9.80
07.312.7055.0	TWFN2.5D1/2	terminal insulated partition plate for	WTP2.5/4D1/2	11.10
07.312.7255.0	TWFN2.5D2/2	terminal insulated partition plate for	WTP2.5/4D2/2	12.30
07.312.7455.0	TWFN2.5E	terminal insulated partition plate for	WTP2.5/4E	13.50
07.313.4255.0	TWWTP6/10	terminal insulated partition plate for	WTP6/10E	12.90

Accessories for all Wieland terminals

End stops for all terminals

Z5.523.9353.0	WEF1/35	"snap-on"	8 mm	terminal end stop	16.60
Z5.523.9453.0	WEF2/35	"snap-on"	5 mm	terminal end stop	16.10
Z5.522.8553.0	9708/2S35	"screw-on"	8 mm	terminal end stop	12.30
Z5.523.5753.0	WE 1/U	"screw-on"	10 mm	terminal end stop	50.00

Test terminal

Z1.299.9753.0	PSWKC/F	0.14...4	plug-in test terminal for	WT/WTP 2.5/4	86.00
07.312.6053.0	ZP/APPS	—	end plate for above test terminal	PS WKC/F	41.00

Terminal markers for all Wieland terminals

- Universal marking system
- Maximum hold to the terminal
- Marking strips ideal for service and maintenance

41490/PS	10 x 5 mm	self marking tag for use with Cembre printer	card of 56 pcs	106.00
9704A/*B	numeral marking tags - strip 10 similar markers	(25 x strips of 10pcs = 250 per pack)		10.40
9704A/*GB	alphabetical marking strips 10 similar markers	(25 x strips of 10pcs = 250 per pack)		10.40
* Replace by: 1/2/3/4/5/6/7/8/9/0/+/- (example 9704A/5B)				
❖ A/B/C/D/E/F/G/H/I/J/K/L/M/N/O/P/Q/R/S/T/U/V/W/X/Y/Z				
9705A/6	marker adaptor	(increases marking area to 6 digits)	all terminals	5.60

Bridging bars - (plug-in cross connectors, see page L-1)

See DIN mounting rail

Screw connection rail-mount terminals



57.510.0155.0



57.535.0155.0



56.135.1055.0 + 07.431.7053.8



57.504.9055.0



57.910.5055.0



57.904.5355.0



Z5.522.8553.0

WK series - Terminal blocks - with screw connection technology

- Universal marking system
- Reliable and maintenance-free
- Multi-tier blocks in two- and three-tier designs
- Approvals: SEV / ASEV / RINA / VDE / UL / CSA
- Conformity: IEC60947-7-1 / IEC60685-2-2 / IEC60685-1 / CEI22223-20/21 / VDE0611/ CSA C22.2 / UL1059

type	model	wire size mm ²	amperage IEC 947-7-1	terminal width		maximum voltage	price
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Through terminals blocks *universal EN50022 (DIN 35) and EN50035 (G rail)*

57.503.0055.0	WK2.5/U	0.5...2.5	26A	5 mm	—	1000 V	14.10
57.504.0055.0	WK4/U	0.5...4	35A	6 mm	—	1000 V	15.30
57.506.0055.0	WK6/U	0.5...6	46A	8 mm	—	1000 V	24.50
57.510.0155.0	WKN10/U	2.5...10	63A	10 mm	—	1000 V	39.80
57.516.0155.0	WKN16/U	4...16	85A	12 mm	—	1000 V	54.00
57.535.0155.0*	WKN35/U	10...35	125A	16 mm	—	1000 V	89.00
57.570.0155.0*	WKN70/U	10...70	192A	24 mm	—	1000 V	497.00

Stud terminal blocks *bolt to bolt through terminal*

56.135.1055.0	WRT35/M6	2.5...50	125A	27 mm	M6	1000 V	260.00
56.170.1055.0	WRT70	2.5...95	192A	32 mm	M8	1000 V	361.00
56.197.1055.0	WRT120	6...150	269A	42 mm	M10	1000 V	443.00
56.198.1055.0	WRT185	10...240	353A	55 mm	M12	1000 V	641.00
56.199.1055.0	WRT300	25...240	520A	55 mm	M16	1000 V	765.00

End plates/partitions - for above terminals

07.311.0155.0	AP2.5-4		terminal end plates	for term.	WK2.5/4	8.60
07.311.0255.0	AP6		terminal end plates	for term.	WK6	9.80
07.311.6655.0	APN10		terminal end plates	for term.	WK10	11.70
07.311.6755.0	APN16		terminal end plates	for term.	WK16	17.20
07.431.7053.8	ADWRT35		terminal cover (2 req. per terminal)	for term.	WRT35	39.80
07.431.7153.8	ADWRT70		terminal cover (2 req. per terminal)	for term.	WRT70	46.00
07.431.7253.8	ADWRT120		terminal cover (2 req. per terminal)	for term.	WRT120	59.00
07.431.7353.8	ADWRT185/300		terminal cover (2 req. per terminal)	for term.	WRT185/300	81.00
07.311.1155.0	TW2.5-4		terminal end plate/partition	for term.	WK2.5/4	12.30
07.311.1255.0	TW6		terminal end plate/partition	for term.	WK6	12.30
07.311.7655.0	TWN10		terminal end plate/partition	for term.	WK10	13.50
07.311.7755.0	TWN16		terminal end plate/partition	for term.	WK16	19.00

Earth terminal blocks *yellow/green screw-on earth terminals*

57.504.9055.0*	WK4SL/U	0.5...4	—	6 mm	—	1000 V	66.00
57.506.9055.0*	WK6SL/U	0.5...6	—	8 mm	—	1000 V	85.00
57.510.9055.0*	WKN10SL/U	2.5...10	—	10 mm	—	1000 V	121.00
57.516.9055.0*	WKN16SL/U	4...16	—	12 mm	—	1000 V	144.00
57.535.9055.0*	WKN35SL/U	10...35	—	16 mm	—	1000 V	262.00

Multi-tier terminal blocks

57.403.7055.0	WKN2.5E/U	0.14...2.5	24A	5 mm	2 tier	500 V	73.00
07.312.1755.0	APN2.5E		terminal end plate for above		for term.	WK2.5E/U	15.90
57.503.8855.0*	WK2.5-3D/U	0.5...2.5	24A	6 mm	3 tier	400 V	148.00
57.503.7855.0*	WK2.5-4KI/U	0.5...2.5	24A	6 mm	3 tier (sensor)	250 V	87.00

Fuse terminal blocks *accepts 20 x 5 mm fuses*

- Integrated lever-action fuse block with screw connection for mounting on DIN rail
- The standard block has a storage location for a replacement fuse.

57.904.5355.0*	WK4/THSI5/U	0.5...4	6.3A	8 mm		800 V	89.00
57.910.5055.0	WK10/SI/U	1...10	10A	12 mm		500 V	144.00
07.311.4155.0	AP10/SI		terminal end plate for above		for term.	WK10/SI/U	12.90

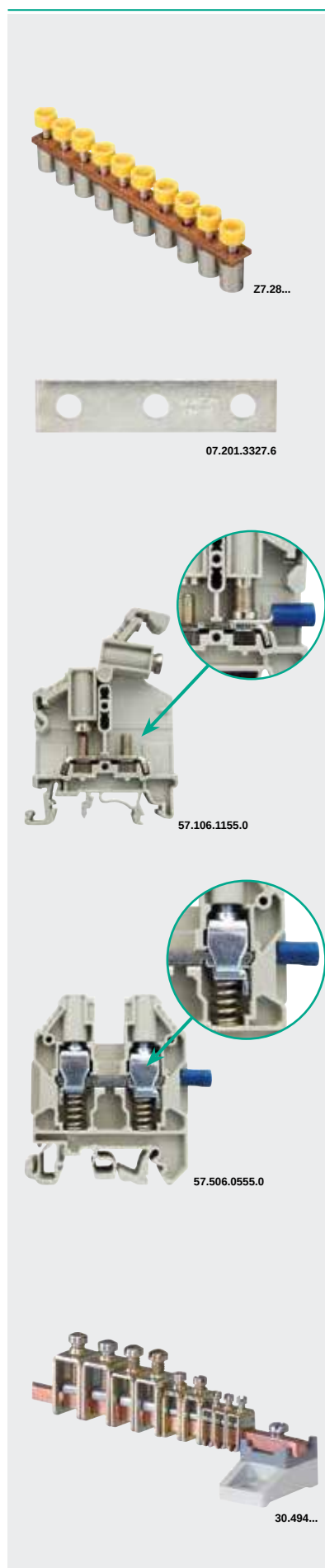
End stops for all terminals

Z5.523.9353.0	WEF1/35	screwless	rail mount	8 mm	"snap-on" term. end stop	16.60
Z5.523.9453.0	WEF2/35	screwless	rail mount	5 mm	"snap-on" term. end stop	16.10
Z5.522.8553.0	9708/2S35	screw mnt	rail mount	8 mm	"screw-on" term. end stop	12.30
Z5.523.5753.0	WE1/U	screw mnt	rail mount	10 mm	"screw-on" term. end stop	50.00

* Fully insulated terminal (no end plate required)

See DIN mounting rail

Screw & clamp connection terminals



Bridging bars screw-in type for WK series terminals

type	model	wire size mm ²	no. ways	description	for terminal	price
Z7.280.0027.0	VBWK2.5M	2.5	80-way	bridging bar for terminal	WK2.5/U	586.00
Z7.281.0027.0	VBWK4M	4	70-way	bridging bar for terminal	WK4/U	521.00
Z7.282.0027.0	VBWK6M	6	40-way	bridging bar for terminal	WK6/U	482.00
Z7.283.6027.0	VBWKN10M	10	40-way	bridging bar for terminal	WKN10/U	643.00
Z7.284.2027.0	VBWKN16M	16	30-way	bridging bar for terminal	WKN16/U	1 070.00
Z7.285.2027.0	VBWKN35M	35	20-way	bridging bar for terminal	WKN35/U	939.00

Jumper bars screw-in type for WK series terminals

07.201.1227.6	VBWRT35-2	35	2-way	jumper bar for terminal	WRT35	59.00
07.201.1327.6	VBWRT35-3	35	3-way	jumper bar for terminal	WRT35	79.00
07.201.3227.6	VBWRT70-2	70	2-way	jumper bar for terminal	WRT70	84.00
07.201.3327.6	VBWRT70-3	70	3-way	jumper bar for terminal	WRT70	108.00
07.201.5227.6	VBWRT120-2	120	2-way	jumper bar for terminal	WRT120	171.00
07.201.5327.6	VBWRT120-3	120	3-way	jumper bar for terminal	WRT120	213.00
07.201.7227.6	VBWRT185-2	185	2-way	jumper bar for terminal	WRT185	244.00
07.201.7327.6	VBWRT185-3	185	3-way	jumper bar for terminal	WRT185	341.00
07.201.9227.6	VBWRT300-2	300	2-way	jumper bar for terminal	WRT300	281.00
07.201.9327.6	VBWRT300-3	300	3-way	jumper bar for terminal	WRT300	453.00

WRT series - Terminal block with screw bolt connection (accommodates ring lugs)

Designed for secure and efficient electrical connections, featuring a standard through terminal with threaded stud termination. The incorporation of a hinged section nut allows for the easy accommodation of ring lugs, providing a secure and safe connection.

This design ensures that cables remain securely connected, even in the event of a loosened screw, thanks to the robust screw bolt system that delivers consistent torque application

- Universal screw bolt - ring lug connection system (M4)
- Hinged terminal screw for easy access of ring lugs
- Universal marking system

type	model	wire size (stranded)	amperage IEC 947-7-1	term. width	max. voltage	price
57.106.1155.0	WRT6	1.5...6	41A	11 mm	1000V	114.00
07.300.6955.0	APRT6	end plate for above terminal			for term. WRT6	17.20

WKN spring supported screw connection terminal block

This terminal features a spring-supported screw connection that is optimized for use with hook blade terminals. The innovative spring mechanism not only ensures a stable and safe connection but also prevents the hook blade lug from exiting the terminal, even in the event of a loosened screw.

With a standard through terminal and threaded stud termination, the WKN model also incorporates a hinged section nut for easy integration with ring lugs

57.506.0555.0	WKN6SF	0.5...6	41A	8 mm	800 V	84.00
57.510.0555.0	WKN10SF	2.5...10	57A	10 mm	800 V	93.00
07.313.2355.0	APN6SF	end plate for above terminal			for term. WKN 6 SF	9.80
07.313.2455.0	APN10SF	end plate for above terminal			for term. WKN 10 SF	12.30

WAK busbar termination (earth/neutral)

Busbar (1 meter length)

GI06006.1	6 x 6 mm	120A	1 meter	busbar for WAK terminals	339.00
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Busbar support

19.230.0040.0	KSO11/1ZKR	support	busbar support for 6 x 6 mm bars	63.00
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Terminals - slide-on - earth or neutral

- Steel - zinc plated (galvanised)

30.494.0010.0	AK4/1	0.5...4	41A	clamp terminal for 6 x 6 mm busbar	11.70
30.494.1010.0	AK16/1	1...16	76A	clamp terminal for 6 x 6 mm busbar	15.90
30.494.1110.0	AK25/3	2.5...25	41A	clamp terminal for 6 x 6 mm busbar	33.10
30.494.2510.0	AK35/3	2.5...35	125A	clamp terminal for 6 x 6 mm busbar	36.10

See DIN mounting rail

Screw clamp rail-mount terminals



304370



304120



304141



304151



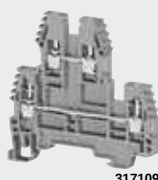
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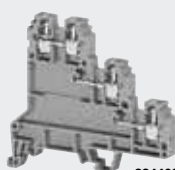
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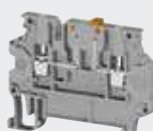
334210



317109



324409



304419

AVK series - Screw clamp terminals

type	wire size (mm²)	amperage EN60947-7-1	terminal width		description	price
Standard feed through terminals						
304120	2.5 mm	24A	5 mm	grey	rail mount screw clamp terminal	8.20
304130	4 mm	32A	6 mm	grey	rail mount screw clamp terminal	9.80
304140	6 mm	41A	8 mm	grey	rail mount screw clamp terminal	14.10
304150	10 mm	57A	10 mm	grey	rail mount screw clamp terminal	18.70
304121	2.5 mm	24A	5 mm	blue	rail mount screw clamp terminal	9.40
304131	4 mm	32A	6 mm	blue	rail mount screw clamp terminal	11.30
304141	6 mm	41A	8 mm	blue	rail mount screw clamp terminal	14.10
304151	10 mm	57A	10 mm	blue	rail mount screw clamp terminal	18.70
304240	16 mm	76A	12 mm	grey	rail mount screw clamp terminal	32.40
304290	25 mm	101A	12 mm	grey	rail mount screw clamp terminal	54.00
304250*	35 mm	125A	16 mm	grey	rail mount screw clamp terminal	62.00
304330*	50 mm	150A	20 mm	grey	rail mount screw clamp terminal	152.00
304190*	70 mm	192A	22 mm	grey	rail mount screw clamp terminal	270.00
304340*	95 mm	232A	25 mm	grey	rail mount screw clamp terminal	284.00
304350*	150 mm	309A	31 mm	grey	rail mount screw clamp terminal	392.00
304360*	240 mm	415A	36 mm	grey	rail mount screw clamp terminal	528.00

* Fully insulated (no end plate required)

304370	6 mm	41A	8 mm		plug-in auxiliary term. for 304 340/50/60	26.90
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End plates for above terminals

444120	end plate	2.5 - 10	1.5 mm	grey	for 2.5-4-6-10 mm terminals	4.70
444121	end plate	2.5 - 10	1.5 mm	blue	for 2.5-4-6-10 mm terminals	4.70
444170	end plate	16 mm	1.5 mm	grey	for 16 mm terminals	7.40
450250	end plate	25 mm	1.5 mm	grey	for 25 mm terminals	8.10
462120	partition	2.5 - 10	1.5 mm	grey	for 2.5-4-6-10 mm terminals	5.50
462121	partition	2.5 - 10	1.5 mm	blue	for 2.5-4-6-10 mm terminals	5.50
462170	partition	16 mm	1.5 mm	grey	for 16 mm terminals	11.40

Stud terminals (bolt and nut termination top and bottom)

304300	95 mm	232A	40 mm	grey	rail mount stud terminal	241.00
304310	150 mm	309A	48 mm	grey	rail mount stud terminal	374.00
304320	240 mm	415A	53 mm	grey	rail mount stud terminal	534.00

Covers for above stud terminals

466100	cover	—			hinged isolation cover for stud terminal 304 300	37.40
466110	cover	—			hinged isolation cover for stud terminal 304 310	47.00
466120	cover	—			hinged isolation cover for stud terminal 304 320	57.00

Earth terminals - (fully insulated no end cover required)

334170	2.5 mm	—	5 mm	grn/yell	rail mount earth terminal	33.40
334450	4 mm	—	6 mm	grn/yell	rail mount earth terminal	44.00
334460	6 mm	—	8 mm	grn/yell	rail mount earth terminal	44.00
334470	10 mm	—	10 mm	grn/yell	rail mount earth terminal	49.00
334200	16 mm	—	12 mm	grn/yell	rail mount earth terminal	119.00
334210	35 mm	—	16 mm	grn/yell	rail mount earth terminal	94.00
334190	50 mm	—	20 mm	grn/yell	rail mount earth terminal	298.00

Multi-tier terminals (PIK/PUK)

317109	2.5 mm	24A	5 mm	two tier	rail mount terminal	21.10
319109	4 mm	32A	6 mm	two tier	rail mount terminal	28.10
324109	2.5 mm	24A	6 mm	three tier	rail mount terminal	43.00
324409	2.5 mm	24A	6 mm	three tier	sensor terminal	43.00
449019	end plate	2.5/4 mm	1.5 mm	for 2.5/4 mm 2 tier terminal	317/9109	13.20
450139	end plate	2.5 mm	1.5 mm	for 2.5 mm 3 tier terminal	324109	6.90
450169	end plate	2.5 mm	1.5 mm	for 2.5 mm sensor terminal	324409	9.20

Disconnect terminals (AVK)

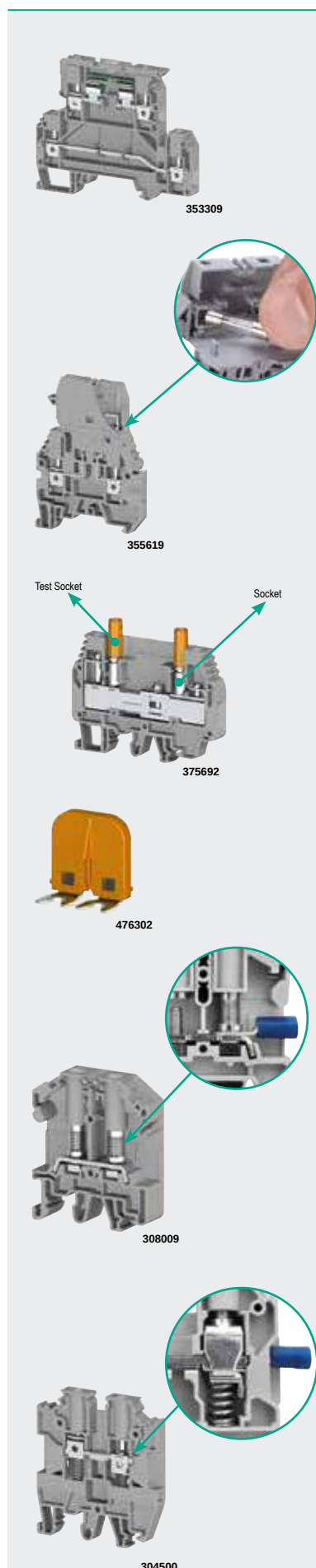
304419*	2.5 mm	16A	5 mm	grey	rail mounting disconnect terminal	29.70
304380*	4 mm	20A	6 mm	grey	rail mounting disconnect terminal	30.60
450330	end plate	2.5/4 mm	1.5 mm	for above disconnect terminals	304419/380	7.10

* 2.5/4 mm terminals accept plug-in bridge pieces 2/3/4/10 way (see page L-7)

Terminal accessories, see page L-8...9

See DIN mounting rail

Screw clamp rail-mount terminals



AVK series - Screw clamp terminals

type	wire size (mm ²)	amperage EN60947-7-1	terminal width	description		price
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Fuse terminals (AVK) - accept 5 x 20 mm fuses

Low profile fused terminal - for 5 x 20 mm fuses

351109	6 mm	6.3A	8 mm	low profile fused terminal	—	26.10
351229	6 mm	6.3A	8 mm	fused term. LED indication	24 VDC	54.00
351619	6 mm	6.3A	8 mm	fused term. LED indication	220 VAC	54.00

450049	end plate	—	1.5 mm	for above 351 ... fused terminals		9.50
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Fused terminal with pluggable fuse section (supports spare fuse)

355109*	4 mm	10A	6.2 mm	plug-in fuse terminal	—	47.00
355229*	4 mm	10A	6.2 mm	fused term. LED indication	24 VDC	75.00
355619*	4 mm	10A	6.2 mm	fused term. LED indication	220 VAC	75.00

450059	end plate	—	1.5 mm	for above 355 ... fused terminals		8.70
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Two tier 1 x fused and 1 x through terminal (AVK) (supports spare fuse)

353309*	4 mm	6.3A	8 mm	two tier (one fused)		71.00
353329*	4 mm	6.3A	8 mm	fused term. LED indication	24 VDC	118.00
450209	end plate	—	1.5 mm	for above 353 ... fused terminals		16.60

* 355/353--- terminals accept plug-in bridge pieces (2/3/4/10 way) (see page L-8)

Comb bridging bars (cross-connection) for above 355/353 series terminals

type	ref.	poles	for term. width	description		price
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476282	TKO6/2	2-pole	8 mm	comb bridge for std screw terminal	304 140	14.40
476283	TKO6/3	3-pole	8 mm	comb bridge for std screw terminal	304 140	17.60

* 355/353--- terminals accept plug-in bridge pieces (2/3/4/10 way) for more options, see page L-8

Special application terminals

WGO test / disconnect terminals

Used to perform required tests without disconnecting the system. Usually installed on secondary side of current transformers, permitting observation of testing equipment safe exchange of meters by bridging secondary side of transformer during exchange

375690	6 mm	41A	8 mm	terminal without test socket		76.00
375691	6 mm	41A	8 mm	terminal with test socket		89.00
375692	6 mm	41A	8 mm	terminal with double test socket		103.00

476302	2-pole			sliding bridge/cross connector	for above test terminals	8.50
476303	3-pole			sliding bridge/cross connector	for above test terminals	15.00
476304	4-pole			sliding bridge/cross connector	for above test terminals	18.20
450229	end plate	—		for above test terminals	375690/1/2	8.40

2PB6/NM - Terminal block with screw bolt connection (accommodates ring lugs)

Standard through terminal with threaded stud termination, incorporating a hinged section nut to accommodate a ring lug, provides a secure, safe connection preventing cable from disconnection in the event of loosened screw.

- Universal screw bolt - ring lug connection system (M4)
- Hinged terminal cover for easy access for ring lugs

PB6/NM - Terminal with stud connection to accept ring lugs

308009	0.5...6	41A	11 mm	bolt connection terminal block		69.00
451019	end plate	—		for above bolt connection terminal	308009	5.20

AVK Y series - Spring supported screw connection terminal block

Special application terminal with spring supported screw connection for use with hook blade terminals the spring provides a secure, safe connection, simultaneously preventing hook blade lug from exiting the terminal even in the event of a loosened connection.

304500	0.2...6	32A	6 mm	spring assisted terminal block		28.50
304510	0.5...10	41A	8 mm	spring assisted terminal block		29.80
304520	0.5...16	57A	10 mm	spring assisted terminal block		30.70

450300	end plate	—		for above spring assisted terminal	304500/10	5.50
450260	end plate	—		for above spring assisted terminal	304520	5.50

Terminal accessories, see page L-8...9

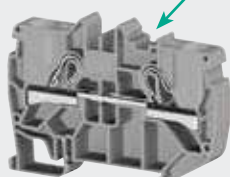
See DIN mounting rail

Push-in spring clamp terminals

PYK series - "Push-in" spring clamp terminals

Cable connection is made by simply "pushing" the cable into the terminal without the need for tools. Secure connection is guaranteed in all conditions saving time in terminating. If required, cable can easily be removed with the use of a screwdriver. The easy "push-in" termination together with "plug-in" bridging combs combine to speed up connection of terminals, providing a rapid, secure, safe connection over time.

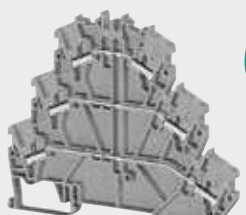
type	wire size (mm²)	amperage EN60947-7-1	terminal width	description		price
Feed through terminals (PYK)						
307019	1.5 mm	17.5A	4.2 mm	rail mount spring clamp terminal		12.40
307109	2.5 mm	24A	5 mm	rail mount spring clamp terminal		11.60
307119	4 mm	32A	6 mm	rail mount spring clamp terminal		14.30
307129	6 mm	41A	8 mm	rail mount spring clamp terminal		29.40
307139	10 mm	57A	10 mm	rail mount spring clamp terminal		41.00
446639	end plate	—	1.2 mm	for 1.5 mm terminal	307019	2.80
446449	end plate	—	1.2 mm	for 2.5 mm terminal	307109	5.00
446459	end plate	—	1.2 mm	for 4.0 mm terminal	307119	5.40
446469	end plate	—	1.2 mm	for 6.0 mm terminal	307129	6.20
446479	end plate	—	1.2 mm	for 10.0 mm terminal	307139	7.40
Earth terminals - yellow/green screw-less, clip-on earth terminals						
336500	2.5 mm	24A	5 mm	rail mount spring clamp earth terminal		35.60
336510	4 mm	32A	6 mm	rail mount spring clamp earth terminal		48.00
336520	6 mm	41A	8 mm	rail mount spring clamp earth terminal		63.00
336530	10 mm	57A	10 mm	rail mount spring clamp earth terminal		103.00
446442	end plate	—	1.2 mm	for 2.5 mm earth terminal	336500	5.00
446452	end plate	—	1.2 mm	for 4.0 mm earth terminal	336510	5.40
446462	end plate	—	1.2 mm	for 6.0 mm earth terminal	336520	6.20
446472	end plate	—	1.2 mm	for 10.0 mm earth terminal	336530	7.40
Multi-tier terminals						
307179	2.5 mm	24A	5 mm	two tier	spring clamp terminal	38.30
307199	2.5 mm	24A	5 mm	three tier	spring clamp terminal	54.00
446519	end plate	—	1.2 mm	for 2.5 mm 2 tier terminal	307179	6.30
446529	end plate	—	1.2 mm	for 2.5 mm 3 tier terminal	307199	7.20
Disconnect terminals						
307169	2.5 mm	20A	5 mm	rail mount disconnect terminal		45.00
446509	end plate	—	1.2 mm	for disconnect terminal	307169	15.20
Fuse terminals - for 5 x 20 mm fuses			fully insulated - no end plate required			
307249	2.5 mm	10A	8 mm	rail mount fused terminal		75.00
307259	2.5 mm	10A	8 mm	fused term. LED indication	24 VDC	143.00
307269	2.5 mm	10A	8 mm	fused term. LED indication	220 VAC	143.00
PYK test terminal (plug-in)			plugs into standard PYK range terminals			
498559	1.5 mm	plug-in test terminal		(provides an additional terminal outlet)		46.00
Cross connectors (plug-in bridging bars)						
476602	UK1.5/2	2-pole	4.2 mm	plug-in bridge piece for terminals		14.90
476603	UK1.5/3	3-pole	4.2 mm	plug-in bridge piece for terminals		20.00
476604	UK1.5/4	4-pole	4.2 mm	plug-in bridge piece for terminals		24.80
476609	UK1.5/10	10-pole	4.2 mm	plug-in bridge piece for terminals		88.00
476222	UK2.5/2	2-pole	5 mm	plug-in bridge piece for terminals		15.50
476223	UK2.5/3	3-pole	5 mm	plug-in bridge piece for terminals		17.20
476224	UK2.5/4	4-pole	5 mm	plug-in bridge piece for terminals		18.30
476229	UK2.5/10	10-pole	5 mm	plug-in bridge piece for terminals		33.00
476232	UK4/2	2-pole	6 mm	plug-in bridge piece for terminals		16.10
476233	UK4/3	3-pole	6 mm	plug-in bridge piece for terminals		18.10
476234	UK4/4	4-pole	6 mm	plug-in bridge piece for terminals		19.70
476239	UK4/10	10-pole	6 mm	plug-in bridge piece for terminals		36.60
476242	UK6/2	2-pole	8 mm	plug-in bridge piece for terminals		17.20
476243	UK6/3	3-pole	8 mm	plug-in bridge piece for terminals		20.40
476244	UK6/4	4-pole	8 mm	plug-in bridge piece for terminals		22.80
476249	UK6/10	10-pole	8 mm	plug-in bridge piece for terminals		42.00
476252	UK10/2	2-pole	10 mm	plug-in bridge piece for terminals		23.50
476253	UK10/3	3-pole	10 mm	plug-in bridge piece for terminals		29.20
476254	UK10/4	4-pole	10 mm	plug-in bridge piece for terminals		34.20
476259	UK10/10	10-pole	10 mm	plug-in bridge piece for terminals		73.00
See DIN mounting rail						



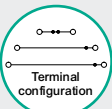
307139



336500



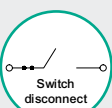
307199



Terminal configuration



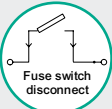
307169



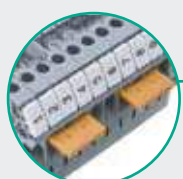
Switch disconnect



307249



Fuse switch disconnect



476602

476604



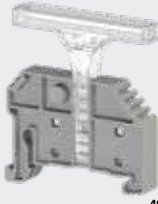
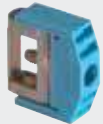
476249

Bridging bars (cross-connection) for screw type through terminals

type	ref.	poles	for term. width	description		price
Screw-in bridging bars (internal) for 2.5 - 240 mm terminals						
				AVK series		
474122	UK2.5/2	2-pole	5 mm	bridge piece for std + 2 tier terminal	304 120	15.70
474123	UK2.5/3	3-pole	5 mm	bridge piece for std + 2 tier terminal	304 120	21.10
474124	UK2.5/4	4-pole	5 mm	bridge piece for std + 2 tier terminal	304 120	26.10
474129	UK2.5/10	10-pole	5 mm	bridge piece for std + 2 tier terminal	304 120	92.00
474210	UK2.5/50	50-pole	5 mm	bridge piece for std + 2 tier terminal	304 120	244.00
474132	UK4/2	2-pole	6 mm	bridge piece for std + 2 tier terminal	304 130	14.60
474133	UK4/3	3-pole	6 mm	bridge piece for std + 2 tier terminal	304 130	20.70
474134	UK4/4	4-pole	6 mm	bridge piece for std + 2 tier terminal	304 130	26.80
474139	UK4/10	10-pole	6 mm	bridge piece for std + 2 tier terminal	304 130	67.00
474190	UK4/50	50-pole	6 mm	bridge piece for std + 2 tier terminal	304 130	316.00
480132	UK2.5/2	2-pole	6 mm	screw-in bridge piece for 3 tier terminal	324 109	21.60
480133	UK2.5/3	3-pole	6 mm	screw-in bridge piece for 3 tier terminal	324 109	33.10
480134	UK2.5/4	4-pole	6 mm	screw-in bridge piece for 3 tier terminal	324 109	41.00
480139	UK2.5/10	10-pole	6 mm	screw-in bridge piece for 3 tier terminal	324 109	103.00
474142	UK6/2	2-pole	8 mm	screw-in bridge piece for terminals	304 140	15.20
474143	UK6/3	3-pole	8 mm	screw-in bridge piece for terminals	304 140	21.50
474144	UK6/4	4-pole	8 mm	screw-in bridge piece for terminals	304 140	27.90
474149	UK6/10	10-pole	8 mm	screw-in bridge piece for terminals	304 140	66.00
474152	UK10/2	2-pole	10 mm	screw-in bridge piece for terminals	304 150	15.50
474153	UK10/3	3-pole	10 mm	screw-in bridge piece for terminals	304 150	22.00
474154	UK10/4	4-pole	10 mm	screw-in bridge piece for terminals	304 150	28.50
474159	UK10/10	10-pole	10 mm	screw-in bridge piece for terminals	304 150	68.00
474162	UK16/2	2-pole	12 mm	screw-in bridge piece for terminals	304 160	20.10
474163	UK16/3	3-pole	12 mm	screw-in bridge piece for terminals	304 160	29.00
474164	UK16/4	4-pole	12 mm	screw-in bridge piece for terminals	304 160	37.80
474169	UK16/10	10-pole	12 mm	screw-in bridge piece for terminals	304 160	91.00
474172	UK35/2	2-pole	16 mm	screw-in bridge piece for terminals	304 240	30.60
474173	UK35/3	3-pole	16 mm	screw-in bridge piece for terminals	304 240	45.00
474174	UK35/4	4-pole	16 mm	screw-in bridge piece for terminals	304 240	59.00
474179	UK35/10	10-pole	16 mm	screw-in bridge piece for terminals	304 240	142.00
478332	UK50/2	2-pole	20 mm	screw-in bridge piece for terminals	304 330	37.30
478333	UK50/3	3-pole	20 mm	screw-in bridge piece for terminals	304 330	57.00
478334	UK50/4	4-pole	20 mm	screw-in bridge piece for terminals	304 330	77.00
478342	UK95/2	2-pole	25mm	screw-in bridge piece for terminals	304 340	175.00
478343	UK95/3	3-pole	25mm	screw-in bridge piece for terminals	304 340	230.00
478344	UK95/4	4-pole	25mm	screw-in bridge piece for terminals	304 340	285.00
478352	UK150/2	2-pole	31 mm	screw-in bridge piece for terminals	304 350	256.00
478353	UK150/3	3-pole	31 mm	screw-in bridge piece for terminals	304 350	371.00
478354	UK150/4	4-pole	31 mm	screw-in bridge piece for terminals	304 350	466.00
478362	UK240/2	2-pole	36 mm	screw-in bridge piece for terminals	304 360	388.00
478363	UK240/3	3-pole	36 mm	screw-in bridge piece for terminals	304 360	571.00
478364	UK240/4	4-pole	36 mm	screw-in bridge piece for terminals	304 360	755.00

Comb type bridge pieces (external)

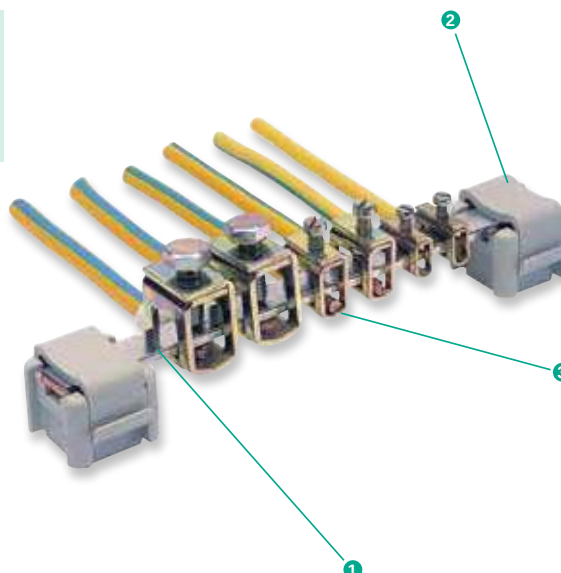
476262	TKO2.5/2	2-pole	5 mm	comb bridge for std screw terminal	304 200	14.30
476263	TKO2.5/3	3-pole	5 mm	comb bridge for std screw terminal	304 200	15.20
476264	TKO2.5/4	4-pole	5 mm	comb bridge for std screw terminal	304 200	15.70
476269	TKO2.5/10	10-pole	5 mm	comb bridge for std screw terminal	304 200	26.80
476272	TKO4/2	2-pole	6 mm	comb bridge for std screw terminal	304 210	14.70
476273	TKO4/3	3-pole	6 mm	comb bridge for std screw terminal	304 210	15.90
476274	TKO4/4	4-pole	6 mm	comb bridge for std screw terminal	304 210	16.80
476279	TKO4/10	10-pole	6 mm	comb bridge for std screw terminal	304 210	29.10
476282	TKO6/2	2-pole	8 mm	comb bridge for std screw terminal	304 140	14.40
476283	TKO6/3	3-pole	8 mm	comb bridge for std screw terminal	304 140	17.60
476284	TKO6/4	4-pole	8 mm	comb bridge for std screw terminal	304 140	19.30
476289	TKO6/10	10-pole	8 mm	comb bridge for std screw terminal	304 140	35.10
476292	TKO10/2	2-pole	10 mm	comb bridge for std screw terminal	304 150	17.70
476293	TKO10/3	3-pole	10 mm	comb bridge for std screw terminal	304 150	20.40
476294	TKO10/4	4-pole	10 mm	comb bridge for std screw terminal	304 150	22.70
476299	TKO10/10	10-pole	10 mm	comb bridge for std screw terminal	304 150	45.00

 495049  495099  49613A + 495059  525362  525372  525382	type	wire size (mm²)	ampereage EN60947-7-1	term. width	description		price	
	End stops for all terminals							
	495049	end stop	screw type	7.5 mm	economical screw type terminal rail end stop		5.70	
	495059*	end stop	screwless	7.5 mm	clamp-on terminal rail end stop		8.00	
	495219*	end stop	screw type	7.5 mm	heavy duty screw type terminal rail end stop		15.40	
	495099*	end stop	screw type	7.5 mm	large HD 50 - 240 mm terminal rail end stop		18.10	
	* Accepts group marking support 49613A (below) ratchet type for height adjustment							
	Modular group marking							
	- Screw-type end bracket mounted 7.5 mm DIN-rail - Can be used together with screw connection feed-through one level terminals							
	49613A	support	group marking support for all * terminal end stops (W) 6 mm					12.70
496300	support	group marking support for terminal end stop 495219 (W) 7 mm					6.60	
496310	support	DIN rail mounting group marking support (W) 7 mm					7.30	
Clamping yokes (slide onto 10 x 3 mm busbar)								
Clamping yokes can be slid onto a 10 x 3 mm flat busbar to make up any size earth or neutral bar with terminals to accommodate 4/10/35 mm² cables								
- Cross section: 4 ...35 mm² - Busbar size: 10 x 3 mm - Fixing screw: M3 (0.5 - 4 mm²) M4 (2.5 - 10 mm²) M5 (16 - 35 mm²)								
type	cable size mm²		insulation		description		price	
525361	0.5 - 4	clamp	none		bar mount clamping yoke	BK4	3.30	
525362	2.5 - 10	clamp	none		bar mount clamping yoke	BK10	5.70	
525363	16 - 35	clamp	none		bar mount clamping yoke	BK35	15.60	
525371	0.5 - 4	clamp	blue (neut.)		bar mount clamping yoke	IBK4	3.80	
525372	2.5 - 10	clamp	blue (neut.)		bar mount clamping yoke	IBK10	7.10	
525373	16 - 35	clamp	blue (neut.)		bar mount clamping yoke	IBK35	17.20	
525381	0.5 - 4	clamp	grn/yel (E)		bar mount clamping yoke	IBK4	3.80	
525382	2.5 - 10	clamp	grn/yel (E)		bar mount clamping yoke	IBK10	7.10	
525383	16 - 35	clamp	grn/yel (E)		bar mount clamping yoke	IBK35	17.20	
Accessories for above clamping yokes								
GI03010.1	10 x 3 mm	Cu flat copper bar for above clamping yokes					1 meter	329.00
528110	screw	universal support for single bars					(10 x 3/6 x 6/15 x 3 mm)	11.70
495109	rail mnt	DIN universal support for up to three bars					(10 x 3/6 x 6 mm)	22.10
The above clamping yokes can be slid onto the 10 x 3 busbar up to 50 mm² and the entire wiring matched to the installation.								

Clamping yokes and accessories

Below example of a complete clamping yoke.

- GI03010.1
- 528110
- 52536...



Wiring accessories



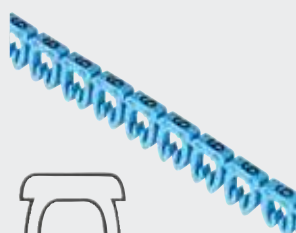
0.751.5 mm²

All other symbols



1.502.5 mm²

WM.....



46 mm²

519006

Wire markers (0.5 mm² - 6 mm²)

- Clip-on wire markers simply clip directly onto already installed cables
(no need to remove wire from terminals to mark them)
- Markers incorporate small guide pins, ensuring perfect alignment of markers when mounted on cables
- Mounted markers provide firm secure mounting onto wires (not easily removable)
- Made of polyamide 6.6 (ambient temperature -30°C...+70°C)
- Supplied in packs of all one numerical, alphabetical, symbol

: Alphabet 200 pcs per pack
: Numerical 500 pcs per pack

type	character	colour	wire size mm ²	description	qty per pack	price per pack
WM01 marker for cables						
• Cross-section: 0.5 mm ² - 1.5 mm ²						
517000	"0"	black	0.5 - 1.5	clip-on cable marker	500	141.00
517001	"1"	brown	0.5 - 1.5	clip-on cable marker	500	141.00
517002	"2"	red	0.5 - 1.5	clip-on cable marker	500	141.00
517003	"3"	orange	0.5 - 1.5	clip-on cable marker	500	141.00
517004	"4"	yellow	0.5 - 1.5	clip-on cable marker	500	141.00
517005	"5"	green	0.5 - 1.5	clip-on cable marker	500	141.00
517006	"6"	blue	0.5 - 1.5	clip-on cable marker	500	141.00
517007	"7"	purple	0.5 - 1.5	clip-on cable marker	500	141.00
517008	"8"	grey	0.5 - 1.5	clip-on cable marker	500	141.00
517009	"9"	white	0.5 - 1.5	clip-on cable marker	500	141.00
519514/_*	/_*	yellow	0.5 - 1.5	clip-on cable marker	200	57.00
/_* Insert marking requirement A,B,C...Z/+/-/■/▲/ or other) Example 519514/A						

WM02 marker for cables

• Cross-section 1.5 mm ² - 2.5 mm ²						
518000	"0"	black	1.5 - 2.5	clip-on cable marker	500	165.00
518001	"1"	brown	1.5 - 2.5	clip-on cable marker	500	165.00
518002	"2"	red	1.5 - 2.5	clip-on cable marker	500	165.00
518003	"3"	orange	1.5 - 2.5	clip-on cable marker	500	165.00
518004	"4"	yellow	1.5 - 2.5	clip-on cable marker	500	165.00
518005	"5"	green	1.5 - 2.5	clip-on cable marker	500	165.00
518006	"6"	blue	1.5 - 2.5	clip-on cable marker	500	165.00
518007	"7"	purple	1.5 - 2.5	clip-on cable marker	500	165.00
518008	"8"	grey	1.5 - 2.5	clip-on cable marker	500	165.00
518009	"9"	white	1.5 - 2.5	clip-on cable marker	500	165.00
519524/_*	/_*	yellow	1.5 - 2.5	clip-on cable marker	200	66.00
/_* Insert marking requirement A,B,C...Z/+/-/■/▲/ or other) Example 519524/Z						

WM03 marker for cables

• Cross-section 4 mm ² - 6 mm ²						
519000	"0"	black	4.0...6.0	clip-on cable marker	500	186.00
519001	"1"	brown	4.0...6.0	clip-on cable marker	500	186.00
519002	"2"	red	4.0...6.0	clip-on cable marker	500	186.00
519003	"3"	orange	4.0...6.0	clip-on cable marker	500	186.00
519004	"4"	yellow	4.0...6.0	clip-on cable marker	500	186.00
519005	"5"	green	4.0...6.0	clip-on cable marker	500	186.00
519006	"6"	blue	4.0...6.0	clip-on cable marker	500	186.00
519007	"7"	purple	4.0...6.0	clip-on cable marker	500	186.00
519008	"8"	grey	4.0...6.0	clip-on cable marker	500	186.00
519009	"9"	white	4.0...6.0	clip-on cable marker	500	186.00
519534/_*	/_*	yellow	4.0...6.0	clip-on cable marker	200	75.00
/_* Insert marking requirement A,B,C...Z/+/-/■/▲/ or other) Example 519534/+						

Open Type					
Numbers	WM01	WM02	WM03	Qty.	Colour
0				500	Black
1				500	Brown
2				500	Red
3				500	Orange
4				500	Yellow
5				500	Green
6				500	Blue
7				500	Purple
8				500	Grey
9				500	White

Slotted cable trunking



Slotted trunking

Ezi Canal slotted cable ducting features an improved cover design for ease of opening and closing, permitting easy access to wiring in control panels. Meets maximum wire capacity requirements and space constraints (*from small control panels to large integrated systems*) to provide effective support for demanding wire management solutions.

Manufactured from high-impact, self-extinguishing, warp-proof rigid PVC material providing a shock proof insulated protection solution resistant to acids, oils and grease. Used for general purpose control panel wiring to provide improved aesthetics and a neater wire management solution in high density control panels.

- Simple open/close cover design for easy access to wiring in control panel
- Double score-line permits finger/slot or complete sidewall removal
- Coining process for burr-free edges to protect hands and wiring from abrasion
- Restricted slot design retains wire within slot for fast, easy wire installation or removal
- Duct and cover form a flush sidewall to provide increased capacity and improved appearance
- UL94 flammability rating V-0 for excellent flame retardation

Standard colour: Grey - others available on request (*volume dependant*)

Standard length: Supplied in two meter lengths, complete with covers

15% off list price: For full carton quantities of **TSL** trunking
Add **/B** to end of part number (e.g **TSL025040N/B**)

type	dimensions (mm)		colour	description	slot A	finger B	carton qty	price each
	(W)	(H)			(mm)	(mm)	(L - 2 m)	
Narrow slotted trunking			Finger: 6 mm / Slot - 4 mm		(10 mm pitch)			
• Narrow slot/finger design to closely fit spacing of high density terminal blocks and I/O modules								
KKC1518	15	18	grey	PVC slotted cable trunking	5	7.5	112	68.00
TSL025025N	25	25	grey	PVC slotted cable trunking	4	6	48	85.00
TSL025040N	25	40	grey	PVC slotted cable trunking	4	6	40	115.00
TSL040040N	40	40	grey	PVC slotted cable trunking	4	6	24	148.00
TSL060040N	60	40	grey	PVC slotted cable trunking	4	6	24	190.00
TSL080040N	80	40	grey	PVC slotted cable trunking	4	6	18	222.00
TSL025060N	25	60	grey	PVC slotted cable trunking	4	6	30	153.00
TSL040060N	40	60	grey	PVC slotted cable trunking	4	6	28	177.00
TSL060060N	60	60	grey	PVC slotted cable trunking	4	6	18	218.00
TSL080060N	80	60	grey	PVC slotted cable trunking	4	6	14	280.00
TSL100060N	100	60	grey	PVC slotted cable trunking	4	6	12	327.00
TSL025080N	25	80	grey	PVC slotted cable trunking	4	6	28	189.00
TSL040080N	40	80	grey	PVC slotted cable trunking	4	6	20	217.00
TSL060080N	60	80	grey	PVC slotted cable trunking	4	6	12	271.00
TSL080080N	80	80	grey	PVC slotted cable trunking	4	6	8	316.00
TSL100080N	100	80	grey	PVC slotted cable trunking	4	6	8	369.00
TSL040100N	40	100	grey	PVC slotted cable trunking	4	6	16	307.00
TSL060100N	60	100	grey	PVC slotted cable trunking	4	6	12	322.00
TSL080100N	80	100	grey	PVC slotted cable trunking	4	6	8	375.00
TSL100100N	100	100	grey	PVC slotted cable trunking	4	6	8	414.00
Wide slotted trunking			Finger: 12 mm / Slot - 8 mm		(20 mm pitch)			
TSL040060W	40	60	grey	PVC slotted cable trunking	8	12	28	177.00
TSL060060W	60	60	grey	PVC slotted cable trunking	8	12	18	218.00
TSL080060W	80	60	grey	PVC slotted cable trunking	8	12	14	283.00
TSL100060W	100	60	grey	PVC slotted cable trunking	8	12	12	327.00
TSL040080W	40	80	grey	PVC slotted cable trunking	8	12	20	216.00
TSL060080W	60	80	grey	PVC slotted cable trunking	8	12	12	268.00
TSL080080W	80	80	grey	PVC slotted cable trunking	8	12	8	316.00
TSL100080W	100	80	grey	PVC slotted cable trunking	8	12	8	369.00
TSL040100W	40	100	grey	PVC slotted cable trunking	8	12	16	307.00
TSL060100W	60	100	grey	PVC slotted cable trunking	8	12	12	322.00
TSL080100W	80	100	grey	PVC slotted cable trunking	8	12	8	375.00
TSL100100W	100	100	grey	PVC slotted cable trunking	8	12	8	414.00
Spare covers for above narrow and wide slotted trunking								
TSM025	25	—	grey	spare PVC trunking covers	—	—	80	29.50
TSM040	40	—	grey	spare PVC trunking covers	—	—	80	35.40
TSM060	60	—	grey	spare PVC trunking covers	—	—	80	53.00
TSM080	80	—	grey	spare PVC trunking covers	—	—	80	71.00
TSM100	100	—	grey	spare PVC trunking covers	—	—	68	92.00
Trunking accessories								
553415	84	14	grey	sectionable cable retainer clip			(10 pcs)	85.00
For VTC125 - wiring duct cutter, see M-Cable & Testing Tools								

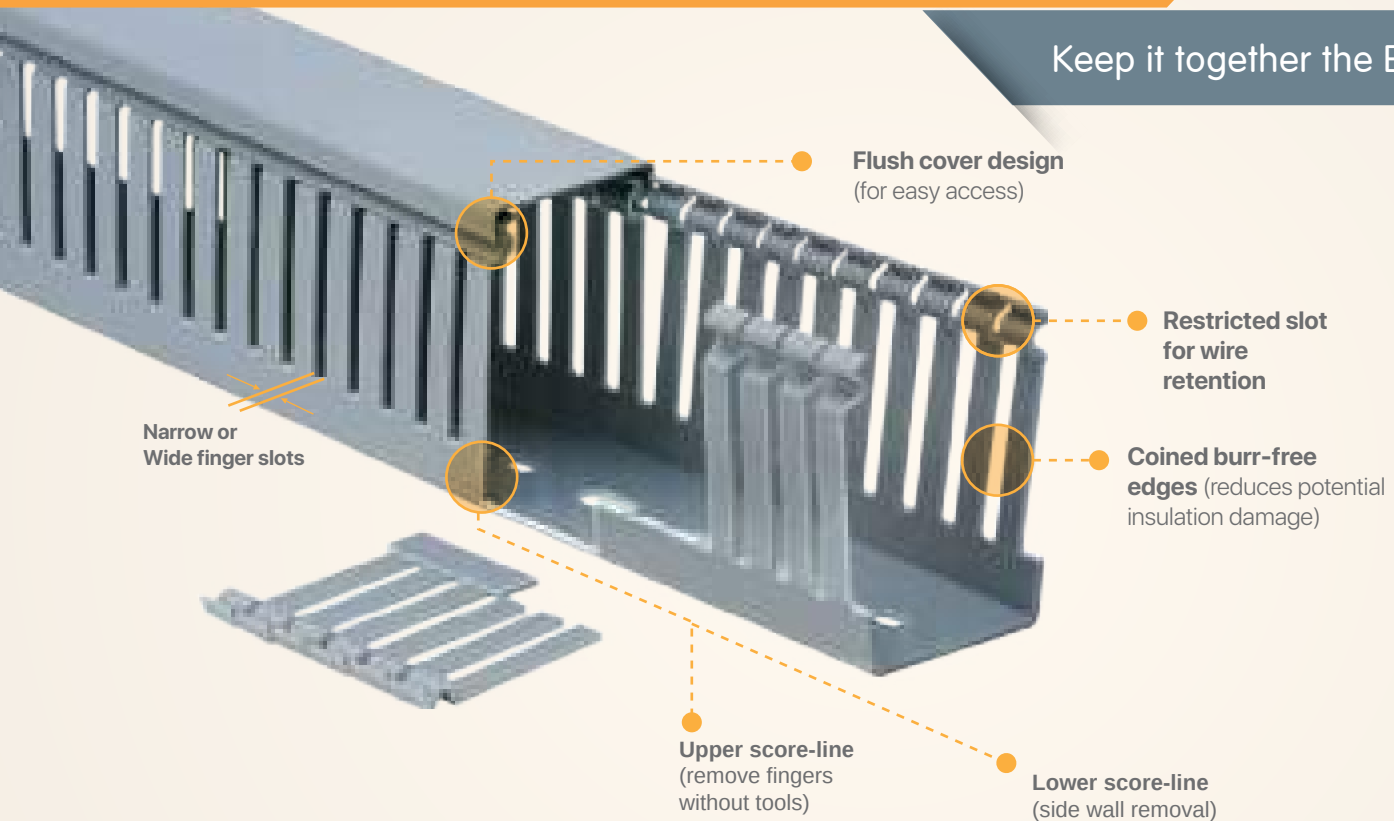


EZI CANAL
electrical cable ducting

Narrow & Wide Slotted Trunking

High impact, self-extinguishing, warp-proof rigid PVC

Keep it together the EZI way



Quick and easy to install

Simple open/close design for easy access to wiring.

Enhances aesthetics and clarity

Duct and cover form a flush sidewall to provide increased capacity.

Provides complete electrical insulation

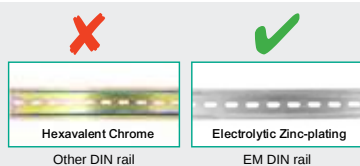
UL94 flammability rating for excellent flame retardation.



15%
OFF CARTON
QUANTITIES

15% off list price for full carton quantities of TSL trunking.

Add **/B** to end of part number (e.g **TSL025040N/B**).

**DIN mounting rail**

Passivation process for Electro DIN rail does not contain hazardous substances and complies fully with RoHS directives 2002/95/EC. New **Electrolytic zinc-plating** treatment is far superior and fully replaces previous **Hexavalent chrome** treatment which contains Lead (*usually a "yellowish" finish*) now banned in most countries.

type	rail	depth	description		length	price
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Steel mounting rail EN 60715

- High quality, galvanic zinc plating - white passivation "Cr VI free" fully **RoHS** compliant

Standard mounting rail 1 mm thick

TS35	DIN 35	7.5 mm	standard DIN mounting rail	plain	2 meter	112.00
TS35/F5A*	DIN 35	7.5 mm	standard DIN mounting rail	perforated	2 meter	110.00
TS35/SF6*	DIN 35	10 mm	standard DIN mounting rail	perforated	2 meter	165.00

Heavy duty mounting rail 1.5 mm steel

TS35/C	DIN 35	15 mm	HD standard DIN mounting rail	plain	2 meter	195.00
TS35/CF5A*	DIN 35	15 mm	HD standard DIN mounting rail	perforated	2 meter	190.00

* Perforated - slot **F5A** = 18 x 5.2 mm / **F6** = 18 x 6.3 mm (25 mm between centres)

Stainless steel mounting rail (INOX) 1 mm thick

- Perforated slot - 18 x 6.3 mm (25 mm between centres)

TS35/F6 INOX	DIN 35	7.5 mm	stainless steel DIN mounting rail	perforated	2 meter	502.00
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Aluminium mounting rail 1.1 mm thick

- Perforated slot - 20 x 4.8 mm (35 mm between centres)

ADR1200/F5A	DIN 35	7.5 mm	aluminium DIN mounting rail	perforated	2 meter	105.00
CUT-ADR	DIN 35	7.5 mm	aluminium DIN rail cutter	(for aluminium rail only)		5 130.00

Accessories for DIN rail

type	rail	high	description		mounting hole	price
TS-S M5	bracket	48 mm	angled stand-off DIN rail support bracket		M5	12.80
TST20	bracket	20 mm	steel support brackets for raising DIN rail		M6	16.70
TST30	bracket	30 mm	steel support brackets for raising DIN rail		M6	19.20
TST40	bracket	40 mm	steel support brackets for raising DIN rail		M6	22.20
TST50	bracket	50 mm	steel support brackets for raising DIN rail		M6	24.30
TST70	bracket	70 mm	steel support brackets for raising DIN rail		M6	32.10
FIX KLIP M4	DIN 35	—	M4 DIN rail mounting clip for components		M4	14.00
FIX KLIP M5	DIN 35	—	M5 DIN rail mounting clip for components		M5	14.00

Category-M

Made in Germany

GLW
Crimping Technology
DIN rail cutter (for steel mounting rail only)

DIN rail is often cut by saw or angle grinder creating dust, noise, and a considerable risk of injury. The **RC200** is a high quality, professional DIN rail cutter designed for high output, offering "burr-free" precision cut and trim of standard DIN rails.

- Incorporates two cut profiles (7.5 x 35 and 15 x 35 mm) DIN rails
- Precision "burr-free" cut and trim of DIN rail to length without waste
- Increased work safety and quiet operation

type	rail	for depth	description		price
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RC200 DIN rail cutter for DIN 35 rail 7.5 and 15 mm deep

008328	cutter	7.5 + 15 mm	DIN rail cutter (2 profiles) for 7.5/15 mm high x 35 mm rail		
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Accessories for above RC200 DIN rail cutter

009465	scale	metric scale plate and length stop for above DIN rail cutter		RC200	see Cat M for pricing.
009102	clamp	table clamp for above DIN rail cutter		RC200	

Wiring duct cutter (professional) with 1 meter graduated dimension rule + length stop

For fast, accurate cutting of wiring ducts to length without burrs and with very little force

VTC 125 wiring duct cutter (made in Italy)

- Burr-free cut edges - No noise, no chips or dust
- Quick and easy cutting - ducts cut precisely to the millimetre

VTC125	trunking	125 mm	precision slotted wiring duct (trunking) cutter		all sizes
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Drag-chain cable carriers

HKP series - Cable carriers

Also known as "drag chains, cable carriers, energy chains or cable tracks", are designed to surround and guide flexible cables connected to moving automated machinery - keeps cables neatly out of the way.

They reduce wear and stress on cables and hoses, prevent entanglement and improve operator safety. These chains move either in (*linear*): moving in a straight line or circular (*rotary*): moving in circular arcs.

Designed with an ideal bend radius, allows for smooth movement which assists to eliminates excessive wear and tear, reduces the need for cable replacements, and decreases the potential dangers of exposed wiring.

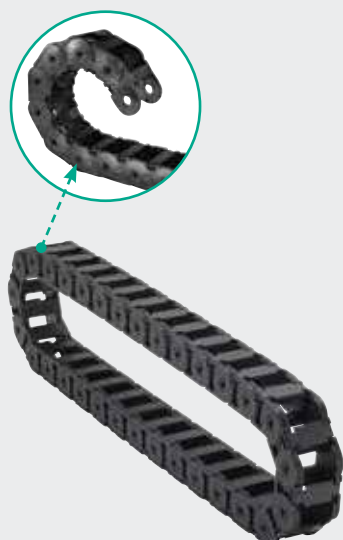
Supplied in **1 meter lengths** which can be connected to one another by internal/external connectors to make up any length requirement i.e. 1 meter can be connected and made longer by joining 2 x 1 meter lengths to make a 2 meters etc

General features:

- Open type
- Low noise
- High load resistance
- Chemical, water and temperature resistant
- Operating temperature: -25 / + 80 °C
- Supplied in 1 meter lengths (*extendable with connectors*)
- Multi-axis movement (*freely rotating between links*)
- Speed and acceleration (*specific speed, acceleration, as the case may be running*)
- Easy assembly and disassembly without threading, to the cable, tubing, pipe, pipe, etc.
- Corrosion resistance, ability or easily form into complex shapes, self-lubrication, and lower cost

Typical applications:

- Port cranes
- Machine tools
- Data centres
- Robotics
- Textile industries
- Green energy systems
- Process and automation equipment
- Vehicle transporters and washing systems



type	internal height	dimensions width	bending radius	material	description	price
15 x 15 mm cable carrier		1 meter length (extendable)				
HKP015015R1A	15 mm	15 mm	25 mm	plastic	open type cable carrier	708.00
Mounting accessories (for 15 x 15 cable carrier)						
HKP015015ZDA	15 mm	15 mm	—	plastic	internal connection	14.60
HKP015015ZEA	15 mm	15 mm	—	plastic	external connection	14.60
HKP015015ZKA	15 mm	15 mm	—	plastic	upper cable retainer/cover	7.30
20 x 25 mm cable carrier		1 meter length (extendable)				
HKP020025R3A	20 mm	25 mm	40 mm	plastic	open type cable carrier	571.00
Mounting accessories (for 20 x 25 cable carrier)						
HKP020025ZDA	20 mm	25 mm	—	plastic	internal connection	21.00
HKP020025ZEA	20 mm	25 mm	—	plastic	external connection	21.00
HKP020025ZKA	20 mm	25 mm	—	plastic	upper cable retainer/cover	8.10
40 x 60 mm cable carrier		1 meter length (extendable)				
HKP040060R5A	40 mm	60 mm	100 mm	plastic	open type cable carrier	848.00
Mounting accessories (for 40 x 60 cable carrier)						
HKP040060ZDA	40 mm	60 mm	—	plastic	internal connection	46.00
HKP040060ZEA	40 mm	60 mm	—	plastic	external connection	46.00
HKP040060ZKA	40 mm	60 mm	—	plastic	upper cable retainer/cover	10.50
HKP040060Z5A	40 mm	—	—	plastic	internal cable separator	17.00

Polyamide cable ties



Cable ties (standard)

Standard cable ties are produced exclusively in Polyamide 6.6 (Halogen-free)

Installation temperature:

-10°...+85°C

Flammability rating:

UL 94 class V2

Approvals:

UL62275 (E258930), TÜV EN62275:2015, Reach, RoHS, PAHs compliance

type	dimensions (mm)		colour	bundle Ø max. (mm)	tensile strength	description	pack qty	price (per pack)
	length	width						

Standard cable ties (black)

Black cable ties have additional carbon black providing a UV resistance for outdoor applications.

LH-M-100B	100	2.5	black	21 mm	80 N	standard cable tie	100	13.20
LH-M-150B	150	2.5	black	36 mm	80 N	standard cable tie	100	20.20
LH-I-150B	150	3.6	black	36 mm	180 N	standard cable tie	100	31.80
LH-I-250B	250	3.6	black	68 mm	180 N	standard cable tie	100	54.00
LH-I-370B	370	3.6	black	106 mm	180 N	standard cable tie	100	79.00
LH-S-200B	200	4.8	black	50 mm	230 N	standard cable tie	100	55.00
LH-S-300B	300	4.8	black	81 mm	230 N	standard cable tie	100	87.00
LH-S-390B	390	4.8	black	110 mm	230 N	standard cable tie	100	121.00
LH-HD-380B	380	7.6	black	108 mm	540 N	standard cable tie	100	219.00
LH-HD-550B	550	7.6	black	162 mm	540 N	standard cable tie	100	350.00
LH-HSD-530B	530	12.4	black	156 mm	1200 N	standard cable tie	100	649.00

Standard cable ties natural colour (white)

LH-M-100N	100	2.5	natural	21 mm	80 N	standard cable tie	100	13.20
LH-I-150N	150	3.6	natural	36 mm	180 N	standard cable tie	100	31.80
LH-I-250N	250	3.6	natural	80 mm	180 N	standard cable tie	100	54.00
LH-S-390N	390	4.8	natural	110 mm	230 N	standard cable tie	100	121.00

UV resistant cable ties

made with special additives ensuring extra resistance to UV rays

- Excellent resistance to UV rays - Suitable for PV photovoltaic installations								
LH-M-100UV	100	2.5	black	21 mm	80 N	UVE cable tie	100	15.50
LH-I-150UV	150	3.6	black	35 mm	180 N	UVE cable tie	100	38.00
LH-S-200UV	200	4.8	black	50 mm	230 N	UVE cable tie	100	68.00
LH-S-300UV	300	4.8	black	79 mm	230 N	UVE cable tie	100	107.00
LH-HD-380UV	380	7.6	black	100 mm	540 N	UVE cable tie	100	265.00

Belturing plus heavy duty cable ties

Halogen-free

Ideal for photovoltaic installations

- Highly resistant to climatic conditions (including sea areas) - Excellent resistance to UV rays - Produced with special techno-polymer providing exceptional UV resistance according to norm CEI EN 62275 (ISO 4892-2). Recommended for outdoor applications and prolonged UV exposure.								
6450XE	180	6	black	45 mm	280 N	single head lock	100	237.00
6454XE	360	6	black	100 mm	280 N	single head lock	100	630.00
LH-E-HD-265B	265	9	black	62 mm	540 N	double head lock	100	347.00
LH-E-HD-360B	360	9	black	93 mm	540 N	double head lock	100	447.00

Cable tie supports

type	max. tie		hole Ø (mm)	colour	tensile strength	dimensions (mm)			pack qty	price (per pack)
	width					(H)	(W)	(D)		

Adhesive tie mounts (fixing with self-adhesive backing or screw)

LH-MP-12/3MB	3.6 mm	M3	black	88 kg	12.5	12.5	5.0	100	49.00
LH-MP-20/3MB	3.6 mm	M4	black	88 kg	19	19	5.0	100	70.00
LH-MP-30/3MB	4.8 mm	M4	black	110 kg	28	28	6.5	100	134.00
LH-MP-40/3MB	9.0 mm	M5	black	380 kg	40	40	8.5	100	286.00
LH-MP-20/3MN	3.6 mm	M4	natural	88 kg	19	19	5.0	100	70.00
LH-MP-30/3MN	4.8 mm	M4	natural	110 kg	28	28	6.5	100	134.00

Note: for correct application of the self-adhesive mount, surfaces must be thoroughly cleaned and degreased with solvent (alcohol or similar cleaning product)

Cradles (screw down)

ideal for fixing cables and pipes in civil and industrial applications

LH-SC-M3SB	3.6 mm	M3	black	88 kg	15	9.6	6.85	100	52.00
LH-SC-M3B	4.8 mm	M4	black	110 kg	17.8	12.7	8.15	100	55.00
LH-SC-M4B	7.6 mm	M4	black	260 kg	22.3	16	9.65	100	93.00
LH-SC-M5B	9.0 mm	M5	black	380 kg	25.4	16	10.8	100	121.00

Tensioning tools for cable ties

• Metal tool for tensioning cable ties with incorporated cable tie cutting device.

5406C	3.5 - 12.5	metal tensioning and cutting tool for cable ties					1	362.00
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Stainless steel cable ties



Cable ties (stainless steel)

For use in critical applications where strength, corrosion, radiation, vibration and temperature extremes are a factor. Unique ball locking mechanism permits simple, rapid installation and secure locking in any position. High tensile strength, non flammability, UV-resistant, high resistance to acids and corrosion for a strong durable solution to bundling and mechanical fastening in harsh environments.

- Self-locking head design speeds installation and locks at any length along the tie body
- Smooth surface, rounded edges assure cable protection and worker safety

type	length (mm)	wide (mm)	thick (mm)	AISI	bundle Ø max.	description	price per (100)
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AISI 304 stainless steel for general purpose applications

Working temperature: -60°C – +550°C

Metallic band and buckle

SST4/15-04	150	4.6	0.25	304	37 mm	stainless steel cable ties	221.00
SST4/25-04	250	4.6	0.25	304	63 mm	stainless steel cable ties	242.00
SST4/35-04	350	4.6	0.25	304	89 mm	stainless steel cable ties	292.00
SST4/45-04	450	4.6	0.25	304	115 mm	stainless steel cable ties	320.00
SST4/55-04	550	4.6	0.25	304	141 mm	stainless steel cable ties	391.00
SST7/25-04	250	7.9	0.25	304	63 mm	stainless steel cable ties	334.00
SST7/45-04	450	7.9	0.25	304	115 mm	stainless steel cable ties	448.00
SST7/60-04	600	7.9	0.25	304	154 mm	stainless steel cable ties	569.00
SST7/80-04	800	7.9	0.25	304	193 mm	stainless steel cable ties	689.00

AISI 316 stainless steel - Epoxy coated for extra corrosive environments

- Black band with metallic buckle
- Coated band with non-toxic, Halogen free polyester coating
- Provides additional edge protection, prevents corrosion between dissimilar materials

SSTP4/20-16	200	4.6	0.36	316	50 mm	stainless steel cable ties	398.00
SSTP4/30-16	300	4.6	0.36	316	76 mm	stainless steel cable ties	483.00
SSTP4/40-16	400	4.6	0.36	316	102 mm	stainless steel cable ties	604.00
SSTP4/50-16	500	4.6	0.36	316	128 mm	stainless steel cable ties	697.00
SSTP7/30-16	300	7.9	0.36	316	76 mm	stainless steel cable ties	626.00
SSTP7/40-16	400	7.9	0.36	316	102 mm	stainless steel cable ties	768.00
SSTP7/60-16	600	7.9	0.36	316	154 mm	stainless steel cable ties	1 060.00
SSTP7/80-16	800	7.9	0.36	316	193 mm	stainless steel cable ties	1 340.00

Marking tags - Stainless steel (cable tie max. width 4.6 mm)

Stainless steel tie-on tags for permanent identification of cables, conduits, pipes in arduous applications where high resistance to aggressive environments is essential. (per 100)

AISI 304 stainless steel

SSM1089-04	89	9.5	0.40	304	–	stainless steel marking tags	157.00
SSM1989-04	89	19	0.40	304	–	stainless steel marking tags	228.00

AISI 316 stainless steel

SSM1089-16	89	9.5	0.40	316	–	stainless steel marking tags	178.00
SSM1989-16	89	19	0.40	316	–	stainless steel marking tags	277.00

Custom laser engraved stainless steel tags

Custom laser marking of tags and cable ties. Upper/lower case characters, detailed marking, text and graphics, high quality, crisp, clean and permanent.

- Once laser engraved the inscription remains with the product for life

SSM1089-04/PS*	89	9.5	0.40	304	price per tag	20.00
SSM1989-04/PS*	89	19	0.40	304		20.00
SSM1089-16/PS*	89	9.5	0.40	316		20.00
SSM1989-16/PS*	89	19	0.40	316		20.00

* **Print area:** L:79 x W:8.5 – ♦ **Print area:** L:79 x W:18

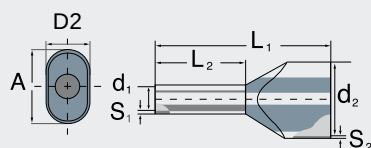
Please provide detailed information on required laser engraving of tags when ordering.

Accessories (cable tie gun)

- Tensioning tool (with auto cut) for all above stainless steel cable ties
- Adjustable tension value - (4 settings)

HS-600	tensioning and cutting tool for 4.6 and 7.9 mm SS cable ties	3 770.00
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Insulated ferrules & bootlace terminals



Crimped ferrule

**Ferrules / Wire end sleeves (Insulated)**

- Material: Tin-plated copper (min. thickness 3μ) / polypropylene collar
- CSA certified (certificate 2110332)
- DIN 46228 part 4, CSA C22.2 No. 65-93, 188-M1983

type	wire size mm ²	colour	dimensions (mm)							pack	price
			L1	L2 ¹⁾	D1	S1	D2	D3	S2	qty	per pack
Wire end sleeves with insulating collar											
• Supplied in mini bags on a strip (10 x 100 pcs). bags can be torn from strip individually											
005606	0.50	 white	14.0	8.0	1.1	0.15	2.4	—	0.30	100	25.60
005644	0.75	 blue	14.0	8.0	1.3	0.15	2.7	—	0.30	100	25.90
005718*	1.0	 red	14.0	8.0	1.5	0.15	3.3	—	0.30	100	26.30
005738*	1.0	 red	16.0	10.0	1.5	0.15	3.3	—	0.30	100	37.70
005765*	1.5	 black	14.0	8.0	1.8	0.15	3.7	—	0.30	100	26.60
005791*	1.5	 black	16.0	10.0	1.8	0.15	3.7	—	0.30	100	39.40
005808	2.5	 grey	15.0	8.0	2.3	0.15	4.1	—	0.30	100	37.30
005829	2.5	 grey	17.0	10.0	2.3	0.15	4.1	—	0.30	100	52.00
005831*	2.5	 grey	18.0	10.0	2.3	0.15	4.7	—	0.30	100	53.00
005851	4.0	 orange	18.0	10.0	2.9	0.20	4.7	—	0.30	100	55.00
007739*	4.0	 grey	18.0	10.0	2.9	0.20	6.1	—	0.30	100	55.00
005871	6.0	 green	20.0	12.0	3.6	0.20	6.1	—	0.30	100	76.00
005896	10.0	 brown	21.0	12.0	4.6	0.20	7.4	—	0.40	100	95.00
005917	16.0	 white	23.0	12.0	6.0	0.20	8.6	—	0.50	100	136.00
005950	25.0	 black	29.0	16.0	7.5	0.20	10.9	—	0.50	50	140.00
005968	35.0	 red	30.0	16.0	8.5	0.20	12.3	—	0.50	50	157.00
005980	50.0	 blue	36.0	20.0	10.5	0.30	14.8	—	0.60	50	349.00
005988	70.0	 yellow	37.0	20.0	12.7	0.40	15.8	—	0.60	25	250.00
005990	95.0	 red	44.0	25.0	14.7	0.40	17.7	—	0.60	25	467.00
005915	120.0	 blue	48.0	27.0	16.7	0.50	20.7	—	0.70	25	570.00
005916	150.0	 yellow	58.0	32.0	18.7	0.50	22.6	—	1.00	25	667.00

* Broader collar to accommodate wires with thicker insulation

Twin wire end sleeves with insulating collar (accepts two cables)

type	wire size (mm²)	colour	dimensions (mm)							pack qty	price per pack
			L1	L2 ¹⁾	D1	S1	D2	A	S2		
• Accepts two wires into one insulated end sleeve • Supplied in mini bags on a strip (10 x 100 pcs). bags can be torn from strip individually											
005613	2 x 0.5	 white	15.0	8.0	1.5	0.15	2.4	4.6	0.30	100	45.00
005653	2 x 0.75	 blue	15.0	8.0	1.8	0.15	2.7	5.4	0.30	100	48.00
005722	2 x 1.0	 red	15.0	8.0	2.1	0.15	3.3	5.3	0.30	100	58.00
005740	2 x 1.0	 red	17.0	10.0	2.1	0.15	3.3	5.3	0.30	100	80.00
005770	2 x 1.5	 black	16.0	8.0	2.3	0.15	3.5	6.5	0.30	100	60.00
005794	2 x 1.5	 black	20.0	12.0	2.3	0.15	3.5	6.5	0.30	100	78.00
005816	2 x 2.5	 grey	19.0	10.0	2.9	0.20	4.1	7.7	0.40	100	83.00
005853	2 x 4.0	 orange	23.0	12.0	3.8	0.20	4.9	8.7	0.40	100	169.00
005873	2 x 6.0	 green	25.0	14.0	4.9	0.20	6.1	9.9	0.40	100	214.00
005898	2 x 10.0	 brown	26.0	14.0	6.5	0.20	7.1	12.9	0.50	100	307.00
005921	2 x 16.0	 white	31.0	16.0	8.5	0.20	9.8	16.8	0.60	50	225.00

Wire end sleeves with insulating collar supplied in belt strips

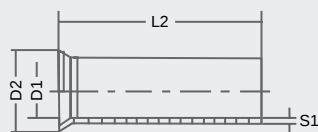
Wire end sleeves in belt form (K reels), for use in automatic cable preparation machines (see page M-4)
 Reel/cassette simply clips onto machines (500/1000 terminals per reel)

- Tape mounted supplied in type K box dispenser (box size = 150 x 150 x 18 mm)
- MC 25 - Wire stripping and crimping done in one operation using belt strip ferrules in type K box dispensers, controlled by a sophisticated cam mechanism achieving a stable working process.

type	wire size (mm ²)	colour	dimensions (mm)							reel qty	price per reel
			L1	L2 ¹⁾	D1	S1	D2	centre	S2		
005611	0.50	white	14.5	8.0	1.1	0.15	2.6	3.5	0.25	1000	475.00
005649	0.75	blue	14.5	8.0	1.3	0.15	2.7	3.6	0.25	1000	481.00
005720	1.0	red	14.5	8.0	1.5	0.15	3.0	3.9	0.30	1000	484.00
005767	1.5	black	14.5	8.0	1.8	0.15	3.2	4.2	0.30	1000	489.00
005813	2.5	grey	14.5	8.0	2.3	0.15	4.1	5.0	0.30	500	299.00

¹⁾ Other lengths available on request

Uninsulated ferrules & bootlace terminals



Ferrules / Wire end sleeves (uninsulated)

Uninsulated ferrule prevents wire strands from fraying and breaking and is extremely cost-effective. Its shorter length and uninsulated body offer advantages when making terminations in printed circuit board terminal blocks and in other terminal blocks with smaller clamps or narrow widths.

General features:

- Material: Tin-plated copper (*min.thickness 3μ*)
- CSA certified (*certificate 2110332*)
- DIN 46228 part 4, CSA C22.2 No. 65-93, 188-M1983
- Supplied in standard bulk pack quantity (*size dependant*)

type	wire size (mm ²)	dimensions (mm)				description	pack qty	price per pack
		L2 ¹⁾	D1	D2	S1			

Uninsulated wire end sleeve (cord end / bootlace terminals)

006010	0.50	—	10.0	1.0	2.1	0.15	uninsulated ferrules	1000	205.00
006015	0.75	—	10.0	1.2	2.3	0.15	uninsulated ferrules	1000	211.00
006022	1.0	—	10.0	1.4	2.5	0.15	uninsulated ferrules	1000	215.00
006031	1.5	—	10.0	1.7	2.8	0.15	uninsulated ferrules	1000	233.00
006045	2.5	—	12.0	2.2	3.4	0.15	uninsulated ferrules	1000	324.00
006053	4.0	—	12.0	2.8	4.0	0.2	uninsulated ferrules	1000	437.00
006060	6.0	—	12.0	3.5	4.7	0.2	uninsulated ferrules	1000	427.00
006068	10.0	—	12.0	4.5	5.8	0.2	uninsulated ferrules	500	324.00
006079	16.0	—	12.0	5.8	7.5	0.2	uninsulated ferrules	250	181.00
006091	25.0	—	15.0	7.3	9.5	0.2	uninsulated ferrules	100	142.00
006098	35.0	—	18.0	8.3	11.0	0.2	uninsulated ferrules	100	191.00
006102	50.0	—	18.0	10.3	13.0	0.3	uninsulated ferrules	100	357.00
006107	70.0	—	25.0	12.5	15.0	0.4	uninsulated ferrules	100	780.00
006109	95.0	—	25.0	14.5	17.0	0.4	uninsulated ferrules	50	507.00
006075	120.0	—	32.0	16.5	19.0	0.5	uninsulated ferrules	50	706.00

Available in smaller (from 0.25 mm²) and larger wire sizes (up to 240 mm²)

¹⁾ Other lengths available on request



4300-4661



4300-3129

4300-3149

Category-M

made in Sweden

pressmaster

Crimping tools for wire end sleeves

type	for terminals	conductor (mm ²)	cable entry	description	price
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Pressmaster - Professional self-adjusting crimping tool

- High precision die geometry for a clearly defined square crimp shape of the ferrule
- Automatic self-adjustment to required wire size

4300-4661	ferrules	0.14...10	side	professional self-adjusting crimping tool	
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Mobile frame system - with interchangeable dies for various terminals

Lightweight, compact ratchet crimp tool designed for most types of mechanical, electrical and electronic connectors. Easily interchangeable crimp dies are kept together with a special pin to simplify handling.

- Reliable crimping performance consistent and accurate with a parallel action stroke.
- Easy-access release for fast, simple exchange of crimp dies (*no special tools required*)

4300-3149	die dependant		side	MCT frame only for interchangeable dies	
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Interchangeable die sets for above tool frame

- A wide range of crimp dies to cover all applications in just one tool frame.
- Dies are kept in pairs and delivered in a modular reusable box.

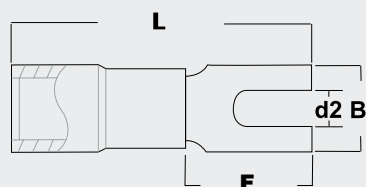
4300-3129	insulated	0.5 to 4	side	red/blue insulated terminal crimping die set	
4300-3128	insulated	4 to 6	side	yellow insulated terminal crimping die set	
4300-3137	uninsulated	0.75 to 2.5	side	cable lug crimping die set	
4300-3139	uninsulated	4 to 10	side	cable lug crimping die set	
4300-3127	end sleeves	0.25 to 10	side	wire end sleeve crimping die set	
4300-3153	end sleeves	16 to 25	side	wire end sleeve crimping die set	
4300-3154	end sleeves	35 to 50	side	wire end sleeve crimping die set	
4300-3146	open barrel	0.5 to 6	side	open barrel connector crimping die set	
4300-3136	coaxial	RG58/59/62/71	side	coaxial connector crimping die set	

Consult the category **M-Tools** section of our catalogue for hydraulic crimpers and die sets

see
Cat M for
pricing.

Pre-insulated terminals

- Maximum electrical rating: 600V
- Operating temperature: 105°C
- Material: Terminal: Copper (*tin plated*)
Insulation: Vinyl (PVC)



type	colour		wire size mm²	description	dimensions (mm)			pack qty	price
					d2	B	L		
Ring terminals									
R1-3V	red		0.5 - 1.5	insulated ring lug	3.2	5.5	16.7	100	84.00
R1-3.5MV	red		0.5 - 1.5	insulated ring lug	3.7	5.5	16.7	100	98.00
R1-4SV	red		0.5 - 1.5	insulated ring lug	4.3	6.6	19.6	100	96.00
R1-4LV	red		0.5 - 1.5	insulated ring lug	4.3	8.0	21.0	100	108.00
R1-5V	red		0.5 - 1.5	insulated ring lug	5.3	8.0	21.0	100	99.00
R1-6V	red		0.5 - 1.5	insulated ring lug	6.5	11.6	26.8	100	152.00
R1-8V	red		0.5 - 1.5	insulated ring lug	8.4	11.6	26.8	100	152.00
R1-10V	red		0.5 - 1.5	insulated ring lug	10.5	13.6	30.7	100	163.00
R1-12V	red		0.5 - 1.5	insulated ring lug	13	19.2	35.6	100	283.00
R2-3V	blue		1.5 - 2.5	insulated ring lug	3.2	6.4	17.5	100	102.00
R2-3.5MV	blue		1.5 - 2.5	insulated ring lug	3.7	6.4	17.5	100	111.00
R2-4SV	blue		1.5 - 2.5	insulated ring lug	4.3	6.6	19.5	100	103.00
R2-4LV	blue		1.5 - 2.5	insulated ring lug	4.3	8.5	22.0	100	140.00
R2-5SV	blue		1.5 - 2.5	insulated ring lug	5.3	8.5	22.0	100	123.00
R2-6V	blue		1.5 - 2.5	insulated ring lug	6.5	12.0	27.0	100	179.00
R2-8V	blue		1.5 - 2.5	insulated ring lug	8.4	12.0	27.0	100	177.00
R2-10V	blue		1.5 - 2.5	insulated ring lug	10.5	13.6	30.7	100	190.00
R2-12V	blue		1.5 - 2.5	insulated ring lug	13	19.2	35.6	100	294.00
R5-3V	yellow		4.0 - 6.0	insulated ring lug	3.2	7.2	22.0	100	189.00
R5-3.5SV	yellow		4.0 - 6.0	insulated ring lug	3.7	7.2	22.0	100	189.00
R5-4SV	yellow		4.0 - 6.0	insulated ring lug	4.3	7.2	25.5	100	183.00
R5-4LV	yellow		4.0 - 6.0	insulated ring lug	4.3	9.5	25.5	100	237.00
R5-5V	yellow		4.0 - 6.0	insulated ring lug	5.3	9.5	25.5	100	221.00
R5-6V	yellow		4.0 - 6.0	insulated ring lug	6.5	12.0	29.0	100	264.00
R5-8V	yellow		4.0 - 6.0	insulated ring lug	8.4	15.0	33.7	100	326.00
R5-10V	yellow		4.0 - 6.0	insulated ring lug	10.5	15.0	33.7	100	326.00
R5-12V	yellow		4.0 - 6.0	insulated ring lug	13.0	9.2	38.1	100	403.00
Fork / Spade terminals									
S1-3V	red		0.5 - 1.5	insulated fork lug	3.2	5.8	21.0	100	93.00
S1-3.5SV	red		0.5 - 1.5	insulated fork lug	3.7	5.8	21.0	100	91.00
S1-3.5MV	red		0.5 - 1.5	insulated fork lug	3.7	6.4	20.6	100	94.00
S1-4SV	red		0.5 - 1.5	insulated fork lug	4.3	6.4	20.6	100	91.00
S1-4MV	red		0.5 - 1.5	insulated fork lug	4.3	7.2	21.0	100	100.00
S1-5SV	red		0.5 - 1.5	insulated fork lug	5.3	8.0	21.0	100	107.00
S1-6SV	red		0.5 - 1.5	insulated fork lug	6.5	9.5	21.0	100	112.00
S2-3V	blue		1.5 - 2.5	insulated fork lug	3.2	5.8	21.0	100	111.00
S2-3.5SV	blue		1.5 - 2.5	insulated fork lug	3.7	5.8	21.0	100	110.00
S2-3.5MV	blue		1.5 - 2.5	insulated fork lug	3.7	6.4	21.0	100	111.00
S2-4SV	blue		1.5 - 2.5	insulated fork lug	4.3	6.4	21.0	100	108.00
S2-4LV	blue		1.5 - 2.5	insulated fork lug	4.3	8.5	22.0	100	132.00
S2-5SV	blue		1.5 - 2.5	insulated fork lug	5.3	8.5	22.0	100	127.00
S2-6SV	blue		1.5 - 2.5	insulated fork lug	6.5	9.5	22.0	100	131.00
S5-4SV	yellow		4.0 - 6.0	insulated fork lug	4.3	8.5	25.2	100	210.00
S5-5V	yellow		4.0 - 6.0	insulated fork lug	5.3	9.5	25.2	100	210.00
S5-6SV	yellow		4.0 - 6.0	insulated fork lug	6.5	9.5	25.2	100	200.00
Pin terminals									
PT1-10V	red		0.5 - 1.5	insulated pin lug	1.9	10.5	20.5	100	106.00
PT2-10V	blue		1.5 - 2.5	insulated pin lug	1.9	10.5	20.5	100	119.00
PT2-12V	blue		1.5 - 2.5	insulated pin lug	1.9	12.5	22.5	100	133.00
PT5-13V	yellow		4.0 - 6.0	insulated pin lug	2.8	13.7	26.2	100	253.00
Ferrule / butt connector									
BB1V	red		0.5 - 1.5	insulated ferrule	1.7	—	26.0	100	93.00
BB2V	blue		1.5 - 2.5	insulated ferrule	2.3	—	26.0	100	109.00
BB5V	yellow		4.0 - 6.0	insulated ferrule	2.3	—	26.0	100	188.00

Pre- insulated terminals

	type	colour		wire size mm ²	description	dimensions (mm)			pack qty	price
						d2	B	L		
	Flat-blade terminal									
	BT1-10V	red		0.5 - 1.5	insulated flat blade lug	2.4	10.7	20.7	100	92.00
	BT1-14V	red		0.5 - 1.5	insulated flat blade lug	3	14	24	100	105.00
	BT1-18V	red		0.5 - 1.5	insulated flat blade lug	2.4	18	28	100	107.00
	BT2-10V	blue		1.5 - 2.5	insulated flat blade lug	2.4	10.7	20.7	100	104.00
	BT2-13V	blue		1.5 - 2.5	insulated flat blade lug	2.4	13	23	100	108.00
	BT2-18V	blue		1.5 - 2.5	insulated flat blade lug	2.4	18	28	100	119.00
	BT5-10V	yellow		4.0 - 6.0	insulated flat blade lug	2.8	10	22.5	100	191.00
BT5-18V	yellow		4.0 - 6.0	insulated flat blade lug	3	18	30.5	100	211.00	
	Hook-blade terminal									
	LB1-3V	red		0.5 - 1.5	insulated hook blade lug	3.0	18.0	28.0	100	128.00
	LB1-4.6V	red		0.5 - 1.5	insulated hook blade lug	4.6	18.0	28.0	100	147.00
	LB2-3V	blue		1.5 - 2.5	insulated hook blade lug	3.0	18.0	28.0	100	145.00
	LB2-4.6V	blue		1.5 - 2.5	insulated hook blade lug	4.6	18.0	28.0	100	166.00
	LB5-3V	yellow		4.0 - 6.0	insulated hook blade lug	3.0	17.5	30.0	100	206.00
LB5-4.6V	yellow		4.0 - 6.0	insulated hook blade lug	4.6	17.5	30.0	100	232.00	
	Female disconnect terminals "push-on"									
	F1-2.8V/5	red		0.5 - 1.5	female disconnect	2.8	3.2	18.5	100	64.00
	F1-2.8VD/5*	red		0.5 - 1.5	female disconnect	2.8	3.2	18.5	100	120.00
	F1-4.8V/5	red		0.5 - 1.5	female disconnect	4.8	5.0	19.0	100	77.00
	F1-4.8VD/5*	red		0.5 - 1.5	female disconnect	4.8	5.0	19.0	100	141.00
	F1-6.4V	red		0.5 - 1.5	female disconnect	6.4	6.6	21.0	100	100.00
	F1-6.4VF	red		0.5 - 1.5	fully insulated disconnect	6.4	6.6	22.0	100	116.00
	F1-6.4VD*	red		0.5 - 1.5	female disconnect	6.4	6.6	21.0	100	154.00
	F1-6.4VQD*	 red		0.5 - 1.5	fully insulated disconnect	6.4	6.6	21.5	100	191.00
	F2-2.8VD/5*	blue		1.5 - 2.5	female disconnect	2.8	3.2	18.5	100	129.00
	F2-4.8V/5	blue		1.5 - 2.5	female disconnect	4.8	5.0	19.0	100	84.00
	F2-4.8VD/5*	blue		1.5 - 2.5	female disconnect	4.8	5.0	19.0	100	151.00
	F2-6.4V	blue		1.5 - 2.5	female disconnect	6.4	6.6	21.0	100	105.00
	F2-6.4VF	blue		1.5 - 2.5	fully insulated disconnect	6.4	6.6	22.0	100	120.00
	F2-6.4VD*	blue		1.5 - 2.5	female disconnect	6.4	6.6	21.0	100	163.00
	F2-6.4VQD*	 blue		1.5 - 2.5	fully insulated disconnect	6.4	6.6	21.5	100	202.00
	F2-8V	blue		1.5 - 2.5	female disconnect	8.0	8.4	24.0	100	150.00
	F2-8VD*	blue		1.5 - 2.5	female disconnect	8.0	8.4	24.0	100	216.00
	F5-6.4V	yellow		4.0 - 6.0	female disconnect	6.4	6.6	23.5	100	118.00
	F5-6.4VD*	yellow		4.0 - 6.0	female disconnect	6.4	6.6	23.5	100	231.00
	F5-6.4VQD*	 yellow		4.0 - 6.0	fully insulated disconnect	6.4	6.6	24.5	100	280.00
	F5-9.5V	yellow		4.0 - 6.0	female disconnect	9.5	9.9	28.5	100	236.00
F5-9.5VD*	yellow		4.0 - 6.0	female disconnect	9.5	9.9	28.5	100	376.00	
* Twin-grip crimp ■ Square entry / twin-grip / fully insulated										
	Male disconnect terminals "push-on"									
	M1-2.8V/5	red		0.5 - 1.5	male disconnect	—	2.8	19.2	100	79.00
	M1-2.8VD/5*	red		0.5 - 1.5	male disconnect	—	2.8	19.2	100	138.00
	M1-4.8V/5	red		0.5 - 1.5	male disconnect	—	4.8	19.2	100	79.00
	M1-4.8VD/5*	red		0.5 - 1.5	male disconnect	—	4.8	19.2	100	141.00
	M1-6.4V	red		0.5 - 1.5	male disconnect	—	6.4	21.2	100	88.00
	M1-6.4VD*	red		0.5 - 1.5	male disconnect	—	6.4	21.2	100	141.00
	M2-2.8V/5	blue		1.5 - 2.5	male disconnect	—	2.8	19.2	100	83.00
	M2-2.8VD/5*	blue		1.5 - 2.5	male disconnect	—	2.8	19.2	100	162.00
	M2-4.8V/5	blue		1.5 - 2.5	male disconnect	—	4.8	19.2	100	84.00
	M2-4.8VD/5*	blue		1.5 - 2.5	male disconnect	—	4.8	19.2	100	167.00
	M2-6.4V	blue		1.5 - 2.5	male disconnect	—	4.8	21.2	100	92.00
	M2-6.4VD*	blue		1.5 - 2.5	male disconnect	—	4.8	21.2	100	162.00
	M5-6.4V	yellow		4.0 - 6.0	male disconnect	—	6.4	23.2	100	107.00
M5-6.4VD*	yellow		4.0 - 6.0	male disconnect	—	6.4	23.7	100	237.00	
* Twin-grip crimp										

Pre-insulated terminals

	type	colour	wire size mm ²	description	dimensions (mm)			pack qty	price	
					d2	B	L			
	Piggy back disconnect terminals "push-on"									
	PB1-6.4V	red	■	0.5 - 1.5	piggy-back disconnect	6.4	6.6	21.0	100	168.00
	PB1-6.4VD*	red	■	0.5 - 1.5	piggy-back disconnect	6.4	6.6	21.0	100	220.00
	PB2-6.4V	blue	■	1.5 - 2.5	piggy-back disconnect	6.4	6.6	21.0	100	172.00
	PB2-6.4VD*	blue	■	1.5 - 2.5	piggy-back disconnect	6.4	6.6	21.0	100	229.00
	PB5-6.4V	yellow	■	4.0 - 6.0	piggy-back disconnect	6.4	6.6	23.5	100	185.00
	PB5-6.4VD*	yellow	■	4.0 - 6.0	piggy-back disconnect	6.4	6.6	23.5	100	298.00
	* Twin-grip crimp									
	Male bullet disconnect									
	BD1-4V	red	■	0.5 - 1.5	male bullet disconnect	—	4.0	21.0	100	92.00
BD1-4VD*	red	■	0.5 - 1.5	male bullet disconnect	—	4.0	21.0	100	160.00	
BD2-5V	blue	■	1.5 - 2.5	male bullet disconnect	—	5.0	21.0	100	106.00	
BD2-5VD*	blue	■	1.5 - 2.5	male bullet disconnect	—	5.0	21.0	100	185.00	
BD5-5V	yellow	■	4.0 - 6.0	male bullet disconnect	—	5.0	23.0	100	131.00	
BD5-5VD*	yellow	■	4.0 - 6.0	male bullet disconnect	—	5.0	23.0	100	271.00	
* Twin-grip crimp										
	Female bullet disconnect									
	RE1-4VF	red	■	0.5 - 1.5	female bullet disconnect	—	4.0	22.0	100	113.00
	RE1-4VFD*	red	■	0.5 - 1.5	female bullet disconnect	—	4.0	22.5	100	186.00
	RE2-5VF	blue	■	1.5 - 2.5	female bullet disconnect	—	5.0	23.5	100	138.00
	RE2-5VFD*	blue	■	1.5 - 2.5	female bullet disconnect	—	5.0	23.5	100	213.00
	RE5-5VF	yellow	■	4.0 - 6.0	female bullet disconnect	—	5.0	25.5	100	148.00
	RE5-5VFD*	yellow	■	4.0 - 6.0	female bullet disconnect	—	5.0	25.0	100	291.00
	* Twin-grip crimp									
	Quick-splice connectors									
	SP1	red	■	0.5 - 1.5	quick-splice connector	—	20.0	26.8	100	117.00
SP2	blue	■	1.5 - 2.5	quick-splice connector	—	20.0	26.8	100	106.00	
SP5	yellow	■	4.0 - 6.0	quick-splice connector	—	20.0	35.0	100	205.00	
	Insulated cord-end (boot lace) terminals									
	CE007508F	blue	■	0.75	cord-end terminal	1.2	14.0	8.0	500	162.00
	CE010010F	red	■	1.0	cord-end terminal	1.4	16.0	10.0	500	182.00
	CE015010F	black	■	1.5	cord-end terminal	1.7	16.0	10.0	500	182.00
	CE025012F	grey	■	2.5	cord-end terminal	2.2	18.0	12.0	500	240.00
	CE040012F	orange	■	4.0	cord-end terminal	2.8	20.0	12.0	500	369.00
	CE060012F	green	■	6.0	cord-end terminal	3.5	20.0	12.0	500	424.00
	CE100012F	brown	■	10.0	cord-end terminal	4.5	22.0	12.0	500	521.00
	CE160012F	ivory	■	16.0	cord-end terminal	5.8	24.0	12.0	500	733.00
	CE250016F	black	■	25.0	cord-end terminal	7.3	30.0	16.0	500	1 180.00
	Shrink solder seal sleeves IP67									
	Transparent heat shrinkable insulation sleeve provides encapsulation, inspection, strain relief and insulation. One piece design, consists of transparent heat shrinkable sleeve with coloured hot-melt glue on either side of tube with internal fast melting fluxed solder providing a insulated very convenient connection of wires.									
	- Waterproof, heat shrinkable, transparent sleeve provides precise inspection - Colored hot-melt adhesive for easy Identification and improved strain relief - Polyolefin heat shrink butt connectors - shrink ratio 2:1									
	Operating temperature: -55°C ~ +125°C (Min. shrink temp. 60°C)									
	Voltage resistant: >600V									
	Volume Resistivity (Ω cm): ≥10 15									
	Dielectric Strength (KV/mm): ≥25									
	type	colour	wire size mm ²	description	dimensions (mm)			price per (100)		
					L	Ø max.	Ø min.			
	HP-SST-200-02	red	■	0.5...1	shrink seal solder sleeve	40	2.7	1.3	653.00	
HP-SST-200-03	blue	■	1.5...2.5	shrink seal solder sleeve	40	4.5	1.8	746.00		
HP-SST-200-04	yellow	■	4.4-6.0	shrink seal solder sleeve	40	6.0	2.8	954.00		
Crimping tools for pre-insulated terminals										
Crimping profiles for different wire cross-sections (red/blue/yellow)										
JSL 1305-1	universal crimping tool for: red / blue / yellow pre-insulated terminals									

JSL 1305-1

JSL 1305-1

see
Cat M for
pricing.

Above ZAR prices do not include VAT. E&OE

Crimping lugs



ANE3-M8



ANE3-U5



ANE7-P20



HNN4

Insulated crimping lugs for copper conductors

ANE-M series lugs manufactured from electrolytic copper tube annealed and tin plated, designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.

- Material: Electrolytic Copper - Insulated sleeve: PA6.6 (-20 to 115°C)
- Conformity: UNI EN 13600:2003

General features

- ANE-M lugs are annealed to guarantee optimum ductility which is an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
- The interior of the PA6.6 insulation sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.
- The PA6.6 insulated sleeve eliminates the need to insulate the terminal by either taping or using heat shrinkable tubes. Furthermore the PA6.6 sleeve avoids the possibility of conductor breakage at the barrel entrance.

type	cable (mm ²)	Ø stud (mm)	palm width (mm)	description	std pack qty	price per pack
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ANE-M series - Insulated crimping lugs

ANE2-M4	10	4.3	10	heavy duty ins. ring lug	100	1 710.00
ANE2-M5	10	5.3	10	heavy duty ins. ring lug	100	1 660.00
ANE2-M6	10	6.4	11	heavy duty ins. ring lug	100	1 280.00
ANE2-M8	10	8.4	15	heavy duty ins. ring lug	100	1 350.00
ANE3-M4	16	4.3	11.5	heavy duty ins. ring lug	100	1 800.00
ANE3-M5	16	5.3	11.5	heavy duty ins. ring lug	100	1 800.00
ANE3-M6	16	6.4	11.5	heavy duty ins. ring lug	100	1 350.00
ANE3-M8	16	8.4	15	heavy duty ins. ring lug	100	1 830.00
ANE5-M5	25	5.3	14	heavy duty ins. ring lug	100	2 480.00
ANE5-M6	25	6.4	14	heavy duty ins. ring lug	100	2 480.00
ANE5-M8	25	8.4	15	heavy duty ins. ring lug	100	2 520.00
ANE5-M10	25	10.5	18	heavy duty ins. ring lug	100	2 650.00
ANE7-M6	35	6.4	17	heavy duty ins. ring lug	50	1 700.00
ANE7-M8	35	8.4	17	heavy duty ins. ring lug	50	1 710.00
ANE7-M10	35	10.5	19	heavy duty ins. ring lug	50	1 830.00
ANE7-M12	35	13.2	21	heavy duty ins. ring lug	50	2 280.00
ANE10-M6	50	6.4	19	heavy duty ins. ring lug	50	2 180.00
ANE10-M8	50	8.4	19	heavy duty ins. ring lug	50	2 290.00
ANE10-M10	50	10.5	20	heavy duty ins. ring lug	50	2 420.00
ANE10-M12	50	13.2	21	heavy duty ins. ring lug	50	2 440.00

ANE-U series - Insulated fork lugs

ANE2-U4	10	4.3	9.8	heavy ins. duty fork lug	100	1 660.00
ANE2-U5	10	5.3	11.5	heavy ins. duty fork lug	100	1 710.00
ANE3-U4	16	4.3	10.0	heavy ins. duty fork lug	100	1 830.00
ANE3-U5	16	5.3	11.5	heavy ins. duty fork lug	100	1 830.00

ANE-P series - Insulated pin lugs

ANE2-P12	10	L-14.5	4.3	heavy duty pin lug	100	1 710.00
ANE3-P14	16	L-18.0	5.5	heavy duty pin lug	100	1 350.00
ANE5-P16	25	L-20.3	7.0	heavy duty pin lug	100	2 900.00
ANE7-P20	35	L-25.3	8.0	heavy duty pin lug	50	2 170.00

Category-M

Cembre - Crimpstar range - Ratchet crimping tools

HNN ratchet controlled tools in the Crimpstar range, are compact, lightweight and easy to use.

General features:

- High precision investment cast jaws
- Toggle action leverage to reduce operator effort
- Ergonomically designed non-slip moulded plastic grips
- Ratchet controlled to ensure precise and consistent crimping
- Emergency release lever (releases jaws before completion of crimp)
- Factory-set ratchet for crimping control (automatic release on completion of crimping operation)

see
Cat M for
pricing.

type	for terminals	conductor (mm ²)	cable entry	description	price
HNN3	insulated	1.5 to 10	side	manual indent ratchet crimping tool	
HNN4	insulated	10 to 16	side	manual indent ratchet crimping tool	

Crimping lugs

**Crimping lugs for copper conductors**

The copper lugs in the A-M range are crafted from high-purity electrolytic copper, ensuring superior electrical conductivity and mechanical strength.

Designed to withstand rigorous conditions, including vibration and pull-out resistance, these lugs are annealed to optimize ductility, which is crucial during crimping and installation.

The lugs are also tin-plated to prevent oxidation, further enhancing their durability in various applications

• Material: Electrolytic Copper - annealed and Tin plated



type	cable (mm ²)	Ø stud (mm)	palm width (mm)	description	std pack qty	price per pack
A03-M4	1.5	4.3	6.5	heavy duty crimping lug	100	225.00
A03-M5	1.5	5.3	7.5	heavy duty crimping lug	100	225.00
A03-M6	1.5	6.4	9.0	heavy duty crimping lug	100	225.00
A06-M4	2.5	4.3	7.5	heavy duty crimping lug	100	245.00
A06-M5	2.5	5.3	8.5	heavy duty crimping lug	100	245.00
A06-M6	2.5	6.4	9.0	heavy duty crimping lug	100	245.00
A06-M8	2.5	6.4	9.0	heavy duty crimping lug	100	257.00
A1-M4	4-6	4.3	8.0	heavy duty crimping lug	100	303.00
A1-M5	4-6	5.3	9.0	heavy duty crimping lug	100	328.00
A1-M6	4-6	6.4	11.0	heavy duty crimping lug	100	322.00
A1-M8	4-6	6.4	11.0	heavy duty crimping lug	100	354.00
A1-M10	4-6	6.4	11.0	heavy duty crimping lug	100	392.00
A2-M4	10	4.3	10	heavy duty crimping lug	100	450.00
A2-M5	10	5.3	10	heavy duty crimping lug	100	450.00
A2-M6	10	6.4	11	heavy duty crimping lug	100	450.00
A2-M8	10	8.4	15	heavy duty crimping lug	100	553.00
A2-M10	10	8.4	15	heavy duty crimping lug	100	591.00
A3-M4	16	4.3	11.5	heavy duty crimping lug	100	546.00
A3-M5	16	5.3	11.5	heavy duty crimping lug	100	546.00
A3-M6	16	6.4	11.5	heavy duty crimping lug	100	546.00
A3-M8	16	8.4	15	heavy duty crimping lug	100	598.00
A3-M10	16	8.4	15	heavy duty crimping lug	100	630.00
A3-M12	16	8.4	15	heavy duty crimping lug	100	771.00
A5-M6	25	6.4	14	heavy duty crimping lug	100	919.00
A5-M8	25	8.4	15	heavy duty crimping lug	100	919.00
A5-M10	25	10.5	18	heavy duty crimping lug	100	964.00
A5-M12	25	13.2	21	heavy duty crimping lug	100	1 150.00
A7-M6	35	6.4	17	heavy duty crimping lug	100	1 350.00
A7-M8	35	8.4	17	heavy duty crimping lug	100	1 350.00
A7-M10	35	10.5	19	heavy duty crimping lug	100	1 350.00
A7-M12	35	13.2	21	heavy duty crimping lug	50	768.00
A10-M6	50	6.4	19	heavy duty crimping lug	50	893.00
A10-M8	50	8.4	19	heavy duty crimping lug	50	893.00
A10-M10	50	10.5	20	heavy duty crimping lug	50	893.00
A10-M12	50	13.2	21	heavy duty crimping lug	50	1 040.00
A10-M16	50	13.2	21	heavy duty crimping lug	50	1 130.00
A14-M8	70	8.4	21	heavy duty crimping lug	50	1 470.00
A14-M10	70	10.5	21	heavy duty crimping lug	50	1 470.00
A14-M12	70	13.2	22	heavy duty crimping lug	50	1 470.00
A14-M16	70	17.0	26	heavy duty crimping lug	50	1 740.00
A19-M10	95	10.5	25	heavy duty crimping lug	25	1 060.00
A19-M12	95	13.2	25	heavy duty crimping lug	25	1 060.00
A19-M16	95	17.0	27	heavy duty crimping lug	25	1 210.00
A24-M8	120	10.5	28.5	heavy duty crimping lug	25	1 390.00
A24-M10	120	10.5	28.5	heavy duty crimping lug	25	1 390.00
A24-M12	120	13.2	28.5	heavy duty crimping lug	25	1 390.00
A24-M16	120	17.0	28.5	heavy duty crimping lug	25	1 630.00
A30-M10	150	10.5	31.5	heavy duty crimping lug	25	2 090.00
A30-M12	150	13.2	31.5	heavy duty crimping lug	25	1 930.00
A30-M16	150	17.0	31.5	heavy duty crimping lug	25	2 090.00
A37-M10	185	10.5	35.5	heavy duty crimping lug	15	1 590.00
A37-M12	185	13.2	35.5	heavy duty crimping lug	15	1 690.00
A37-M16	185	17.0	35.5	heavy duty crimping lug	15	1 790.00
A48-M12	240	13.2	39	heavy duty crimping lug	10	1 510.00
A48-M16	240	17.0	39	heavy duty crimping lug	10	1 930.00
A48-M20	240	21.0	39	heavy duty crimping lug	10	1 800.00

For contained palm lugs see page **L-24**

Crimping lugs



Contained palm crimping lugs

These crimping lugs feature a contained palm width, specifically designed for LV circuit breakers with reduced space termination. The contained palm permits immediate and easier installation.

type	cable (mm ²)	Ø stud (mm)	palm width (mm)	description	std pack qty	price per lug
A19B-M8/15.5	95	M8	15.5	contained palm cable lug	25	89.00
A24B-M8/19	120	M8	19.0	contained palm cable lug	25	180.00
A30B-M8/19	150	M8	19.0	contained palm cable lug	25	222.00
A37B-M10/24.5	185	M10	24.5	contained palm cable lug	15	246.00
A48-M10/31	240	M10	31.0	contained palm cable lug	10	322.00

L-M series - Uninsulated through connectors (ferrules)

L-M range of connectors are designed for jointing low voltage conductors. Are electrolytically tin plated with a minimum thickness of 3µm to avoid oxidation

These connectors are annealed to guarantee optimum ductility which is an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.

They feature an internal taper at both ends to ease the introduction of the conductor and a central stop to ensure correct positioning.

Manufactured from electrolytic copper tube Cu-OF CW008A conform to UNI EN 13600:2013

type	cable (mm ²)	length (mm)	description	pack qty	price per pack
L03-M	1.5	L-15	heavy duty uninsulated crimp ferrules	100	335.00
L06-M	2.5	L-15	heavy duty uninsulated crimp ferrules	100	385.00
L1-M	4 - 6	L-22	heavy duty uninsulated crimp ferrules	100	553.00
L2-M	10	L-25	heavy duty uninsulated crimp ferrules	100	1 080.00
L3-M	16	L-27	heavy duty uninsulated crimp ferrules	100	1 140.00
L5-M	25	L-29	heavy duty uninsulated crimp ferrules	100	1 550.00
L7-M	35	L-33	heavy duty uninsulated crimp ferrules	100	2 460.00
L10-M	50	L-37	heavy duty uninsulated crimp ferrules	50	1 610.00
L14-M	70	L-39	heavy duty uninsulated crimp ferrules	50	2 010.00
L19-M	95	L-43	heavy duty uninsulated crimp ferrules	25	1 580.00
L24-M	120	L-47	heavy duty uninsulated crimp ferrules	25	2 350.00
L30-M	150	L-58	heavy duty uninsulated crimp ferrules	25	3 230.00
L37-M	185	L-64	heavy duty uninsulated crimp ferrules	15	2 650.00
L48-M	240	L-75	heavy duty uninsulated crimp ferrules	10	2 590.00

Category-M

Hydraulic crimping / cutting tools

type	for terminals	conductor (mm ²)	crimping force (kN)	description	price
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- Spring loaded handles, dies can be advanced using only one hand
- Supplied with sturdy plastic carrying case for tool with compartments for die sets

HT45 - Compact hydraulic crimping tool

Lightweight and compact, this tool is ideal for the compression of connectors on over head lines and other general applications.

HT45-E	die dependant	max. 150	50 kN	hydraulic crimping tool	
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HT51 - Two speed hydraulic crimping tool

• Supplied with:

Sturdy plastic carrying case for tool and (included) die sets:
ME 5-50, 7-50, 10-50, 14-50, 19-50, 24-50, 30-50, 37-50

KITHT51-1	die dependant	max. 240	50 kN	hydraulic crimping tool	
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HT131 - Hydraulic crimping tool for semi-circular slotted dies

Self contained, robust and sturdy, will accept all semicircular slotted dies, common to most 130 kN tools. The tool features a double speed action: a fast advancing speed for rapid approach of the dies to the connector and a slower more powerful speed for crimping.

For ease of operation and comfort of the operator the tool head can be fully rotated through 180 degrees.

• Supplied with:

Sturdy plastic carrying case for tool and (included) die sets:
ME 10-C, 14-C, 19-C, 24-C, 30-C, 37-C, 48-C

KITHT131-C-1	die dependant	max. 400	130 kN	hydraulic crimping tool	
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see
Cat M for
pricing.

Cable glands



Cable glands (compression)

Thread: Metric
 Protection degree: IP68-10
 Material: body: Nylon PA66 UL approved (*Flammability UL94V-2*)
 seal: EPDM
 Ambient temperature: -40°C...+100°C (*instantaneous heat resistance up to 120°C*)



type	thread size	thread length	compress area (mm)	colour	description	price
M - Metric thread cable glands (<i>supplied with locknut</i>)						
PMGB12-5	M12	8.5 mm	3-5.5	light grey	Metric compression gland	2.20
PMGB16-7	M16	10 mm	3-7	light grey	Metric compression gland	2.90
PMGB18-10	M18	10 mm	6-10	light grey	Metric compression gland	3.60
PMGB20-13.5	M20	10 mm	9-14	light grey	Metric compression gland	5.80
PMGB25-18	M25	12 mm	13-18	light grey	Metric compression gland	7.90
PMGB32-25	M32	12 mm	18-25	light grey	Metric compression gland	14.90
PMGB40-32	M40	15 mm	24-32	light grey	Metric compression gland	22.10
PMGB50-41	M50	15 mm	31-41	light grey	Metric compression gland	28.60
PMGB63-45	M63	18 mm	35-45	light grey	Metric compression gland	34.10
PMGB12-5B	M12	8.5 mm	3-6.5	black	Metric compression gland	2.20
PMGB16-7B	M16	10 mm	4-8	black	Metric compression gland	2.90
PMGB18-10B	M18	10 mm	6-10	black	Metric compression gland	3.60
PMGB20-13.5B	M20	10 mm	9-14	black	Metric compression gland	5.80
PMGB25-18B	M25	12 mm	13-18	black	Metric compression gland	7.90
PMGB32-25B	M32	12 mm	18-25	black	Metric compression gland	14.90
PMGB40-32B	M40	15 mm	26-31	black	Metric compression gland	22.10
PMGB50-41B	M50	15 mm	26-31	black	Metric compression gland	28.60
PMGB63-45B	M63	18 mm	35-45	black	Metric compression gland	34.10
PG - thread cable glands (<i>supplied with locknut</i>)						
PPGB7-5B	12.5	8 mm	3-5.5	black	PG compression gland	1.50
PPGB9-8B	15.2	8 mm	4-8	black	PG compression gland	2.20
PPGB11-10B	18.6	10 mm	6-10	black	PG compression gland	2.90
PPGB13.5-12B	20.4	10 mm	7-12.5	black	PG compression gland	2.90
PPGB16-11B	22.5	11 mm	6-11	black	PG compression gland	4.30
PPGB19-14B	24	11 mm	8.5-14	black	PG compression gland	5.70
PPGB21-18B	28.3	12 mm	12-18	black	PG compression gland	7.20
Metal cable glands (<i>supplied with locknut</i>)						
Thread: Metric						
Protection degree: IP68-10						
Material: body: Nickel plated brass						
seal: Nylon PA66, EPDM rubber						
Ambient temperature: -40°C...+100°C (<i>instantaneous heat resistance up to 120°C</i>)						
MGM8-4.5	M8	4 mm	3-4.5	nickel	metal compression gland	16.10
MGM12-6.5	M12	6.5 mm	3-6.5	nickel	metal compression gland	16.30
MGM16-8	M16	8 mm	4-8	nickel	metal compression gland	23.00
MGM18-10	M18	8 mm	5-10	nickel	metal compression gland	27.00
MGM20-12	M20	8 mm	6-12	nickel	metal compression gland	30.40
MGM20-12L	M20	11 mm	6-12	nickel	metal compression gland	32.00
MGM22-14	M22	8 mm	10-14	nickel	metal compression gland	36.60
MGM25-16	M25	9 mm	10-16	nickel	metal compression gland	57.00
MGM25-16L	M25	11 mm	10-16	nickel	metal compression gland	57.00
MGM32-22	M32	10 mm	15-22	nickel	metal compression gland	82.00
MGM40-30	M40	11 mm	22-30	nickel	metal compression gland	138.00
MGM50-38	M50	13 mm	32-38	nickel	metal compression gland	256.00
MGM63-44	M63	14 mm	37-44	nickel	metal compression gland	425.00
Stainless steel 316 (<i>supplied with locknut</i>)						
Thread: Metric						
Protection degree : IP68-10						
Material: body: Stainless steel 316						
seal: Nylon PA66, EPDM rubber						
Ambient temperature: -50°C...+180°C						
SSM12-6.5	M12	6.5 mm	3-6.5	S/S	stainless steel gland	78.00
SSM16-08	M16	8 mm	4-8	S/S	stainless steel gland	110.00
SSM20-12	M20	8 mm	6-12	S/S	stainless steel gland	135.00
SSM25-16	M25	9 mm	10-16	S/S	stainless steel gland	236.00
SSM32-22	M32	10 mm	15-22	S/S	stainless steel gland	372.00

Cable glands



PSRM16-P-10B



PPGA20-E-14B



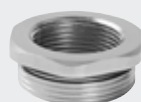
WLCM20S-7B



PLNM16B



EAM16/M20H



RAM32/M25H



PHPM20B

type	thread size	thread length	compress area (mm)	colour	description	price
Strain relief cable glands (supplied with locknut) IP68-10						
Material:		Nylon PA66 UL approved (Flammability UL94V-2)				
PSRM12-P-7B	M12	8.5 mm	4-7	black	nylon strain relief gland	19.90
PSRM16-P-10B	M16	10 mm	6-10	black	nylon strain relief gland	23.50
PSRM20S-P-12B	M20	10 mm	6-12.5	black	nylon strain relief gland	29.20
90° Degree cable glands (supplied with locknut)						
Material:		Nylon PA66 UL approved (Flammability UL94V-2)				
PPGA16-E-08B	M16	10 mm	4-7	black	90° compression gland	37.00
PPGA20-E-14B	M20	15 mm	9-14	black	90° compression gland	51.00
PPGA25-E-18B	M25	15 mm	13-18	black	90° compression gland	78.00
PPGA32-E-25B	M32	15 mm	18-25	black	90° compression gland	92.00
Waterproof in-line connector IP68-10						
Material:		Nylon PA66 UL approved (Flammability UL94V-2)			seal: EPDM	
Ambient temperature:		-40°C...+100°C (instantaneous heat resistance up to 120°C)				
WLCM20S-7B	M20	3-pole	4-7	black	waterproof connector	82.00
WLCM20S-11B	M20	3-pole	6-11	black	waterproof connector	89.00
WLCM25-16B	M25	4-pole	10-16	black	waterproof connector	133.00
WLCM25-18B	M25	4-pole	13-19	black	waterproof connector	133.00
Cable glands accessories						
Plastic locknuts (metric)		(spares)				
PLNM12B	M12	locknut	—	black	nylon metric locknut only	0.80
PLNM16B	M16	locknut	—	black	nylon metric locknut only	1.50
PLNM20B	M20	locknut	—	black	nylon metric locknut only	2.20
PLNM22B	M22	locknut	—	black	nylon metric locknut only	2.20
PLNM25B	M25	locknut	—	black	nylon metric locknut only	2.90
PLNM32B	M32	locknut	—	black	nylon metric locknut only	5.00
PLNM40B	M40	locknut	—	black	nylon metric locknut only	7.90
PLNM50B	M50	locknut	—	black	nylon metric locknut only	11.40
PLNM63B	M63	locknut	—	black	nylon metric locknut only	14.30
Adaptors (metallic) enlargers / reducers						
type	from male	to female	thread length	colour	description	price
Nickel plate						
EAM12/M16H	M12	M16	6 mm	nickel	M enlargement adaptors	37.00
EAM16/M20H	M16	M20	6 mm	nickel	M enlargement adaptors	44.00
EAM20/M25H	M20	M25	6.5 mm	nickel	M enlargement adaptors	59.00
EAM25/M32H	M25	M32	7.5 mm	nickel	M enlargement adaptors	99.00
EAM32/M40H	M32	M40	8 mm	nickel	M enlargement adaptors	149.00
EAM40/M50H	M40	M50	9 mm	nickel	M enlargement adaptors	186.00
RAM16/M12H	M16	M12	6 mm	nickel	M reduction adaptors	15.00
RAM20/M16H	M20	M16	6 mm	nickel	M reduction adaptors	24.90
RAM25/M20H	M25	M20	6.5 mm	nickel	M reduction adaptors	41.00
RAM32/M25H	M32	M25	7.5 mm	nickel	M reduction adaptors	74.00
RAM40/M32H	M40	M32	8 mm	nickel	M reduction adaptors	102.00
RAM50/M40H	M50	M40	9 mm	nickel	M reduction adaptors	183.00
Nylon blanking plugs (supplied with locknut) IP68						
Material:		Nylon PA66 UL approved (Flammability UL94V-2)				
type	thread size	thread length	compress area (mm)	colour	description	price
PHPM12B	M12	9.5 mm	—	black	screw-in blanking plugs	3.60
PHPM16B	M16	10 mm	—	black	screw-in blanking plugs	5.00
PHPM20B	M20	11 mm	—	black	screw-in blanking plugs	7.20
PHPM22B	M22	11 mm	—	black	screw-in blanking plugs	8.60
PHPM25B	M25	11 mm	—	black	screw-in blanking plugs	10.70
PHPM32B	M32	11 mm	—	black	screw-in blanking plugs	17.10
PHPM40B	M40	12 mm	—	black	screw-in blanking plugs	29.90
PHPM50B	M50	12 mm	—	black	screw-in blanking plugs	39.80
PHPM63B	M63	12 mm	—	black	screw-in blanking plugs	50.00

Corrugated conduit



Corrugated Conduit (flexible)

Product material: Polypropylene
 Ambient temperature: -40°C...+120°C (*instantaneous heat resistance up to 140°C*)
 Features: High flexibility, twist resistance, good bending performance, can withstand heavy loads; acid resistant, lubricants, coolant, etc.,
 Applications: Machinery manufacturing, insulation protection, lighting, automobile manufacturing, aviation equipment, subway, train, automation control and other industries.

type	IDØ (mm)	colour	ODØ (mm)	description	meters (per roll)	price (per roll)
AD13.0	10	black	13.0	plastic convoluted tubing	25	162.00
AD15.8	12	black	15.8	plastic convoluted tubing	25	192.00
AD21.2	17	black	21.2	plastic convoluted tubing	25	257.00
AD25.0	20	black	25.0	plastic convoluted tubing	25	325.00
AD34.5	29	black	34.5	plastic convoluted tubing	25	488.00
AD42.5	36	black	42.5	plastic convoluted tubing	25	782.00
AD54.5	48	black	54.5	plastic convoluted tubing	25	1 360.00

Mounting accessories - for above corrugated conduit

Support bracket - for corrugated conduit				PA (Polyamide)	for conduit	
PJ-VH-13.0	—	black	holder	support bracket for conduit	AD-13	12.10
PJ-VH-15.8	—	black	holder	support bracket for conduit	AD15.8	13.50
PJ-VH-21.2	—	black	holder	support bracket for conduit	AD21.2	17.10
PJ-VH-25.0	—	black	holder	support bracket for conduit	AD25	20.60
PJ-VH-34.5	—	black	holder	support bracket for conduit	AD34.5	32.70
PJ-VH-42.5	—	black	holder	support bracket for conduit	AD42.5	37.70
PJ-VH-54.5	—	black	holder	support bracket for conduit	AD54.5	48.00

Quick connectors - through hole mounting

PA66

QCM12-AD13	M12	black	straight	quick connect connector	AD-13	8.60
QCM16-AD15.8	M16	black	straight	quick connect connector	AD15.8	10.00
QCM20-AD15.8	M20	black	straight	quick connect connector	AD15.8	10.00
QCM20-AD21.2	M20	black	straight	quick connect connector	AD21.2	12.10
QCM25-AD25	M25	black	straight	quick connect connector	AD25	12.80
QCM32-AD34.5	M32	black	straight	quick connect connector	AD34.5	19.20
QCM40-AD42.5	M40	black	straight	quick connect connector	AD42.5	26.30
QCM50-AD54.5	M50	black	straight	quick connect connector	AD54.5	46.00
QCM63-AD54.5	M63	black	straight	quick connect connector	AD54.5	50.00
EQCM16-AD13	M16	black	90°	elbow quick connector	AD-13	21.40
EQCM20-AD21.2	M20	black	90°	elbow quick connector	AD-21.2	29.90
EQCM25-AD28.5	M25	black	90°	elbow quick connector	AD28.5	39.00
EQCM32-AD34.5	M32	black	90°	elbow quick connector	AD34.5	51.00
EQCM40-AD42.5	M40	black	90°	elbow quick connector	AD42.5	75.00
EQCM50-AD54.5	M50	black	90°	elbow quick connector	AD54.5	109.00

Weatherproof connectors - through hole mounting IP68

PA66

WCTM16-AD13	M16	black	straight	weatherproof connector	AD-13	13.50
WCTM20-AD15.8	M20	black	straight	weatherproof connector	AD15.8	18.50
WCTM20-AD21.2	M20	black	straight	weatherproof connector	AD21.2	22.80
WCTM25-AD25	M25	black	straight	weatherproof connector	AD25	27.00
WCTM32-AD34.5	M32	black	straight	weatherproof connector	AD34.5	37.70
WCTM40-AD42.5	M40	black	straight	weatherproof connector	AD42.5	63.00
WCTM50-AD54.5	M50	black	straight	weatherproof connector	AD54.5	100.00
WCTM63-AD54.5	M63	black	straight	weatherproof connector	AD54.5	114.00
EWCM16-AD13	M16	black	90°	weatherproof connector	AD-13	52.00
EWCM20-AD15.8	M20	black	90°	weatherproof connector	AD15.8	74.00
EWCM20-AD21.2	M20	black	90°	weatherproof connector	AD21.2	102.00
EWCM25-AD25	M25	black	90°	weatherproof connector	AD25	107.00
EWCM32-AD34.5	M32	black	90°	weatherproof connector	AD34.5	124.00
EWCM40-AD42.5	M40	black	90°	weatherproof connector	AD42.5	151.00

Spiral wrapping band (HDPE (Heavy-Duty Polyethylene))

type	IDØ (mm)	colour	ODØ (mm)	bundle Ø max. (mm)	description	meters (per roll)	price (per roll)
Ambient temperature:		-50°C...+80°C					
Features:		Easy installation, no tools required, provides safe protection for cables, wires, hoses, & tubing, protects against abrasion, chafing, cuts, prevents tangling.					
PJ-SWB-06	4	black	6	4...20	spiral binding	10	20.60
PJ-SWB-12	9	black	12	9...65	spiral binding	10	53.00
PJ-SWB-19	15	black	19	15...120	spiral binding	10	149.00

Above ZAR prices do not include VAT. E&OE

Junction boxes IP66 / 67


COMBI


COMBI 206



COMBI 308



COMBI 407



COMBI 304



COMBI 116

Junction boxes IP66/67

Wiska COMBI junction boxes provide ultimate protection from environmental conditions in a compact, very attractive format, suitable for extreme outdoor and indoor installations.

- **High-quality material** of the COMBI junction boxes is UV- and Ozone resistant, therefore suitable for inside as well as outside installation
- **Bellied cover** allows 10% more installation space
- Captive and rust-free **quick-release** lid screws
- Self-sealing **membranes on the rear** enable a clean assembly for cable outputs from the wall
- **Weather proof - ultraviolet resistant - shatterproof - impact resistant - flame retardant - halogen free**
- Protection: IP66 / IP67
- Material: Polypropylene, reinforced glass fibre, sealing: thermoplastic elastomer
- Temperature: -30°C...+100°C
- Glow wire test: 750°C
- Patented combination:
 - a) - Integrated thread for Metric cable gland entry without locknuts
 - b) - Elastic self-sealing puncture-membrane for cable entry on the sides and rear
- Mounting: Mounting holes located outside the sealing area but within the lid
- Colour: RAL 7035 (light grey) or RAL 9005 (black)

type	cable entry sides	rear	thread Ø	colour	description	dimensions (mm) (H) (W) (D)	price
Screw-on lid/cover IP66 - IP67 (when used with cable gland)							
• Captive rust free quick release (1/4 turn) lid screws of plastic • Combined threaded M20/membrane entries (407 and 1210 also have M25 knockouts)							
COMBI 206	IP66/67		(captive - quick release lid screws)				
10109569	6	2	M20	■ grey	weatherproof junction box	85 49 51	72.00
10109571	6	2	M20	■ black	weatherproof junction box	85 49 51	72.00
COMBI 308	IP66/67		(captive - quick release lid screws)				
10060400	8	—	M20	■ grey	weatherproof junction box	85 85 51	75.00
10060581	8	—	M20	■ black	weatherproof junction box	85 85 51	75.00
COMBI 407	IP66/67		1 x M20 cable entry can be knocked-out for M25 entry				
10105595	7	2	M20/25	■ grey	weatherproof junction box	95 95 60	116.00
10105601	7	2	M20/25	■ black	weatherproof junction box	95 95 60	116.00
COMBI 607	IP66/67		1 x M25 cable entry can be knocked-out for M20 entry				
10060531	7	3	M25	■ grey	weatherproof junction box	110 110 66	144.00
10060648	7	3	M25	■ black	weatherproof junction box	110 110 66	229.00
COMBI 1210	IP66/67		all M20 cable entries can be knocked-out for M25 entry				
10101459	10	4	M20	■ grey	round w/proof junction box	160 140 81	238.00
10101460	10	4	M20	■ black	round w/proof junction box	160 140 81	361.00

COMBI 304 round housing - Ø 82 mm

- Flat lid - bayonet cap (quarter turn screw fixing)
- Unique hook closing mechanism preventing unauthorised access. (tool required to gain access)
- Mounting via external lugs

10110629	4	—	M20	■ grey	weatherproof junction box	Ø 82 57	116.00
10110630	4	—	M20	■ black	weatherproof junction box	Ø 82 57	116.00

Push-on lid/cover IP66 Push-on lid/cover - for easy access to internal wiring

- Cable entry: Elastic self-sealing puncture-membranes for cable entry on sides and in the base

COMBI 108	IP66		(push-on lid/cover)				
10060522	10	2	—	■ grey	weatherproof junction box	76 76 51	61.00
COMBI 116	IP66		(push-on lid/cover)				
10109563	18	4	—	■ grey	weatherproof junction box	152 76 51	96.00

Accessories for above junction boxes

10108836	external mounting feet for COMBI		308/407/607/1210			59.00
22001132	SP-HKT 11/5	5-pole	internal terminal for COMBI 108/116/206/304/308/407			120.00
22000407	SP-HKT607	5-pole	internal mounting terminal for COMBI 607			122.00
10109800	ZER 4-12	Ø 4-11	strain relief ring for securing cable internally (10 pcs)			52.00
10110766	ZER 11-18	Ø 11-18	strain relief ring for securing cable internally (10 pcs)			56.00

Cable glands IP68



Wiska **SPRINT** cable glands provide ultimate protection from environmental conditions.

Suitable for extreme outdoor installations. -40°C...+100°C

- Protection: **IP68** to EN 60520 / **IP69K** to DIN 40 050-T9
- UV resistant: Type A, ISO 4892-2, UL-file QCRV2.E179850
- Flame protection: Glow wire test 750° acc.to EN60695-2-11
- Self-locking cap nut thread offering vibration protection
- Increased wall thickness for greater stability
- Smooth internal channel preventing cable jam on insertion
- Claw shape provides large sealing area and excellent adaptation to irregular cable profiles
- Material: Gland - Polyamide
Gasket - EPDM (*highly resistant to chemicals, environment and ultraviolet*)

Metric cable glands *grey (or) black*

type	thread diameter	compress area (mm)	description	dimensions (mm)			price
				(TL)	(L)	(SW)	

ESKV light grey RAL 7035 • Locknut to be ordered separately

10066410	M12 X 1.5	3 - 7	compression gland (grey)	29 - 43	9	16	8.40
10066411	M16 X 1.5	4.5 - 10	compression gland (grey)	31 - 37	9	20	8.40
10066412	M20 X 1.5	6 - 13	compression gland (grey)	36 - 45	10	24	8.40
10066413	M25 X 1.5	9 - 17	compression gland (grey)	38 - 47	10	29	12.90
10066414	M32 X 1.5	13 - 21	compression gland (grey)	42 - 51	12	36	25.00
10066415	M40 X 1.5	16 - 28	compression gland (grey)	52 - 65	12	46	61.00
10066416	M50 X 1.5	21 - 35	compression gland (grey)	59 - 72	14	55	91.00
10066417	M63 X 1.5	34 - 48	compression gland (grey)	64 - 78	15	68	148.00

EMUG locknuts for above

Material: *Light grey Polyamide/glassfibre reinforced*

10060770	M12 x 1.5	—	gland locknut (grey)	—	—	18	1.30
10060771	M16 x 1.5	—	gland locknut (grey)	—	—	22	2.00
10060772	M20 x 1.5	—	gland locknut (grey)	—	—	27	2.00
10060773	M25 x 1.5	—	gland locknut (grey)	—	—	32	2.60
10060774	M32 x 1.5	—	gland locknut (grey)	—	—	40	3.30
10060775	M40 x 1.5	—	gland locknut (grey)	—	—	50	7.70
10060776	M50 x 1.5	—	gland locknut (grey)	—	—	60	10.30
10060777	M63 x 1.5	—	gland locknut (grey)	—	—	75	17.30

ESKV black RAL 9005 • Locknut to be ordered separately

10066120	M12 x 1.5	3 - 7	compression gland (black)	29 - 43	9	16	8.40
10066121	M16 x 1.5	4.5 - 10	compression gland (black)	31 - 37	9	20	8.40
10066122	M20 x 1.5	6 - 13	compression gland (black)	36 - 45	10	24	8.40
10066123	M25 x 1.5	9 - 17	compression gland (black)	38 - 47	10	29	12.90
10066124	M32 x 1.5	13 - 21	compression gland (black)	42 - 51	12	36	25.00
10066125	M40 x 1.5	16 - 28	compression gland (black)	52 - 65	12	46	86.00
10066126	M50 x 1.5	21 - 35	compression gland (black)	59 - 72	14	55	91.00
10066127	M63 x 1.5	34 - 48	compression gland (black)	64 - 78	15	68	204.00

EMUG locknuts for above

Material: *Black polyamide/glassfibre reinforced*

10061780	M12 x 1.5	—	gland locknut (black)	—	—	18	1.30
10061781	M16 x 1.5	—	gland locknut (black)	—	—	22	2.00
10061782	M20 x 1.5	—	gland locknut (black)	—	—	27	2.00
10061783	M25 x 1.5	—	gland locknut (black)	—	—	32	2.60
10061784	M32 x 1.5	—	gland locknut (black)	—	—	40	3.30
10061785	M40 x 1.5	—	gland locknut (black)	—	—	50	16.70
10061786	M50 x 1.5	—	gland locknut (black)	—	—	60	28.90
10061787	M63 x 1.5	—	gland locknut (black)	—	—	75	37.20

EMSKV Metal cable glands • Locknut to be ordered separately

Material:				Cable gland: <i>Nickle-plated brass</i>			polyamide		
10065000	M12 x 1.5	3 - 7	metal compression gland	23 - 30	5	16			52.00
10065001	M16 x 1.5	4.5 - 10	metal compression gland	26 - 34	5	20			66.00
10065002	M20 x 1.5	6 - 13	metal compression gland	29 - 37	6	24			80.00
10065003	M25 x 1.5	9 - 17	metal compression gland	33 - 42	7	29			124.00
10065004	M32 x 1.5	13 - 21	metal compression gland	36 - 44	8	36			205.00
10065005	M40 x 1.5	16 - 28	metal compression gland	44 - 55	8	46			384.00
10065006	M50 x 1.5	21 - 35	metal compression gland	51 - 62	9	55			548.00
10065007	M63 x 1.5	34 - 48	metal compression gland	56 - 67	10	68			1 160.00

EMMU locknuts for above

Material: *Nickle-plated brass*

10063141	M12 x 1.5	—	metal gland locknut	—	—	15			3.90
10063142	M16 x 1.5	—	metal gland locknut	—	—	19			5.80
10063143	M20 x 1.5	—	metal gland locknut	—	—	24			7.10
10063144	M25 x 1.5	—	metal gland locknut	—	—	30			10.90
10063145	M32 x 1.5	—	metal gland locknut	—	—	36			17.30
10063146	M40 x 1.5	—	metal gland locknut	—	—	46			28.20
10063147	M50 x 1.5	—	metal gland locknut	—	—	60			61.00
10063148	M63 x 1.5	—	metal gland locknut	—	—	70			91.00

Above ZAR prices do not include VAT. E&OE

Cable gland accessories

Cable gland accessories

SPRINT cable glands can be further enhanced to be applied for diverse applications by the introduction of various special inserts for blind, reduced cable diameters, multiple cable sealing.

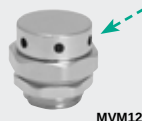
type	model	for gland	compress area (mm)	colour	description		price
Grommets		membrane cable entry with strain relief			-40°C...65°C		
CLIXX		push-in grommet enabling the simplest cable entry through a membrane with cable strain relief built-in.					
• Reliable sealing:		IP66 and IP67 to EN 60 529 weather proof, UV resistant					
• Space-saving:		Flat design, minimal space requirement					
• Easiest assembly:		Ext. mounting from one side - no thread, no locknuts					
• Incorporated:		Strain relief to EN 50 262 Type A					
• Time-saving:		Simple one-hand-only assembly reduce installation time by 80%					
• For wall thickness:		0.8 - 3.5 mm					
• Material:		Polypropylene / Thermoplastic elastomere					
10101861	CLIXX 16	M16	4.5...10	grey	membrane cable entry		9.00
10101359	CLIXX 20	M20	6...13	grey	membrane cable entry		7.70
10101862	CLIXX 25	M25	9...17	grey	membrane cable entry		12.20
MultiCLIXX		Multiple membrane cable entry with strain relief					
• Multiple cable entries		2 x Ø 4...8 mm + 2 x Ø 7...12 mm					
• Fast installation:		Push in - insert cable - done (for maximum time saving)					
• Strain relief:		EN 62444, Type A - for up to four cables at the same time					
10108616	EMTZ	M32	2 x 4-8 / 7-12	grey	multiple membrane entry		49.00
Reduction sealing inserts		for reduced cable diameters with existing gland			IP68		
• Material:		EPDM					
• Operating temperature:		-40°C...100°C					
10062183	RDE 12	M12	1...3	gland reduction sealing inserts			5.20
10062184	RDE 16	M16	2...6	gland reduction sealing inserts			6.50
10062185	RDE 20	M20	4...8	gland reduction sealing inserts			6.50
10060768	RDE 25	M25	7...12	gland reduction sealing inserts			8.40
10062186	RDE 32	M32	9...14	gland reduction sealing inserts			18.60
10062187	RDE 40	M40	12...20	gland reduction sealing inserts			43.00
Adaptors (plastic)							
• Temperature range:		-40°C to 100°C					
• Material:		Polyamide, reinforced glass fibre					
• Colour		RAL 7035	• Glow wire test		650 °C		
type	model	from male	to female	description		TL (mm)	price
Enlargement adaptors		metric to metric					
10063570	KEM 12/16	M12	M16	enlarging	adaptor	27	11.60
10063571	KEM 16/20	M16	M20	enlarging	adaptor	27	11.60
10063572	KEM 20/25	M20	M25	enlarging	adaptor	27	14.80
10063573	KEM 25/32	M25	M32	enlarging	adaptor	28	46.00
10063574	KEM 32/40	M32	M40	enlarging	adaptor	30	69.00
10063575	KEM 40/50	M40	M50	enlarging	adaptor	30	119.00
Reduction adaptors		metric to metric					
10063577	KRM 16/12	M16	M12	reduction	adaptor	16	9.70
10063579	KRM 20/16	M20	M16	reduction	adaptor	17	9.70
10063582	KRM 25/20	M25	M20	reduction	adaptor	17	18.00
10063584	KRM 32/20	M32	M20	reduction	adaptor	19	34.00
10063585	KRM 32/25	M32	M25	reduction	adaptor	19	34.00
10063588	KRM 40/32	M40	M32	reduction	adaptor	19	66.00
10063591	KRM 50/40	M50	M40	reduction	adaptor	21	90.00
PG to Metric adaptors		PG to metric					
10063650	APM 7/12	PG 7	M12	metric to PG	adaptor	27	12.90
10063653	APM 9/16	PG 9	M16	metric to PG	adaptor	27	14.10
10063655	APM 11/16	PG 11	M16	metric to PG	adaptor	27	15.40
10063659	APM 13.5/20	PG 13.5	M20	metric to PG	adaptor	28	16.70
10063661	APM 16/20	PG 16	M20	metric to PG	adaptor	28	17.30
10063662	APM 16/25	PG 16	M25	metric to PG	adaptor	28	17.30
10063664	APM 21/25	PG 21	M25	metric to PG	adaptor	30	20.60
10063667	APM 29/32	PG 29	M32	metric to PG	adaptor	19	28.20
10063670	APM 36/40	PG 36	M40	metric to PG	adaptor	21	76.00
10063673	APM 42/40	PG 42	M40	metric to PG	adaptor	21	140.00

Above ZAR prices do not include VAT. E&OE

L-30



PVM8



MVM12

New



BCGM20G



BCGM20B



SPR...

Vent pressure equalisation devices

Vent plugs/glands incorporate an internal membrane, designed to balance internal enclosure temperature and release pressure caused by differing internal temperatures to the outside ambient avoiding internal condensation without compromising the IP rating of the enclosure.

- Long service life in extreme environments
- Reduces fogging and internal condensation, improves heat emission efficiency in sealed enclosures

Vent plugs

(pressure equalisation for sealed enclosures)

IP68

type	thread size	colour	influent pressure	mi/min P;7kpa	description	price
Nylon PA66 - UL approved (Flammability UL94V-2)						
PVM8	M8	grey	>5 bar	>1200	screw-in vent plugs	16.50
PVM12	M12	grey	>5 bar	>2200	screw-in vent plugs	16.50
PVM16	M16	grey	>5 bar	>4600	screw-in vent plugs	38.30
10106591	M20	grey	>5 bar	>5230	screw-in vent plugs	150.00
10106593	M40	grey	>5 bar	>6820	screw-in vent plugs	339.00
PVM8B	M8	black	>5 bar	>1200	screw-in vent plugs	16.50
PVM12B	M12	black	>5 bar	>2200	screw-in vent plugs	16.50
PVM16B	M16	black	>5 bar	>4600	screw-in vent plugs	38.30

Nickel plated brass

MVM8	M8	nickel	>5 bar	>1000	screw-in vent plugs	56.00
MVM12	M12	nickel	>5 bar	>2000	screw-in vent plugs	56.00
MVM16	M16	nickel	>5 bar	>3800	screw-in vent plugs	84.00

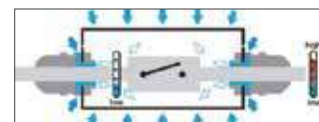
Ventilating gland

(pressure equalization for sealed enclosures)

IP67

Vent glands are essential components used in various applications to equalize pressure and prevent moisture ingress in sealed enclosures, ensuring that the internal components are protected from environmental factors. Normally:

1. The enclosure becomes warm during use, and a temperature difference can develop between the inside and outside.
2. This difference creates a vacuum, drawing air in from outside.
3. If the air cools and pressure does not equalise, condensation may form, potentially causing electrical breakdowns or short circuits. Therefore:
4. Using the breathable cable gland balances the enclosure's internal pressure with the surrounding pressure, fully maintaining its verified protection class.



type	thread Ø	colour	compress area (mm)	air flow rate	description	price
Breathable gland (compression gland and pressure equalisation element in one)						
BCGM12G	M12	grey	4 - 8	14 l/h	PA66 ventilating gland	20.60
BCGM16G	M16	grey	5 - 10	22 l/h	PA66 ventilating gland	22.80
BCGM20G	M20	grey	6 - 12	42 l/h	PA66 ventilating gland	24.20
10100666	M25	grey	9 - 17	65 l/h	PA66 ventilating gland	412.38
10100801	M32	grey	13 - 21	115 l/h	PA66 ventilating gland	574.32
BCGM12B	M12	black	4 - 8	14 l/h	PA66 ventilating gland	20.60
BCGM16B	M16	black	5 - 10	22 l/h	PA66 ventilating gland	22.80
BCGM20B	M20	black	6 - 12	42 l/h	PA66 ventilating gland	24.20
10100667	M25	black	9 - 17	65 l/h	PA66 ventilating gland	412.38
10100802	M32	black	13 - 21	115 l/h	PA66 ventilating gland	574.32

Blind plugs for glands

for tight sealing of unused cable inlet

type	Ø dia	colour	material	description	price
• Operating temperature: -40°C ...100°C					
SPR-024-B	2.4 mm	black	EPDM	blind plugs for unused glands	1.00
SPR-034-B	3.4 mm	black	EPDM	blind plugs for unused glands	1.00
SPR-060-B	6.0 mm	black	EPDM	blind plugs for unused glands	2.90
SPR-071-B	7.0 mm	black	EPDM	blind plugs for unused glands	3.60
SPR-100-B	10 mm	black	EPDM	blind plugs for unused glands	3.60
SPR-120-B	12 mm	black	EPDM	blind plugs for unused glands	5.00
SPR-140-B	14 mm	black	EPDM	blind plugs for unused glands	5.00
SPR-158-B	15.8 mm	black	EPDM	blind plugs for unused glands	9.30
SPR-178-B	17.8 mm	black	EPDM	blind plugs for unused glands	9.30
SPR-215-B	21.5 mm	black	EPDM	blind plugs for unused glands	10.70
SPR-245-B	24.5 mm	black	EPDM	blind plugs for unused glands	12.10
SPR-306-B	30.6 mm	black	EPDM	blind plugs for unused glands	19.20

Above ZAR prices do not include VAT. E&OE

Heat-shrink busbar protection



Heat shrink tubing

Provides an effective halogen-free, flexible, flame retardant, abrasion resistant insulation protection for cables and busbars in electrical and electronics applications.

type	inside dia Ø	shrink ratio	after recovery		description	roll length (meters)	price per roll
			dia Ø	wall thickness			

JD-HFT - Halogen free heat-shrinkable tubing

General purpose heat shrink tubing for use in enclosed areas where a flame retardant, halogen-free environment is required.

- Material: Polyolefin
- Colour: Black (other colours available on request)
- Shrink temperature: 90°C
- Operating temperature: -55°C...125°C

JD-HFT015-0	1.5 mm	3:1	0.5	≤ 0.40 mm	heat shrink tubing	200 m	878.00
JD-HFT030-0	3 mm	3:1	1.0	≤ 0.55 mm	heat shrink tubing	200 m	1 050.00
JD-HFT060-0	6 mm	3:1	2.0	≤ 0.60 mm	heat shrink tubing	100 m	1 040.00
JD-HFT090-0	9 mm	3:1	3.0	≤ 0.70 mm	heat shrink tubing	50 m	789.00
JD-HFT120-0	12 mm	3:1	4.0	≤ 0.70 mm	heat shrink tubing	50 m	966.00
JD-HFT180-0	18 mm	3:1	6.0	≤ 0.80 mm	heat shrink tubing	50 m	1 760.00
JD-HFT240-0	24 mm	3:1	8.0	≤ 1.00 mm	heat shrink tubing	25 m	1 540.00
JD-HFT390-0	39 mm	3:1	13.0	≤ 1.25 mm	heat shrink tubing	25 m	2 830.00

Other colours (replace last digit "0" with: "R" (red) "B" (blue) "W" (white))

+ 10%

JDD-BT-1KV heat-shrinkable bus bar insulation protection (medium wall)

Track resistant polyolefin heat-shrinkable bus bar tubing used to protect and insulate rectangular, square or round bus bars – halogen free, low smoke.

Busbar tubing calculation: add four sides and divide by 3.4+10%

- Material: Polyolefin
- Colour: Black (other colours available on request)
- Shrink ratio: 2:1
- Shrink temperature: 110°C
- Operating temperature: -55°C...125°C
- Tensile strength: ≥ 10.4MPa
- Elongation at break: ≥ 500%
- Dielectric strength: ≥ 25kV/mm

JDDBT020-0	20.0	2:1	8	1.10 mm	heat shrink tubing	100 m	2 800.00
JDDBT030-0	30.0	2:1	12	1.10 mm	heat shrink tubing	50 m	2 210.00
JDDBT040-0	40.0	2:1	16	1.10 mm	heat shrink tubing	50 m	2 550.00
JDDBT050-0	50.0	2:1	20	1.10 mm	heat shrink tubing	25 m	1 550.00
JDDBT060-0	60.0	2:1	24	1.10 mm	heat shrink tubing	25 m	2 050.00
JDDBT080-0	80.0	2:1	28	1.20 mm	heat shrink tubing	25 m	2 870.00
JDDBT100-0	100.0	2:1	50	1.20 mm	heat shrink tubing	25 m	4 100.00

Other colours (replace last digit "0" with: "R" (red) "B" (blue) "W" (white))

+ 10%

HFR - Expandable braided sleeving

Braided expandable sleeving provides excellent protection, durable abrasion resistance with excellent flame-retardant properties for the protection of wires, cables, wire harnesses, pipes and industrial hoses.

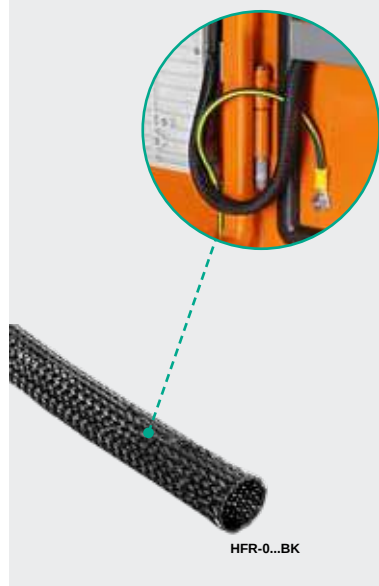
- Material: Polyester monofilament
- Standard colour: Black
- Operating temperature: -50°C...+150°C (melt point 230°C)
- Flammability: Flame retardant UL94 V-O
- Certified: RoHS, UL, CSA

type	nominal size *	expanded range Ø		description	carton length	price
		min.	max.			
HFR-008BK	8 mm	5 mm	16 mm	expandable braided sleeving	100 m	778.00
HFR-010BK	10 mm	7 mm	19 mm	expandable braided sleeving	100 m	1 110.00
HFR-012BK	12 mm	8 mm	24 mm	expandable braided sleeving	50 m	612.00
HFR-015BK	15 mm	10 mm	27 mm	expandable braided sleeving	50 m	855.00
HFR-020BK	20 mm	14 mm	30 mm	expandable braided sleeving	50 m	1 020.00
HFR-030BK	30 mm	20 mm	50 mm	expandable braided sleeving	50 m	1 740.00
HFR-040BK	40 mm	30 mm	60 mm	expandable braided sleeving	50 m	2 540.00
HFR-050BK	50 mm	40 mm	80 mm	expandable braided sleeving	50 m	3 280.00

* Nominal size indicates flat width

Application tools for above products

KD-8-3	handheld hot knife to cut and seal braided sleeving (to prevent fraying)	2 040.00
CS-800	hot gun 100-590°C digital temperature control for heatshrink tubing	1 480.00



HFR-0...BK

Distribution Terminals

Distribution terminals - (7,11,15 way)

General features:

Maximum operating temperature:	-5°C...+85°C (heat resistance to +130°C)
Insert material:	Brass with zinc plated screws
Insulating body material:	Support material polyamide – cover polycarbonate
Mounting:	DIN rail mounting (EN50022) or screw down
Standards:	EN 60998-1, EN 60998-2-1

type	No. ways	description	max. wire size (mm²)					dimensions (mm)			price
			input	10	16	25	35	(H)	(W)	(D)	

Multi way terminal posts

(DIN rail mountable) 750V

M107V	7	green (earth) bar	2x16	5x	—	—	—	59	19	34	53.00
M1011V	11	green (earth) bar	2x16	9x	—	—	—	88	19	34	75.00
M1015V	15	green (earth) bar	2x16	13x	—	—	—	114	19	34	98.00
M107B	7	blue (neutral) bar	2x16	5x	—	—	—	59	19	34	53.00
M1011B	11	blue (neutral) bar	2x16	9x	—	—	—	88	19	34	75.00
M1015B	15	blue (neutral) bar	2x16	13x	—	—	—	114	19	34	98.00
M107G	7	grey (phase) bar	2x16	5x	—	—	—	59	19	34	53.00
M1011G	11	grey (phase) bar	2x16	9x	—	—	—	88	19	34	75.00
M1015G	15	grey (phase) bar	2x16	13x	—	—	—	114	19	34	98.00

Multi-pole protected distribution terminals

(DIN rail mountable) 750V

1MR series - Distribution terminals

- DIN rail or chassis mounting
- Low profile 45 mm deep (height of standard MCBs)
- Supplied with insulated DIN rail cover
- Rated voltage: 750V

type	No. ways	amps	no. bars	max. wire size (mm²)					dimensions (mm)			price
				input	10	16	25	35	(H)	(W)	(D)	

2-pole - (1Ph+N)

IpK 12kA - Icc rms 6kA - Icw rms (1s) 1.9kA

1MR6372	7	63A	2	2x16	5x	—	—	—	68	59	45	131.00
1MR63112	11	63A	2	2x16	9x	—	—	—	68	88	45	162.00

IpK 22kA - Icc rms 11kA - Icw rms (1s) 6kA

1MR12572	7	125A	2	35 mm²	5x	—	1x	—	47	68	45	215.00
1MR125112	11	125A	2	35 mm²	6x	2x	2x	—	47	105	45	308.00
1MR125152	15	125A	2	35 mm²	10x	2x	2x	—	47	134	45	358.00

4-pole - (3ph+N)

IpK 22kA - Icc rms 11kA - Icw rms (1s) 6kA

1MR12574	7	125A	4	35 mm²	5x	—	1x	—	98	72	45	332.00
1MR125114	11	125A	4	35 mm²	6x	2x	2x	—	98	109	45	477.00
1MR125154	15	125A	4	35 mm²	10x	2x	2x	—	98	138	45	571.00

Additional terminal bars **M107/1011/1015** can easily be clipped onto above distribution terminals

160A stepped distribution block 70 mm deep profile

IpK 24kA - Icc rms 12kA - Icw rms (1s) 8kA

1MR160134	13	160A	4	50 mm²	—	8x	2x	2x	136	186	70	1 080.00
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3MR series - Distribution terminal

Separated incoming terminals (two extra large incoming phase terminals on either side)

IpK 22kA - Icc rms 11kA - Icw rms (1s) 6kA

3MR125164	16	125A	4	35 mm²	11x	2x	2x	—	107	202	45	761.00
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IpK 24kA - Icc rms 12kA - Icw rms (1s) 8kA

3MR160164	16	160A	4	50 mm²	11x	—	2x	2x	107	233	45	1 560.00
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M1011B



M1011V



M107G



1MR6372



1MR12572



1MR12574

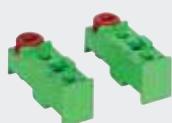


1MR160134

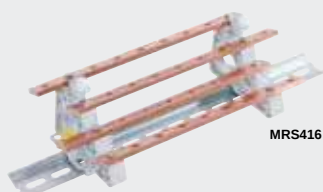


3MR160164

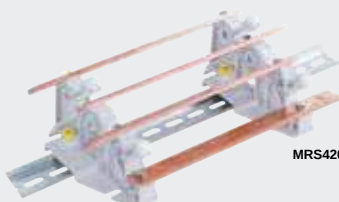
Busbar supports



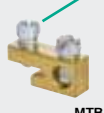
MRS122



MRS416



MRS420



MTB

Busbar supports

The MRS range of busbar supports are four pole (3Ph+N) with stepped phases for easy access and termination. Ideally combined with drilled and threaded copper busbars to make up distribution terminals of any size.

Insulating protection covers are available (*in one-meter lengths*) to provide protection against accidental touch of the bars. Ipk ratings are influenced by bar dimensions and the distance between supports.

General features:

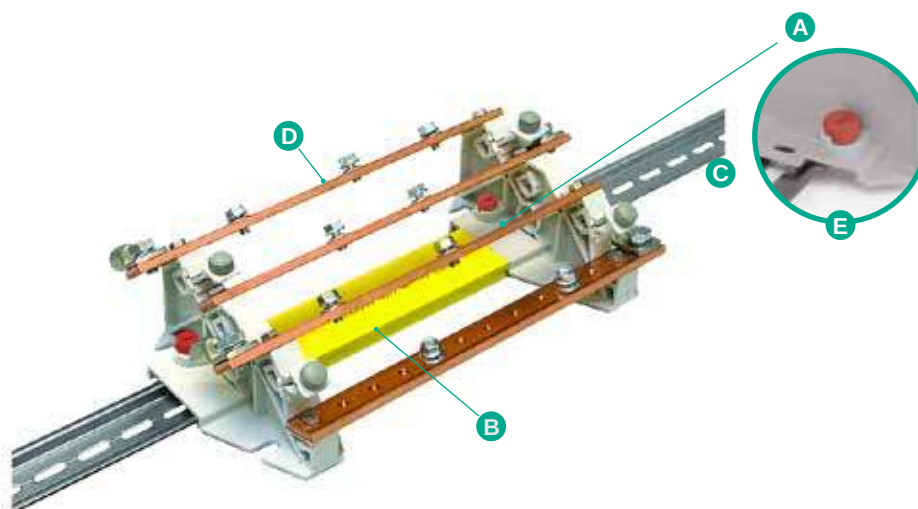
Maximum operating temperature:	+85°C
Heat resistance:	+130°C
Insulating body material:	Polyamide
Mounting:	DIN rail or chassis mount
Standards:	CEI EN 17-13/1 EN 60439

type	amps	no. bars	max bar width	description		dimensions (mm) (H) (W) (D)			price
Multi-pole busbar supports									
- DIN rail or chassis mount - With mounting accessories for <i>(optional)</i> protection cover and busbar mounting									
2-pole supports (1Ph+N)				supplied in pairs (2pcs)					
MRS122	65A	2	12 mm	1P+N	busbar supports (2 pcs)	47	14	18	271.00
4-pole stepped supports (3Ph+N)				supplied in 4 pcs (2 pair per set)					
160A - 4-pole busbar support									
MRS416*	160A	4	16 mm	3P+N	busbar supports (4 pcs)	90	25	57	992.00
250A - 4-pole busbar support									
MRS420*	250A	4	20 mm	3P+N	busbar supports (4 pcs)	132	67	59	1 380.00
* With eccentric pivot for safe mounting on DIN rail									
Terminal protection covers (for above supports)									
MRC2150	screen	protection cover for busbar support			MRS416	(1 meter length)			359.00
MRC2250	screen	protection cover for busbar support			MRS420	(1 meter length)			456.00
MTB	DIN rail earthing terminal			(for connecting earth wire to DIN rail)					23.10

Busbar - System

Example of a complete MRS busbar system:

- A - MRS420 - 4-pole busbar support
- B - DIN rail protection screen cover (*on request*)
- C - Perforated DIN rail, see page L-13
- D - Thread copper bar, see page L-36
- E - Eccentric pin for fixing the terminal block on the DIN rail guarantees maximum safety and reliability



Earth and neutral bar systems

Brass earthing and neutral terminals

- Brass bars with galvanised steel screws (*with cross head*)

type	wire sizes mm ²				No. of ways	screw Ø	dimensions (mm)			price
	1.5...4	2.5...6	4...16	16...35			(H)	(W)	(L)	

Single connection per hole

MRS1501	—	113	—	—	113	M4	9	6	1 meter	466.00
MRS1506	—	—	116	—	116	M5	12	8	1 meter	627.00
1300110	rail or base mount double support for brass rod									11.60

Double connection per hole M4 mounting holes

- Dual input up to 50 mm² (2 x M10 bolt connections)

MRS3000	—	2 x 6	—	—	12	M5	9	19	102	162.00
MRS3005	—	2 x 12	—	—	24	M5	9	19	144	220.00
MRS3010	—	2 x 24	—	—	48	M5	9	19	230	370.00

Chassis mounting earthing terminals

- Universal fixing: chassis mount or direct copper bar mount
- M6 mounting screws and input termination supplied with nuts, spacers and washers

MRS2000	8	8	3	1	20	M5	6	13	215	374.00
MRS5000	19	24	6	1	50	M5	6	13	462	558.00

Double connection per hole

- Universal fixing: chassis mount or direct copper bar mount
- M8 bolt to accommodate cable lug up to 95 mm²
- M6 mounting screws supplied with nuts, spacers and washers

MRS3500	2 x 14	2 x 19	2 x 7	2 x 1	82	M5	13	20	462	1 190.00
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Brass tap-off distribution block - direct busbar mounted (*drilled or clamp-on*)

- For direct connection onto Busbar, to tap off cables (4 x 2.5...25 mm² + 4 x 4...35 mm²)

BOC 1000	brass bolt-on busbar mounting terminal		(8 x outputs)	434.00
BOC 1005	brass clamp-on busbar mounting terminal		(for 5 mm bars)	692.00
BOC 1010	brass clamp-on busbar mounting terminal		(for 10 mm bars)	872.00

Distribution terminals

Single pole distribution terminals

DIN rail mountable - 7, 11, 15 way

Insulating body: PA 66 UL94-V0
 Insert material: Brass, screws galvanised steel
 Mounting: DIN rail mounting
 Base colours: Green, Blue, Grey
 Protection cover: PC UL94-V0, transparent yellow
 Standards: EN 60947-7-1

type	no. ways	base colour	wire size mm ²			description	length (mm)	price
			In (2x)	No.	Out			

Unipolar terminal blocks

ITB1030	7	green	2.5 - 16	5 x	1.5 - 6	earth distribution block	63	46.00
ITB1035	11	green	2.5 - 16	9 x	1.5 - 6	earth distribution block	95	65.00
ITB1040	15	green	2.5 - 16	13 x	1.5 - 6	earth distribution block	125	82.00
ITB1015	7	blue	2.5 - 16	5 x	1.5 - 6	neutral distribution block	63	46.00
ITB1020	11	blue	2.5 - 16	9 x	1.5 - 6	neutral distribution block	95	65.00
ITB1025	15	blue	2.5 - 16	13 x	1.5 - 6	neutral distribution block	125	82.00
ITB1000	7	grey	2.5 - 16	5 x	1.5 - 6	phase distribution block	63	46.00
ITB1005	11	grey	2.5 - 16	9 x	1.5 - 6	phase distribution block	95	65.00
ITB1010	15	grey	2.5 - 16	13 x	1.5 - 6	phase distribution block	125	82.00
ITB2000	DIN rail mount support for horizontal mounting of up to 4 of above terminals							18.40

Spider connector for threaded bars 12 mm wide

- Material: Passivated galvanised steel
- Connections: 1 or 2 cables 1.5...10 mm²
- Complete with: M5 x 12 screws

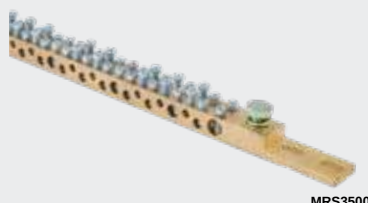
MCR1100	spider connector to connect cables to 12 mm threaded bar	1.5...10 mm ²	13.50
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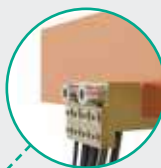
MRS1501



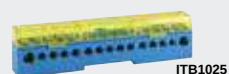
MRS3005



MRS3500



BOC 1000



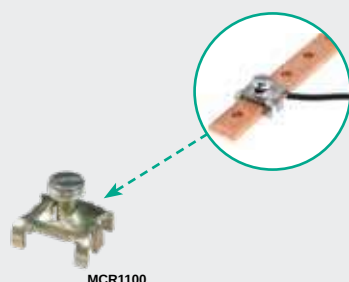
ITB1025



ITB1035



ITB1000



MCR1100

Distribution blocks & threaded copper bars



Distribution blocks permit simple termination from one main incomer supply (up to 500A) to be distributed to many other lower current outputs downstream. Equipped with an opening transparent protection screen for easy inspection of terminations.

type	rated current (A)	feed-in terminals		max. output terminals (mm ²)					Icw (kA)	Ipk (kA)	dimensions (mm)			price
		max. cable (mm ²)	busbar W (mm)	–	6	10	16	35			(H)	(W)	(D)	

RP series - Power distribution blocks

- Insulating body: PA 66 UL 94-V0, Cover: PC, transparent yellow.
- Conduction block: Tinned copper
- Index protection: IP20
- Compliant with standard EN 60947-7-1

Single pole power distribution blocks - can receive Cable or Flexible/rigid bars (in some cases)

RPU2995	80A	6...16	–	–	4x	–	2x	–	3	22	66	30	46	191.00
RPU3000	125A	10...35	9	–	–	–	9x	–	4.4	30	75	40	48	400.00
RPU3005	160A	10...70	13	–	–	–	9x	–	11	30	75	40	48	560.00
RPU3010	250A	35...120	15.5	–	–	4x	5x	2x	21	51	96	47	50	776.00
RPU3015	400A	95...185	20	–	–	4x	5x	2x	21	51	96	47	50	863.00
RPU3020	500A	–	24	–	–	4x	5x	2x	21	51	96	47	50	940.00

Three pole power distribution blocks - can receive Cable or Flexible/rigid bars (in some cases)

RPT3000	125A	10...35	9	–	–	–	6x	–	4.4	30	75	85	48	967.00
RPT3005	160A	10...70	13	–	–	–	6x	–	11	30	75	85	48	1 140.00

Multi-pole distribution blocks

DIN rail mountable

EN 60947-7-1

- Mounting: DIN rail or chassis mounting
- Insulating structure: Self-extinguishing to UL94-V0 - Insulation between phases
- Conductor material: Brass conductors - galvanised steel screws
- Protection cover: PC UL94-V0, transparent yellow - front removal

4-pole (3ph+N) distribution blocks *DIN rail mounting*

Low profile version 50 mm deep (fits into same space as standard MCBs)

RPQ1000	125A	10...35	–	–	5	–	1	–	4.2	20	84	66	50	318.00
RPQ1005	125A	10...35	–	–	7	–	2	1	4.2	20	84	100	50	405.00
RPQ1010	125A	10...35	–	–	11	–	2	1	4.2	20	84	132	50	559.00

Separated input terminals

Front entry input terminals - (2 phases on each side)

RPQ1015	160A	10...50	–	–	–	–	8	3	9	22	85	168	70	1 100.00
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Side entry input terminals - (all inputs from left side)

RPQ1018	160A	10...50	–	–	–	–	8	3	9	22	95	154	67	1 210.00
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Threaded copper bars

(bolts/screws, washers not supplied)

- Pre-punched and threaded copper bars (ready for use)
- Electrolytic copper Cu-ETP 99.90% (rounded corners)
- Current (A) based on ΔT temperature rise as per DIN 43671 (reference room temperature of 35°C)

type	In (A) ΔT		screw Ø	hole centers	description	dimensions (mm)			price (ea)
	30°C	50°C				(H)	(W)	(L)	
BRF1000	160A	212A	M5	18 mm	threaded copper busbar	12	4	1 meter	592.00
BRF1005	183A	241A	M5	18 mm	threaded copper busbar	12	5	1 meter	723.00
BRF1010	218A	289A	M6	25 mm	threaded copper busbar	15	5	1 meter	855.00
BRF1015	274A	363A	M6	25 mm	threaded copper busbar	20	5	1 meter	1 040.00
BRF1020	400A	530A	M6	25 mm	threaded copper busbar	32	5	1 meter	1 660.00
BRF1045	573A	756A	M8	25 mm	threaded copper busbar	30	10	1 meter	3 180.00

Busbar supports

4-pole (3ph+N) insulated busbar supports

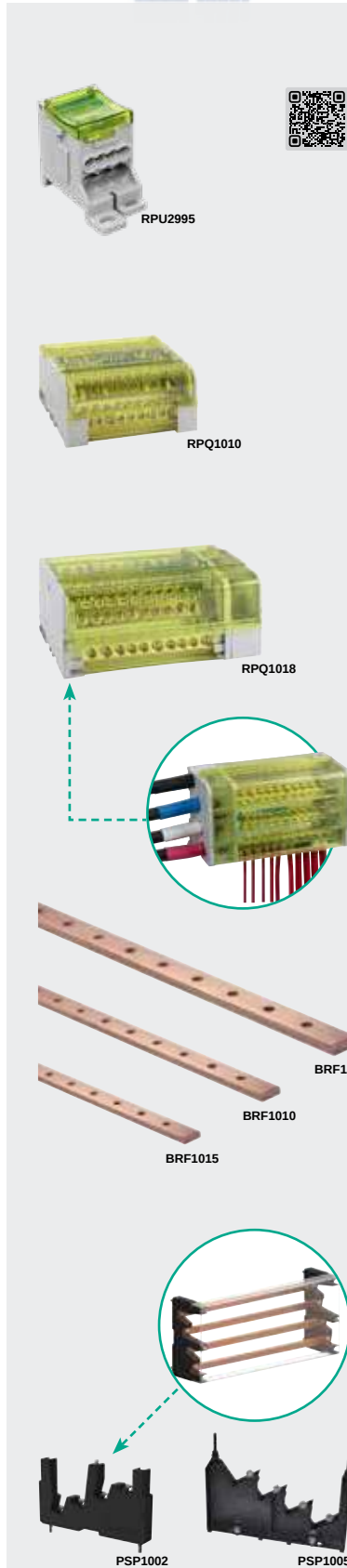
- Polyamide 66 reinforced with 30% fiberglass
- Self-extinguishing UL 94-V0 - Halogen free
- Working temperature: -40°C ...+130°C
- Glow wire test: 960°C
- Supplied with screws and nuts for mounting on panels

250A - DIN rail or chassis mount busbar support (1 piece per pack)

PSP1002	250A	busbar support for 15/20 mm x 5 mm bars	190	20	105	290.00
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400A - panel mount busbar support (2 piece per pack)

PSP1005	400A	Busbar support for 15/20/30 mm x 5/10 mm bars	216	34	117	1 200.00
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Busbar standoff insulators



ISO...



CLN...



SM...

SM...



SM...

SM...



ISO3005

Busbar standoff insulators

The "stand off" insulator is used as an insulating support for active conductors to guarantee excellent electrical insulation capability; it can be used as a support for electrical devices, giving high mechanical resistance values, as well as a spacing and/or stiffening element of a system made of conductor bars (*copper and/or aluminium*).

General features:

- Insulation: Polyamide 66 fibreglass reinforced (30%) (Halogen free)
- Self extinguishing: VO-UL94
- Glow wire test: 960°C
- Threaded inserts: Galvanized steel
- Rated voltage: 1000 VAC / 1500 VDC
- Working temperature: -40°C...130°C
- Colour: Black
- Conformity: IEC/EN60004-1 and IEC/EN 61439-1

type	height (H)	Ø width socket	threaded	torque (Nm)	description	price
ISO - Insulators		<i>injection moulded</i>		<i>UL approved (file No. 300607)</i>		
ISO2010	20 mm	15 mm	M6	8	busbar standoff insulators	43.00
ISO2020	25 mm	15 mm	M6	10	busbar standoff insulators	48.00
ISO2030	30 mm	26 mm	M8	25	busbar standoff insulators	85.00
ISO2040	35 mm	28 mm	M8	25	busbar standoff insulators	91.00
ISO2055	40 mm	28 mm	M8	25	busbar standoff insulators	119.00
ISO2070	45 mm	33 mm	M8	25	busbar standoff insulators	132.00
ISO2085	50 mm	29 mm	M8	25	busbar standoff insulators	161.00
ISO2100	60 mm	42 mm	M10	50	busbar standoff insulators	202.00
CLN - Spacer columns		<i>Injection moulded</i>		<i>UL approved (file No. 300607)</i>		
ISO2140	20 mm	20 mm	M6	8	spacing columns	50.00
ISO2155	25 mm	20 mm	M6	8	spacing columns	52.00
ISO2170	30 mm	20 mm	M6	8	spacing columns	52.00
ISO2185	35 mm	20 mm	M6	10	spacing columns	57.00
ISO2200	40 mm	20 mm	M6	10	spacing columns	63.00
ISO2270	55 mm	00 mm	M6	10	spacing columns	185.00
ISO2280	65 mm	00 mm	M6	10	spacing columns	207.00
ISO2245	30 mm	30 mm	M8	25	spacing columns	128.00
ISO2257	40 mm	30 mm	M8	25	spacing columns	131.00
ISO2267	50 mm	30 mm	M8	25	spacing columns	172.00
ISO2295	70 mm	30 mm	M8	25	spacing columns	225.00

**SM - Econo busbar insulators****General features:**

- Insulation: Polyester, fibreglass reinforced (20%)
- Self extinguishing: VO-UL94
- Threaded inserts: Galvanized steel
- Rated voltage: 1000 VAC / 1500 VDC
- Working temperature: -20°C...120°C
- Colour: Red RAL 3031

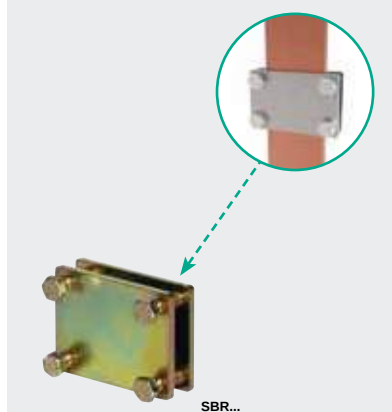
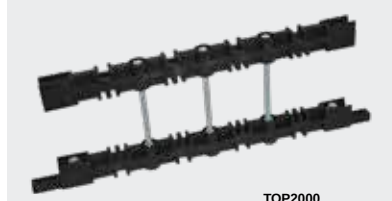
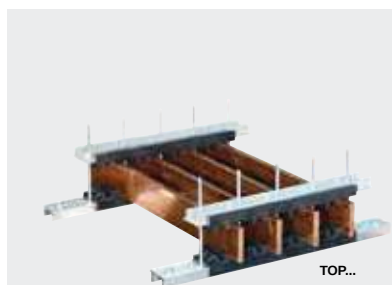
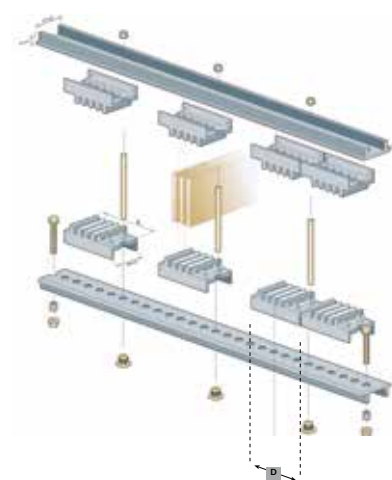
SM20	20 mm	00 mm	M6	6	busbar standoff insulators	25.20
SM25	25 mm	23 mm	M6	8	busbar standoff insulators	26.70
SM30	30 mm	26 mm	M8	10	busbar standoff insulators	33.00
SM35	35 mm	28 mm	M8	13	busbar standoff insulators	35.90
SM40	40 mm	34 mm	M8	13	busbar standoff insulators	48.00
SM45	45 mm	28 mm	M8	13	busbar standoff insulators	51.00
SM51	51 mm	29 mm	M8	27	busbar standoff insulators	53.00
SM60	60 mm	34 mm	M10	27	busbar standoff insulators	97.00
SM76	76 mm	36 mm	M10	54	busbar standoff insulators	107.00

Threaded stud kits for insulators

- Galvanized steel class 8.8 (*complete with threaded stud, nut, flat washer and spring lock washer*)

type	length (mm)	Ø	description	price
ISO3005	30 mm	M6	threaded stud kit for insulators	46.00
ISO3015	35 mm	M8	threaded stud kit for insulators	60.00
ISO3020	40 mm	M10	threaded stud kit for insulators	69.00

Busbar supports



TOP - Universal busbar support – up to 4500A (IEC 60439-1)

- Universal busbar support system
- Adjustable distance between phases
- High short-circuit strength up to 100kA (see **Annex-11** for ratings)
- Non-magnetic aluminium alloy profile (EN AW-6060) prepunched (12.5 mm pitch)
- Quick and simplified universal fitting - cost effective
- For bars 30-120 mm wide / 5 or 10 mm thick
- Type tested according to IEC 60439-1 certification: ACAE LOVAG (65 / 75 / 100kA eff 1 sec)

type	for busbar thickness	no. bars	description	price
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Ω TOP - Universal busbar support – up to 4500A (IEC 60439-1)

Three pole system kits (3Ph)

Supplied with: Insulated supports (6) and all screws, nuts, washers

TOP1005	5 mm	1 - 2	TOP2/5T	universal busbar support kit	466.00
TOP1025	10 mm	1	TOP1/10T	universal busbar support kit	462.00
TOP1035	10 mm	1 - 2	TOP2/10T	universal busbar support kit	542.00
TOP1045	10 mm	1 - 3	TOP3/10T	universal busbar support kit	710.00

Four pole system kits (3Ph+N)

Supplied with: Insulated supports (8) and all screws, nuts, washers

TOP1010	5 mm	1 - 2	TOP2/5TN	universal busbar support kit	589.00
TOP1030	10 mm	1	TOP1/10TN	universal busbar support kit	600.00
TOP1040	10 mm	1 - 2	TOP2/10TN	universal busbar support kit	695.00
TOP1050	10 mm	1 - 3	TOP3/10TN	universal busbar support kit	910.00

Accessories

TOP1000	pre-punched aluminium profile (12.5 mm pitch) (2 metre length)				632.00
TOP1100	bracket for horizontal mounting of busbar system profiles				180.00
TOP1105	bracket for vertical mounting of busbar system profiles				123.00
TOP1055	rislan tube to insulate tie rods (only required for minimum distance)				18.40

TOP Junior - Fixed busbar support – up to 1600A (IEC 61439-2)

- Universal busbar support system
- Distance between phases 70 mm
- High short-circuit strength up to 60kA (see **Annex-11** for ratings)
- Polyamide 6/6 reinforced with 30% fibreglass - self-extinguishing UL 94-V0
- Single reference for use with 5 or 10 mm thick bars
- For bars 30-80 mm wide / 5 or 10 mm thick
- Type tested according to IEC 61439-2 certification: ACAE LOVAG (65kA eff 1 sec)

Four pole system kit (3Ph+N)

Supplied with: Insulated supports (2) and all screws, nuts, washers

TOP2000	5/10 mm	2/1	TOP J 5 - 10	universal busbar support kit	1 490.00
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Busbar clamps (galvanized steel 5 mm thick)

- Permits direct connection of flexible and solid bars, from main bar (without drilling)

type	max. bar width	flexi bar width	plate dimensions	description	price
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Rectangular busbar clamps

SBR1000	50 mm	20/24 mm	77 x 51 mm	busbar connection clamps	273.00
SBR1005	50 mm	32 mm	77 x 59 mm	busbar connection clamps	274.00
SBR1010	50 mm	40 mm	77 x 67 mm	busbar connection clamps	278.00
SBR1020	80 mm	32 mm	107 x 59 mm	busbar connection clamps	296.00
SBR1025	80 mm	50 mm	107 x 77 mm	busbar connection clamps	304.00

Square busbar clamps

SBQ1000	30 mm	30 mm	53 x 53 mm	busbar connection clamps	299.00
SBQ1005	40 mm	40 mm	63 x 63 mm	busbar connection clamps	315.00
SBQ1015	63 mm	63 mm	90 x 90 mm	busbar connection clamps	402.00
SBQ1020	80 mm	80 mm	115 x 115 mm	busbar connection clamps	495.00
SBQ1025	100 mm	100 mm	135 x 135 mm	busbar connection clamps	588.00

Flexible copper busbar



Coflex series - Insulated flexible busbars

COFLEX is designed with high conductivity electrolytic copper laminates (CuETP), protected within a durable highly resistant self extinguishing PVC insulation, guaranteeing excellent electrical insulation in aggressive high temperature environments.

- Conductor: Electrolytic copper Cu-ETP 99.90% (laminated thickness 0.8 - 1.0 mm)
- Insulation: Self-extinguishing PVC UL 94-V0 (thickness 2 mm)
- Dielectric rigidity: 20 kV / mm
- Max. elongation: 365%
- Rated voltage: 1000 VAC / 1500 VDC
- Working temperature: -40°C...+105°C
- Standard length: 2 meters



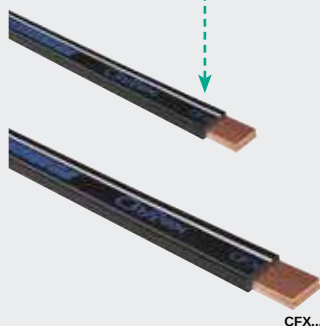
Saving of time



Footprint Reduced



Saving of copper



CFX...



DZP3000

type	conductor size (mm)						Δ T (°K) see Annex-13 max. current capacity (A) at Δ T (°K) as per IEC 439-1					price
	width	No. Laminations	thick	total thickness	cross section (mm²)	length (metre)						
							65°C	50°C	40°C	30°C	20°C	

Insulated flexible busbars (2 metre lengths)

CFX 1005	9	3	0.8	2.4	21.6	2	160	140	125	108	89	511.00
CFX 1020	9	6	0.8	4.8	43.2	2	285	250	224	194	158	932.00
CFX 1023	13	6	0.5	3	39	2	285	250	224	194	158	817.00
CFX 1035	15.5	4	0.8	3.2	49.6	2	365	320	286	248	202	1 050.00
CFX 1045	15.5	6	0.8	4.8	74.4	2	456	400	358	310	253	1 550.00
CFX 1060	20	3	1.0	3	60	2	399	350	313	271	221	1 250.00
CFX 1070	20	5	1.0	5	100	2	490	430	385	333	272	2 000.00
CFX 1076	20	8	1.0	8	160	2	638	560	501	434	354	3 100.00
CFX 1090	24	3	1.0	3	72	2	456	400	358	310	253	1 470.00
CFX 1100	24	5	1.0	5	120	2	581	510	456	395	323	2 370.00
CFX 1115	24	10	1.0	10	192	2	912	800	716	620	506	4 530.00
CFX 1135	32	5	1.0	5	160	2	741	650	581	503	411	3 100.00
CFX 1145	32	8	1.0	8	256	2	992	870	778	674	550	4 940.00
CFX 1150	32	10	1.0	10	320	2	1163	1020	912	790	645	6 500.00
CFX 1170	40	5	1.0	5	200	2	884	775	693	600	490	3 990.00
CFX 1180	40	8	1.0	8	320	2	1180	1035	926	802	655	6 290.00
CFX 1185	40	10	1.0	10	400	2	1343	1178	1054	912	745	7 920.00
CFX 1200	50	5	1.0	5	250	2	1055	925	827	717	585	5 070.00
CFX 1210	50	8	1.0	8	400	2	1357	1190	1064	922	753	8 040.00
CFX 1215	50	10	1.0	10	500	2	1573	1380	1234	1069	873	10 200.00
CFX 1230	63	5	1.0	5	315	2	1209	1060	948	821	670	6 530.00
CFX 1240	63	8	1.0	8	504	2	1596	1400	1252	1084	885	10 200.00
CFX 1245	63	10	1.0	10	630	2	1391	1615	1444	1251	1021	12 700.00
CFX 1260	80	5	1.0	5	400	2	1459	1280	1145	991	810	6 810.00
CFX 1270	80	8	1.0	8	640	2	1833	1608	1438	1246	1017	11 500.00
CFX 1275	80	10	1.0	10	800	2	2028	1779	1591	1378	1125	13 900.00
CFX 1285	100	5	1.0	5	500	2	1750	1535	1373	1189	971	10 300.00
CFX 1300	100	10	1.0	10	1000	2	2394	2100	1878	1627	1328	20 200.00

Derating coefficient for bars in parallel

Number of bars	2 bars	3 bars	4 bars
Coefficient to use x	1.8	2.5	3.2

Accessories

Simple support with spacer

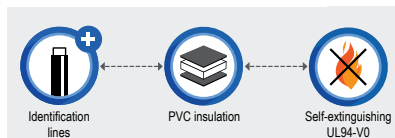
- For use with insulated flexible bars up to 32 x 10 mm
- Possibility to fit up to 4 flexible bars
- Mounts into panel board by means of screw (*not supplied*) inserted at the base of spacer
- Excellent heat dissipation due to the spacing between bars

DZP3000 panel mount spacer and overlapping support for flexible bars up to 32 x 10 mm

55.00

Please note: Prices of copper products are based on the London Metal Exchange and will vary from time to time. Consult our sales department for the latest pricing before placing orders.

Flexible copper braided links



JLK...



.../R

.../B

Insulated copper braided linkshighly flexible braided copper link with PVC insulation

No cutting - no stripping - no lug - no crimping

J-LINK is a ready-to-use flexible prefabricated shunt made of tinned copper braid, coated with PVC insulation. for the quickest, most convenient solution to create electrical connections from 125 to 630 A.

- Conductor: Tinned electrolytic copper braid Cu-ETP 99.90% (wire strand 0.20 mm)
- Insulation: Self-extinguishing PVC UL94V0 (thickness 1.8 - 2 mm)
- Dielectric rigidity: 20 kV / mm
- Rated voltage: 1000 VAC / 1500 VDC
- Working temperature: -40°C ... +105°C
- Standard length: 330 ... 1030 mm lengths

type	conductor size (mm)				ΔT (°K) see Annex-13 max. current capacity (A) at ΔT (°K) as per IEC 439-1			description	price
	width	thickness	length	cross sec. (mm²)	45°C	35°C	25°C		

25 mm² insulated braided links

mounting holes: $\varnothing d1=8.5 / \varnothing d2=10.5$ mm

JLK1005	20	4.3	330	25	185	175	145	insulated braided shunt	243.00
JLK1010	20	4.3	430	25	185	175	145	insulated braided shunt	294.00
JLK1015	20	4.3	530	25	185	175	145	insulated braided shunt	330.00
JLK1020	20	4.3	630	25	185	175	145	insulated braided shunt	372.00
JLK1021	20	4.3	730	25	185	175	145	insulated braided shunt	424.00
JLK1023	20	4.3	930	25	185	175	145	insulated braided shunt	520.00

35 mm² insulated braided links

mounting holes: $\varnothing d1=8.5 / \varnothing d2=10.5$ mm

JLK1030	20	4.9	330	35	225	205	170	insulated braided shunt	306.00
JLK1035	20	4.9	430	35	225	205	170	insulated braided shunt	373.00
JLK1040	20	4.9	530	35	225	205	170	insulated braided shunt	435.00
JLK1045	20	4.9	630	35	225	205	170	insulated braided shunt	490.00
JLK1046	20	4.9	730	35	225	205	170	insulated braided shunt	569.00
JLK1048	20	4.9	930	35	225	205	170	insulated braided shunt	699.00
JLK1049	20	4.9	1030	35	225	205	170	insulated braided shunt	767.00

50 mm² insulated braided links

mounting holes: $\varnothing d1=8.5 / \varnothing d2=10.5$ mm

JLK1055	20	5	330	50	280	250	220	insulated braided shunt	378.00
JLK1060	20	5	430	50	280	250	220	insulated braided shunt	470.00
JLK1065	20	5	530	50	280	250	220	insulated braided shunt	561.00
JLK1070	20	5	630	50	280	250	220	insulated braided shunt	624.00
JLK1071	20	5	730	50	280	250	220	insulated braided shunt	720.00
JLK1073	20	5	930	50	280	250	220	insulated braided shunt	882.00
JLK1074	20	5	1030	50	280	250	220	insulated braided shunt	964.00

85 mm² insulated braided links

mounting holes: A=8.5 / B=10.5 mm

JLK1145	24	6.5	330	85	350	320	270	insulated braided shunt	622.00
JLK1150	24	6.5	430	85	350	320	270	insulated braided shunt	766.00
JLK1155	24	6.5	530	85	350	320	270	insulated braided shunt	912.00
JLK1160	24	6.5	630	85	350	320	270	insulated braided shunt	1 050.00
JLK1165	24	6.5	730	85	350	320	270	insulated braided shunt	1 230.00
JLK1175	24	6.5	930	85	350	320	270	insulated braided shunt	1 560.00
JLK1180	24	6.5	1030	85	350	320	270	insulated braided shunt	1 710.00

120 mm² insulated braided links

mounting holes: $\varnothing d1=10.5 / \varnothing d2=10.5$ mm

JLK1075	30	7.5	330	120	440	400	335	insulated braided shunt	963.00
JLK1080	30	7.5	430	120	440	400	335	insulated braided shunt	1 130.00
JLK1085	30	7.5	530	120	440	400	335	insulated braided shunt	1 340.00
JLK1090	30	7.5	630	120	440	400	335	insulated braided shunt	1 550.00
JLK1095	30	7.5	730	120	440	400	335	insulated braided shunt	1 710.00
JLK1097	30	7.5	930	120	440	400	335	insulated braided shunt	2 120.00
JLK1098	30	7.5	1030	120	440	400	335	insulated braided shunt	2 260.00

240 mm² insulated braided links

mounting holes: $\varnothing d1=12.5 / \varnothing d2=10.5$ mm

JLK1100	32	12.5	330	240	730	680	565	insulated braided shunt	1 910.00
JLK1105	32	12.5	430	240	730	680	565	insulated braided shunt	2 230.00
JLK1110	32	12.5	530	240	730	680	565	insulated braided shunt	2 580.00
JLK1115	32	12.5	630	240	730	680	565	insulated braided shunt	2 970.00
JLK1120	32	12.5	730	240	730	680	565	insulated braided shunt	3 260.00
JLK1130	32	12.5	930	240	730	680	565	insulated braided shunt	4 200.00
JLK1135	32	12.5	1030	240	730	680	565	insulated braided shunt	4 520.00

Phase colours: Besides standard white (above), colours red and blue can be ordered on request by adding .../R (red) or .../B (blue) to above (white) part numbers.

+ 20%

Derating coefficient for bars in parallel

Number of bars	2 bars	3 bars
Coefficient to use	x 1.6	x 2

Above ZAR prices do not include VAT. E&OE

L-40

Flexible copper earthing braids

Flat tinned copper earthing braids

highly flexible braided copper earthing link

No cutting - no stripping - no lug - no crimping

Copper braid used as a super flexible conductor for all electric connection requirements, including power, earthing and equipotential connections.

Accommodates higher current density than cables and copper bars with the same cross-section. Tinned copper flat braid, used as a ground strap, provides an excellent, low resistance ground path. Supplied cut with terminated ends punched hole, ready for connection.

General features:

- Conductor: Tinned electrolytic copper braid Cu-ETP 99.90%
- Resistivity: 0.0172 Ω mm²/m
- Mechanical resistance: Min. 200 MPa
- Standard length: 150 ... 300 mm lengths
- Mounting: Punched hole, ready for connection

Typically application:

Switchgears, Connectors, ground electric connection, the energy industry for wind turbines, generators, substations, transformers, hydro turbines, circuit breakers and rectifiers.



Flat tinned copper earthing braids



type	conductor size (mm)				current rating (A)	terminal holes Ø (mm)	description	price
	width	thickness	length	cross sec. (mm²)				
10 mm² earthing braided links								
TMS1010	17	2.8	150	10	85	8.5	copper earthing braids	62.00
TMS1015	17	2.8	200	10		8.5	copper earthing braids	62.00
TMS1020	17	2.8	250	10		8.5	copper earthing braids	89.00
TMS1025	17	2.8	300	10		8.5	copper earthing braids	90.00
16 mm² earthing braided links								
TMS1035	17	3.1	150	16	120	8.5	copper earthing braids	86.00
TMS1040	17	3.1	200	16		8.5	copper earthing braids	99.00
TMS1045	17	3.1	250	16		8.5	copper earthing braids	103.00
TMS1050	17	3.1	300	16		8.5	copper earthing braids	115.00
25 mm² earthing braided links								
TMS1055	25	2.8	150	25	150	10.5	copper earthing braids	101.00
TMS1060	25	2.8	200	25		10.5	copper earthing braids	115.00
TMS1065	25	2.8	250	25		10.5	copper earthing braids	131.00
TMS1070	25	2.8	300	25		10.5	copper earthing braids	150.00
35 mm² earthing braided links								
TMS1075	21	3.6	150	35	195	10.5	copper earthing braids	129.00
TMS1080	21	3.6	200	35		10.5	copper earthing braids	150.00
TMS1085	21	3.6	250	35		10.5	copper earthing braids	171.00
TMS1090	21	3.6	300	35		10.5	copper earthing braids	193.00
50 mm² earthing braided links								
TMS1100	25	4.8	150	50	250	10.5	copper earthing braids	190.00
TMS1105	25	4.8	200	50		10.5	copper earthing braids	222.00
TMS1110	25	4.8	250	50		10.5	copper earthing braids	256.00
TMS1115	25	4.8	300	50		10.5	copper earthing braids	292.00
75 mm² earthing braided links								
TMS1120	30	5.5	200	75	330	10.5	copper earthing braids	379.00
TMS1125	30	5.5	250	75		10.5	copper earthing braids	443.00
TMS1130	30	5.5	300	75		10.5	copper earthing braids	438.00
100 mm² earthing braided links								
TMS1135	30	6.5	200	100	370	12.5	copper earthing braids	523.00
TMS1140	30	6.5	250	100		12.5	copper earthing braids	610.00
TMS1145	30	6.5	300	100		12.5	copper earthing braids	696.00

Distribution blocks



Distribution blocks

- 1 pole (*stackable horizontally*) clips together to add additional poles
- Rapid horizontal installation on 35 mm DIN rail
- Extremely compact, all side finger-safe DIN EN 50274
- Terminal body: Brass (CuZn39Pb2) Housing: Self-extinguishing, halogen free
- 1000V AC/DC - DIN/EN 60947-7-1

type	max. current rating	feed-in terminals		output terminals mm ²				description	designation	price
		max. cable (mm ²)	busbar (mm)	10	16	25	50			

HLAK - Main line/branch terminals

080110-0-4	152A	25 mm ²	—	2x				rail mount terminals	Line	79.00
	152A	25 mm ²	—	2x				rail mount terminals	Neutral	79.00
	152A	25 mm ²	—	2x				rail mount terminals	Earth	79.00
080210-0-4	202A	35 mm ²	—		2x			rail mount terminals	Line	106.00
080210-1-4	202A	35 mm ²	—		2x			rail mount terminals	Neutral	107.00
080210-2-4	202A	35 mm ²	—		2x			rail mount terminals	Earth	107.00
080310-0-4	300A	70 mm ²	—			2x		rail mount terminals	Line	332.00
080310-1-4	300A	70 mm ²	—			2x		rail mount terminals	Neutral	334.00
080310-2-4	300A	70 mm ²	—			2x		rail mount terminals	Earth	334.00

type	rated current	feed-in terminals		output terminals mm ²				description	designation	price
		max. cable (mm ²)	busbar (mm)	10	16	25	35			

UVB - Sub-distribution blocks for copper conductors

080010-0-4	100A	2x 25	—	6x				distribution block	Line	184.00
080010-1-4	100A	2x 25	—	6x				distribution block	Neutral	188.00
080010-2-4	100A	2x 25	—	6x				distribution block	Earth	188.00
080030-0-4	200A	70	—	6x		1x		distribution block	Line	345.00
080030-1-4	200A	70	—	6x		1x		distribution block	Neutral	349.00
080030-2-4	200A	70	—	6x		1x		distribution block	Earth	349.00

PDB - Power distribution blocks

Al/Cu

- Suitable for Copper or Aluminium conductors (*current ratings for copper conductors*)
- DIN rail mounting or direct chassis plate mount (*horizontal or vertical*)
- Hexagon head screws for high torque connections (*captive screws*)
- Transparent cover for easy inspection of termination

082040-0-3	164A	2.5...25	—	3x	3x			distribution block	grey	289.00
082050-0-3	214A	4...35	—	4x	2x			distribution block	grey	349.00
082060-0-3	215A	10...70	15.5 x 5	3x	2x			distribution block	grey	660.00
082070-0-3	270A	16...95	—		8x	2x		distribution block	grey	500.00
082080-0-3	400A	35...120	24 x 10	4x	3x	2x		distribution block	grey	849.00
082090-0-3	490A	95...185	24 x 10	4x	3x	2x		distribution block	grey	1 180.00

SSAK - Busbar connection terminals

690V

IEC 60947-7-1

Fastens directly onto busbars (3-10 mm thick) and provides 2 x outgoing 16 mm² cable terminals

- For direct cable connection to copper bars 3-10 mm thickness

type	rated current	feed-in terminals busbar (thickness)	branch terminal 1-16 mm ²	description		designation	price
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Insulated conductor connection terminals

(H) 47.8 x (W) 15.2 x (D) 55.2 mm

- All insulated, finger-safe PA6 (*self extinguishing, halogen free*)

086105-0-4	114A	3...10 mm thick	2x 1...16 mm ²	busbar connect terminal	Line	163.00
086105-1-4	114A			busbar connect terminal	Neutral	163.00
086105-2-4	114A			busbar connect terminal	Earth	163.00
086105-3-4	114A			busbar connect terminal	Line	163.00

Uninsulated conductor connection terminals

086105-9-2	114A	3...10 mm thick	2x 1...16 mm ²	busbar connect terminal	—	100.00
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Feed in Terminals

(H) 27.1 x (W) 17.3 x (D) 24.7 mm (without pin)

Designed for ease of feed-in to common bridging busbars used with MCB's in distribution boards

- Universal, configurable for front or (*either*) side power feed
- Screw clamp termination ensuring touch safety

084551-1-4	—	50 mm ²	insulated feed-in terminal short pin (15 mm)	grey	269.00
084553-1-4	—	50 mm ²	insulated feed-in terminal long pin (29.5 mm)	grey	200.00

Busbar supports

SBC ER – Compact adjustable busbar support - IEC 61439-1 4000A

Multipolar busbar support to carry high currents with high short circuit withstand in almost every low voltage system enclosure on the market

- Easy to install – cost effective
- Adjustable distance between phases (5 mm increments) minimum = 70 mm
- Up to 75kA rms Isc - 165kA peak Isc (distance between supports dependant)
- For bars 30...125 mm wide x 5/10 mm thick (1...3 bars per phase)
- High dielectrical resistance
- High mechanical strength Vertical bars
- High short circuit strength (see **Annex-12**)
- Universal multipole (*edgewise mounting*) busbar support system.



5025 5110

type	for busbar thickness	No. bars per phase	insulation voltage	interphase distance	description	pcs per pack	price (per pack)
5025 5110	10 mm	1-2	1000V	adjustable	busbar support inserts	(8 pcs)	1 020.00
5025 5105	5 mm	1-3	1000V	adjustable	busbar support inserts	(8 pcs)	948.00
5025 5100	universal clamping stud kit for bars 25 to 200 mm (H)				<i>per pack</i>	(4 pcs)	1 260.00
5025 5101	metal clamping stud kit for bars 25 to 100 mm (H)				<i>per pack</i>	(2 pcs)	1 370.00
5025 5124	profile	perforated support profile for inserts			<i>length 380 mm</i>	(4 pcs)	1 940.00
5025 5125	profile	perforated support profile for inserts			<i>length 480 mm</i>	(4 pcs)	2 090.00
5025 5126	profile	perforated support profile for inserts			<i>length 580 mm</i>	(4 pcs)	2 360.00
5025 5128	profile	perforated support profile for inserts			<i>length 780 mm</i>	(4 pcs)	2 670.00

One complete busbar support systems:

- 2 x support inserts (per phase) (3P = 6 / 4P = 8)
- 2 x clamping studs
- 2 x support profiles (1 x top, 1 x bottom)

SBC 10 – Compact busbar support – IEC 60439-1**2500A**

Multipole (*edgewise mounting*) busbar support system - fixed interphase distance.

High current carrying capacities:

SB C 10 multipolar edgewise busbar supports are suitable for main switchboard applications where high current carrying capacity is required.

Easy installation:

Edgewise mounted, the SB C 10 can be installed in low voltage switchboards for main and/or distribution busbar use in a horizontal and vertical position. Its installation standard dimensions mean it can be integrated in almost all LV systems on the market.

- For bars 30...120 mm wide x 10 mm thick (*one or two bars per phase*)
- Up to 50 kA rms Isc - 110kA peak Isc (*distance between supports dependant*)
- Reverse support to accommodates busbar offset (*for joining bars*)

5024 6400	10 mm	1/2	800V	75/90 mm	3-pole busbar support	(ea)	516.00
5024 6700	10 mm	1/2	1000V	90 mm	4-pole busbar support	(ea)	523.00

For complete system, order: 2 x supports + 1 x mounting accessory kit (below)

Mounting accessory kits - (2 x M8 threaded studs/insulation spacers/nuts)

5020 2030	mounting accessory kit	(rods/spacers/nuts)	for 30 mm busbars	387.00
5020 2040	mounting accessory kit	(rods/spacers/nuts)	for 40 mm busbars	408.00
5020 2050	mounting accessory kit	(rods/spacers/nuts)	for 50 mm busbars	409.00
5020 2060	mounting accessory kit	(rods/spacers/nuts)	for 60 mm busbars	433.00
5020 2080	mounting accessory kit	(rods/spacers/nuts)	for 80 mm busbars	464.00
5020 2100	mounting accessory kit	(rods/spacers/nuts)	for 100 mm busbars	520.00

SB E 44 – Four-pole stair type busbar support system**300A**

Four-pole stair type busbar support system.

(H) 180 x (W) 25 x (D) 126 mm

- For flat bars 15/20/30 mm wide x 5 mm thick (*solid or perforated*)
- Up to 22 kA rms Isc - 50kA peak Isc (*distance between supports dependent*)
- DIN rail mountable or bolt down
- Thermoplastic
- Self-extinguishing UL94VO

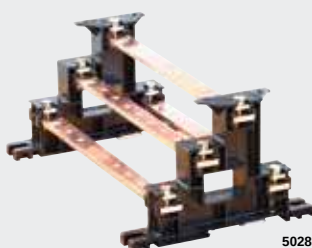
5028 0410	5 mm	1	1000V	35.5 mm	4-pole stair type support	(ea)	380.00
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5024 6400

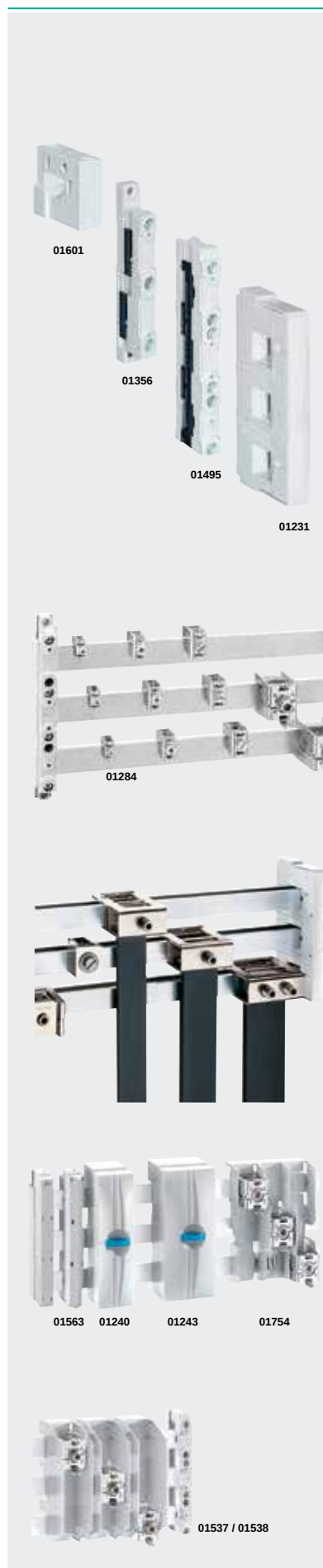


5020 2030



5028 0410

Busbar systems & accessories



60 mm - System classic

The 60 mm system is an extremely compact busbar system with 60 mm spacing between busbars arranged in horizontal format, permitting simple attachable "clip-on" accessories such as connections for various cable and/or flexible or solid busbars, fuse holders and switches as well as easy connectors which accommodate circuit breakers, contactors etc.

type	for busbar size (mm) width	thick	no. poles	description	amps	price
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Busbar supports up to 630A

- Horizontal mounting of busbars (15 - 20 - 25 - 30 mm wide)
- Permits direct mounting of accessories: various termination, fuse/circuit breaker protection

01601	15 - 30 mm	5/10 mm	1	universal busbar support	630A	214.00
01356	15 - 30 mm	5/10 mm	2	universal busbar support	630A	352.00
01495	15 - 30 mm	5/10 mm	3	universal busbar support	630A	321.00
01484*	15 - 30 mm	5/10 mm	3	busbar support (with control terminals)	630A	541.00
01485	15 - 30 mm	5/10 mm	4	universal busbar support	630A	539.00

* With integrated 16mm termination for control wiring/connection

"H" profile busbar supports up to 1600A

- Horizontal mounting of "H" profile busbars 30 mm wide
- Permits direct mounting of accessories: various termination, fuse/circuit breaker protection

01116	30 mm	"H" profile	1	"H" profile busbar support	1600A	495.00
01231	30 mm	"H" profile	3	"H" profile busbar support	1600A	1 270.00

01116 (1 pole) attaches to **01231** (3-pole) to make a 4-pole support

End covers for busbar supports (provides insulated protection of busbar ends)

01573	end cover for		3	01495 / 01484 busbar supports		107.00
01131	end cover for		4	01485 busbar supports		298.00
01373	end cover for		1	01116 busbar supports		91.00
01234	end cover for		3	01231 busbar supports		134.00

Busbar termination (for connecting cables directly onto busbars)

For cable conductors

- "Clip-on" terminals for cable conductors
- Direct clamping onto busbars no drilling required

type	for busbar size (mm) width	thick	no. poles	cable size mm ² min max	description	amps	price
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01284	15 - 30 mm	5 mm	1	1.5 16	conductor terminal	180A	25.70
01285	15 - 30 mm	5 mm	1	4 35	conductor terminal	270A	38.50
01287	15 - 30 mm	5 mm	1	16 70	conductor terminal	400A	51.00
01289	15 - 30 mm	10 mm	1	1.5 16	conductor terminal	180A	42.00
01290	15 - 30 mm	10 mm	1	4 35	conductor terminal	270A	63.00
01292	15 - 30 mm	10 mm	1	16 70	conductor terminal	400A	70.00
01203	15 - 30 mm	10 mm	1	16 120	conductor terminal	440A	132.00

CRITO® ProfiClip brace terminals for cable conductors (for standard and "H" profile bars)

01318	20 - 30 mm	5/10 mm	1	95 185	conductor terminal	500A	493.00
01760	20 - 30 mm	5/10 mm	1	120 300	conductor terminal	600A	704.00

3 phase clamp-on terminals (fully insulated, internally partitioned)

01563	15 - 30 mm	5/10 mm	3	1.5 16	conductor terminal	80A	582.00
01240	15 - 30 mm	5/10 mm	3	6 50	conductor terminal	300A	687.00
01243	15 - 30 mm	5/10 mm	3	35 120	conductor terminal	440A	1 240.00
01199	20 - 30 mm	5/10 mm	3	95 185	conductor terminal	460A	1 990.00
01754	20 - 30 mm	5/10 mm	3	120 300	conductor terminal	560A	2 600.00

01537*	20 - 30 mm	5/10 mm	3	120 300	conductor terminal	560A	2 500.00
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* Adjustable phase separation distance to align with connected component (supplied without cover)

CRITO® brace terminals for flat and flexible copper busbars

				max. bar size wide	thick			
01319	30 mm	10 mm	1	30	20	busbar connection	750A	487.00
01069	30 mm	10 mm	1	55	28	busbar connection	1600A	2 070.00
01070	30 mm	10 mm	1	68	28	busbar connection	1600A	2 540.00
01071	30 mm	10 mm	1	105	28	busbar connection	1600A	3 870.00
01538*	20 - 30 mm	5/10 mm	3	32	20	busbar connection	800A	2 430.00

* Adjustable phase separation distance (to align with connected component) supplied without cover

Busbar systems & accessories

EQUES series - Easy connectors

Direct busbar mountable "clip-on" adaptors accept various devices such as MCB's, circuit breakers, fuse holders, contactors etc. without drilling busbars.

type	for busbars (mm) width	thick	no. rails	wires mm ²	dimensions (mm) W H	description	amps	price
Easy connectors 25 - 32 - 63A								
- Direct busbar mounting adaptors for busbars 15 - 20 - 25 - 30 mm wide and "H" profile - With integrated DIN rail and pre-wired power leads from connected busbars								
32430	15 - 30	5/10/"H"	1	4	45 200	easy connector	25A	682.00
32431	15 - 30	5/10/"H"	2	4	45 200	easy connector	25A	723.00
32441	15 - 30	5/10/"H"	1	6	54 200	easy connector	32A	824.00
32442	15 - 30	5/10/"H"	2	6	54 200	easy connector	32A	735.00
32454	15 - 30	5/10/"H"	1	10	54 200	easy connector	63A	952.00
32455	15 - 30	5/10/"H"	2	10	54 200	easy connector	63A	1 010.00
32459	15 - 30	5/10/"H"	2	10	81 200	easy connector	63A	1 010.00

Universal power connectors (to accommodate MCCB's and switchgear)

- For commercially available switchgear (M4 fixing screws)
- For top connection to busbar system (bottom connection available on request)

32214	15 - 30	5/10/"H"	top connection	108	222	busbar adaptor	200A	1 960.00
32215	15 - 30	5/10/"H"	bottom connection	108	222	busbar adaptor	200A	2 010.00
32168	15 - 30	5/10/"H"	top connection	110	320	busbar adaptor	250A	2 280.00
32004*	15 - 30	5/10/"H"	top/bottom	184	320	busbar adaptor	630A	4 600.00

* With top or bottom connection

Busbar mounted fuse bases

type	for busbars (mm) width	thick	no. rails	fuse size	description	amps	price
Clamps directly onto busbar (no drilling required)							
NH DIN fuse holders (blade type fuses)							
03370	15 - 30	5/10/"H"	1 pole	"00"	busbar mounted NH fuse base	160A	398.00
03656	15 - 30	5/10/"H"	3-pole	"00"	busbar mounted NH fuse base	160A	1 320.00
03301	15 - 30	5/10/"H"	3-pole	"1"	busbar mounted NH fuse base	250A	6 700.00
03693	15 - 30	5/10/"H"	3-pole	"2"	busbar mounted NH fuse base	400A	8 780.00

NH fuse protection covers

79448	1 pole	"00"	grip lug cover for NH fuses	—	61.00
79449	1 pole	1-2-3	grip lug cover for NH fuses	—	81.00

Cylindrical fuse holders 10 x 38 mm

1 pole busbar mounted fuse holder for 10 x 38 cylindrical fuses

31570	30 mm	5/10	1 pole	10 x 38	1000 VDC busbar mount f/holder	30A	115.00
31572	20 mm	5/10	1 pole	10 x 38	1000 VDC busbar mount f/holder	30A	113.00

3-pole busbar mounted fuse holder for 10 x 38 cylindrical fuses

- Vertical mount compact (27 mm wide) 3-pole in-line fuse holder

31954	15-30	5/10/"H"	3-pole	10 x 38	busbar mount fuse base	160A	1 420.00
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Bus-mounted fuse switch disconnectors (top or bottom connection)

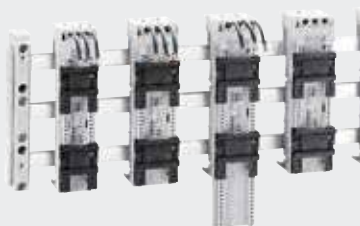
- Bus-mounting fuse switch disconnector, top/bottom connection

Horizontal mount

33216	15 - 30	5/10/"H"	3-pole	"000"	busbar mounted NH fuse base	125A	2 310.00
33398	15 - 30	5/10/"H"	3-pole	"00"	busbar mounted NH fuse base	160A	2 350.00
33601	15 - 30	5/10/"H"	3-pole	"1"	busbar mounted NH fuse base	250A	6 280.00
33602	15 - 30	5/10/"H"	3-pole	"2"	busbar mounted NH fuse base	400A	9 710.00
33603	15 - 30	5/10/"H"	3-pole	"3"	busbar mounted NH fuse base	630A	14 700.00

Vertical mount (in-line)

33234	15 - 30	5/10/"H"	3-pole	"00"	in-line bus mounted NH fuse base	160A	4 020.00
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324...



32215

32168

32004



03656

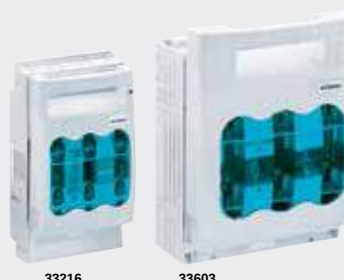
03301



31570



31954



33216

33603

Busbar systems & accessories



100 mm - Universal busbar support system

The 100 mm system is a compact busbar system with 100 mm spacing between busbar centres. Busbars are arranged in a horizontal format, permitting simple attachable "clip-on" accessories such as connections for various cable and/or flexible or solid busbars, fuse holders and switches as well as easy connectors which accommodates circuit breakers, contactors etc.

type	for busbar size (mm) width	thick	no. poles	description	rated current	price
Busbar supports 100 mm 1250A (3-pole)						
- Horizontal mounting of undrilled busbars 30 - 40 - 50 - 60 mm wide - Permits direct mounting of accessories: various termination, fuse/circuit breaker protection						
01479	30 - 60 mm	10 mm	3	universal 100 mm busbar support	1250A	974.00
End covers for above busbar supports <i>provides insulated protection of busbar ends</i>						
01254	end cover		3	for above 01479 busbar supports		240.00

Busbar supports 185 mm 2500A (3-pole)

The 185 mm busbar support system accepts busbars from 30 to 120 mm wide mounted horizontally with 185 mm spacing between busbar centres. The wide spacing of busbars offers short-circuit ratings in excess of 100 kA.

01230	30 - 120 mm	10 mm	3	universal 185 mm busbar support	2500A	1 130.00
End covers for above busbar supports <i>provides insulated protection of busbar ends</i>						
33341	end cover		3	for above 01230 busbar supports		1 150.00

Accessories for busbar systems

Busbar covers

01245	30	10	single busbar cover (<i>clips directly onto busbar</i>)	1 m	466.00
01252	30	"H" profile	single busbar cover (<i>clips directly onto busbar</i>)	2 m	780.00
01025	3-pole reserve section cover (<i>requires 01026 support for cover</i>)			0.7 m	744.00
01026	support for reserve section cover 32 mm high (<i>clips directly onto busbars</i>)				179.00
01320	support for reserve section cover 107 mm high (<i>clips directly onto busbars</i>)				232.00

System cover (*can be used to make up any sized cover for busbars, terminals etc.*)

01136	(left + right) support for cover section		(<i>clips directly onto busbars</i>)		548.00
01554	front cover section		(<i>requires 01136 supports</i>)	1.1 m	1 060.00
01555	top/bottom cover section		(<i>requires 01136 supports</i>)	1.1 m	683.00

Surface/rail mount fuse holders and switch disconnectors

type		no. poles	fuse size	description	rated current	price
Cylindrical fuse holders						
- Modular DIN rail mounting, shock protection to DIN VDE 0660, IEC/EN 60947-3 - Silicone and chlorine free, self extinguishing to UL94 - Creepage resistance CTI 200						
31110	DIN rail mounting	1	10 x 38	cylindrical fuse holder	32A	79.00
31113	DIN rail mounting	3	10 x 38	cylindrical fuse holder	32A	249.00
31115	DIN rail mounting	1	14 x 51	cylindrical fuse holder	50A	578.00
31118	DIN rail mounting	3	14 x 51	cylindrical fuse holder	50A	653.00
31120	DIN rail mounting	1	22 x 58	cylindrical fuse holder	125A	819.00
31123	DIN rail mounting	3	22 x 58	cylindrical fuse holder	125A	2 460.00

NH fuse switch disconnectors

3-pole switching DIN VDE 0660, IEC/EN 60947-3

- Shock protection with integrated positive action closure and arc chambers
- Mechanical fuse retention in disconnecter lid
- IP30 front degree of protection
- Silicone and chlorine free, self extinguishing to UL94
- See product datasheet for DC application rating

33217	fuse switch/holder	3	C00	fuse switch disconnecter	125A	1 630.00
33222	fuse switch/holder	3	00	fuse switch disconnecter	165A	1 380.00
33201	fuse switch/holder	3	1	fuse switch disconnecter	250A	4 420.00
33202	fuse switch/holder	3	2	fuse switch disconnecter	400A	7 120.00
33203	fuse switch/holder	3	3	fuse switch disconnecter	630A	9 130.00
33204	fuse switch/holder	3	4	fuse switch disconnecter	1600A	35 900.00

Cable & Component Identification

MG4 is CEMBRE's newest solution for identification & labelling requirements, designed to offer a high quality and long-lasting print for text, logos, electrical symbols, QR codes and all kinds of vector images.



Single Cables

- Cable tags for holders
- Slide / clip on tags
- Wraparound cable markers
- Push in markers
- Cable & conduit tags

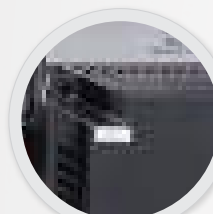
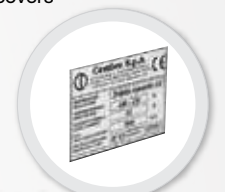
Modular Components

- Legends & labels
- Mounting rails



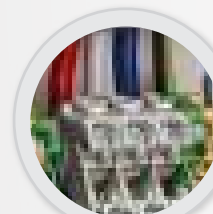
Plates and Labels

- Panel plates & covers
- Panel legends
- Security labels
- Warning labels



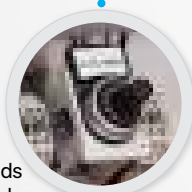
Components & Equipment

- Pre-cut legend



Terminal Block Markers

- Compatible with a wide range of brands



Components & Equipment

- PLC legends
- Rail mount legends
- Legends and holders
- Pushbutton holders & legends



Conduits, Pipes & Multi-Core

- Cable and conduit tags



- Legend holder



Panel Marking Overview

Scan the QR code to watch **tutorial videos on how to mark** various media types using Cembre's identification media



Scan to watch

Thermal transfer printer

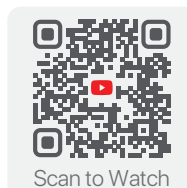


MG4

FREEDOM TO PRINT EVERYWHERE

Thermal Transfer Sheet Printer Markingenius

With MG4, Cembre offers innovative solutions in order to improve the quality of work of its users by exploiting the technology and experience in industrial marking gained from 20 years within this business sector.



ALWAYS CONNECTED!



MARKINGENIUS MG4 - Exclusively designed for the identification of conductors and electrical components.

Plug & Play Thermal Transfer Printer: For tags, markers, legends, and labels on cables, pipes, tubes, terminal blocks, panels, components, and equipment .

Large on-Board Touch Screen: Allows easy management of print projects. The MG4's reliability and robustness make it ideal for intensive use in various applications

Versatile Power Options: MG4 operates on mains power or optional CEMBRE rechargeable batteries. Use it in the office, production, or on-site. The interchangeable battery, compatible with all CEMBRE tools, ensures full portability.

Efficient Ribbon Save System: Each monochrome ribbon prints over 300,000 MG-TPMF 4x10 mm labels. Pigment dries instantly, making printed sheets immediately ready for use.

MARKINGENIUS MG4 printer (H) 236 x (W) 240 x (D) 409 mm / 6.1 kg

- Speed:** Prints 112 MG-TPMF (4 x 10 mm) cable tags in less than 12 seconds
- Convenience:** Software provides quick and easy upload of data to be printed
- Economy:** Prints up to 300 000 MG-TPMF 4 x 10 cable tags with a single ribbon
- Quality:** Printer resolution 300 x 600 dpi
- Connectivity:** Via USB, LAN, WIFI or WIFI direct (*in the absent of a network*)
- Training:** Continuous support service and free training post purchase via trained specialist

Following supplied with MG4 printer:

- MG2-PWC (991000) support template for tags (**MG-TPM**)
- MG2-PLT (991002) support template for legends, labels and signs and all serieFLAT media
- MG2-QTB (991011) support template for terminal block markers (**MG-CPM-01,02,03,04,07**)
- Mains/USB cable, protective cover, Black ribbon and take up core, installation/operating docs
- GENIUSPRO (software - 5 multiple licences and manual)

type	description	
MG4	MARKINGENIUS MG4 thermal transfer printer for marking tags and legends	see Cat M for pricing.

Accessories and spares for MG4 Printers

MG2-ETR ribbons for MARKINGENIUS MG4 thermal transfer printer ribbon

type	width (mm)	length (meters)	colour	description	Pantone ref.	price
991600	120	200	black	thermal transfer printer ribbon	Black C	3 100.00
991601	120	200	blue	thermal transfer printer ribbon	2935C	5 510.00
991602	120	200	red	thermal transfer printer ribbon	186C	5 510.00
991606	120	200	white	thermal transfer printer ribbon	—	5 510.00
CVB-039	canvas bag			transportation bag	—	2 000.00
CB1852L	battery		18V - 5.2 Ah Li-Ion rechargeable battery		—	3 020.00
ASC55-EU	charger		220 - 240 V battery charger	CB1852L	—	1 320.00

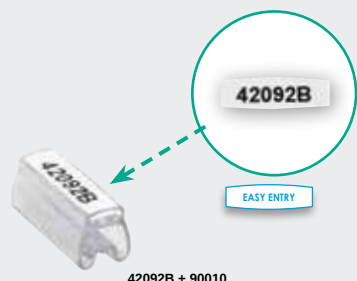
Support templates for MG4 printer

991000*	MG2-PWC	support template for cable tags	MG-TPM	4 110.00
991002*	MG2-PLT	support template for legends, labels, signs and all serie	FLAT	4 110.00
991011*	MG2-QTB	support template for terminal markers	MG-CPM-01/02/03/04/07/11	4 110.00
991008	MG2-QTB	support template for terminal markers	MG-CPM-01	4 110.00
991004	MG2-WTB	support template for terminal markers	MG-CPM-05/12	4 110.00
991010	MG2-PTM	support template for cable tags	MG-TDMO & MG-TDM (4 - 16 mm)	4 110.00

* Usually supplied with MG4 printer

991670	MG2-CKP	print head cleaning kit (template, pad & cleaning fluid)		4 940.00
992150	MG2-CNP	replacement pads for above cleaning kit	MG2-CKP (5 pcs)	4 910.00
991671	MG2-CHS	replacement cleaning fluid for above cleaning kit	MG2-CKP	1 720.00

Cable identification tags 4 mm



42092B + 90010



PMF-00



PMF-01



PMF-03

Cable tags precut 4 mm push-in marker tags for PMF holders - new "easy-entry" profile

Series FLAT MG-TPMF tags are used for marking cables, conduit, tubes, conductors and components. Presented in stem format, tags are simply snapped off their stems and inserted into appropriate holders for perfect protection against degradation by chemical and environmental agents over time. Tag stems can also be labelled to indicate specific job or application notes.

type	size (mm)	for cable (mm ²)	SW code	colour	description	tags per sheet	tags per box	price per box
MG-TPMF slide-in marking tags for PMF transparent holders - "easy entry"								
• Material:		Rigid PVC, self extinguishing class VO: UL 94						
• Operating temperature:		-30°C...+60°C						
• Support template:		991002 MG2-PLT (usually supplied with MG4 printer)						
42091B	4 x 12	—	505	white	slide-in tags for PMF holders	80	4000	4 710.00
42092B	4 x 15	—	503	white	slide-in tags for PMF holders	80	4000	4 710.00
42093B	4 x 20	—	504	white	slide-in tags for PMF holders	64	1600	2 540.00
42096B	4 x 30	—	509	white	slide-in tags for PMF holders	48	1200	2 950.00
42097B	4 x 40	—	508	white	slide-in tags for PMF holders	32	800	2 600.00
42041B	4 x 12	—	505	yellow	slide-in tags for PMF holders	80	4000	5 670.00
42042B	4 x 15	—	503	yellow	slide-in tags for PMF holders	80	4000	5 670.00
42043B	4 x 20	—	504	yellow	slide-in tags for PMF holders	64	1600	3 080.00
42046B	4 x 30	—	509	yellow	slide-in tags for PMF holders	48	1200	3 340.00
42047B	4 x 40	—	508	yellow	slide-in tags for PMF holders	32	800	2 950.00

Other colours available on request

PMF transparent tag holders for MG-TPMF series FLAT pre-printed 4 mm cable tags

PMF holders are specifically designed to accommodate appropriately sized cables. They slide on to cables to receive a pre-printed marking tag into a protected sleeve on the holder.

type	for tag (mm)	for cable (mm ²)	colour	description	std pack qty	price per pack
• Material:		Plasticised PVC, self extinguishing to class VO: UL 94				
• Operating temperature:		-40°C...+80°C				
• Free of Cadmium, Lead, Silicon, Teflon. Resistant to alkali, alcohol, acids and solvents						
PMF-00	for cable ext. Ø diameter		1.3 - 2.2 mm			
90010	4 x 12	0.25-0.5	t/parent	slide-on transparent tag holder	7000	2 680.00
90020	4 x 15	0.25-0.5	t/parent	slide-on transparent tag holder	6000	3 170.00
90040	4 x 20	0.25-0.5	t/parent	slide-on transparent tag holder	4000	2 450.00
90070	4 x 30	0.25-0.5	t/parent	slide-on transparent tag holder	2000	2 190.00
90090	4 x 40	0.25-0.5	t/parent	slide-on transparent tag holder	2500	3 250.00
PMF-01	for cable ext. Ø diameter		2 - 3.7 mm			
90110	4 x 12	0.5 - 2.5	t/parent	slide-on transparent tag holder	5000	2 430.00
90120	4 x 15	0.5 - 2.5	t/parent	slide-on transparent tag holder	4000	2 210.00
90140	4 x 20	0.5 - 2.5	t/parent	slide-on transparent tag holder	3000	2 000.00
90170N	4 x 30	0.5 - 2.5	t/parent	slide-on transparent tag holder	1500	1 890.00
90190N	4 x 40	0.5 - 2.5	t/parent	slide-on transparent tag holder	500	670.00
PMF-02	for cable ext. Ø diameter		3.4 - 4.3 mm			
90210	4 x 12	2.5 - 4	t/parent	slide-on transparent tag holder	4000	2 310.00
90220	4 x 15	2.5 - 4	t/parent	slide-on transparent tag holder	3000	1 890.00
90240	4 x 20	2.5 - 4	t/parent	slide-on transparent tag holder	2000	1 420.00
90270N	4 x 30	2.5 - 4	t/parent	slide-on transparent tag holder	500	670.00
90290N	4 x 40	2.5 - 4	t/parent	slide-on transparent tag holder	500	730.00
PMF-03	for cable ext. Ø diameter		4 - 6.3 mm			
90310	4 x 12	4 - 10	t/parent	slide-on transparent tag holder	2000	1 260.00
90320	4 x 15	4 - 10	t/parent	slide-on transparent tag holder	2000	1 370.00
90340	4 x 20	4 - 10	t/parent	slide-on transparent tag holder	1000	903.00
90370N	4 x 30	4 - 10	t/parent	slide-on transparent tag holder	500	730.00
90390N	4 x 40	4 - 10	t/parent	slide-on transparent tag holder	500	845.00
PMF-04	for cable ext. Ø diameter		6 - 10 mm			
90420	4 x 15	10 - 25	t/parent	slide-on transparent tag holder	1000	903.00
90440N	4 x 20	10 - 25	t/parent	slide-on transparent tag holder	1000	1 160.00
90470	4 x 30	10 - 25	t/parent	slide-on transparent tag holder	500	933.00
90490N	4 x 40	10 - 25	t/parent	slide-on transparent tag holder	250	608.00
PMF-05	for cable ext. Ø diameter		9 - 15 mm			
90520N	4 x 15	25 - 70	t/parent	slide-on transparent tag holder	500	785.00
90540	4 x 20	25 - 70	t/parent	slide-on transparent tag holder	250	499.00
90570N	4 x 30	25 - 70	t/parent	slide-on transparent tag holder	250	758.00
90590	4 x 40	25 - 70	t/parent	slide-on transparent tag holder	100	407.00

Larger sizes up to 240 mm² available on request

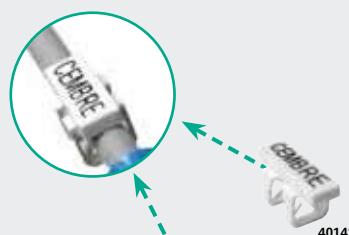
Cable identification tags 4 mm



PMF-AC...



PMF-ET...



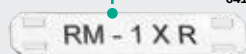
40141



40390



64197-SBS



MG-KMP - Wraparound cable markers



POSITION

WRAP

Transparent tag holders to receive 4 mm pre-printed tags

PMT holders are specifically designed to receive a pre-printed marking tag into a protected sleeve on the holder.

type	for tag (mm)	mounting	colour	description	std pack	price per pack
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PMF transparent holders for MG-TPMF series FLAT cable tags 4 mm

- Material: Plasticised PVC, self extinguishing to class VO: UL 94
- Free of Cadmium, Lead, Silicon, Teflon. Resistant to alkali, alcohol, acids and solvents

PMF-AC self adhesive tag holders for surface mounting of 4 mm tags

66010N	4 x 12	adhesive	t/parent	self adhesive 4 mm tag holder	4000	8 190.00
66020N	4 x 15	adhesive	t/parent	self adhesive 4 mm tag holder	4000	10 900.00
66040N	4 x 20	adhesive	t/parent	self adhesive 4 mm tag holder	3000	11 500.00
66070N	4 x 30	adhesive	t/parent	self adhesive 4 mm tag holder	2000	10 600.00
66090N	4 x 40	adhesive	t/parent	self adhesive 4 mm tag holder	1000	7 420.00

PMF-ET tie-on tag holders for mounting on cables, hoses, tubes, conduits with cable ties

- Tie on holder (max cable tie width 6 mm) longitudinal mounting of cables, tubes, conduit

63020	4 x 15	tie mount	1 tie	t/parent	tie-on transparent tag holder	2000	3 800.00
63040N	4 x 20	tie mount	1 tie	t/parent	tie-on transparent tag holder	2000	4 390.00
63070	4 x 30	tie mount	1 tie	t/parent	tie-on transparent tag holder	1000	3 180.00
63090	4 x 40	tie mount	2 ties	t/parent	tie-on transparent tag holder	500	1 800.00

MG series one piece cable marking tags (without holder - directly mounts onto cable)

MG one piece tags require no holders and can be directly mounted onto cable without tools. A sheet of tags takes 10 seconds to print. Partially printed sheets may be re-used to avoid wastage. MG - one piece marking tags mount onto cables via the two range-taking apertures

- Material: Polycarbonate, Halogen Free, self extinguishing to class VO: UL 94

991010	Use support template MG2-PTM for all MG series markers					4 110.00
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type	size (mm)	for cable (mm ²)	SW code	colour	description	tags per sheet	price per box
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MG-TDM slide-on one piece marking tags (pre - termination)

MG-TDM-01		for cable external Ø diameter		1.6 - 3.25 mm			
40141	4 x 16	0.5-1.5	123	yellow	slide-on cable marker tags	40 800	1 900.00
MG-TDM-02		for cable external Ø diameter		2 - 4.4 mm			
40241	4 x 16	1 - 6	124	yellow	slide-on cable marker tags	40 640	1 520.00

MG2-TDMO clip-on one piece marking tags (post termination)

MG2-TDMO-01		for cable external Ø diameter		2 - 2.9 mm			
40390	4 x 12	0.5 - 1.5	125	white	slide-on cable marker tags	40 880	1 910.00
40391	4 x 16	0.5 - 1.5	128	white	slide-on cable marker tags	40 880	2 140.00
MG2-TDMO-02		for cable external Ø diameter		2.9 - 3.5 mm			
40490	4 x 12	1.5 - 2.5	126	white	slide-on cable marker tags	40 640	1 330.00
40491	4 x 16	1.5 - 2.5	129	white	slide-on cable marker tags	40 640	1 520.00
MG2-TDMO-03		for cable external Ø diameter		4 - 4.6 mm			
40590	4 x 12	4 - 6	127	white	slide-on cable marker tags	40 560	1 220.00
40591	4 x 16	4 - 6	130	white	slide-on cable marker tags	40 560	1 370.00

MG-ETF cable and conduit tags (cable tie mounting)

- For marking large diameter cables, hoses, tubes and conduit
- Max. cable tie width: 4.8 mm
- Support template: 991002 MG2-PLT (usually supplied with MG4 printer)

64193-SBS	13 x 57	—	581	white	11 x 35 mm tie mount cable tags	14 800	6 340.00
64143-SBS	13 x 57	—	581	yellow	11 x 35 mm tie mount cable tags	14 800	7 650.00
64293-SBS	15 x 95	—	584	white	13 x 73 mm tie mount cable tags	5 250	4 950.00
64197-SBS	28 x 57	—	591	white	26 x 35 mm tie mount cable tags	6 300	4 160.00
64147-SBS	28 x 57	—	591	yellow	26 x 35 mm tie mount cable tags	6 300	4 850.00

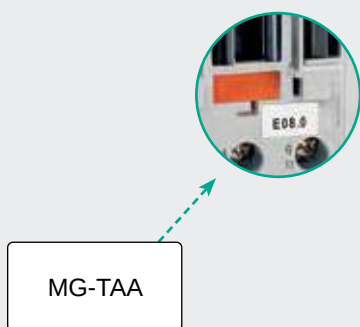
Other colours, halogen free options, available on request.

MG-KMP Wraparound cable markers (self adhesive, pre-cut, halogen free)

Suitable for identifying large diameter cables, tubes and conduit. Printing is exceptionally clear and legible and is protected from chemical and atmospheric agents.

49950-015	10 x 15	4.3 - 7	381	white	tie mount cable tags	18 900	9 940.00
49951-023	15 x 23	6 - 10	385	white	tie mount cable tags	8 400	6 410.00

Cable identification tags 9 mm



9 mm marking tags and holders

type	size (mm)	SW code	colour	description	tags per sheet	box	price per box
MG-TAPW 9 mm push-in precut marking legends for PMT series legend holders (<i>below</i>)							
- Presented in stem format - Tags are simply snapped off their stems and inserted into the appropriate holders - Support template: 991002 MG2-PLT (<i>usually supplied with MG4 printer</i>)							
Material:				Rigid PVC, self extinguishing to class VO: UL 94			
Operating temperature:				-30°C...+60°C			
49090N	9 x 20	362	white	push-in legends for PMT holders	55	2750	10 100.00
49091N	9 x 35	364	white	push-in legends for PMT holders	33	1650	9 500.00
49095N	9 x 70	378	white	push-in legends for PMT holders	11	550	11 100.00
49040N	9 x 20	362	yellow	push-in legends for PMT holders	55	2750	12 300.00
49041N	9 x 35	364	yellow	push-in legends for PMT holders	33	1650	11 500.00
49045N	9 x 70	378	yellow	push-in legends for PMT holders	11	550	9 980.00

MG-TAA 9 mm self adhesive, precut legends supplied on a sheet

- Self adhesive, can be applied to panels, components and equipment - Support template: 991002 MG2-PLT (<i>usually supplied with MG4 printer</i>)							
Material:				Rigid PVC, self extinguishing to class VO: UL 94			
Operating temperature:				-30°C...+60°C			
49290N	9 x 12	960	white	precut self adhesive blank legends	88	2200	8 360.00
49397N	9 x 15	961	white	precut self adhesive blank legends	77	1925	11 100.00
49190N	9 x 20	962	white	precut self adhesive blank legends	55	1375	8 600.00
49191N	9 x 35	964	white	precut self adhesive blank legends	33	825	10 100.00
49240N	9 x 12	960	yellow	precut self adhesive blank legends	88	2200	8 900.00
49347N	9 x 15	961	yellow	precut self adhesive blank legends	77	1925	10 600.00
49140N	9 x 20	962	yellow	precut self adhesive blank legends	55	1375	9 490.00
49141N	9 x 35	964	yellow	precut self adhesive blank legends	33	825	9 340.00

PMT transparent legend holders to receive **MG-TAPW** 9 mm pre-printed tags (*above*)

Material:			Plasticised PVC, self extinguishing to class VO: UL 94			
Operating temperature:			-40°C...+80°C			
Free of Cadmium, Lead, Silicon and Teflon. Resistant to alkali, alcohol, acid and many other solvents						
type	for tags (mm)	mounting	colour	description	std pack qty	price per pack
self adhesive tag holder for surface mounting of 9 mm marking tags						
59042N	9 x 20	adhesive	t/parent	self adhesive tag holder	500	3 250.00
59050N	9 x 35	adhesive	t/parent	self adhesive tag holder	500	6 510.00
PMF-ET tie-on tag holders for mounting on cables, hoses, tubes, conduits with cable ties						
• Tie on holder (max cable tie width 6 mm) longitudinal mounting of cables, tubes, conduit						
64040	9 x 20	1 tie	t/parent	tie-on transparent tag holder	1000	2 430.00
64050	9 x 35	2 tie	t/parent	tie-on transparent tag holder	500	1 760.00
PMT-CT tie-on tag holders for mounting on cables, hoses, tubes, conduits with cable ties						
54013	9 x 55	2 tie	t/parent	55 mm t/parent tie-on tag holder	500	2 060.00
54014	9 x 90	2 tie	t/parent	90 mm t/parent tie-on tag holder	250	1 650.00

Rail holder and protective covers for 9 mm legends (*above*)

Legend rails provide an alternative to direct marking on components. 15 mm legends simply slide into rail and can be protected by using optional RT-CCP transparent protective strip.

- Legend rail for 9 mm labels
- Non-deformable up to 90°C
- Rigid dielectric high impact PVC. Lead-free, self extinguishing to class VO: UL 94

RTA-TAPW self adhesive rail, accepts 9 mm legends

990506N	1 meter	adhesive	grey	adhesive rail holder for 9 mm legend	25	4 950.00
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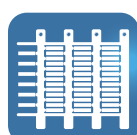
RT-CCWS transparent protective strip for above rail

990734	1 meter	RT-CCWS	t/parent	protective strip for above 9 mm rails	25	2 070.00
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Cable identification tags 15 mm

	15 mm marking tags and holders						
	- Operating temperature: -30°C...+60°C - Material: Rigid PVC, self extinguishing to class VO: UL 94 - Support template: 991002 MG2-PLT (usually supplied with MG4 printer)						
	type	size (mm)	SW code	colour	description	tags per sheet	price per box
	MG-TAP slide-in marking legends for PMT-AC/ET/DT, PLR, PTPR legend holders (below)						
	- Presented in stem format - Tags are simply snapped off their stems and inserted into the appropriate holders						
	47090N	15 x 17	165	white	slide-in markers for 15 mm holders	42	2 730.00
	47091N	15 x 27	166	white	slide-in markers for 15 mm holders	28	4 360.00
	47092N	15 x 49	167	white	slide-in markers for 15 mm holders	14	4 970.00
	47093	15 x 67	188	white	slide-in markers for 15 mm holders	14	4 620.00
	MG-17.5-R marking legends for RTR/RTA-TAP rail (overleaf)						
	- For use with RTR/RTA-TAP 15 mm legend rails - Modular legends to suit standard MCBs for distribution boards						
	990768N	15 x 17.5	321	white	1 module legend for rail holders	42	3 550.00
	990766N	15 x 35	322	white	2 module legend for rail holders	21	5 570.00
	990764N	15 x 52.5	323	white	3 module legend for rail holders	14	7 160.00
	990762	15 x 70	324	white	4 module legend for rail holders	6	7 020.00
	990798N	15 x 107.5	329	white	6 module legend for rail holders	7	5 500.00
	990883	15 x 140	331	white	8 module legend for rail holders	7	7 160.00
	MG-TAA self adhesive pre-cut legends						
	- Self adhesive - can be applied to panels, components and equipment - Material: Rigid PVC - self extinguishing to class VO: UL 94 - Support template: 991002 MG2-PLT (usually supplied with MG4 printer)						
	49192N	15 x 17	965	white	pre-cut self adhesive blank legends	42	10 300.00
	49193N	15 x 27	966	white	pre-cut self adhesive blank legends	28	7 050.00
	49194N	15 x 49	967	white	pre-cut self adhesive blank legends	14	6 690.00
	49195	15 x 67	977	white	pre-cut self adhesive blank legends	14	13 500.00
	MG-17.5-A self adhesive modular legends (for modular MCBs)						
	990824	15 x 107.5	929	white	6 module self adhesive legends	7	6 090.00
	990880	15 x 140	931	white	8 module self adhesive legends	7	6 180.00
	PMT transparent legend holders for MG-TAP 15 mm pre-printed legends (above)						
	PMT holders are specifically designed to receive a pre-printed marking tag into a protected sleeve on the holder.						
	type	for tags (mm)	mounting	colour	description	std pack qty	price per pack
	- Material: Plasticised PVC, self extinguishing to class VO: UL 94 - Operating temperature: -40°C...+80°C - Free of Cadmium, Lead, Silicon and Teflon. Resistant to alkali, alcohol, acids and solvents						
	PMT-AC self adhesive legend holders for surface mounting of 15 mm marking legends						
	59002N	15 x 17	adhesive	t/parent	self adhesive 15 mm tag holder	500	4 040.00
	59010N	15 x 27	adhesive	t/parent	self adhesive 15 mm tag holder	1000	10 100.00
	59020N	15 x 49	adhesive	t/parent	self adhesive 15 mm tag holder	500	9 080.00
	59030N	15 x 67	adhesive	t/parent	self adhesive 15 mm tag holder	250	6 590.00
	PMF-ET tie-on legend holders for mounting on cables, hoses, tubes and conduits with cable ties						
	Tie on holder (max cable tie width 6 mm) longitudinal mounting of cables, tubes, conduit						
	65000	15 x 17	1 tie	t/parent	tie-on transparent tag holder	500	1 180.00
	65010	15 x 27	1 tie	t/parent	tie-on transparent tag holder	500	1 660.00
	65020	15 x 49	2 tie	t/parent	tie-on transparent tag holder	250	1 130.00
	65030	15 x 67	2 tie	t/parent	tie-on transparent tag holder	250	1 560.00

Media - Types



Sheet



Roll



Conduit



Legend



Terminal



Panel

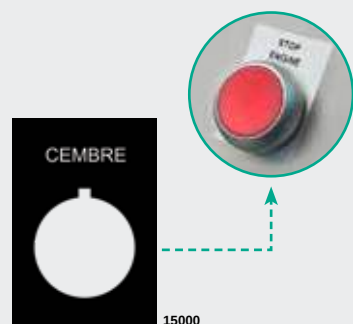
Cable identification tags 15 mm



New



990454



15000



88916

Legend holders/base to receive MG-TAP 15 mm pre-printed legends

PMT holders are specifically designed to receive a pre-printed marking legends into a protected sleeve.

type	for tags (mm)	mount	colour	size (mm)	description	tags per sheet	box	price per box
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Holder/base to receive MG-TAP 15 mm pre-printed legends

PLR *rectangular legend support/base - rivet fixing*

34202	15 x 17	rivet	black	17 x 20	legend holder/base	100		1 690.00
34302	15 x 27	rivet	black	17 x 30	legend holder/base	100		1 820.00
34402	15 x 49	rivet	black	17 x 52	legend holder/base	100		2 250.00
34502	15 x 67	rivet	black	17 x 70	legend holder/base	100		2 510.00

PTPR-22 *legend holder for standard Ø 22.5 mm pushbuttons*

34102	15 x 27	Ø 22.5	black	48 x 30	rivet p/button legend	100		1 690.00
34702	15 x 27	Ø 22.5	black	48 x 30	adhesive p/button legend	100		2 310.00

MG-TAP-CCS transparent protective covers for above legend supports

990508N	15 x 17	165	t/parent		covers for legend supports	42	1050	4 400.00
990510N	15 x 27	166	t/parent		covers for legend supports	28	1400	8 570.00
990513N	15 x 49	167	t/parent		covers for legend supports	14	700	8 190.00
990514N	15 x 67	168	t/parent		covers for legend supports	14	350	7 880.00

Rail holder and protective covers for MG-17.5 15 mm legends

Legend rails provide an alternative to direct marking on components. 15 mm legends simply slide into rail and can be protected by using optional RT-CCP transparent protective strip.

- Legend rail for 15 mm labels
- Rigid dielectric high impact PVC. Lead-free, self extinguishing to class VO: UL 94
- Non-deformable up to 90°C

RTR-TAP *pre-drilled rail, accepts MG-17.5-R 15 mm legends*

990454	430 mm	rivet	black		rail holder for 15 mm legend	25		1 880.00
990664	650 mm	rivet	black		rail holder for 15 mm legend	25		2 710.00

RTA-TAP *self adhesive rail, accepts MG-17.5-R 15 mm legends*

990525N	1 meter	adhesive	black		adhesive rail holder for 15 mm legend	25		3 960.00
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RT-CCPS *transparent protective strip for above rail*

990735	1 meter	RT-CCPS	t/parent		protective strip for above rails	25		2 070.00
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Push button legends Ø 22.5 mm precut

- Operating temperature: -30°C...+60°C
- Material: Rigid PVC, self extinguishing to class VO: UL 94
- Support template: 991002 MG2-PLT (usually supplied with MG4 printer)

type	size (mm)	SW code	colour	description	tags per sheet	box	price per box
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MG-PTS *Ø22.5 mm precut legends for pushbuttons*

15090	40 x 30	1000	white	Ø 22.5 mm pushbutton legend	6	300	6 240.00
15040	40 x 30	1000	yellow	Ø 22.5 mm pushbutton legend	6	300	7 520.00
15000	40 x 30	1000	black	Ø 22.5 mm pushbutton legend	6	300	9 330.00
15091	50 x 30	1001	white	Ø 22.5 mm pushbutton legend	6	300	6 240.00
15041	50 x	1001	yellow	Ø 22.5 mm pushbutton legend	6	300	7 520.00

MG-VRT-A *Panel plates self adhesive, customisable*

Rigid PVC self adhesive panel plates used to create name plates, rating plates, data plates using company logos, technical data, serial numbers, certification, etc.

- Material: Rigid PVC - self extinguishing to class VO: UL 94
- Support template: 991002 MG2-PLT (usually supplied with MG4 printer)

88916	25 x 50	853	white	precut self adhesive blank labels	8	200	4 950.00
88900N	32 x 58	200	white	precut self adhesive blank labels	6	150	5 070.00
88945	35 x 75	825	white	precut self adhesive blank labels	3	75	4 920.00
88918	50 x 50	858	white	precut self adhesive blank labels	4	100	4 900.00
88901	42 x 78	202	white	precut self adhesive blank labels	2	50	4 510.00
88902	62 x 88	203	white	precut self adhesive blank labels	1	25	5 030.00
88903	52 x 107	204	white	precut self adhesive blank labels	2	50	4 510.00
88913	92 x 118	813	white	precut self adhesive blank labels	1	25	5 030.00
88904	105 x 110	812	white	precut self adhesive blank labels	1	25	5 030.00

Component identification labels

PVC SF -30°C +60°C		Self adhesive precut legends for marking • Self adhesive - can be applied to panels, components and equipment • Material: Rigid PVC - self extinguishing to class VO: UL 94 • Support template: 991002 MG2-PLT (usually supplied with MG4 printer)										
MG-TAA		type	size (mm)	SW code	colour	description		tags per sheet box		price per box		
		MG-TAA self adhesive, precut legends										
MG-VYT		49196	7 x 20	179	white	precut self adhesive blank legends		60	1500	6 960.00		
		49597	7 x 44	795	white	precut self adhesive blank legends		28	700	10 100.00		
		49498	8.5 x 30	720	white	precut self adhesive blank legends		33	825	10 100.00		
		49290N	9 x 12	960	white	precut self adhesive blank legends		88	2200	8 360.00		
		49397N	9 x 15	961	white	precut self adhesive blank legends		77	1925	11 100.00		
		49190N	9 x 20	962	white	precut self adhesive blank legends		55	1375	8 600.00		
		49191N	9 x 35	964	white	precut self adhesive blank legends		33	825	10 100.00		
		49193N	15 x 27	966	white	precut self adhesive blank legends		28	700	7 050.00		
		49194N	15 x 49	967	white	precut self adhesive blank legends		14	350	6 690.00		
		49195	15 x 67	977	white	precut self adhesive blank legends		14	350	13 500.00		
		49293	20 x 48	850	white	precut self adhesive blank legends		10	250	6 680.00		
		49294	20 x 72	851	white	precut self adhesive blank legends		5	125	7 690.00		
MG-VYT		MG-VYT self adhesive precut labels										
		• Dielectric PVC film labels used for internal and external marking • Support template: 991002 MG2-PLT (usually supplied with MG4 printer)										
		46915	6 x 15	181	white	precut self adhesive blank labels		105	5250	4 740.00		
		44891	7 x 10	191	white	precut self adhesive blank labels		120	6000	4 910.00		
		46928	7 x 15	182	white	precut self adhesive blank labels		60	3000	4 710.00		
		46935	7 x 20	190	white	precut self adhesive blank labels		60	3000	4 710.00		
		46914	9 x 12	160	white	precut self adhesive blank labels		80	4000	4 750.00		
		44895	9 x 15	161	white	precut self adhesive blank labels		70	3500	4 580.00		
		44896N	9 x 20	162	white	precut self adhesive blank labels		55	2750	4 890.00		
		46910N	9 x 35	164	white	precut self adhesive blank labels		33	1650	4 860.00		
		46921N	15 x 27	186	white	precut self adhesive blank labels		28	1400	5 120.00		
		46933N	15 x 49	187	white	precut self adhesive blank labels		14	700	4 750.00		
48900N + 47590		46925	25 x 50	612	white	precut self adhesive blank labels		8	400	4 680.00		
		46926	25 x 80	613	white	precut self adhesive blank labels		4	200	4 680.00		
CPT		MG-VRT-R customisable panel plates										
		Rigid PVC panel plates used to create name plates, rating plates, data plates using company logos, technical data, serial numbers, certification, etc. CPT transparent polycarbonate covers can be used for increased durability • Material: Rigid PVC - self extinguishing to class VO: UL 94 • Support template: 991002 MG2-PLT (usually supplied with MG4 printer)										
CPT		48900N	32 x 58	200	white	precut customisable panel plates		6	300	6 240.00		
		48901	42 x 78	202	white	precut customisable panel plates		2	100	5 850.00		
		48902	62 x 88	203	white	precut customisable panel plates		1	50	6 060.00		
		48903	52 x 107	204	white	precut customisable panel plates		2	100	5 850.00		
		48913	92 x 118	813	white	precut customisable panel plates		1	50	6 060.00		
CPT		CPT transparent rivet fixing protection covers for panel plates (above)										
		Polycarbonate covers can be used to increase durability (Ø 3 mm mounting holes)										
		47590	37 x 79	–	t/parent	covers for 32 x 58 panel plates	10	931.00				
		47591	47 x 98	–	t/parent	covers for 42 x 78 panel plates	10	974.00				
		47594	67 x 109	–	t/parent	covers for 62 x 88 panel plates	10	1 090.00				
CPT		47592	57 x 127	–	t/parent	covers for 52 x 107 panel plates	10	993.00				
		47593	97 x 140	–	t/parent	covers for 92 x 118 panel plates	10	1 950.00				

Metal Detectable - Media

In food & beverage, pharmaceuticals, and cosmetics, maintaining top product quality is vital for end-user safety. **Cembre's new MD (Metal Detectable)** media ensure reliable detection with a special additive that is easily detected by metal detectors and X-rays.



Scan to Learn





MG-CPM terminal block markers

Terminal block markers are available in versions to suit the particular clip formats of the most widely used terminals, they provide an elevated mechanical robustness, high dimensional stability and are Halogen free. To optimise application time, additional data such as job details, location, etc - can be printed on the stems.

type	size (mm)	SW code	colour	description	tags per sheet	box	price per box
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MG-CPM terminal block markers

- Material: Polycarbonate, Halogen free self extinguishing to class VO: UL 94
- Support template: **991011 MG2-QTB** (usually supplied with **MG4 printer**)

MG-CPM-01

For terminals - **Klemsan**, Weidmuller, ABB Entelec, Wago, Allen Bradley, ContaClip, Connectwell

41094*	5 x 7	13	white	terminal block marking tag	56	1960	3 850.00
41090N	5 x 10	14	white	terminal block marking tag	56	1960	3 400.00
41190N	5 x 10	22	white	terminal block marking tag	48	1680	3 300.00
41091N	5 x 15	16	white	offset terminal block marking tag	48	1680	3 740.00
41095	6 x 10	17	white	modular terminal block marking tag	48	1680	3 300.00
41096	8 x 10	18	white	modular terminal block marking tag	32	1120	3 420.00

* Use support template **991008**

MG-CPM-04

For terminals - Phoenix Contact UK/UT/ST, ABB Entelec, Wago, Cabur, Connectwell

41390N	5 x 10	42	white	terminal block marking tag	48	1680	3 300.00
41391	6 x 10	45	white	modular terminal block marking tag	48	1344	2 640.00
41396	8 x 10	48	white	modular terminal block marking tag	32	1120	3 420.00

MG-CPM-05

For terminals - **Wieland**, Telemechanique, Legrand

- Support template: **991004 MG2-WTB** support template for **MG-CPM-05**

41490	5 x 10	51	white	terminal block marking tag	56	1960	3 850.00
41494	5 x 10	51	white	modular terminal marking tag	56	1960	3 850.00

MG-CPM-07

For terminals - Phoenix Contact ST/STU/STS/STI/STN/STTB, Siemens 8WH, Schlegel

41691	5 x 10	71	white	terminal block marking tag	48	1680	3 300.00
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MG-CPM-11

For terminals - **Finder**, **Klemsan**, Allen Bradley, Weidmuller WDU, Conta Clip RK, Omron

46392	6 x 12	106	white	terminal block marking tag	48	1344	2 640.00
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MG-CPM-13

For terminals - **Finder**, **Klemsan**, Allen Bradley, Weidmuller WDU, Conta Clip RK, Omron

41790	5 x 12	113	white	terminal block marking tag	56	1960	3 850.00
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MG-CPM-15

For terminals - **Klemsan**, Wallen Bradley, Weidmuller, Conta Clip RK, Wago Top Job

42908	5 x 5	402	white	terminal block marking tag	48	1680	3 740.00
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MG-SIGNS-VY self adhesive panel labels, warning, hazard, prohibition

Material:	PVC film						
991104	50	260	yellow	self adhesive triangle warning sign	4	200	5 210.00
991105	100	242	yellow	self adhesive triangle warning sign	1	50	5 030.00
991109	34 x 74	246	yellow	self adhesive rectangular label	2	100	5 130.00
991110	52 x 105	247	yellow	self adhesive rectangular label	2	100	5 130.00
991106	Ø 62	232	yellow	round label for 22.5 mm hole	1	50	5 030.00
991107	Ø 90	233	yellow	round label for 22.5 mm hole	1	50	5 030.00

Thermal transfer printer



Rolly3000

Thermal transfer printer for customised marking of tags on rolls

ROLLY3000 is designed for volume printing of all Cembre flat material on rolls, eg. Cable tags for holders, tie-on, wraparound cable markers, legend strips and labels.

Carriage loading and unloading operations are rapid and support templates are easily interchangeable.

As pigment deposited from the ribbon dries instantaneously, printed sheets are immediately ready for use.

ROLLY3000 package comprises: (H) 288 x (W) 252 x (D) 460 mm

- ROLLY3000 printer
- Mains and USB cable, Black printer ribbon, installation/operating documentation, GENIUSPRO - software

type	description	price
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ROLLY3000 printer Thermal transfer printer for marking of tags and legends

- **Speed** Prints 1000 TPM-ROLL 4 x 10 cable tags in less than 2 minutes
- **Convenience** Software provides quick and easy upload of data to be printed
- **Economy** Prints up to 140.000 TPM-ROLL 4 x 10 cable tags with a single ribbon
- **Quality** Printer resolution 300 dpi

ROLLY3000	Thermal transfer printer for marking tags and legends on rolls	129 000.00
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Accessories for ROLLY3000 printer

type	width (mm)	length (met.)	colour	description	Pantone ref.	price
842112	112	200	black	TPS-060 thermal t/fer printer ribbon	Black C	3 750.00

TPM-ROLL push-in 4 mm marking tags on a roll for PMF, PMT-AC tag holders

- Presented on a roll for ROLLY3000 printers
- Tags are simply inserted into appropriate holders and snapped off their branches

Material: Rigid PVC, self extinguishing to class VO: UL 94
Operating temperature: -30°C...+60°C

type	size (mm)	SW code	colour	description	tags per roll	price per roll
44091B	4 x 12	4022	white	push-in tags for PMF 4 mm holders	12552	15 600.00
44092B	4 x 15	4023	white	push-in tags for PMF 4 mm holders	12552	15 600.00
44093B	4 x 20	4005	white	push-in tags for PMF 4 mm holders	10200	17 000.00
44096B	4 x 30	4026	white	push-in tags for PMF 4 mm holders	6270	15 400.00
44097B	4 x 40	4007	white	push-in tags for PMF 4 mm holders	5005	14 700.00
44041B	4 x 12	4022	yellow	push-in tags for PMF 4 mm holders	12552	21 900.00
44042B	4 x 15	4023	yellow	push-in tags for PMF 4 mm holders	12552	21 900.00
44043B	4 x 20	4005	yellow	push-in tags for PMF 4 mm holders	10200	23 700.00
44046B	4 x 30	4026	yellow	push-in tags for PMF 4 mm holders	6270	22 200.00
44047B	4 x 40	4007	yellow	push-in tags for PMF 4 mm holders	5005	21 600.00

TAR-ROLL push-in 9 mm marking tags for PMT and RT-TAPW tag holders

75098	9 x 20	4301	white	push-in tags for PMT 9 mm holders	5800	21 400.00
75099	9 x 70	4300	white	push-in tags for PMT 9 mm holders	1450	24 400.00
75049	9 x 70	4300	yellow	push-in tags for PMT 9 mm holders	1450	28 700.00

ETF-ROLL tie-on, precut one piece 13 mm markers (max cable tie width 4.8 mm)

44192-SBS	13 x 57	4400	white	tie-on cable and conduit tags	1775	14 400.00
44142-SBS	13 x 57	4400	yellow	tie-on cable and conduit tags	1775	17 900.00

STRIP-ROLL-R modular component legend strips on a roll

- For use with RTA-TAP rail legend holder (page L-53)
- SW code - 5002 - 430 mm / SW 5102 - 630 mm / SW 502 - 1000 mm

13160	15 mm	-	white	modular component legend strip	25 meter	8 790.00
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TTL self-adhesive thermal transfer labels on a roll (Polyester film)

8400008WPYG	7 x 15	4102	white	self adhesive labels on a roll	32000	14 000.00
8401010WPYG	7 x 20	4101	white	self adhesive labels on a roll	24000	11 800.00
8400092WPYG	9 x 15	4107	white	self adhesive labels on a roll	26660	13 000.00
8400017WPYG	9 x 20	4106	white	self adhesive labels on a roll	19995	11 200.00
8400094WPYG	9 x 38	4108	white	self adhesive labels on a roll	13330	13 900.00
8401008WPYG	15 x 27	4120	white	self adhesive labels on a roll	13320	15 100.00
8400038WPYG	22 x 40	4164	white	self adhesive labels on a roll	4800	8 960.00
8400073WPYG	25 x 45	4168	white	self adhesive labels on a roll	5710	14 200.00
8400042WPYG	30 x 50	4175	white	self adhesive labels on a roll	2420	7 920.00
8400072WPYG	30 x 80	4176	white	self adhesive labels on a roll	2420	12 100.00
8400051WPYG	40 x 80	4188	white	self adhesive labels on a roll	2800	17 600.00
8400083WPYG	40 x 90	4121	white	self adhesive labels on a roll	1860	13 800.00



44091B



44192-SBS



84...WPYG

