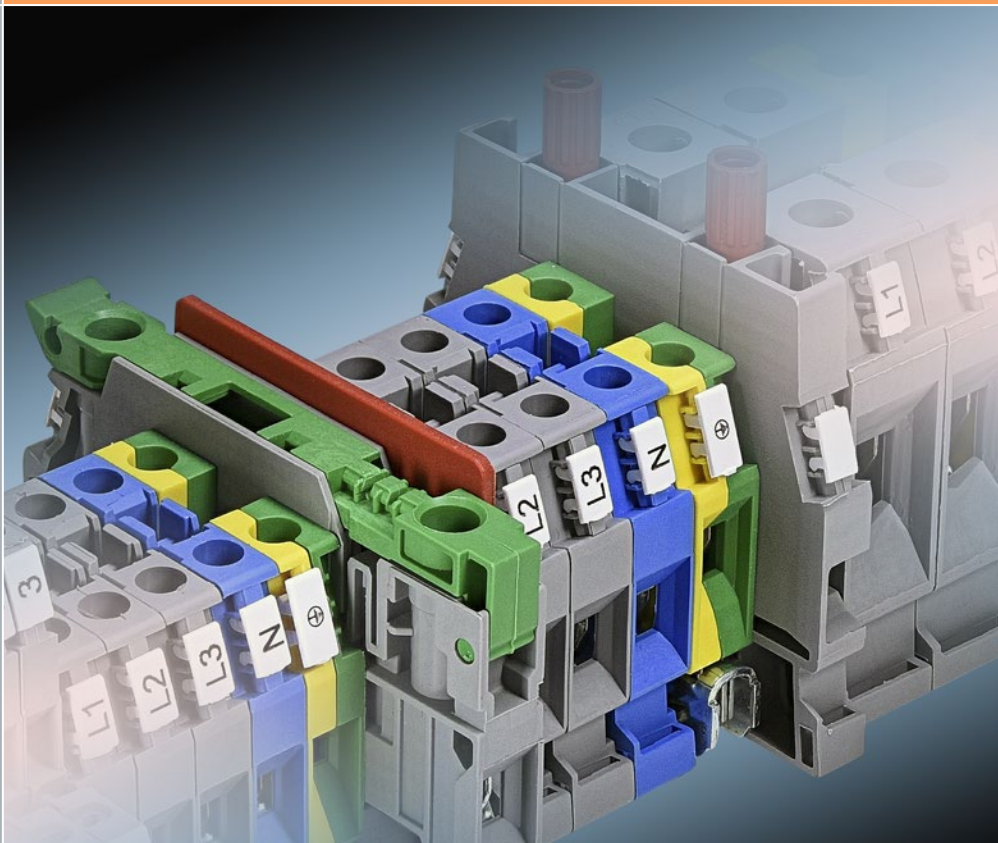


ETICONNECT

Screw Type terminal blocks	904
»PUSH IN« terminal blocks	925
Spring clamp terminal blocks	932
Common Screw And Spring Type Accessories	945

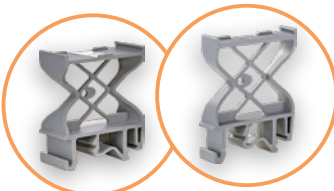
LINE-UP TERMINALS



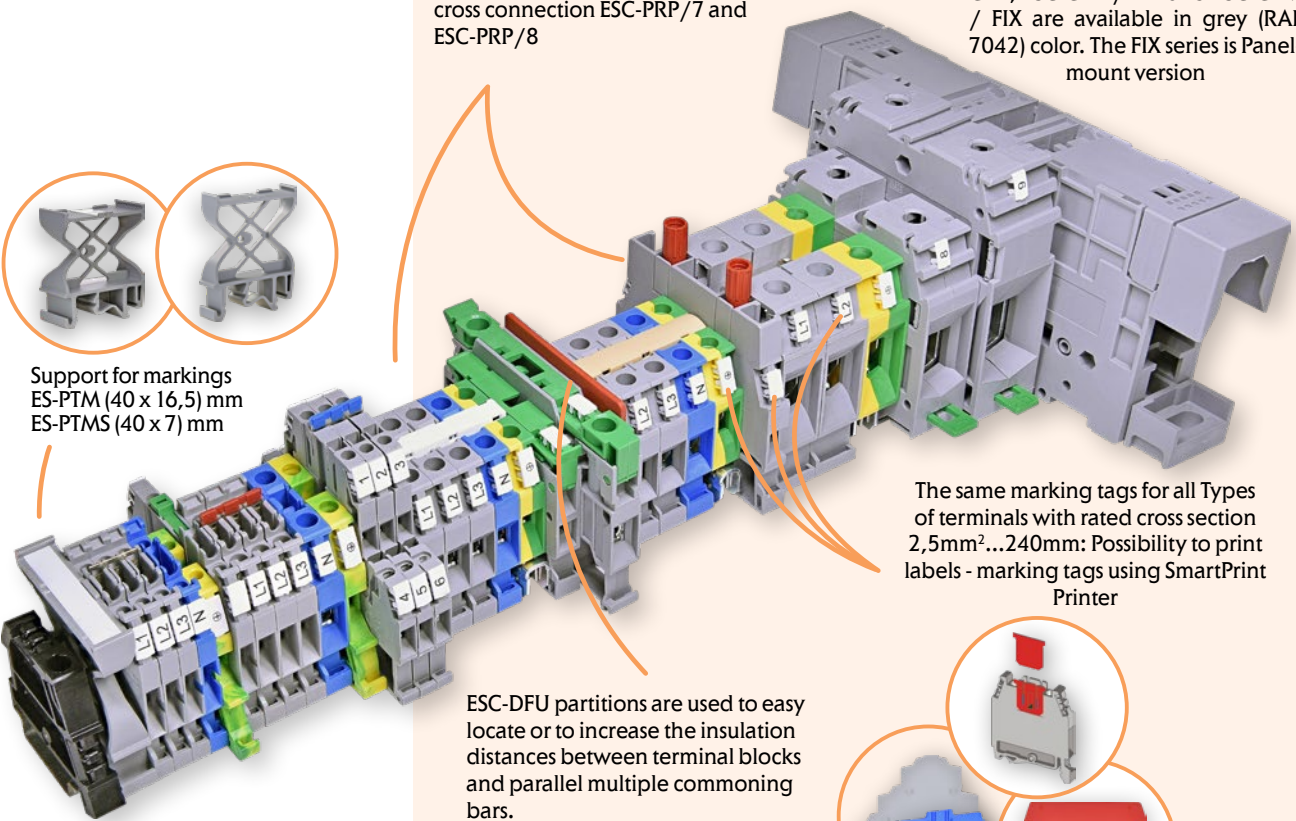
Screw Type terminal blocks

Protection against accidental contact: U shaped covers for cross connection ESC-PRP/7 and ESC-PRP/8

High current terminal blocks ESC-GPA, ESC-GPA / FIX and ESC-GPM / FIX are available in grey (RAL 7042) color. The FIX series is Panel-mount version

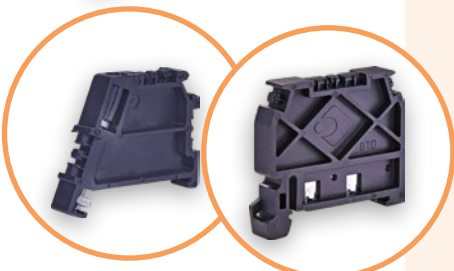
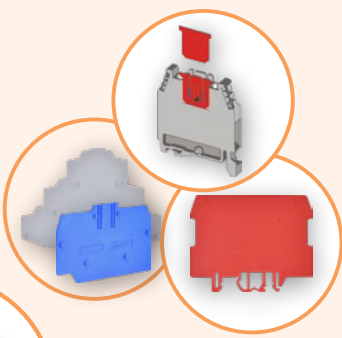


Support for markings
ES-PTM (40 x 16,5) mm
ES-PTMS (40 x 7) mm

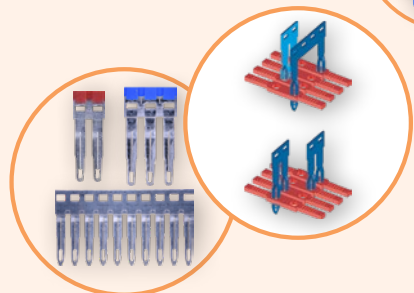


The same marking tags for all Types of terminals with rated cross section 2,5mm²...240mm²: Possibility to print labels - marking tags using SmartPrint Printer

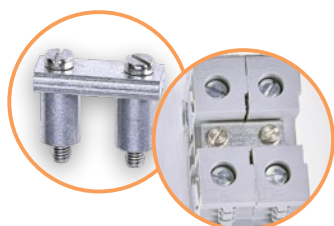
ESC-DFU partitions are used to easy locate or to increase the insulation distances between terminal blocks and parallel multiple commoning bars.



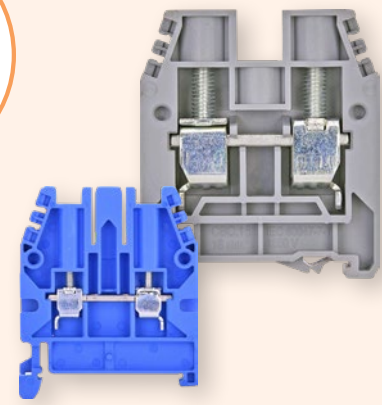
End brackets ES-BTO (spring Type), ES-BT/3 (screw Type) are used to lock terminals on TH35 rails.



"Easy bridge" system: double possibility to insert PTC, PTP multi-pole cross-connections, without the need of insulating protection. Cross connections - bridges 2, 3 and 10 pole versions with insulation red or blue, or without isolation.



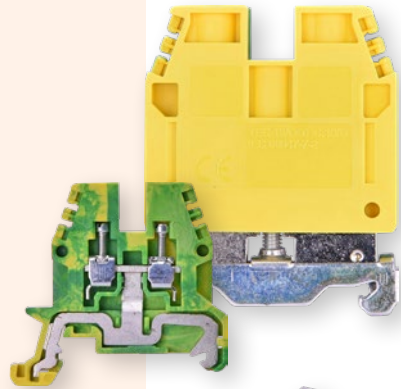
ESC-POF permanent cross connections 2 pole and Commoning bar (16 holes) for 16 mm² and 35 mm²



Screw Type terminal blocks ESC-CBC series for conductors with cross sections from 0,2 to 50 mm² in grey and blue color.

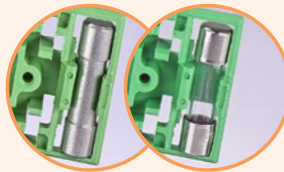
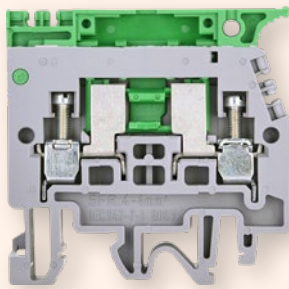
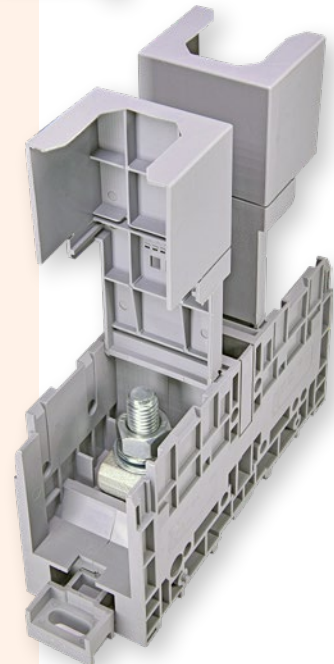
Screw Type terminal blocks

Earth terminal blocks series ESC-TEO and ESC-TEC for conductors with cross sections from 0,2 to 95 mm²



For more reliable fastening and simplified installation of several terminal blocks of the GPA series between them are provided side locks

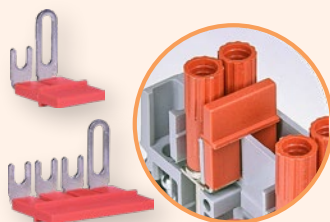
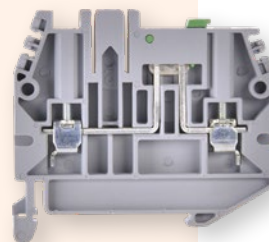
ESC-GPA series screw terminals for connecting conductors with a cross section of 10 to 300 mm² are closed on both sides to prevent accidental touch to current parts. The ESC-GPA / FIX terminals are provided with installation on the mounting panel.



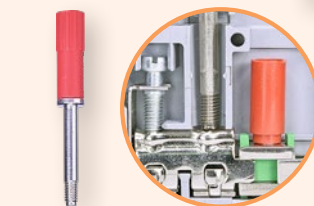
ESC-SFR series terminals for connection conductors with a cross section of 0.2 to 10 mm² are used for protection of circuits control using the installed in holder of a fusible insert. ESC-SFR.4 - for protection 5x20, commuting brass cylinder 5x20 or diode 5x20. ESC-SFR.6 - for 6x32 fuses

High terminal blocks series ESC-GPM / FIX are mounted on the mounting panels. Protective covers prevent accidental touch of the conductor.

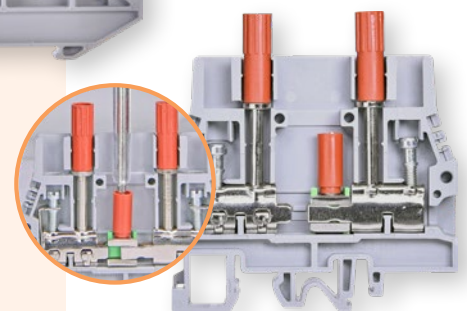
Disconnect terminal block (1-0) - Screw Type is designed to disconnect the electric circuit.



Short circuit plates ESC-SCB.6/PO are used to form special cross-connections with ESC-SCB.6 Disconnect terminal blocks used for test and measurement circuits.



For measurements and checks on circuits which are related to the terminal boards, insulated sockets ESC-PSD screwable onto the conductor body of the terminal blocks can be used.



Disconnect terminals blocks for test and measurement circuits ESC-SCB series for connection conductors with a cross section of 0.2 to 10 mm². It allows you to connect or replace measuring transformers, instruments, counters... without disconnecting the supply voltage.

Screw terminal blocks ESC-CBC



1	Height x Width x Thickness * *The size includes the DIN rail		
2	Rated cross-section		
3	Connecting capacity	solid	
		stranded	
		with ferrule	
Technical characteristics			
4	Max voltage AC/DC		
5	Max current with rated cross-section		
6	Max current with max cross-section		
7	Insulation stripping length / max tightening torque		
8	Rated impulse withstand voltage / pollution degree		
9	Feed through terminal block (grey)		
10	Feed through terminal block (blue)		
Accessories			
11	End section, thickness 1,5 mm (grey)		
12	End section, thickness 1,5 mm (blue)		
13	Red partition		
14	Marking tag		
15	U shaped cover for cross connection protection		
16	End bracket (spring Type)		
17	End bracket (screw Type)		
18	Red insulation partition to be used in case of cross connections - bridges		
19	Cross connections - bridges (non-insulated)	2 poles	
		10 poles	
20	Cross connections - bridges (insulated, red)	2 poles	
		3 poles	
		10 poles	
21	Cross connections - bridges (insulated, blue)	2 poles	
		3 poles	
		10 poles	
22	Cross connections - bridges (non-insulated) * Recommended with (15) U shaped cover for cross connection protection	2 poles	
		multipole	

ESC-CBC.2			ESC-CBC.4		
52 x 44 x 5 mm			52 x 44 x 6 mm		
2,5 mm ²			4 mm ²		
0,2 - 4 mm ²			0,2 - 6 mm ²		
0,2 - 4 mm ²			0,2 - 6 mm ²		
2,5 - WP25/14			4 - WP40/16		
		IEC			UL
4		1000 V	600 V		1000 V
5		24 A	20 A		32 A
6		37 A	-		45 A
7		9 mm / 0,8 Nm		10 mm / 1,2 Nm	
8		12 kV / 3		12 kV / 3	
	Type	Code No.	Packaging [pcs]	Type	Code No.
9	ESC-CBC.2	003903000	120	ESC-CBC.4	003903001
10	ESC-CBC.2B	003903044	120	ESC-CBC.4B	003903045
11	ESC-CBC.2-10/PT	003903010	50	ESC-CBC.2-10/PT	003903010
12	ESC-CBC.2-10/PTB	003903050	50	ESC-CBC.2-10/PTB	003903050
13	ESC-DFU/4/R	003903013	50	ESC-DFU/4/R	003903013
14	ES-N...	page 946		ES-N...	page 946
15	ESC-PRP/7	003903042	10	ESC-PRP/7	003903042
16	ES-BTO	003903075	25	ES-BTO	003903075
17	ES-BT/3	003903229	25	ES-BT/3	003903229
18	ESC-DFM/900	003903016	50	ESC-DFM/900	003903016
19	ESC-PTC/2/02	003903018	25	ESC-PTC/4/02	003903020
		003903019	10	ESC-PTC/4/10	003903021
20	ESC-PTP2/02/R	003903022	25	ESC-PTP4/02/R	003903028
		003903023	25	ESC-PTP4/03/R	003903029
		003903024	25	ESC-PTP4/10/R	003903030
			25	ESC-PTP4/10/R	003903030
21	ESC-PTP2/02/B	003903025	25	ESC-PTP4/02/B	003903031
		003903026	25	ESC-PTP4/03/B	003903032
		003903027	25	ESC-PTP4/10/B	003903033
			25	ESC-PTP4/10/B	003903033
22					

Screw Type terminal blocks

	ESC-CBC.6			ESC-CBC.10			ESC-CBC.16			ESC-CBC.35		
1	52 x 44 x 8 mm			52 x 44 x 10 mm			56 x 47 x 12 mm			63 x 56 x 16 mm		
2	6 mm ²			10 mm ²			16 mm ²			35 mm ²		
3	0,2 - 10 mm ²			1,5 - 16 mm ²			1,5 - 25 mm ²			2,5 - 50 mm ²		
	0,2 - 10 mm ²			1,5 - 16 mm ²			1,5 - 25 mm ²			2,5 - 50 mm ²		
	6 - WP60/20			10 - WP100/21			16 - WP160/22			35 - WP350/30		
	IEC	UL		IEC	UL		IEC	UL	IEC	UL		
4	1000 V	600 V		1000 V	600 V		1000 V	600 V	1000 V	600 V		
5	41 A	50 A		57 A	65 A		76 A	100 A	101 A	125 A		
6	64 A	-		85 A	-		114 A	-	160 A	-		
7	10 mm / 1,4 Nm			12 mm / 1,9 Nm			15 mm / 3 Nm			18 mm / 5 Nm		
8	8 kV / 3			8 kV / 3			12 kV / 3			12 kV / 3		
	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]
9	ESC-CBC.6	003903002	120	ESC-CBC.10	003903003	100	ESC-CBC.16	003903004	50	ESC-CBC.35	003903005	50
10	ESC-CBC.6B	003903046	120	ESC-CBC.10B	003903047	100	ESC-CBC.16 (B)	003903048	25	ESC-CBC.35 (B)	003903049	25
Accessories												
11	ESC-CBC.2-10/PT	003903010	50	ESC-CBC.2-10/PT	003903010	50	ESC-CBC.16/PT	003903011	25	ESC-CBC.35/PT	003903012	25
12	ESC-CBC.2-10/PTB	003903050	50	ESC-CBC.2-10/PTB	003903050	50	ESC-CBC.16/PTB	003903051	25	ESC-CBC.35/PTB	003903052	25
13	ESC-DFU/4/R	003903013	50	ESC-DFU/4/R	003903013	50	ESC-DFU/4/R	003903013	50	ESC-DFU/5/R	003903014	25
14	ES-N...	page 946		ES-N...	page 946		ES-N...	page 946		ES-N...	page 946	
15	ESC-PRP/7	003903042	10	ESC-PRP/7	003903042	10	ESC-PRP/8	003903043	10	ESC-PRP/8	003903043	10
16	ES-BTO	003903075	25	ES-BTO	003903075	25	ES-BTO	003903075	25	ES-BTO	003903075	25
17	ES-BT/3	003903229	25	ES-BT/3	003903229	25	ES-BT/3	003903229	25	ES-BT/3	003903229	25
18	ESC-DFM/900	003903016	50	ESC-DFM/900	003903016	50	ESC-DFM/700	003903017	50	ESC-DFM/700	003903017	50
19	ESC-PTC/6/02	003903034	25	ESC-PTC/10/02	003903036	25						
	ESC-PTC/6/10	003903035	10	ESC-PTC/10/10	003903037	10						
20												
21												
22							ESC-POF/53	003903038	25	ESC-POF/35	003903039	15
							ESC-CPM/16 + ESC-PMP/05	003903230 003903040	25	ESC-CPM/35 + ESC-PMP/35	003903231 003903041	10

Screw terminal blocks ESC-CBD



1	Height x Width x Thickness * *The size includes the DIN rail		
2	Rated cross-section		
3	Connecting capacity	solid	
		stranded	
		with ferrule	
Technical characteristics			
4	Max voltage AC/DC		
5	Max current with rated cross-section		
7	Insulation stripping length / max tightening torque		
8	Rated impulse withstand voltage / pollution degree		
9	Feed through terminal block (grey)		
10	Feed through terminal block (blue)		
Accessories			
11	End section, thickness 1,5 mm (grey)		
12	End section, thickness 1,5 mm (blue)		
13	Marking tag		
14	End bracket (spring Type)		
15	End bracket (screw Type)		
16	Cross connections - bridges (non-insulated) * Recommended with (15) U shaped cover for cross connection protection	2 poles	

ESC-CBD.50			ESC-CBD.70B**		
62 x 57 x 18 mm			71 x 62 x 20,5 mm		
50 mm²			70 mm²		
1 - 70 mm ²			1 - 95 mm ²		
1,5 - 50 mm ²			1,5 - 95 mm ²		
50 - WP500/40			-		
		IEC	UL		
4		1000 V	600 V	1000 V	600 V
5		150 A	130 A	192 A	220 A
7		22 mm / 5 Nm		26 mm / 8 Nm	
8		12 kV / 3		12 kV / 3	
	Type	Code No.	Packaging [pcs]	Type	Code No.
9	ESC-CBD.50	003903241	40	-	-
10	ESC-CBD.50B	003903243	40	ESC-CBD.70B	003903245
11			ESC-CBD.50/PT	003903242	10
12			ESC-CBD.50/PTB	003903244	10
13			ES-N...	page 946	ES-N...
14			ES-BT0	003903075	25
15			ES-BT/3	003903229	25
16			ESC-POF/07	003903326	15

** ESC-CBD.70B available only in blue version



Rail profile	Material	Equivalent E-cu cross-section mm ²	Short-time withstand current 1 s kA	Thermal rated current of a PEN busbar A
"Top hat" rail IEC 60715/TH 15 - 5,5	Steel	10	1,2	-
	Copper	25	3	101
	Aluminium	16	1,92	76
G32-Type rail IEC 60715/G32	Steel	35	4,2	-
	Copper	120	14,4	269
	Aluminium	70	8,4	192
"Top hat" rail IEC 60715/TH 35 - 7,5	Steel	16	1,92	-
	Copper	50	6	150
	Aluminium	35	4,2	125
"Top hat" rail IEC 60715/TH 35 - 15	Steel	50	6	-
	Copper	150	18	309
	Aluminium	95	11,4	232

Taken from CEI EN 60947-7-2 standard

Screw Type terminal blocks

High current terminal blocks ESC-GPA



1	Height x Width x Thickness * *The size includes the DIN rail	
2	Rated cross-section	70 mm²
3	Connecting capacity	solid
		stranded
Technical characteristics		
4	Max voltage AC/DC	1000 V
5	Max current with rated cross-section	192 A
6	Insulation stripping length / max tightening torque	25 mm / 9 Nm (Allen screw, 4mm wrench)
7	Rated impulse withstand voltage / pollution degree	12 kV / 3
8	Feed through terminal block (grey)	
9	Panel - mount feed through terminal block (grey)	
Accessories		
10	Marking tag	
11	End bracket (spring Type)	
12	End bracket (screw Type)	
13	Cross connections - bridges (non-insulated) * Recommended with (15) U shaped cover for cross connection protection	2 poles

ESC-GPA.70	ESC-GPA.70/FIX	
70 x 91 x 20,5 mm	75 x 102 (88)** x 20,5 mm	
70 mm²		
10 - 95 mm ²		
10 - 95 mm ²		
IEC	UL	
1000 V	600 V	
192 A	215 A	
25 mm / 9 Nm (Allen screw, 4mm wrench)		
12 kV / 3		
Type	Code No.	Packaging [pcs]
ESC-GPA.70	003903006	25
ESC-GPA.70/FIX	003903211	25
ES-N...	page 946	
ES-BT0	003903075	25
ES-BT/3	003903229	25
ESC-POF/70	003903325	25

**Fixing distance between centers

Use of terminals with aluminum conductors

Connection of aluminum conductors:

The aluminum conductor without an insulating sheath starts to oxidize, decreasing the contact quality (Aluminum oxide is not a good conductor) and, consequently, reducing its conductivity.

Steps to follow to ensure a good electrical and mechanical connection of aluminum cables with our terminal blocks:

- 1) Clean the stripped conductor with a wire brush to remove the oxide layer;
- 2) Soak the clean conductor in neutral Vaseline and connect it immediately, tightening the clamp to the prescribed torque (do not exceed the suggested tightening torque!). Should you reconnect the same cable this step must be repeated (cleaning and soaking of the conductor in Vaseline);
- 3) Execute the installation in a free-of-moisture environment and in a non-aggressive atmosphere;
- 4) Recheck the tightening after a few days of settling (this precaution is also suggested for copper cables);
- 5) If the cable section is greater than 25 mm², the use of ferrules is recommended.

From a technical standpoint the electrical conductivity of the aluminum is lower than copper one:

Electrical resistivity at 20 ° C

- Copper: 0.0178 μΩ m
- Aluminum: 0.0284 μΩ m

As a result of the different resistivity (and, therefore, of the different electrical conductivity) with the same cable section, with the same ambient temperature and allowed ΔT, under the same conditions the current flow rate in an aluminum cable will be lower than the copper cable one. So, from the point of view of the current flow, the aluminum cable cannot stress the connected clamp more than the copper cable: the heating of the clamp is a consequence of the voltage drop which is proportional to the current flow, and, as discussed above, the current flow in an aluminum cable is lower.



High current terminal blocks ESC-GPA



1	Height x Width x Thickness * *The size includes the DIN rail		
2	Rated cross-section		
3	Connecting capacity	solid	
		stranded	
Technical characteristics			
4	Max voltage AC/DC		
5	Max current with rated cross-section		
6	Insulation stripping length / max tightening torque		
7	Rated impulse withstand voltage / pollution degree		
8	Feed through terminal block (grey)		
9	Panel - mount feed through terminal block (grey)		
Accessories			
10	Marking tag		
11	End bracket (spring Type)		
12	End bracket (screw Type)		

**Fixing distance between centers

ESC-GPA.95	ESC-GPA.95/FIX	
87 x 98 x 26 mm	91 x 111 (97)** x 26 mm	
95 mm²		
10 - 120 mm ²		
10 - 95 mm ²		
IEC	UL	
1000 V	600 V	
232 A	232 A	
30 mm / 9 Nm (Allen screw, 4mm wrench)		
12 kV / 3		
Type	Code No.	Packaging [pcs]
ESC-GPA.95	003903007	10
ESC-GPA.95/FIX	003903212	10
ES-N...	page 946	
ES-BTO	003903075	25
ES-BT/3	003903229	25

High current terminal blocks ESC-GPM



1	Height x Width x Thickness * *The size is given taking into account the installation on the mounting panel	
2	Rated cross-section	
3	Максимальна ширина наконечника, що підключається	
Technical characteristics		
4	Max voltage AC/DC	
5	Max current with rated cross-section	
6	Max current with max cross-section	
7	Rated impulse withstand voltage / pollution degree	
8	Feed through terminal block (grey)	
Accessories		
9	Marking tag	

**Fixing distance between centers

ESC-GPM.95/FIX		
76 x 176 (158)** x 32 mm		
95/150 mm²		
22 mm (screw M8)		
IEC	UL	
1000 V	-	
232 A	-	
320 A	-	
12 kV / 3		
Type	Code No.	Packaging [pcs]
ESC-GPM.95/FIX	003903215	10
ES-N...	page 946	

Screw Type terminal blocks

ESC-GPA.150		ESC-GPA.150/FIX		ESC-GPA.240		ESC-GPA.240/FIX		
●-----●		●-----●		●-----●		●-----●		
1	99 x 108 x 31 mm	94 x 122 (106)** x 31 mm		120x 119 x 37 mm	115 x 134 (118)** x 37 mm			
2	150 mm²		240 mm²					
3	50 - 185 mm ²		50 - 300 mm ²					
	50 - 150 mm ²		95 - 240 mm ²					
	IEC		UL		IEC		UL	
4	1000 V		600 V		1000 V		600 V	
5	309 A		309 A		415 A		415 A	
6	35 mm / 15 Nm (Allen screw, 5 mm wrench)				40 mm / 21 Nm (Allen screw, 6 mm wrench)			
7	12 kV / 3				12 kV / 3			
	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]		
8	ESC-GPA.150	003903008	8	ESC-GPA.240	003903009	4		
9	ESC-GPA.150/FIX	003903213	8	ESC-GPA.240/FIX	003903214	4		
Accessories								
10	ES-N...	page 946		ES-N...	page 946			
11	ES-BT0	003903075	25	ES-BT0	003903075	25		
12	ES-BT/3	003903229	25	ES-BT/3	003903229	25		

**Fixing distance between centers

ESC-GPM.150/FIX			ESC-GPM.240/FIX			
●-----●			●-----●			
1	76 x 200 (158)** x 42 mm		84 x 250 (172)** x 52 mm			
2	150/240 mm²		240/300 mm²			
3	32 mm (screw M10)		40 mm (screw M12)			
	IEC		UL			
4	1000 V		-			
5	309 A		-			
6	440 A		-			
7	12 kV / 3			12 kV / 3		
	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]
8	ESC-GPM.150/FIX	003903216	6	ESC-GPM.240/FIX	003903217	4
Accessories						
9	ES-N...	page 946		ES-N...	page 946	

**Fixing distance between centers

Earth terminal blocks ESC-TEO



			ESC-TE0.2			ESC-TE0.4			ESC-TEC.6/0		
1	Height x Width x Thickness * *The size includes the DIN rail	 TH/35 7,5mm	47 x 50 x 5,5 mm			52 x 50 x 6,5 mm			52 x 44 x 8 mm		
2	Rated cross-section		2,5 mm²			4 mm²			6 mm²		
3	Connecting capacity	solid	0,2 - 4 mm ²			0,2 - 6 mm ²			0,5 - 10 mm ²		
		stranded	0,2 - 4 mm ²			0,2 - 6 mm ²			0,5 - 10 mm ²		
		with ferrule	2,5 - WP25/14			4 - WP40/16			6 - WP60/20		
Technical characteristics			IEC	UL	IEC	UL	IEC	UL	IEC	UL	
4	Max voltage AC/DC		-	-	-	-	-	-	-		
5	Max current with rated cross-section		24 A	-	32 A	-	41 A	-			
6	Insulation stripping length / max tightening torque		12 mm / 0,8 Nm			14 mm / 1,2 Nm			10 mm / 1,4 Nm		
7	Rated impulse withstand voltage / pollution degree		8 kV / 3			8 kV / 3			8 kV / 3		
			Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]
8	Earth terminal block (yellow-green)		ESC-TE0.2	003903066	75	ESC-TE0.4	003903067	50	ESC-TEC.6/0	003903070	45
Accessories											
9	End section (green)		ESC-TE0.2/PT	003903068	50	ESC-TE0.4/PT	003903069	25			
10	Marking tag		ES-N...	page 946		ES-N...	page 946		ES-N...	page 946	
11	End bracket (spring Type)		ES-BT0	003903075	25	ES-BT0	003903075	25	ES-BT0	003903075	25
12	End bracket (screw Type)		ES-BT/3	003903229	25	ES-BT/3	003903229	25	ES-BT/3	003903229	25

Screw Type terminal blocks

	ESC-TEC.10/0			ESC-TEC.16/0			ESC-TEC.35/0			ESC-TEC.70/0		
1	52 x 44 x 10 mm			56 x 47 x 12 mm			63 x 56 x 16 mm			81,5 x 70 x 20,5 mm		
2	10 mm²			16 mm²			35 mm²			70 mm²		
3	1,5 - 16 mm ²			1,5 - 25 mm ²			2,5 - 50 mm ²			10 - 95 mm ²		
	1,5 - 16 mm ²			1,5 - 25 mm ²			2,5 - 50 mm ²			10 - 95 mm ²		
	10 - WP100/21			16 - WP160/22			-			-		
	IEC	UL		IEC	UL		IEC	UL		IEC	UL	
4	-	-		-	-		-	-		-	-	
5	57 A	-		76 A	-		125 A	-		192 A	-	
6	12 mm / 1,9 Nm			15 mm / 1,2 Nm			18 mm / 5 Nm			25 mm / 9 Nm		
7	8 kV / 3			8 kV / 3			12 kV / 3			8 kV / 3		
	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]
8	ESC-TEC.10/0	003903071	35	ESC-TEC.16/0	003903072	30	ESC-TEC.35/0	003903073	15	ESC-TEC.70/0	003903074	25
Accessories												
9												
10	ES-N...	page 946		ES-N...	page 946		ES-N...	page 946		ES-N...	page 946	
11	ES-BT0	003903075	25	ES-BT0	003903075	25	ES-BT0	003903075	25	ES-BT0	003903075	25
12	ES-BT/3	003903229	25	ES-BT/3	003903229	25	ES-BT/3	003903229	25	ES-BT/3	003903229	25

Two-level terminal blocks ESC-DBC



		ESC2-DBC.2			ESC2-DBC.4			
		66 x 70 x 5 mm			66 x 70 x 6 mm			
		2,5 mm²			4 mm²			
		0,2 - 4 mm ²			0,2 - 6 mm ²			
		0,2 - 4 mm ²			0,2 - 6 mm ²			
		2,5 - WP25/14			4 - WP40/16			
		IEC	UL		IEC	UL		
4 Max voltage AC/DC		630 V	600 V		630 V	600 V		
5 Max current with rated cross-section		24 A	20 A		32 A	30 A		
6 Insulation stripping length / max tightening torque		9 mm / 0,8 Nm			9 mm / 1 Nm			
7 Rated impulse withstand voltage / pollution degree		8 kV / 3			8 kV / 3			
		Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]	
8 Two-level feed through terminal block (grey)		ESC2-DBC.2	003903053	120	ESC2-DBC.4	003903054	100	
Accessories								
9 End section (grey)		ESC2-DBC.2/PT	003903055	25	ESC2-DBC.4/PT	003903056	25	
10 Red partition		ESC-DFU/7/R	003903015	25	ESC-DFU/7/R	003903015	25	
11 Marking tag		ES-N...	page 946		ES-N...	page 946		
12 End bracket (spring Type)		ES-BT0	003903075	25	ES-BT0	003903075	25	
13 End bracket (screw Type)		ES-BT/3	003903229	25	ES-BT/3	003903229	25	
14 Red insulation partition to be used in case of cross connections - bridges		upper level	ESC-DFM/900	003903016	50	ESC-DFM/900	003903016	50
		lower level**	ESP-DFM/500	003903144	50	ESP-DFM/500	003903144	50
15 Cross connections - bridges (non-insulated)		2 poles	ESC-PTC/2/02	003903018	25	ESC-PTC/4/02	003903020	25
		10 poles	ESC-PTC/2/10	003903019	10	ESC-PTC/4/10	003903021	10

**Additional data under spring Type terminal blocks' accessories

Screw Type terminal blocks

Three-level terminal blocks



1	Height x Width x Thickness * *The size includes the DIN rail		
2	Rated cross-section	solid	
3	Connecting capacity	stranded	
		with ferrule	
Technical characteristics			
4	Max voltage AC/DC		
5	Max current with rated cross-section		
6	Insulation stripping length / max tightening torque		
7	Rated impulse withstand voltage / pollution degree		
8	Three-level feed through terminal block (grey)		
9	Three-level feed through terminal block (blue)		
10	Two feed through levels + earth (grey)		
Accessories			
11	End section (grey)		
12	Marking tag		
13	End bracket (spring Type)		
14	End bracket (screw Type)		
15	Cross connections - bridges (non-insulated) * Recommended with (15) U shaped cover for cross connection protection	2 poles	
		3 poles	
		10 poles	

ESC-TLD.2			ESC-TDE.2		
52 x 85 x 6,2 mm			52 x 85 x 6,2 mm		
2,5 mm ²			2,5 mm ²		
0,2 - 4 mm ²			0,2 - 4 mm ²		
0,2 - 4 mm ²			0,2 - 4 mm ²		
2,5 - WP25/14			2,5 - WP25/14		
IEC		UL	IEC		UL
250 V		600 V	250 V		600 V
24 A		15 A	24 A		20 A
8 mm / 0,8 Nm			8 mm / 0,8 Nm		
4 kV / 3			4 kV / 3		
Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]
ESC-TLD.2	003903247	125			
ESC-TLD.2B	003903249	125			
			ESC-TDE.2	003903250	25
ESC-TLD/PT	003903248	25	ESC-TLD/PT	003903248	25
ES-N...	page 946		ES-N...	page 946	
ES-BT0	003903075	25	ES-BT0	003903075	25
ES-BT/3	003903229	25	ES-BT/3	003903229	25
ESC-PM/20/2	003903327	25	ESC-PM/20/2	003903327	25
ESC-PM/20/3	003903328	25	ESC-PM/20/3	003903328	25
ESC-PM/20/10	003903329	10	ESC-PM/20/10	003903329	10

Fuse holder terminal blocks
ESC-SFR

Disconnect terminal blocks
ESC-CBS



		ESC-SFR.4	ESC-SFR.6	ESC-CBS.2					
1	Height x Width x Thickness* *The size includes the DIN rail 	52 x 52 x 8 mm	59 x 79 x 10 mm	52 x 57 x 5 mm					
2	Rated cross-section	4 mm ²	6 mm ²	2 mm ²					
3	Connecting capacity	0,2 - 6 mm ²	0,2 - 10 mm ²	0,2 - 4 mm ²					
	solid	0,2 - 6 mm ²	0,2 - 10 mm ²	0,2 - 4 mm ²					
	stranded	0,2 - 6 mm ²	0,2 - 10 mm ²	0,2 - 4 mm ²					
	with ferrule	4 - WP40/16	6 - WP60/20	2 - WP25/14					
Technical characteristics		IEC	UL	IEC	UL				
4	Max voltage AC/DC	800 V	600 V	630 V	600 V				
5	Max current with rated cross-section	6,3 A (20 A with CO/05)	6,3 A	20 A	20 A				
6	Insulation stripping length / max tightening torque	11 mm / 1,2 Nm		9 mm / 0,6 Nm					
7	Rated impulse withstand voltage / pollution degree	6 kV / 3		6 kV / 3					
8	Function / Type	fuse holder for ø 5 x 20 mm fuse		fuse holder for ø 6,3 x 32 mm fuses					
		Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]		
9	Disconnect terminal block (grey) 	ESC-SFR.4	003903057	70	ESC-SFR.6	003903061	50		
Accessories									
10	End section (grey) 	ESC-SFR.4/PT	003903060	25	ESC-SFR.6/PT	003903062	25		
11	Red partition 				ESC-DFU/7/R	003903015	25		
12	Marking tag 	ES-N...	page 946		ES-N...	page 946			
13	End bracket (spring Type) 	ES-BTO	003903075	25	ES-BTO	003903075	25		
14	End bracket (screw Type) 	ES-BT/3	003903229	25	ES-BT/3	003903229	25		
15	Conducting element	brass cylinder 5x20	ESC-CO/05	003903059	50				
	diode 255/3A 5x20	ESC-SFR/3A	003903058	70					
16	LED indicator	12-48 V AC/DC	ESC-LED.12-48	003903332	10				
	115-230 V AC/DC	ESC-LED.115-230	003903333	10					
17	Red insulation partition to be used in case of cross connections - bridges 						ESC-DFM/900	003903016	50
18	Cross connections - bridges (non-insulated)	2 poles					ESC-PTC/2/02	003903018	25
	10 poles						ESC-PTC/2/10	003903019	10
19	Cross connections - bridges (insulated, red)	2 poles					ESC-PTP2/02/R	003903022	25
	3 poles						ESC-PTP2/03/R	003903023	25
	10 poles						ESC-PTP2/10/R	003903024	10
20	Cross connections - bridges (insulated, blue)	2 poles					ESC-PTP2/02/B	003903025	25
	3 poles						ESC-PTP2/03/B	003903026	25
	10 poles						ESC-PTP2/10/B	003903027	10

Screw Type terminal blocks

Features

ESC-SFR Series - Fuse-holders

- with UL94V-0 polyamide insulating body
- available in grey RAL 7042 colour
- universal mounting onto rails - according to IEC 60715 Std., "G32" and "TH/35" Types
- ESC-SFR.4: for $\varnothing 5 \times 20$ mm fuses, with possibility to detect the fuse blow-out status, by means of a LED micro-circuit (CIL...)
- ESC-SFR.6: for $\varnothing 6.3 \times 32$ mm fuses, with solder lug

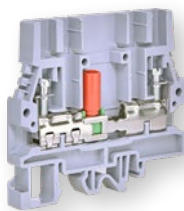
Max. dissipated power – In conf. with IEC 60947-7-3				
Terminal block	Voltage [V] (*)	Current [A]	Protection against overload and short circuit	Only protection against short circuit
			(PV) - [W]	(PV) - [W]
ESC-SFR.4	250	6,3	2,5	2,5
ESC-SFR.6	250	10	2,5	4

Disconnect terminal blocks for test and measurement circuits ESC-SCB

Disconnect terminal blocks for test and measurement circuits ESC-SCB series

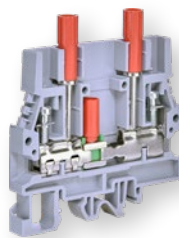
- disconnects by means of conducting element to be inserted in the lever
- slide link disconnect
- possibility to perform parallel connections
- universal mounting for both PR/DIN and PR/3 rails which meet IEC 60715 norms, "G32" and TH/35 Types
- available in grey
- maximum operating temperature 100 °C

ESC-SCB.6



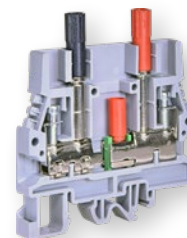
(*) For the simple connection in parallel of two or more adjoining terminal blocks use the parallel skid, with the screws and sleeves, after removing the insulating wall with a simple cutter

ESC-SCB.6/DD



Longitudinal and transversal test switching terminal block. Configuration complete with test plug socket downstream and upstream the slide link, compliant with the ENEL LV 27/3 specifications

ESC-SCB.6/CD



Longitudinal and transversal test switching terminal block. Configuration complete with a test plug socket upstream and a short circuit sleeve ESC-SCB.6/PO-2 or ESC-SCB.6/PO-4 Type, supplied separately, downstream of the slide link, compliant with the ENEL LV 27/2 specifications

Disconnect terminal blocks for test and measurement circuits ESC-SCB



		ESC-SCB.4	ESC-SCB.6	ESC-SCB.6DD	ESC-SCB.6CD		
1	Height x Width x Thickness * *The size includes the DIN rail	44 x 58 x 6,5 mm	65 x 69 x 8 mm	76 x 69 x 8 mm / 77 x 69 x 8 mm			
2	Rated cross-section	4 mm ²	6 mm ²	6 mm ²			
3	Connecting capacity	0,2 - 6 mm ²	0,5 - 10 mm ²	0,5 - 10 mm ²			
	solid		0,2 - 6 mm ²	0,5 - 10 mm ²			
	stranded		0,2 - 6 mm ²	0,5 - 10 mm ²			
	with ferrule		4 - WP40/16	6 - WP60/20			
Technical characteristics		IEC	UL	IEC	UL		
4	Max voltage AC/DC	800 V	600 V	800 V	-		
5	Max current with rated cross-section	32 A	20 A	41 A	47 A		
6	Insulation stripping length / max tightening torque	9 mm / 1,2 Nm		12 mm / 1,4 Nm			
7	Rated impulse withstand voltage / pollution degree	8 kV / 3		8 kV / 3			
		Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]
8	disconnect by slide link (grey)	ESC-SCB.4	003903218	75	ESC-SCB.6	003903220	100
9	disconnect by slide link in special configuration for voltmeteric circuits (grey)						
10	disconnect by slide link in special configuration for amperometric circuits (grey)						
Accessories							
11	End section (grey)	ESC-SCB.4/PT	003903219	25	ESC-SCB.6/PT	003903223	25
12	Red partition				ESC-DFU/6/R	003903224	25
13	PSD socket - test connector	ESP-PSD/A	003903226	50	ESC-PSD/P	003903225	50
14	Short circuit plate				ESC-SCB.6/PO/2	003903227	40
	2 poles				ESC-SCB.6/PO/4	003903228	20
	4 poles						
15	Marking tag	ES-N...	page 946		ES-N...	page 946	
16	End bracket (spring Type)	ES-BTO	003903075	25	ES-BTO	003903075	25
17	End bracket (screw Type)	ES-BT/3	003903229	25	ES-BT/3	003903229	25

Accessories for screw terminal blocks

ESC-PT end sections

For each Type and cross section of terminal block, there is a specific insulating and closing end section to be placed on the open element of each terminal board. This end section may also be used to separate different phases of adjoining terminal blocks linked by cross connections or to increase insulation distances where specific circumstances may require it. The end sections have the same overall dimension as the related terminal block, thicknesses are given in the table below.

End sections, grey color

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESC-CBC.2-10/PT	003903010	ESC-CBC.2...ESC-CBC.10	3	50
ESC-CBC.16/PT	003903011	ESC-CBC.16	3,8	25
ESC-CBC.35/PT	003903012	ESC-CBC.35	5,5	25
ESC-CBD.50/PT	003903242	ESC-CBD.50	6,23	10

Bigger cross sections (ESC-GPA.70...240mm²) are compact, end sections not needed

End sections, blue color

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESC-CBC.2-10/PTB	003903050	ESC-CBC.2B...ESC-CBC.10B	3,1	50
ESC-CBC.16/PTB	003903051	ESC-CBC.16B	3,8	25
ESC-CBC.35/PTB	003903052	ESC-CBC.35B	5,2	25
ESC-CBD.50/PTB	003903244	ESC-CBD.50B	6,23	10
ESC-CBD.70/PTB	003903246	ESC-CBD.70B	6,8	10

End section for two and three level terminal blocks

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESC2-DBC.2/PT	003903055	ESC2-DBC.2	5,2	25
ESC2-DBC.4/PT	003903056	ESC2-DBC.4	5,2	25
ESC-TLD/PT	003903248	ESC-TLD, ESC-TDE	6	25

End sections for earth terminal blocks

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESC-TE0.2/PT	003903068	ESC-TE0.2	2,3	50
ESC-TE0.4/PT	003903069	ESC-TE0.4	3,2	25

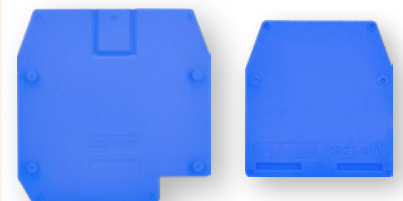
*Bigger cross sections (6...70mm²) are compact, end sections not needed

End sections for fuse holder terminal block, disconnect terminal block

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESC-SFR.4/PT	003903060	ESC-SFR.4	3,5	25
ESC-SFR.6/PT	003903062	ESC-SFR.6	5,7	25
ESC-CB/PT	003903237	ESC-CB	3,48	25

End sections for disconnect terminal blocks for test and measurement circuits

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESC-SCB.4/PT	003903219	ESC-SCB.4	3,44	25
SCB/6/PT/GR	003903223	ESC-SCB.6, SCB.6/DD/GR, ESC-SCB.6/CD	8,1	25

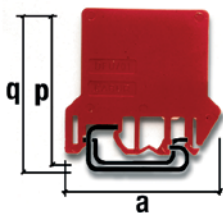
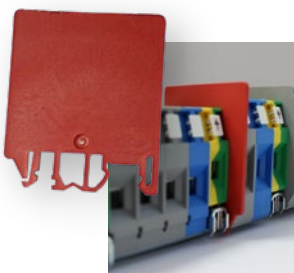


Terminal block	End section	
	Type	Thickness [mm]
ESC-CBC.2	ESC-CBC.2-10/PT	1,5
ESC-CBC.4	ESC-CBC.2-10/PT	1,5
ESC-CBC.6	ESC-CBC.2-10/PT	1,5
ESC-CBC.10	ESC-CBC.2-10/PT	1,5
ESC-CBC.16	ESC-CBC.16/PT	1,5
ESC-CBC.35	ESC-CBC.35/PT	1,5
ESC-CBD.50	ESC-CBD.50/PT	1
ESC-CBC.2B	ESC-CBC.2-10/PTB	1,5
ESC-CBC.4B	ESC-CBC.2-10/PTB	1,5
ESC-CBC.6B	ESC-CBC.2-10/PTB	1,5
ESC-CBC.10B	ESC-CBC.2-10/PTB	1,5
ESC-CBC.16B	ESC-CBC.16/PTB	1,5
ESC-CBC.35B	ESC-CBC.35/PTB	1,5
ESC-CBD.50B	ESC-CBD.50/PTB	1
ESC-CBD.70B	ESC-CBD.70/PTB	1
ESC2-DBC.2	ESC2-DBC.2/PT	1,5
ESC2-DBC.4	ESC2-DBC.4/PT	1,5
ESC-TLD, ESC-TDE	ESC-TLD/PT	1
ESC-TEO.2	ESC-TEO.2/PT	1,5
ESC-TEO.4	ESC-TEO.4/PT	1,5
ESC-SFR.4	ESC-SFR.4/PT	1,5
ESC-SFR.6	ESC-SFR.6/PT	1,5
ESC-CBS.2	ESC-MPS.4/PT	1,5

ESC-DFU partitions

In polyamide available in red, colour, 1.5 mm thick, for the separation of elements on the terminal board, in order to make certain circuits easy to locate or to increase the insulation distances between terminal blocks.

The partitions can also be used to increase the insulation distances between adjacent parallel multiple commoning bars. White and green partitions available while stocks last.



NOTE:
q dimension can be obtained by adding 4 mm to dimension p

Red partitions				
Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESC-DFU/4/R	003903013	ESC-CBC.2...ESC-CBC.16	4,9	50
ESC-DFU/5/R	003903014	ESC-CBC.35B	6,2	25
ESC-DFU/6/R	003903224	ESC-SCB.6 / DD / CD	9,04	25
ESC-DFU/7/R	003903015	ESC2-DBC.2 & ESC2-DBC4	7,4	25

Terminal block	Partition	Dimensions a x p
ESC-CBC.2	ESC-DFU/4	52 x 62
ESC-CBC.4	ESC-DFU/4	52 x 62
ESC-CBC.6	ESC-DFU/4	52 x 62
ESC-CBC.10	ESC-DFU/4	52 x 62
ESC-CBC.16	ESC-DFU/4	52 x 62
ESC-CBC.35	ESC-DFU/5	62 x 68
ESC2-DBC.2	ESC-DFU/7	80 x 64
ESC2-DBC.4	ESC-DFU/7	80 x 64
ESC-SCB.6 / DD / CD	ESC-DFU/6/R	72 x 74

Screw Type terminal blocks

ESC-PRP protections

The cross connection, consisting of a multiple commoning bar and screws and sleeves, already placed in a recessed position with respect to the terminal board, can be further protected from accidental contact using a nylon U-shaped cover having a standard length of 10 cm. This white-coloured cover, can also be written upon, to serve as a label or reference point on the terminal board.

On the cover suitable slits are arranged to facilitate its removal by using a screwdriver.

for terminal blocks with a cross section of 4-16 mm ²	ESC-PRP/7
for terminal blocks with a cross section of 25-70 mm ²	ESC-PRP/8

U shaped cover for cross connection protection

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESC-PRP/7	003903042	ESC-POF & ESC-PMP, length 10 cm (for use with ESC-CBC.4...16)	2	10
ESC-PRP/8	003903043	ESC-POF & ESC-PMP, length 10 cm (for use with ESC-CBC.35...ESC-GPA.70)	2,2	10

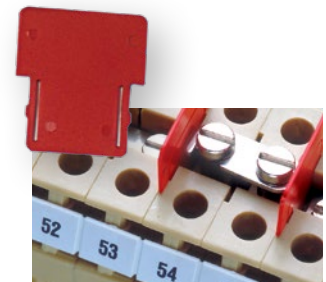


ESC-DFM partition insulation of cross connections - bridges

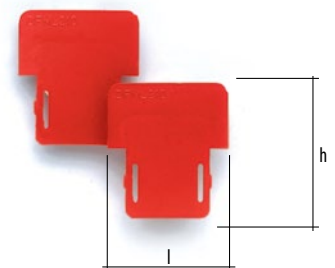
Red coloured in polyamide when it is necessary to guarantee the insulation distance between permanent or switchable cross connections, inserted between adjacent pairs of terminal blocks and, similarly, between multiple commoning bars, inserted between adjacent groups of terminal blocks.

Red insulation partition to be used in case of cross connections - bridges

Type	Code No.	Dimension (for use with)	Weight [g]	Packaging [pcs]
ESC-DFM/900	003903016	17 x 18mm (ESC-CBC.2...ESC-CBC.10, ESC2-DBC.2M ESC2-DBC.4)	1	50
ESC-DFM/700	003903017	28 x 32mm (ESC-CBC.16, ESC-CBC.35)	0,9	50

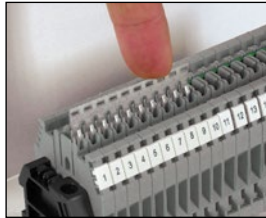


Terminal block	Partition	Dimensions l x h [mm]	Thickness [mm]
ESC-CBC.2	ESC-DFM/900	17 x 18	0,5
ESC-CBC.4	ESC-DFM/900	17 x 18	0,5
ESC-CBC.6	ESC-DFM/900	17 x 18	0,5
ESC-CBC.10	ESC-DFM/900	17 x 18	0,5
ESC-CBC.16	ESC-DFM/700	28 x 32	0,5
ESC-CBC.35	ESC-DFM/700	28 x 32	0,5
ESC2-DBC.2	ESC-DFM/900	17 x 18	0,5
ESC2-DBC.4	ESC-DFM/900	17 x 18	0,5

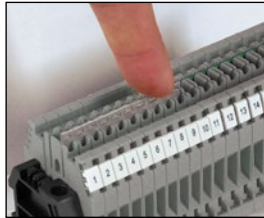


Cross connections
Easy Bridge System

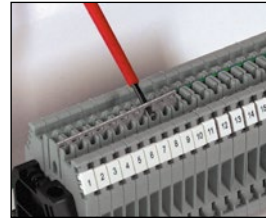
- screwless, snap-in insertion
- transversal and staggered mode connection possibility
- once inserted, intrinsically IPXXB protected resulting installation, without the need for further insulating covers
- patented system



1



2



3

- 1-2 After having cut the bar according to the number of poles, insert the cross-connection, in the appropriate groove of the terminal block. At this point, by using the blade of a screwdriver, push down the cross-connection until it reaches its blocking point. The cross connection will be fully insulated and intrinsically IPXXB protected.
- 3 To remove the cross-connection, insert the blade of the screwdriver in the jumper slot, then lift it up and finally extract it.

Terminal block	2-pole jumper	10-pole jumper
ESC-CBC.2	ESC-PTC/2/02	ESC-PTC/2/10
ESC-CBC.4	ESC-PTC/4/02	ESC-PTC/4/10
ESC-CBC.6	ESC-PTC/6/02	ESC-PTC/6/10
ESC-CBC.10	ESC-PTC/10/02	ESC-PTC/10/10
ESC2-DBC.2(*)	ESC-PTC/2/02	ESC-PTC/2/10

Insulated cross connection		
Nr. Poles	PTP Series - Blue	PTP Series - Red
2	ESC-PTP/2/02/B	ESC-PTP/2/02/R
3	ESC-PTP/2/03/B	ESC-PTP/2/03/R
10	ESC-PTP/2/10/B	ESC-PTP/2/10/R
2	ESC-PTP/4/02/B	ESC-PTP/4/02/R
3	ESC-PTP/4/03/B	ESC-PTP/4/03/R
10	ESC-PTP/4/10/B	ESC-PTP/4/10/R

ESC-POF permanent cross connections

Allowing the cross connection of two adjacent terminal blocks. Mounted in a suitable position in order to prevent injuries

Each ESC-POF jumper is composed by:

- 2 screws
- 2 sleeves
- 1 plate with 2 holes

All the components are in brass, with nickel plating.

Terminal block	Jumper Type	Screw	Sleeve	Plate
		M x l [mm]	Ø x l [mm]	l x s [mm]
ESC-CBC.16	ESC-POF/53	M4 x 21	8 x 15	7 x 1,5
ESC-CBC.35	ESC-POF/35	M4 x 21	8 x 15	8 x 2
ESC-GPA.70, ESC-GPA.70/ FIX	ESC-POF/70	M5 x 35	8 x 23,5	10 x 3
ESC-CBD.50, ESC-CBD.50B	ESC-POF/07	M5 x 20	8 x 12	10 x 2,5
ESC-TLD.2, ESC-TDE.2	ESC-PM/20/2	pre-assembled		
	ESC-PM/30/3			
	ESC-PM/30/10			

Terminal block	Screw/sleeve	Commoning bar	Commoning bar (Length, l x s)	Number of poles
ESC-CBC.16 / B	ESC-CPM/16	ESC-PMP/05	25 cm , 7 x 1,5	21
ESC-CBC.35 / B	ESC-CPM/35	ESC-PMP/35	25 cm , 10 x 4	16

Screw Type terminal blocks

Cross connections - bridges

Type	Code No.	CROSS CONNECTIONS: nr. of poles, for use with, color	Weight [g]	Packaging [pcs]	Min order [pcs]
ESC-PTC/2/02	003903018	2 POLE for (ESC-CBC.2, ESC2-DBC.2)	1	25	1
ESC-PTC/2/10	003903019	10 POLE for (ESC-CBC.2, ESC2-DBC.2)	5	10	
ESC-PTC/4/02	003903020	2 POLE for (ESC-CBC.4, ESC2-DBC.4)	1	25	
ESC-PTC/4/10	003903021	10 POLE for (ESC-CBC.4, ESC2-DBC.4)	6	10	
ESC-PTP2/02/R	003903022	2 POLE for (ESC-CBC.2) - RED, insulated	0,9	25	
ESC-PTP2/03/R	003903023	3 POLE for (ESC-CBC.2) - RED, insulated	1,4	25	
ESC-PTP2/10/R	003903024	10 POLE for (ESC-CBC.2) - RED, insulated	4,6	10	
ESC-PTP2/02/B	003903025	2 POLE for (ESC-CBC.2) - BLUE, insulated	0,9	25	
ESC-PTP2/03/B	003903026	3 POLE for (ESC-CBC.2) - BLUE, insulated	1,4	25	
ESC-PTP2/10/B	003903027	10 POLE for (ESC-CBC.2) - BLUE, insulated	4,6	10	
ESC-PTP4/02/R	003903028	2 POLE for (ESC-CBC.4) - RED, insulated	1	25	
ESC-PTP4/03/R	003903029	3 POLE for (ESC-CBC.4) - RED, insulated	1,3	25	
ESC-PTP4/10/R	003903030	10 POLE for (ESC-CBC.4) - RED, insulated	5,4	10	
ESC-PTP4/02/B	003903031	2 POLE for (ESC-CBC.4) - BLUE, insulated	1	25	
ESC-PTP4/03/B	003903032	3 POLE for (ESC-CBC.4) - BLUE, insulated	1,3	25	
ESC-PTP4/10/B	003903033	10 POLE for (ESC-CBC.4) - BLUE, insulated	5,4	10	
ESC-PTC/6/02	003903034	2 POLE for (ESC-CBC.6)	2	25	
ESC-PTC/6/10	003903035	10 POLE for (ESC-CBC.6)	12	10	
ESC-PTC/10/02	003903036	2 POLE for (ESC-CBC.10)	3	25	
ESC-PTC/10/10	003903037	10 POLE for (ESC-CBC.10)	18	10	
ESC-POF/53	003903038	cross connection of several terminal blocks for (ESC-CBC.16, length 2 holes)	13	25	25
ESC-POF/35	003903039	cross connection of several terminal blocks for (ESC-CBC.35, length 2 holes)	13	15	15
ESC-CPM/16	003903230	Screw/sleeve, for ESC-CBC.16 / B	5	25	25
ESC-PMP/05	003903040	Commoning bar (21 holes, length 25 cm) for ESC-CBC.16 / B	15	8	8
ESC-CPM/35	003903231	Screw/sleeve for ESC-CBC.35 / B		20	20
ESC-PMP/35	003903041	Commoning bar (16 holes, length 25 cm) for ESC-CBC.35 / B	10	8	8
ESC-POF/70	003903325	2 POLE for (ESC-GPA.70, ESC-GPA.70/FIX)	23	25	25
ESC-POF/07	003903326	2 POLE for (ESC-CBD.50, ESC-CBD.50B)	19	15	15
ESC-PM/20/2	003903327	2 POLE for (ESC-TLD.2, ESC-TDE.2)	2	25	25
ESC-PM/30/3	003903328	3 POLE for (ESC-TLD.2, ESC-TDE.2)	3	25	25
ESC-PM/30/10	003903329	10 POLE for (ESC-TLD.2, ESC-TDE.2)	9	10	10

* Connecting bridges can be cut to the desired length

** In connection with connecting bridges we recommend the use of DFM insulation partitions



PTC jumper configurations

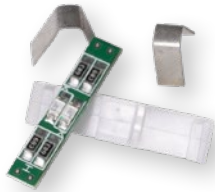
PTC / PTP cross-connection schemes						I_{max} (A)
	SINGLE OR PARALLEL EXTENDING	POLE SKIPPING	ADJACENT WITH BARRIER	STAGGERED MODE	PARALLEL SKIPPING	
Terminal block	Isolation voltage [V]					
ESC-CBC.2	630 (400)	630 (400)	1000 (400)	500 (320)	500 (320)	24
ESC-CBC.4	630 (320)	500 (320)	800 (320)	500 (320)	500 (320)	32
ESC-CBC.6	630 (320)	630 (320)	800 (320)	630 (250)	630 (250)	41
ESC-CBC.10	800 (250)	630 (320)	800 (250)	800 (250)	630 (250)	57
ESC2-DBC.2	630	500	250* 630**	500	500	24
When connecting groups of terminals of different potential, it is necessary to install jumper separators (ESC-DFM partition insulation of cross connections) to prevent electrical breakthrough and ensure the dielectric distance between plug-in jumpers. When installing the jumpers according to the scheme, the installation of the jumper separator is mandatory!						

* between lower adjacent cross connections (with barrier)

** between upper adjacent cross connections (with barrier)



ESC-C0/5



Type	Rated voltage [V d.c. - V a.c.]	Current L.R.M.S.
ESC-LED.12-48	12 - 48	3,0 mA
ESC-LED.115-230	115 - 230	2,3 mA

Accessories for fuse holder terminal block, rated cross section 4mm²

Type	Code No.	Description	Weight [g]	Packaging [pcs]
ESC-SFR/3A	003903058	3A DIODE-HOLDER CARTRIDGE	2	70
ESC-C0/5	003903059	Brass conducting cylinder (act like disconnecter)	3	50
ESC-LED.12-48	003903332	Signalling circuit	1,22	10
ESC-LED.115-230	003903333	Signalling circuit	1,22	10

Signalling circuit

- For signalling the status of fuse holder ESC-SFR.4
- Suitable for both a.c. and d.c. circuits

Each packet is supplied with:

- two contact blades
- one non-polarized LED microcircuit
- one transparent protection

The components should be inserted inside the terminal block in the above sequence.

PSD sockets - Test conector

For measurements and checks on circuits which are related to the terminal boards, the following special items can be supplied:

- insulated sockets (PSD) screwable onto the conductor body of the terminal blocks



PSD sockets - Test conector, red color

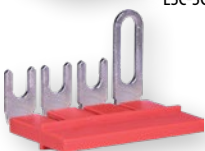
Type	Code No.	Description Internal socket Ø (mm)	For use with	Weight [g]	Packaging [pcs]
ESC-PSD/P	003903225	4,05	ESC-SCB.6, ESC-SCB.6/	4	50
ESC-PSD/A	003903226	2,35	ESC-SCB.4	2	50

Short circuit plates

These allow simultaneous connection to earth of the current reducers, already connected to the ESC-SCB.4, ESC-SCB.6. They consist of special platelets and sleeves that guarantee the correct sequence of the operation. The platelets, in the open position, block the movements of the cursors, preventing disconnection of the current circuits.



ESC-SCB.6/PO-2



ESC-SCB.6/PO-4

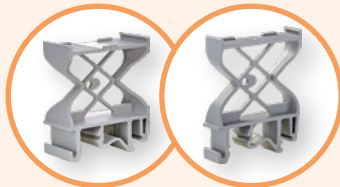
Short circuit plates

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESC-SCB.6/PO-2	003903227	Short circuit plate for two adjacent ESC-SCB.6 terminal blocks	3,15	40
ESC-SCB.6/PO-4	003903228	Short circuit plate for four adjacent ESC-SCB.6 terminal blocks	6	20

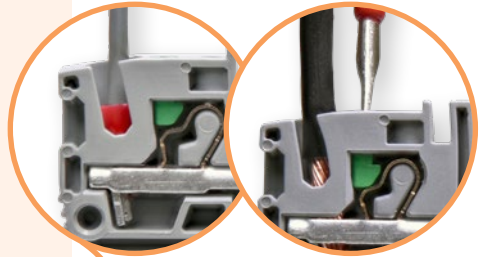
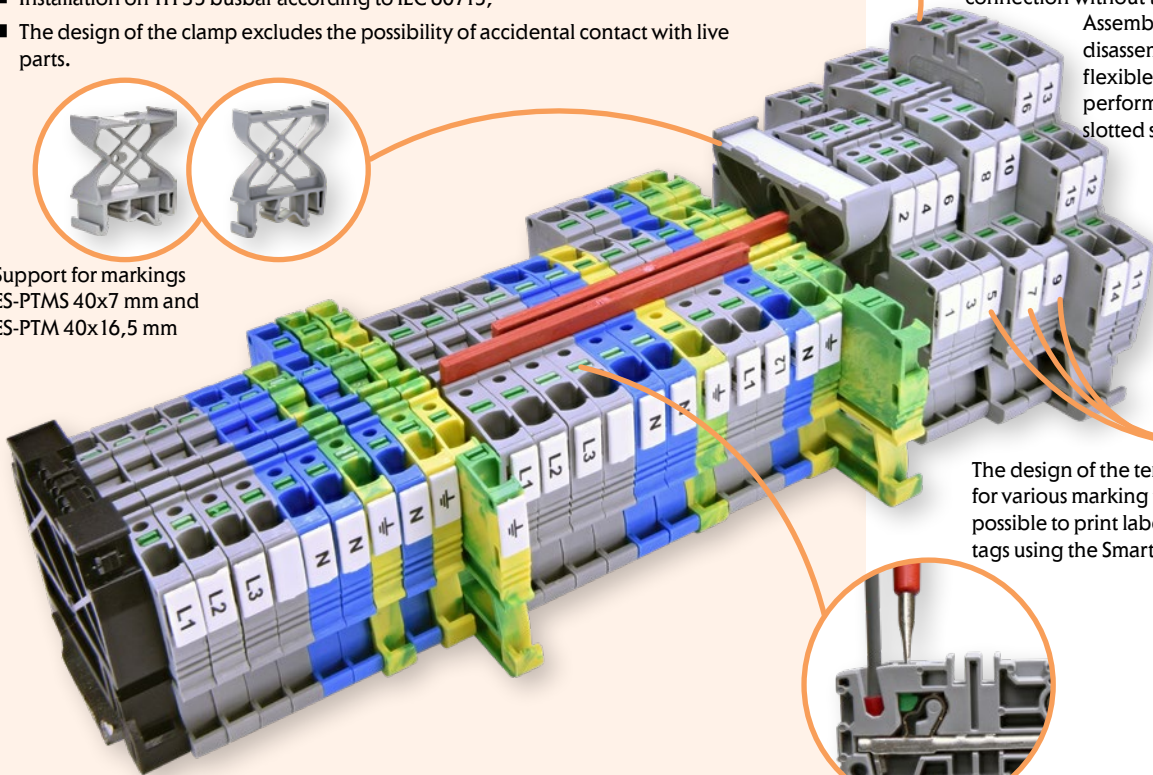
»PUSH IN« terminal blocks

Advantages

- Up to 75% reduction in installation time compared to screw terminals;
- Increased vibration and shock resistance;
- Terminal housing is made of non-combustible polyamide V-0 (according to UL94);
- Connection of up to four conductors of cross-section from 0,5 to 4 mm²;
- Rated voltage up to 800 V;
- Operating temperature range from -40 to +110°C;
- The "bridge" connection of the terminals is possible thanks to the "EasyBridge" system;
- Installation on TH 35 busbar according to IEC 60715;
- The design of the clamp excludes the possibility of accidental contact with live parts.



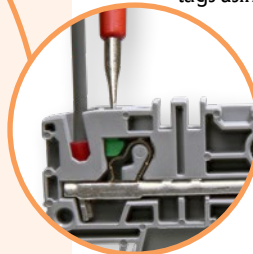
Support for markings
ES-PTMS 40x7 mm and
ES-PTM 40x16,5 mm



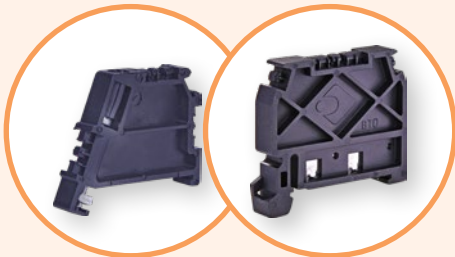
Quick connection of monolithic or flexible lug conductor with direct connection without tools

Assembly and disassembly of the flexible conductor is performed with a thin slotted screwdriver

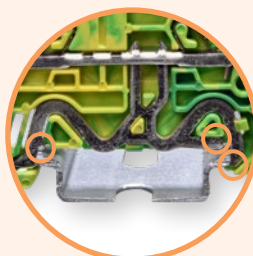
The design of the terminals allows for various marking tags. It is possible to print labels - marking tags using the SmartPrint printer



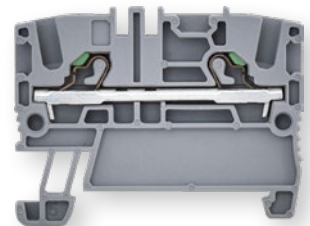
If necessary, the conductor can be easily removed from the terminal by pressing the green button with a screwdriver. This button is isolated from live parts, which is a guarantee of personnel electrical safety



End brackets are used to lock terminals on TH 35 rails



Special triple grounding contact design with DIN-rail ensures reliable mechanical and electrical connection



ESH spring clamps have an increased vibration and shock resistance. Designed for use in rail, road, marine, mining, chemical, agricultural, oil, gas, nuclear, industrial and construction industries

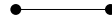
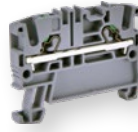


Plug-in insulated 10-pole jumpers in red or blue. Insulated jumpers provide protection against accidental contact

»PUSH IN« terminal blocks
ESH-EFC

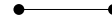
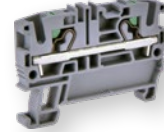


ESH-EFC.2



39,2 x 49,6 x 5,2 mm

ESH-EFC.4



39,2 x 55,2 x 6,2 mm

1	Height x Width x Thickness * <small>*The size includes the DIN rail</small>								
2	Rated cross-section			2,5 mm²		4 mm²			
3	Connecting capacity	solid		0,2 - 4 mm ²		0,2 - 6 mm ²			
		stranded		0,2 - 4 mm ²		0,2 - 6 mm ²			
		with ferrule		2,5 - WP25/19		4 - WP40/16			
Technical characteristics				IEC	UL	IEC	UL		
4	Max voltage AC/DC			800 V	600 V	800 V	600 V		
5	Max current with rated cross-section			24 A	20 A	32 A	30 A		
6	Insulation stripping length			9 mm		10 mm			
7	Rated impulse withstand voltage / pollution degree			6 kV / 3		6 kV / 3			
				Type	Code No.	Packaging [pcs]	Type	Code No.	
8	PUSH-IN spring clamp terminal block (grey)			ESH-EFC.2	003903251	160	ESH-EFC.4	003903255	120
9	PUSH-IN spring clamp terminal block (blue)			ESH-EFC.2B	003903252	160	ESH-EFC.4B	003903256	120
Accessories									
10	End section (grey)			ESH-EFC.2/PT	003903259	25	ESH-EFC.4/PT	003903263	25
11	End section (blue)			ESH-EFC.2/PTB	003903260	25	ESH-EFC.4/PTB	003903264	25
12	Marking tag			ES-N...	page 946		ES-N...	page 946	
13	End bracket (spring Type)			ES-BT0	003903075	25	ES-BT0	003903075	25
14	End bracket (screw Type)			ES-BT/3	003903229	25	ES-BT/3	003903229	25
15	Cross connections - bridges (insulated, red)	10 poles		ESH-EFB.2/10/R	003903281	5	ESH-EFB.4/10/R	003903283	5
16	Cross connections - bridges (insulated, blue)	10 poles		ESH-EFB.2/10/B	003903282	5	ESH-EFB.4/10/B	003903284	5

The new products with "Push-in" connection technology offers a fast, reliable and efficient wiring of all cable Types.

REDUCTION OF INSTALLATION TIME, INCREASED PERFORMANCE

The Push-in technology allows cables and hoses to be wired with or without wire clips.

Cables are directly inserted in the terminal, with no tooling required to open the clamp spring: just pressing the wire is sufficient to provide a safe and durable electrical connection.

DIRECT PLUG-IN

Connection is so simple, precise and accurate that a switchboard can be wired with a single hand, without impacting performance. This also improves ergonomics. To connect flexible cables without a wire clip, just push the coloured button to open the spring clip and insert the properly stripped cable.

WIRE RELEASE BUTTONS: SPEED, SIMPLICITY AND SAFETY

To remove the wire from the terminal, just press the release button with any tool to open the spring. Release buttons, highlighted by different colours, prevent operators from making mistakes or coming into contact with potentially live parts, even in settings with a high concentration of links.

»PUSH IN« terminal blocks

»PUSH IN« terminal blocks
ESH-EFC



»PUSH IN« terminal blocks ESH-EFC			ESH-EFC.2/1+2			ESH-EFC.4/1+2			ESH-EFC.2/2+2					
<p>1 Height x Width x Thickness *</p> <p>*The size includes the DIN rail</p>														
			39,2 x 63,1 x 5,2 mm			39,2 x 71,8 x 6,2 mm			39,2 x 76,6 x 5,2 mm					
2 Rated cross-section			2,5 mm ²			4 mm ²			2,5 mm ²					
3 Connecting capacity			solid			0,2 - 4 mm ²			0,2 - 6 mm ²			0,2 - 4 mm ²		
			stranded			0,2 - 4 mm ²			0,2 - 6 mm ²			0,2 - 4 mm ²		
			with ferrule			2,5 - WP25/19			4 - WP40/16			2,5 - WP25/19		
Technical characteristics			IEC		UL		IEC		UL		IEC		UL	
4 Max voltage AC/DC			800 V		600 V		800 V		600 V		800 V		600 V	
5 Max current with rated cross-section			24 A		20 A		32 A		30 A		24 A		20 A	
6 Insulation stripping length			9 mm			10 mm			9 mm					
7 Rated impulse withstand voltage / pollution degree			6 kV / 3			6 kV / 3			6 kV / 3					
			Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]			
8 PUSH-IN spring clamp terminal block (1 input, 2 outputs; grey)			ESH-EFC.2/1+2	003903253	120	ESH-EFC.4/1+2	003903257	110						
9 PUSH-IN spring clamp terminal block (1 input, 2 outputs; blue)			ESH-EFC.2B/1+2	003903254	120	ESH-EFC.4B/1+2	003903258	110						
10 PUSH-IN spring clamp terminal block (2 inputs, 2 outputs; grey)									ESH-EFC.2/2+2	003903285	90			
11 PUSH-IN spring clamp terminal block (2 inputs, 2 outputs; blue)									ESH-EFC.2B/2+2	003903286	90			
Accessories														
12 End section (grey)			ESH-EFC.2/1+2/PT	003903261	25	ESH-EFC.4/1+2/PT	003903265	25	ESH-EFC.2/2+2/PT	003903279	25			
13 End section (blue)			ESH-EFC.2/1+2/PTB	003903262	25	ESH-EFC.4/1+2/PTB	003903266	25	ESH-EFC.2/2+2/PTB	003903288	25			
14 Marking tag			ES-N...	page 946		ES-N...	page 946		ES-N...	page 946				
15 End bracket (spring Type)			ES-BT0	003903075	25	ES-BT0	003903075	25	ES-BT0	003903075	25			
16 End bracket (screw Type)			ES-BT/3	003903229	25	ES-BT/3	003903229	25	ES-BT/3	003903229	25			
16 Cross connections - bridges (insulated, red) 10 poles			ESH-EFB.2/10/R	003903281	5	ESH-EFB.4/10/R	003903283	5	ESH-EFB.4/10/R	003903283	5			
18 Cross connections - bridges (insulated, blue) 10 poles			ESH-EFB.2/10/B	003903282	5	ESH-EFB.4/10/B	003903284	5	ESH-EFB.4/10/B	003903284	5			

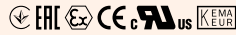
»PUSH IN« terminal blocks
two-level ESH-EFD
three-level ESH-EFT

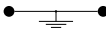



1	Height x Width x Thickness *					
	*The size includes the DIN rail					
2	Rated cross-section					
3	Connecting capacity	solid				
		stranded				
		with ferrule				
Technical characteristics						
5	Max voltage AC/DC	IEC	UL			
6	Max current with rated cross-section	IEC	UL			
7	Insulation stripping length					
8	Rated impulse withstand voltage / pollution degree					
		Type	Code No.	Packaging [pcs]		
9	PUSH-IN two-level spring clamp terminal block (grey)		ESH-EFD.2	003903267	130	
10	PUSH-IN three-level spring clamp terminal block (grey)					
Accessories						
11	End section (grey)		ESH-EFD.2/PT	003903269	25	
12	Marking tag		ES-N...	page 946		
13	End bracket (spring Type)		ES-BTO	003903075	25	
14	End bracket (screw Type)		ES-BT/3	003903229	25	
15	Cross connections - bridges (insulated, red)	10 poles		ESH-EFB.2/10/R	003903281	5
16	Cross connections - bridges (insulated, blue)	10 poles		ESH-EFB.2/10/B	003903282	5

ESH-EFD.2		ESH-EFD.4			ESH-EFT.2		
53,8 x 71,6 x 5,2 mm		57,7 x 81,7 x 6,2 mm			68,4 x 106,2 x 5,2 mm mm		
2,5 mm ²		4 mm ²			2,5 mm ²		
0,2 - 4 mm ²		0,2 - 6 mm ²			0,2 - 4 mm ²		
0,2 - 4 mm ²		0,2 - 6 mm ²			0,2 - 4 mm ²		
2,5 - WP25/19		4 - WP40/16			2,5 - WP25/19		
		IEC	UL		IEC	UL	
800 V		800 V	600 V		800 V	600 V	
22 A		29 A	30 A		22 A	20 A	
9 mm		10 mm			10 mm		
6 kV / 3		6 kV / 3			6 kV / 3		
		Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]
		ESH-EFD.2	003903267	130	ESH-EFD.4	003903268	100
					ESH-EFT.2	003903271	100
		ESH-EFD.2/PT	003903269	25	ESH-EFD.4/PT	003903270	25
		ESH-EFT.2/PT	003903272	25			
		ES-N...	page 946		ES-N...	page 946	
		ES-BTO	003903075	25	ES-BTO	003903075	25
		ES-BT/3	003903229	25	ES-BT/3	003903229	25
		ESH-EFB.2/10/R	003903281	5	ESH-EFB.4/10/R	003903283	5
		ESH-EFB.2/10/B	003903282	5	ESH-EFB.2/10/B	003903284	5
		ESH-EFB.2/10/R	003903281	5	ESH-EFB.2/10/R	003903281	5
		ESH-EFB.2/10/B	003903282	5	ESH-EFB.2/10/B	003903282	5

»PUSH IN« earth terminal blocks
ESH-EFCE



			ESH-EFCE.2			ESH-EFCE.4					
											
1	Height x Width x Thickness * *The size includes the DIN rail		39,2 x 51,1 x 5,2 mm			39,2 x 55,2 x 6,2 mm					
2	Rated cross-section		2,5 mm ²			4 mm ²					
3	Connecting capacity	solid	0,2 - 4 mm ²			0,2 - 6 mm ²					
		stranded	0,2 - 4 mm ²			0,2 - 6 mm ²					
		with ferrule	2,5 - WP25/19			4 - WP40/16					
Technical characteristics			IEC	UL	IEC	UL					
4	Max voltage AC/DC		-	-	-	-					
5	Max current with rated cross-section		20 A	-	26 A	-					
6	Insulation stripping length		9 mm			10 mm					
7	Rated impulse withstand voltage / pollution degree		6 kV / 3			6 kV / 3					
			Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]			
8	PUSH-IN spring clamp terminal block (yellow-green)		ESH-EFCE.2	003903273	80	ESH-EFCE.4	003903276	70			
Accessories											
9	End section (grey)		ESH-EFC.2/PT	003903259	25	ESH-EFC.4/PT	003903263	25			
10	Marking tag		ES-N...	page 946		ES-N...	page 946				
11	End bracket (spring Type)		ES-BT0	003903075	25	ES-BT0	003903075	25			
12	End bracket (screw Type)		ES-BT/3	003903229	25	ES-BT/3	003903229	25			
13	Cross connections - bridges (insulated, red)	10 poles	ESH-EFB.2/10/R	003903281	5	ESH-EFB.4/10/R	003903283	5			
14	Cross connections - bridges (insulated, blue)	10 poles	ESH-EFB.2/10/B	003903282	5	ESH-EFB.4/10/B	003903284	5			

»PUSH IN« earth terminal blocks
ESH-EFCE



			ESH-EFCE.2/1+2 ESH-EFCE.2/2+2			ESH-EFCE.4/1+2 ESH-EFCE.4/2+2		
1	Height x Width x Thickness * *The size includes the DIN rail		39,2 x 64,6 (78,1*) x 5,2 mm			39,2 x 71,8 (88,4*) x 6,2 mm		
2	Rated cross-section		2,5 mm²			4 mm²		
3	Connecting capacity	solid	0,2 - 4 mm ²			0,2 - 6 mm ²		
		stranded	0,2 - 4 mm ²			0,2 - 6 mm ²		
		with ferrule	2,5 - WP25/19			4 - WP40/16		
Technical characteristics			IEC	UL	IEC	UL		
4	Max voltage AC/DC		-	-	-	-		
5	Max current with rated cross-section		20 A	-	26 A	-		
6	Insulation stripping length		9 mm			10 mm		
7	Rated impulse withstand voltage / pollution degree		6 kV / 3			6 kV / 3		
			Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]
8	PUSH-IN spring clamp terminal block (1 input, 2 outputs; yellow-green)		ESH-EFCE.2/1+2	003903274	50	ESH-EFCE.4/1+2	003903277	60
9	PUSH-IN spring clamp terminal block (2 inputs, 2 outputs; yellow-green)		ESH-EFCE.2/2+2	003903275	60	ESH-EFCE.4/2+2	003903278	90
Accessories								
10	End section (grey) for ESH-EFCE.2/1+2, ESH-EFCE.4/1+2		ESH-EFC.2/1+2/PT	003903261	25	ESH-EFC.4/1+2/PT	003903265	25
11	End section (grey) for ESH-EFCE.2/2+2, ESH-EFCE.4/2+2		ESH-EFC.2/2+2/PT	003903279	25	ESH-EFC.4/2+2/PT	003903280	25
12	Marking tag		ES-N...	page 946		ES-N...	page 946	
13	End bracket (spring Type)		ES-BT0	003903075	25	ES-BT0	003903075	25
14	End bracket (screw Type)		ES-BT/3	003903229	25	ES-BT/3	003903229	25
15	Cross connections - bridges (insulated, red)	10 poles	ESH-EFB.2/10/R	003903281	5	ESH-EFB.4/10/R	003903283	5
16	Cross connections - bridges (insulated, blue)	10 poles	ESH-EFB.2/10/B	003903282	5	ESH-EFB.4/10/B	003903284	5

* Length of ESH-EFCE.2(4)/2+2 terminal blocks

Accessories for »PUSH IN« terminal blocks

End sections, grey color

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESH-EFC.2/PT	003903259	ESH-EFC.2, ESH-EFCE.2	3,11	25
ESH-EFC.2/1+2/PT	003903261	ESH-EFC.2/1+2, ESH-EFCE.2/1+2	3,00	25
ESH-EFC.2/2+2/PT	003903279	ESH-EFC.2/2+2, ESH-EFCE.2/2+2	3,91	25
ESH-EFC.4/PT	003903263	ESH-EFC.4, ESH-EFCE.4	2,99	25
ESH-EFD.4/1+2/PT	003903265	ESH-EFC.4/1+2, ESH-EFCE.4/1+2	3,00	25
ESH-EFC.4/2+2/PT	003903280	ESH-EFCE.4/2+2	4,00	25

End sections, blue color

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESH-EFC.2/PTB	003903260	ESH-EFC.2B	2,60	25
ESH-EFC.2/1+2/PTB	003903262	ESH-EFC.2B/1+2	3,00	25
ESH-EFC.2/2+2/PTB	003903288	ESH-EFC.2B/2+2	4,06	25
ESH-EFC.4/PTB	003903264	ESH-EFC.4B	2,99	25
ESH-EFD.4/1+2/PTB	003903266	ESH-EFC.4B/1+2	3,00	25

End section for two and three level terminal blocks

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESH-EFD.2/PT	003903269	ESH-EFD.2	4,51	25
ESH-EFD.4/PT	003903270	ESH-EFT.4	5,35	25
ESH-EFT.2/PT	003903272	ESH-EFT.2	8,10	25

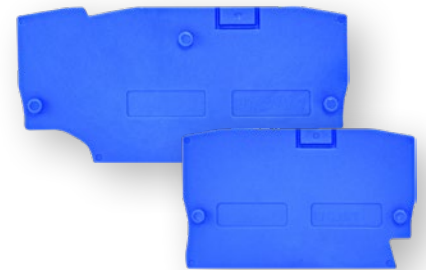
“Easy bridge” system: double possibility to insert ESH-EFB.2/10/R, ESH-EFB.2/10/B and ESH-EFB.4/10/R, ESH-EFB.4/10/B multi-pole cross-connections, without the need of insulating protection. Cross connections - bridges 10 pole versions with insulation red or blue, or without isolation.

Cross connections - bridges

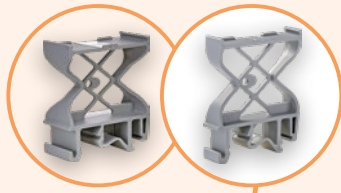
Type	Code No.	CROSS CONNECTIONS: nr. of poles, for use with, color	Weight [g]	Packaging [pcs]
ESH-EFB.2/10/R	003903281	10 POLE for (ESH-EFC.2, ESH-EFCE.2, ESH-EFD.2, ESH-EFT.2) - RED, insulated	5	5
ESH-EFB.2/10/B	003903282	10 POLE for (ESH-EFC.2, ESH-EFCE.2, ESH-EFD.2, ESH-EFT.2) - BLUE, insulated	5	5
ESH-EFB.4/10/R	003903283	10 POLE for (ESH-EFC.4, ESH-EFCE.4, ESH-EFD., ESH-EFT.4) - RED, insulated	5	5
ESH-EFB.4/10/B	003903284	10 POLE for (ESH-EFC.4, ESH-EFCE.4, ESH-EFD., ESH-EFT.4) - BLUE, insulated	5	5

* Connecting bridges can be cut to the desired length

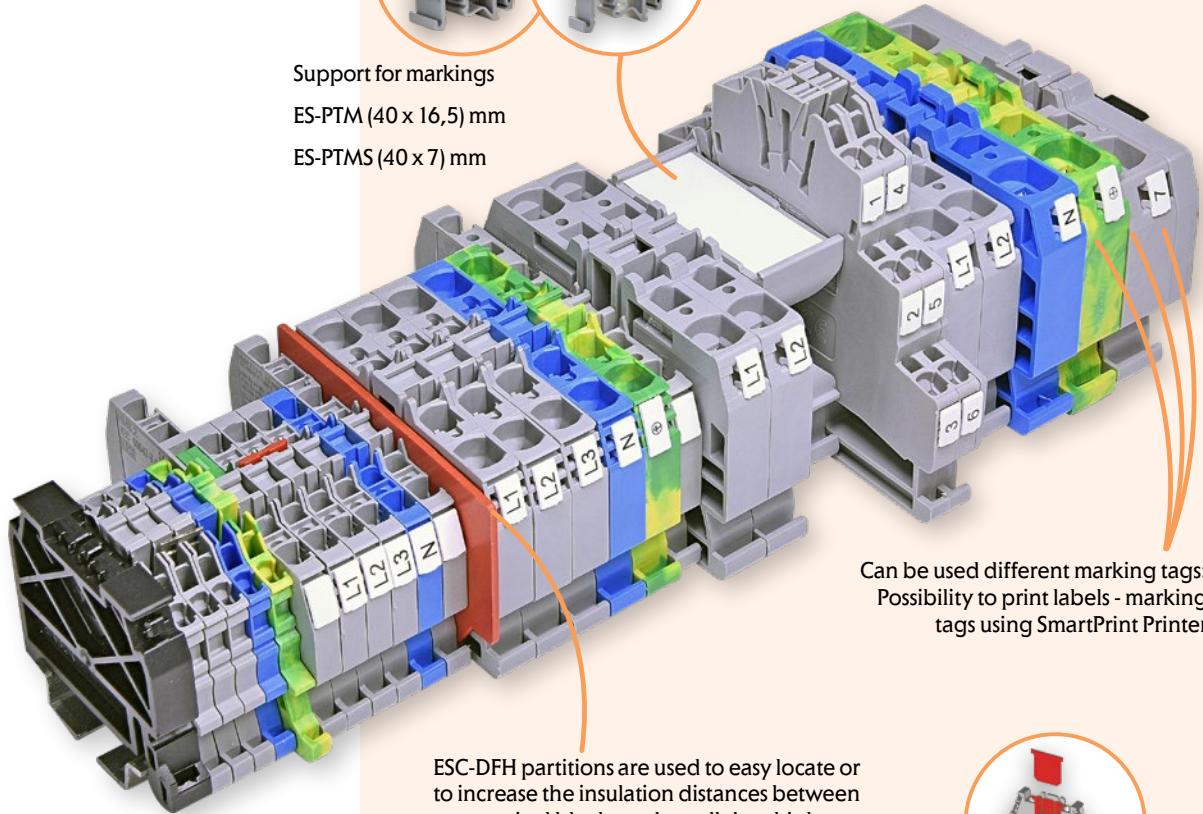
** In connection with connecting bridges we recommend the use of DFM insulation partitions



Spring clamp terminal blocks

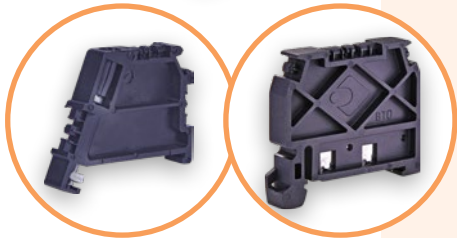


Support for markings
 ES-PTM (40 x 16,5) mm
 ES-PTMS (40 x 7) mm

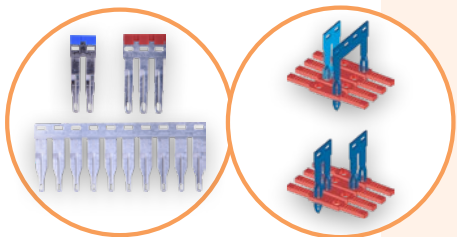
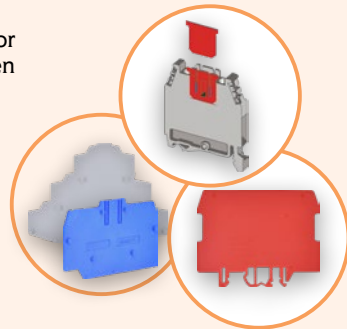


Can be used different marking tags:
 Possibility to print labels - marking tags using SmartPrint Printer

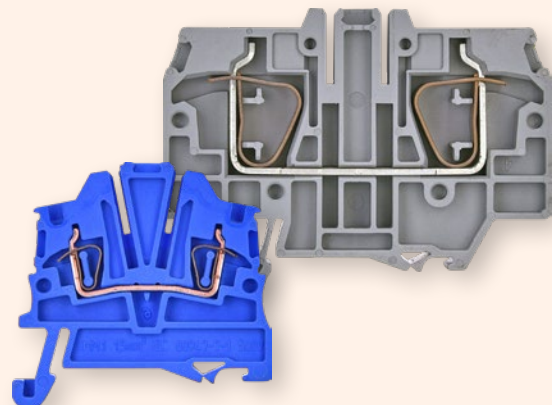
ESC-DFH partitions are used to easy locate or to increase the insulation distances between terminal blocks and parallel multiple commoning bars.



End brackets ES-BTO (spring Type), ES-BT/3 (screw Type) are used to lock terminals on TH35 rails.



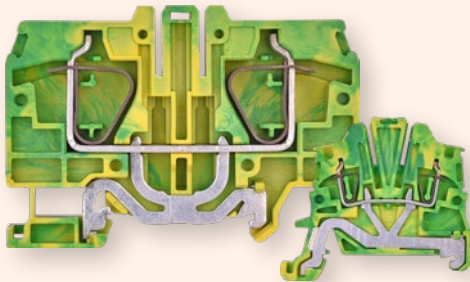
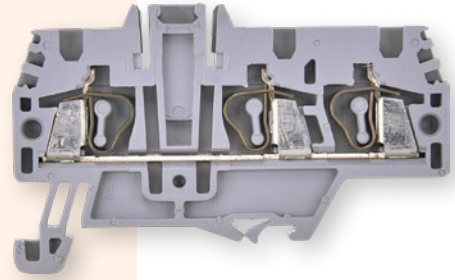
"Easy bridge" system: double possibility to insert PTC, PTP multi-pole cross-connections, without the need of insulating protection. Cross connections - bridges 2, 3 and 10 pole versions with insulation red or blue, or without isolation.



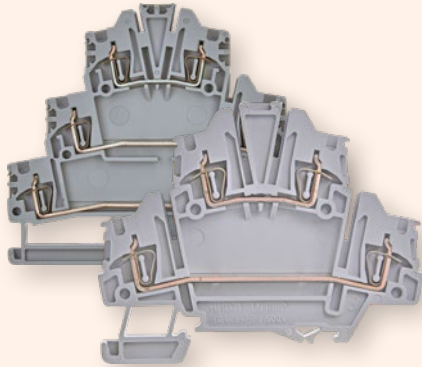
- Spring Type terminal blocks ESP-HMM series for conductors with cross sections from 0,2 to 25 mm² in grey and blue color. Provide constant and permanent clamping pressure to electrical conductor, resistant to vibrations.

Spring clamp terminal blocks

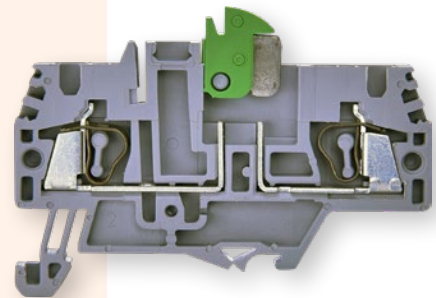
Feed through terminal blocks ESP-HMM/1+2, 1 input and 2 outputs, grey color. For conductors with cross sections from 0,2 to 4 mm².



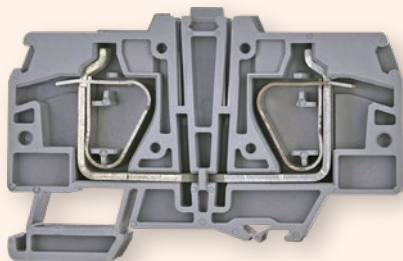
Earth terminal blocks ESP-HTE - Feed through terminal blocks, yellow-green. For conductors with cross sections from 0,2 to 25 mm².



Two and three level terminal blocks ESP2-HMD and ESP3-HLD. For conductors with cross sections from 0,2 to 2,5 mm² in grey color.



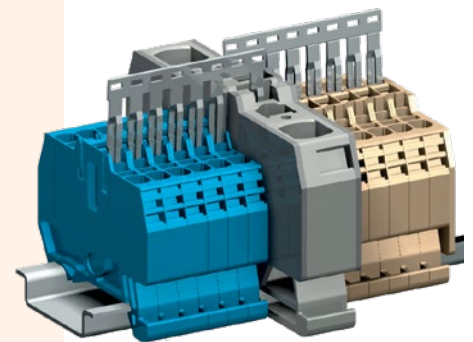
Disconnect terminal block ESP-HMS.2. For conductors with cross sections from 0,2 to 4 mm² in grey color.



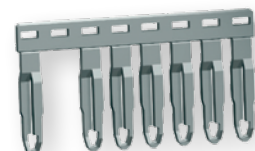
ESC-HMR.16

ESC-HMR.16/D

Potential power distribution, grey color terminal blocks ESP-HMR.16 and ESP-HMR.16/D. For conductors with cross sections from 1,5 to 25 mm². We have single and double power supply version.



Example: double power supply version



You have to remove second pole from Cross connections - bridges in order to use it with ESC-HMR, ESC-HMR/D.

Spring clamp terminal blocks ESP-HMM



1	Height x Width x Thickness * *The size includes the DIN rail		43 x 45 x 4,2 mm	41 x 50 x 5,2 mm	41 x 66 x 5,2 mm			
2	Rated cross-section		1,5 mm²	2,5 mm²				
3	Connecting capacity	solid	0,2 - 2,5 mm ²	0,2 - 4 mm ²				
		stranded	0,2 - 2,5 mm ²	0,2 - 4 mm ²				
		with ferrule	1,5 - WP15/14	2,5 - WP25/14				
Technical characteristics			IEC	UL	IEC	UL		
4	Max voltage AC/DC		500 V	600 V	800 V	600 V		
5	Max current with rated cross-section		17,5 A	15 A	24 A	20 A		
6	Insulation stripping length		10 mm		10 mm			
7	Rated impulse withstand voltage / pollution degree		8 kV / 3		8 kV / 3			
			Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]
8	Feed through spring clamp terminal block (grey)		ESP-HMM.1	003903130	100	ESP-HMM.2	003903131	80
9	Feed through spring clamp terminal block (blue)		ESP-HMM.1B	003903166	100	ESP-HMM.2B	003903167	100
10	Feed through spring clamp terminal block (1 input, 2 outputs; grey)					ESP-HMM.2/1+2	003903233	100
Accessories								
11	End section (grey)		ESP-HMT.1/PT	003903136	25	ESP-HMT.2/PT	003903137	25
12	End section (blue)		ESP-HMT.1/PTB	003903172	25	ESP-HMT.2/PTB	003903173	25
13	End section (1 input, 2 outputs; grey)					ESP-HMT.2/1+2/PT	003903189	25
14	Red partition		ESP-DFH/1	003903142	25	ESP-DFH/1 (for ESP-HMM.2)	003903142	25
15	Marking tag		ESP-SH004S	page 947		ES-N...	page 946	
16	End bracket (spring Type)		ES-BTO	003903075	25	ES-BTO	003903075	25
17	End bracket (screw Type)		ES-BT/3	003903229	25	ES-BT/3	003903229	25
18	Red insulation partition to be used in case of cross connections - bridges		ESP-DFM/500	003903144	50			
19	Cross connections - bridges (uninsulated)	2 poles	ESP-PTC/1/02	003903145	25			
		3 poles	ESP-PTC/1/03	003903146	25			
		10 poles	ESP-PTC/1/10	003903147	10			
20	Cross connections - bridges (insulated, red)	2 poles				ESP-PTP/3/02/R	003903148	25
		3 poles				ESP-PTP/3/03/R	003903149	25
		10 poles				ESP-PTP/3/10/R	003903150	10
21	Cross connections - bridges (insulated, blue)	2 poles				ESP-PTP/3/02/B	003903151	25
		3 poles				ESP-PTP/3/03/B	003903152	25
		10 poles				ESP-PTP/3/10/B	003903153	10

Spring clamp terminal blocks

	ESP-HMM.4			ESP-HMM.4/1+2			ESP-HMM.6			ESP-HMM.10			ESP-HMM.16		
1	45 x 58 x 6,2 mm			45 x 78 x 6,2 mm			44 x 62 x 8,2 mm			53 x 71 x 10 mm			56 x 80 x 12 mm		
2	4 mm ²			4 mm ²			6 mm ²			10 mm ²			16 mm ²		
3	0,2 - 6 mm ²			0,2 - 6 mm ²			0,2 - 10 mm ²			1,5 - 16 mm ²			1,5 - 25 mm ²		
	0,2 - 6 mm ²			0,2 - 6 mm ²			0,2 - 10 mm ²			1,5 - 16 mm ²			1,5 - 25 mm ²		
	4 - WP40/16			4 - WP40/16			6 - WP60/20			10 - WP100/21			16 - WP160/22		
	IEC		UL	IEC		UL	IEC		UL	IEC		UL	IEC		UL
4	800 V		600 V	800 V		600 V	1000 V		600 V	1000 V		600 V	1000 V		600 V
5	32 A		30	41 A		41 A	57 A		57 A	57 A		57 A	76 A		85 A
6	12 mm			12 mm			13 mm			18 mm			18 mm		
7	8 kV / 3			8 kV / 3			8 kV / 3			12 kV / 3			12 kV / 3		
	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]
8	ESP-HMM.4	003903132	60	ESP-HMM.6	003903133	30	ESP-HMM.10	003903134	30	ESP-HMM.16	003903135	30	ESP-HMM.16	003903135	30
9	ESP-HMM.4B	003903168	60	ESP-HMM.6B	003903169	30	ESP-HMM.10B	003903170	30	ESP-HMM.16B	003903171	30	ESP-HMM.16B	003903171	30
10	ESP-HMM.4/1+2	003903234	60												
Accessories															
11	ESP-HMT.4/PT	003903138	25	ESP-HMT.6/PT	003903139	25	ESP-HMT.10/PT	003903140	25	ESP-HMT.16/PT	003903141	25	ESP-HMT.16/PT	003903141	25
12	ESP-HMT.4/PTB	003903174	25	ESP-HMT.6/PTB	003903175	25	ESP-HMT.10/PTB	003903176	25	ESP-HMT.16/PTB	003903177	25	ESP-HMT.16/PTB	003903177	25
13	ESP-HMT.4/1+2/PT	003903236	25												
14	ESP-DFH/1 (for ESP-HMM.4)	003903142	25	ESP-DFH/1	003903142	25	ESP-DFH/4	003903143	25	ESP-DFH/4	003903143	25	ESP-DFH/4	003903143	25
15	ES-N...	page 946		ES-N...	page 946		ES-N...	page 946		ES-N...	page 946		ES-N...	page 946	
16	ES-BT0	003903075	25	ES-BT0	003903075	25	ES-BT0	003903075	25	ES-BT0	003903075	25	ES-BT0	003903075	25
17	ES-BT/3	003903229	25	ES-BT/3	003903229	25	ES-BT/3	003903229	25	ES-BT/3	003903229	25	ES-BT/3	003903229	25
18															
19				ESC-PTC/8/02	003903160	25	ESC-PTC/11/02	003903162	25	ESC-PTC/16/02	003903164	25	ESC-PTC/16/02	003903164	25
				ESC-PTC/8/10	003903161	10	ESC-PTC/11/10	003903163	10	ESC-PTC/16/10	003903165	10	ESC-PTC/16/10	003903165	10
20	ESP-PTP/5/02/R	003903154	25												
	ESP-PTP/5/03/R	003903155	25												
	ESP-PTP/5/10/R	003903156	10												
21	ESP-PTP/5/02/B	003903157	25												
	ESP-PTP/5/03/B	003903158	25												
	ESP-PTP/5/10/B	003903159	10												

Earth spring clamp terminal blocks ESP-HTE



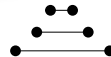
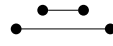
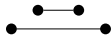
			ESP-HTE.1			ESP-HTE.2		
			43 x 50 x 4,2 mm			41 x 54 x 5,2 mm		
			1,5 mm²			2,5 mm²		
			0,2 - 2,5 mm ²			0,2 - 4 mm ²		
			0,2 - 2,5 mm ²			0,2 - 4 mm ²		
			1,5 - WP15/14			2,5 - WP25/14		
			IEC		UL	IEC		UL
			-		400 V	-		500 V
			17,5 A		-	24 A		-
			10 mm			10 mm		
			8 kV / 3			8 kV / 3		
			Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]
8 Feed through spring clamp terminal block (yellow-green)			ESP-HTE.1	003903190	100	ESP-HTE.2	003903191	80
Accessories								
9 End section (grey)			ESP-HMT.1/PT	003903136	25	ESP-HMT.2/PT	003903137	25
10 Red partition			ESP-DFH/1	003903142	25	ESP-DFH/1	003903142	25
11 Marking tag			ESP-SH004S	page 947		ES-N...	page 946	
12 End bracket (spring Type)			ES-BT0	003903075	25	ES-BT0	003903075	25
13 End bracket (screw Type)			ES-BT/3	003903229	25	ES-BT/3	003903229	25
14 Cross connections - bridges (uninsulated)			ESP-PTC/1/02	003903145	25			
			ESP-PTC/1/03	003903146	25			
			ESP-PTC/1/10	003903147	10			
15 Cross connections - bridges (insulated, red)						ESP-PTP/3/02/R	003903148	25
						ESP-PTP/3/03/R	003903149	25
						ESP-PTP/3/10/R	003903150	10
16 Cross connections - bridges (insulated, blue)						ESP-PTP/3/02/B	003903151	25
						ESP-PTP/3/03/B	003903152	25
						ESP-PTP/3/10/B	003903153	10

1	Height x Width x Thickness * *The size includes the DIN rail		
2	Rated cross-section		
3	Connecting capacity	solid	
		stranded	
		with ferrule	
Technical characteristics			
4	Max voltage AC/DC		
5	Max current with rated cross-section		
6	Insulation stripping length		
7	Rated impulse withstand voltage / pollution degree		
Accessories			
9	End section (grey)		
10	Red partition		
11	Marking tag		
12	End bracket (spring Type)		
13	End bracket (screw Type)		
14	Cross connections - bridges (uninsulated)	2 poles	
		3 poles	
		10 poles	
15	Cross connections - bridges (insulated, red)	2 poles	
		3 poles	
		10 poles	
16	Cross connections - bridges (insulated, blue)	2 poles	
		3 poles	
		10 poles	

Spring clamp terminal blocks

	ESP-HTE.4			ESP-HTE.6			ESP-HTE.10			ESP-HTE.16		
1	45 x 58 x 6,2 mm			44 x 62 x 8,2 mm			53 x 71 x 10 mm			56 x 80 x 12 mm		
2	4 mm²			6 mm²			10 mm²			16 mm²		
3	0,2 - 6 mm ²			0,2 - 10 mm ²			1,5 - 16 mm ²			1,5 - 25 mm ²		
	0,2 - 6 mm ²			0,2 - 10 mm ²			1,5 - 16 mm ²			1,5 - 25 mm ²		
	4 - WP40/16			6 - WP60/20			10 - WP100/21			16 - WP160/22		
4	IEC	UL		IEC	UL		IEC	UL		IEC	UL	
	-	500 V		-	500 V		-	500 V		-	630 V	
5	32 A	-		41 A	-		57 A	-		76 A	-	
6	12 mm			13 mm			18 mm			18 mm		
7	8 kV / 3			8 kV / 3			12 kV / 3			12 kV / 3		
8	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]
	ESP-HTE.4	003903192	60	ESP-HTE.6	003903193	30	ESP-HTE.10	003903194	30	ESP-HTE.16	003903195	30
Accessories												
9	ESP-HMT.4/PT	003903138	25	ESP-HMT.6/PT	003903139	25	ESP-HMT.10/PT	003903140	25	ESP-HMT.16/PT	003903141	25
10	ESP-DFH/1	003903142	25	ESP-DFH/1	003903142	25	ESP-DFH/4	003903143	25	ESP-DFH/4	003903143	25
11	ES-N...	page 946		ES-N...	page 946		ES-N...	page 946		ES-N...	page 946	
12	ES-BT0	003903075	25	ES-BT0	003903075	25	ES-BT0	003903075	25	ES-BT0	003903075	25
13	ES-BT/3	003903229	25	ES-BT/3	003903229	25	ES-BT/3	003903229	25	ES-BT/3	003903229	25
14				ESC-PTC/8/02	003903160	25	ESC-PTC/11/02	003903162	25	ESC-PTC/16/02	003903164	25
				ESC-PTC/8/10	003903161	10	ESC-PTC/11/10	003903163	10	ESC-PTC/16/10	003903165	10
15	ESP-PTP/5/02/R	003903154	25									
	ESP-PTP/5/03/R	003903155	25									
	ESP-PTP/5/10/R	003903156	10									
16	ESP-PTP/5/02/B	003903157	25									
	ESP-PTP/5/03/B	003903158	25									
	ESP-PTP/5/10/B	003903159	10									

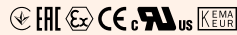
Spring clamp terminal blocks
two-level
ESP2-HMD,
three-level
ESP3-HLD



1	Height x Width x Thickness *		59 x 73 x 4,2 mm			59 x 73 x 5,2 mm			75 x 95 x 5,2 mm			
	*The size includes the DIN rail											
2	Rated cross-section		1,5 mm ²			2,5 mm ²			2,5 mm ²			
	3	Connecting capacity	solid	0,2 - 2,5 mm ²			0,2 - 2,5 mm ²			0,2 - 2,5 mm ²		
		stranded	0,2 - 2,5 mm ²			0,2 - 2,5 mm ²			0,2 - 2,5 mm ²			
		with ferrule	1,5 - WP15/14			1,5 - WP15/14			1,5 - WP15/14			
Technical characteristics			IEC	UL	IEC	UL	IEC	UL	IEC	UL		
5	Max voltage AC/DC		500 V	600 V	630 V	600 V	500 V	-				
6	Max current with rated cross-section		17,5 A	15 A	24 A	15 A	24 A	-				
7	Insulation stripping length		10 mm			10 mm			10 mm			
8	Rated impulse withstand voltage / pollution degree		6 kV / 3			8 kV / 3			8 kV / 3			
9	Two level feed through spring clamp terminal block (grey)		Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]	
	Three level feed through spring clamp terminal block (grey)		ESP2-HMD.1	003903183	50	ESP2-HMD.2N	003903184	40	ESP3-HLD.2	003903186	50	
Accessories												
10	End section (grey)		ESP2-HMD.1/PT	003903185	25	ESP2-HMD.1/PT	003903185	25	ESP3-HLD.2/PT	003903187	25	
11	Red partition		ESC-DFU/7/R	003903015	25	ESC-DFU/7/R	003903015	25				
12	Marking tag		ESP-SH004S	page 947		ES-N...	page 946		ES-N...	page 946		
13	End bracket (spring Type)		ES-BT0	003903075	25	ES-BT0	003903075	25	ES-BT0	003903075	25	
14	End bracket (screw Type)		ES-BT/3	003903229	25	ES-BT/3	003903229	25	ES-BT/3	003903229	25	
15	Red insulation partition to be used in case of cross connections - bridges		ESP-DFM/500	003903144	50	ESP-DFM/500	003903144	50	ESP-DFM/500	003903144	50	
16	Cross connections - bridges (non-insulated)	2 poles	ESP-PTC/1/02	003903145	25							
		3 poles	ESP-PTC/1/03	003903146	25							
		10 poles	ESP-PTC/1/10	003903147	10							
17	Cross connections - bridges (insulated, red)	2 poles				ESP-PTP/3/02/R	003903148	25	ESP-PTP/3/02/R	003903148	25	
		3 poles				ESP-PTP/3/03/R	003903149	25	ESP-PTP/3/03/R	003903149	25	
		10 poles				ESP-PTP/3/10/R	003903150	10	ESP-PTP/3/10/R	003903150	10	
18	Cross connections - bridges (insulated, blue)	2 poles				ESP-PTP/3/02/B	003903151	25	ESP-PTP/3/02/B	003903151	25	
		3 poles				ESP-PTP/3/03/B	003903152	25	ESP-PTP/3/03/B	003903152	25	
		10 poles				ESP-PTP/3/10/B	003903153	10	ESP-PTP/3/10/B	003903153	10	

Spring clamp terminal blocks

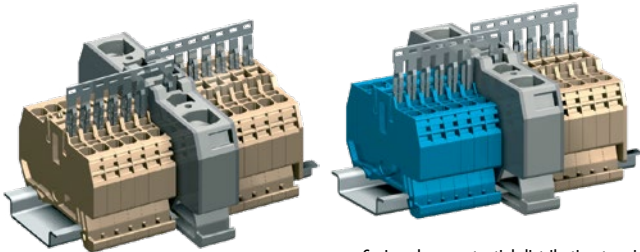
Potential power distribution
spring clamp terminal blocks
ESP-HMR
Disconnect spring clamp
terminal blocks
ESP-HMS



		ESP-HMR.16	ESP-HMR.16/D	ESP-HMS.2				
		50 x 80 x 12,8 mm	50 x 80 x 12,8 mm	37 x 66 x 5,2 mm				
		16 mm²	16 mm²	2,5 mm²				
3	Connecting capacity	solid	1,5 - 25 mm ²	1,5 - 25 mm ²				
		stranded	1,5 - 25 mm ²	1,5 - 25 mm ²				
		with ferrule	16 - WP160/22	16 - WP160/22				
Technical characteristics		IEC	UL	IEC	UL			
5	Max voltage AC/DC	800 V	600 V	800 V	600 V			
6	Max current with rated cross-section	76 A	30 A	76 A	30 A			
7	Insulation stripping length	18 mm		10 mm				
8	Rated impulse withstand voltage / pollution degree	12 kV / 3		6 kV / 3				
		Type	Code No.	Packaging [pcs]	Type	Code No.	Packaging [pcs]	
9	Potential power distribution spring clamp terminal block (grey) / Disconnect spring clamp terminal block (grey)	ESP-HMR.16 Single power supply version	003903178	15	ESP-HMR.16/D Double supply version	003903179	30	
Accessories								
10	End section (grey) for ESP-HMM.2, ESP-HMM.2/1+2	ESP-HMR.16-2/PT	003903180	10	ESP-HMR.16-2/PT	003903180	10	
11	End section (grey) for ESP-HMM.4, ESP-HMM.4/1+2	ESP-HMR.16-4/PT	003903181	10	ESP-HMR.16-4/PT	003903181	10	
12	End section (grey) ESP-HMM.6	ESP-HMR.16-6/PT	003903182	10	ESP-HMR.16-6/PT	003903182	10	
13	Red partition	ESP-DFH/4	003903143	25	ESP-DFH/4	003903143	25	
14	Marking tag	ES-N...	page 946		ES-N...	page 946		
15	End bracket (spring Type)	ES-BT0	003903075	25	ES-BT0	003903075	25	
16	End bracket (screw Type)	ES-BT/3	003903229	25	ES-BT/3	003903229	25	
17	Cross connections - bridges (non-insulated) to connect ESP-HMM.6	10 poles	ESC-PTC/08/10	003903161	25	ESC-PTC/08/10	003903161	25
18	Cross connections - bridges (red, blue) to connect ESP-HMM.2	2 poles (red)				ESP-PTP/3/02/R	003903148	25
		2 poles (blue)				ESP-PTP/3/02/B	003903151	25
		3 poles (red)	ESP-PTP/3/03/R	003903149	25	ESP-PTP/3/03/R	003903149	25
		3 poles (blue)	ESP-PTP/3/03/B	003903152	25	ESP-PTP/3/03/B	003903152	25
		10 poles (red)	ESP-PTP/3/10/R	003903150	10	ESP-PTP/3/10/R	003903150	10
19	Cross connections - bridges (red, blue) to connect ESP-HMM.4	10 poles (blue)	ESP-PTP/3/10/B	003903153	10	ESP-PTP/3/10/B	003903153	10
		3 poles (red)	ESP-PTC/5/03/R	003903155	25	ESP-PTC/5/03/R	003903155	25
		3 poles (blue)	ESP-PTC/5/03/B	003903158	25	ESP-PTC/5/03/B	003903158	25
		10 poles (red)	ESP-PTC/5/10/R	003903156	10	ESP-PTC/5/10/R	003903156	10
		10 poles (blue)	ESP-PTC/5/10/B	003903159	10	ESP-PTC/5/10/B	003903159	10

Features of potential distribution terminal blocks ESP-HMR

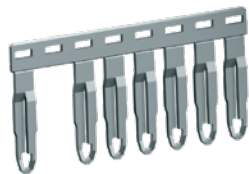
- with UL94V-0 polyamide insulating body
- 16 mm²
- mounting onto rails according to IEC 60715 Std., "TH/35" Type
- available in grey RAL 7042 colour
- can be connected with ESP-HMM.2



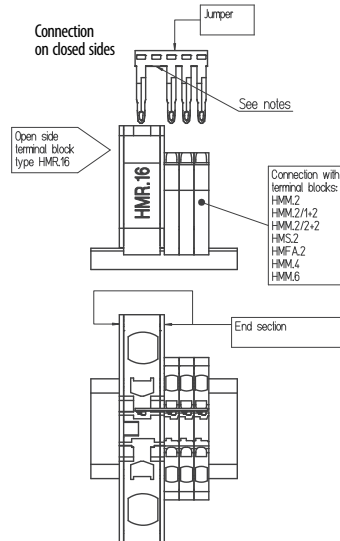
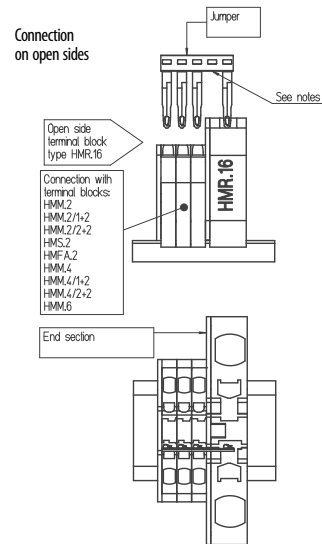
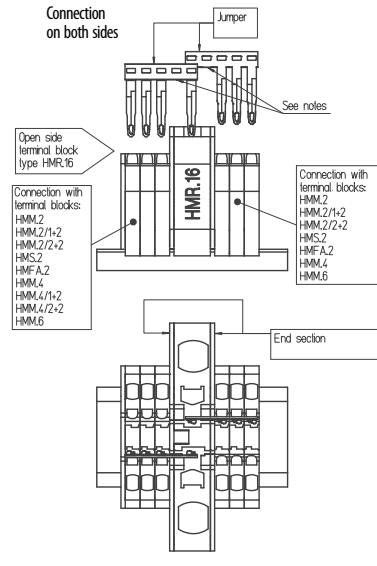
Spring clamp potential distribution terminal block, single power supply

Spring clamp potential distribution terminal block, double power supply

NOTES:
 The number of poles to be used shall be equal to the number of terminal blocks to be connected, including the distribution terminal block + 1
 To allow the connection to the distribution terminal block the second pin of the PTC jumper shall be trimmed off
 *Connectable only on the open side of the distribution terminal block



Connection



The number of poles of the PTC jumper must be equal to the number of terminal blocks to be cross-connected plus 1

Terminal block connected to supply terminal	End sections	Permanent cross connection (**)	
		Type	Total capacity
ESP-HMM.2	ESP-HMR.16-2/PT	ESP-PTP0303 ESP-PTP0310	24 A
ESP-HMM.4	ESP-HMR.16-4/PT	ESP-PTP0503 ESP-PTP0510	32 A
ESP-HMM.6	ESP-HMR.16-6/PT	ESP-PTC/08/10 poles	41 A

(**) In order to enable the connection to the supply terminal the second pin must be always removed from the strip of the PTC jumper.

Accessories for spring clamp terminal blocks

Terminal block	End section	
	Type	Thickness [mm]
ESP3-HLD.2	ESP3-HLD.2/PT	1,5
ESP-HMM.1	ESP-HMT.1/PT	1,5
ESP-HMM.2	ESP-HMT.2/PT	1,5
ESP-HMM.4	ESP-HMT.4/PT	1,5
ESP2-HMD.1	ESP2-HMD.1/PT	1,5
ESP2-HMD.2N	ESP2-HMD.1/PT	1,5
ESP-HMM.6	ESP-HMT.6/PT	1,5
ESP-HTE.1	ESP-HMT.1/PT	1,5
ESP-HTE.2	ESP-HMT.2/PT	1,5
ESP-HTE.4	ESP-HMT.4/PT	1,5
ESP-HTE.6	ESP-HMT.6/PT	1,5
ESP-HTE.10	ESP-HMT.10/PT	1,5
ESP-HTE.16	ESP-HMT.16/PT	1,5
ESP-HMM.1B	ESP-HMT.1/PT B	1,5
ESP-HMM.2B	ESP-HMT.2/PT B	1,5
ESP-HMM.4 B	ESP-HMT.4/PT B	1,5
ESP-HMM.6 B	ESP-HMT.6/PT B	1,5
ESP-HMM.10	ESP-HMT.10/PT	1,5
ESP-HMM.16	ESP-HMT.16/PT	1,5
ESP-HMM.10B	ESP-HMT.10/PTB	1,5
ESP-HMM.16B	ESP-HMT.16/PTB	1,5

ESP-PT end sections

For each Type and cross section of terminal block, there is a specific insulating and closing end section to be placed on the open element of each terminal board. This end section may also be used to separate different phases of adjoining terminal blocks linked by cross connections or to increase insulation distances where specific circumstances may require it. The end sections have the same overall dimension as the related terminal block, thicknesses are given in the table below.

End sections, grey color

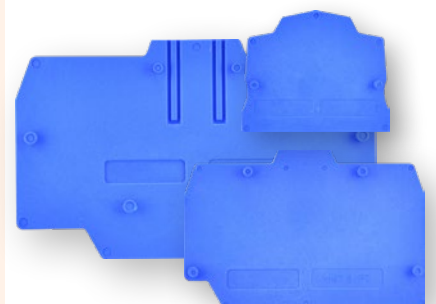
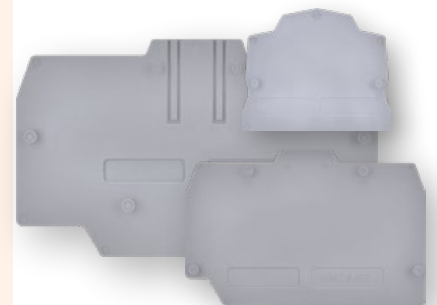
Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESP-HMT.1/PT	003903136	ESP-HMM.1, ESP-HTE.1	2,7	25
ESP-HMT.2/PT	003903137	ESP-HMM.2, ESP-HTE.2	2,8	25
ESP-HMT.4/PT	003903138	ESP-HMM.4, ESP-HTE.4	3,8	25
ESP-HMT.6/PT	003903139	ESP-HMM.6, ESP-HTE.6	4,2	25
ESP-HMT.10/PT	003903140	ESP-HMM.10, ESP-HTE.10	5	25
ESP-HMT.16/PT	003903141	ESP-HMM.16, ESP-HTE.16	6	25

End sections, grey color

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESP-HMT.2/1+2/PT	003903189	ESP-HMM.2/1+2, ESP-HMS.2	3,4	25
ESP-HMT.4/1+2/PT	003903236	ESP-HMM.4/1+2	4,3	25

End sections, blue color

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESP-HMT.1/PTB	003903172	ESP-HMM.1B	2,6	25
ESP-HMT.2/PTB	003903173	ESP-HMM.2B	2,9	25
ESP-HMT.4/PTB	003903174	ESP-HMM.4B	3,4	25
ESP-HMT.6/PTB	003903175	ESP-HMM.6B	4	25
ESP-HMT.10/PTB	003903176	ESP-HMM.10B	10	25
ESP-HMT.16/PTB	003903177	ESP-HMM.16B	6	25





End section for two level terminal blocks

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESP2-HMD.1/PT	003903185	ESP2-HMD.1, ESP2-HMD.2N	4,9	25

End section for three level terminal blocks

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESP3-HLD.2/PT	003903187	ESP3-HLD.2	6	25

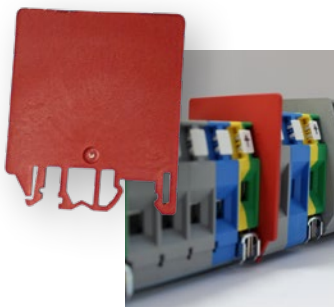
End sections for potential power distribution terminal blocks

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESP-HMR.16-2/PT	003903180	Connection to distribution ESP-HMM.2	8	10
ESP-HMR.16-4/PT	003903181	Connection to distribution ESP-HMM.4	8	10
ESP-HMR.16-6/PT	003903182	Connection to distribution ESP-HMM.6	9	10

ESP-DFH partitions

In polyamide available in red, colour, 1.5 mm thick, for the separation of elements on the terminal board, in order to make certain circuits easy to locate or to increase the insulation distances between terminal blocks.

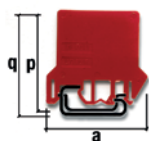
The partitions can also be used to increase the insulation distances between adjacent parallel multiple commoning bars. White and green partitions available while stocks last.



Red partitions

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
ESP-DFH/1	003903142	ESP-HMM.1...ESP-HMM.6	4	25
ESP-DFH/4	003903143	ESP-HMM.10...ESP-HMM.16	6	25

Compatible also with two and three level spring terminal blocks



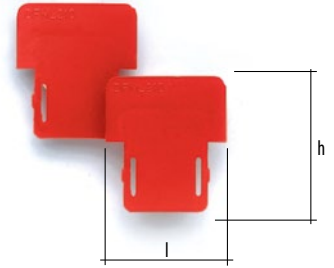
NOTE:
q dimension can be obtained by adding 4 mm to dimension p

Partition	Dimensions a x p
ESP-DFH/4	97 x 51,5
ESP-DFH/1	64 x 42,5

Spring clamp terminal blocks

ESP-DFM partition insulation of cross connections - bridges

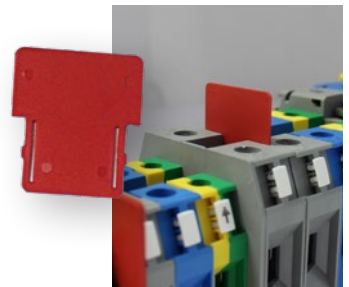
Red coloured in polyamide when it is necessary to guarantee the insulation distance between permanent or switchable cross connections, inserted between adjacent pairs of terminal blocks and, similarly, between multiple commoning bars, inserted between adjacent groups of terminal blocks.



Partition	Dimensions l x h [mm]	Thickness [mm]
ESP-DFM/500	4,6 x 13,5	0,5

Red insulation partition to be used in case of cross connections - bridges

Type	Code No.	Dimension (for use with)	Weight [g]	Packaging [pcs]
ESP-DFM/500	003903144	4,5 x 13 (ESP-HMM.1)	0,1	50



Cross connections Easy Bridge System

- screwless, snap-in insertion
- transversal and staggered mode connection possibility
- once inserted, intrinsically IPXXB protected resulting installation, without the need for further insulating covers
- patented system



1



2



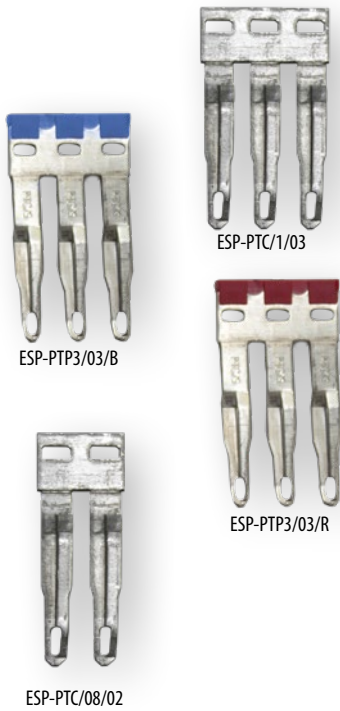
3

- 1-2 After having cut the bar according to the number of poles, insert the cross-connection, in the appropriate groove of the terminal block. At this point, by using the blade of a screwdriver, push down the cross-connection until it reaches its blocking point. The cross connection will be fully insulated and intrinsically IPXXB protected.
- 3 To remove the cross-connection, insert the blade of the screwdriver in the jumper slot, then lift it up and finally extract it.

Terminal block	2-pole jumper	3-pole jumper	10-pole jumper
ESP-HMM.1 (**)	ESP-PTC/1/02	ESP-PTC/1/03	ESP-PTC/1/10
ESP2-HMD.1	ESP-PTC/1/02	ESP-PTC/1/03	ESP-PTC/1/10
ESP-HMM.6	ESP-PTC/8/02		ESP-PTC/8/10
ESP-HMM.10	ESP-PTC/11/02		ESP-PTC/11/10
ESP-HMM.16	ESP-PTC/16/02		ESP-PTC/16/10

Insulated cross connection

Nr. Poles	PTP Series - Blue	PTP Series - Red
2	ESP-PTP/3/02/B	ESP-PTP/3/02/R
3	ESP-PTP/3/03/B	ESP-PTP/3/03/R
10	ESP-PTP/3/10/B	ESP-PTP/3/10/R
2	ESP-PTP/5/02/B	ESP-PTP/5/02/R
3	ESP-PTP/5/03/B	ESP-PTP/5/03/R
10	ESP-PTP/5/10/B	ESP-PTP/5/10/R



Cross connections - bridges

Type	Code No.	CROSS CONNECTIONS: nr. of poles, for use with, color	Weight [g]	Packaging [pcs]
ESP-PTC/1/02	003903145	2 POLE CROSS CONNECTION (ESP-HMM.1,ESP2-HMD.1)	1	25
ESP-PTC/1/03	003903146	3 POLE CROSS CONNECTION (ESP-HMM.1, ESP2-HMD.1)	1	25
ESP-PTC/1/10	003903147	10 POLE CROSS CONNECTION (ESP-HMM.1, ESP2-HMD.1)	3	10
ESP-PTP/3/02/R	003903148	2 POLE CROSS CONNECTION (ESP-HMM.2, ESP2-HMD.2) - RED	0,9	25
ESP-PTP/3/03/R	003903149	3 POLE CROSS CONNECTION (ESP-HMM.2, ESP2-HMD.2) - RED	1,4	25
ESP-PTP/3/10/R	003903150	10 POLE CROSS CONNECTION (ESP-HMM.2, ESP2-HMD.2) - RED	4,8	10
ESP-PTP/3/02/B	003903151	2 POLE CROSS CONNECTION (ESP-HMM.2, ESP2-HMD.2) - BLUE	0,9	25
ESP-PTP/3/03/B	003903152	3 POLE CROSS CONNECTION (ESP-HMM.2, ESP2-HMD.2) - BLUE	1,4	25
ESP-PTP/3/10/B	003903153	10 POLE CROSS CONNECTION (ESP-HMM.2, ESP2-HMD.2) - BLUE	4,8	10
ESP-PTP/5/02/R	003903154	2 POLE CROSS CONNECTION (ESP-HMM.4) - RED	1,3	25
ESP-PTP/5/03/R	003903155	3 POLE CROSS CONNECTION (ESP-HMM.4) - RED	1,9	25
ESP-PTP/5/10/R	003903156	10 POLE CROSS CONNECTION (ESP-HMM.4) - RED	6,4	10
ESP-PTP/5/02/B	003903157	2 POLE CROSS CONNECTION (ESP-HMM.4) - BLUE	1,3	25
ESP-PTP/5/03/B	003903158	3 POLE CROSS CONNECTION (ESP-HMM.4) - BLUE	1,9	25
ESP-PTP/5/10/B	003903159	10 POLE CROSS CONNECTION (ESP-HMM.4) - BLUE	6,4	10
ESP-PTC/8/02	003903160	2 POLE CROSS CONNECTION (ESP-HMM.6)	2	25
ESP-PTC/8/10	003903161	10 POLE CROSS CONNECTION (ESP-HMM.6)	12	10
ESP-PTC/11/02	003903162	2 POLE CROSS CONNECTION (ESP-HMM.10)	5	25
ESP-PTC/11/10	003903163	10 POLE CROSS CONNECTION (ESP-HMM.10)	12	10
ESP-PTC/16/02	003903164	2 POLE CROSS CONNECTION (ESP-HMM.16)	6	25
ESP-PTC/16/10	003903165	10 POLE CROSS CONNECTION (ESP-HMM.16)	12	10

Compatible also with two and three level spring terminal blocks

PTC jumper configurations

PTC / PTP cross-connection schemes						I _{max} (A)
	SINGLE OR PARALLEL EXTENDING	POLE SKIPPING	ADJACENT WITH BARRIER	STAGGERED MODE	PARALLEL SKIPPING	
Terminal block	Isolation voltage [V]					I _{max} (A)
ESP-HMM.1	630	630	320	630	630	17,5
ESP-HMM.2	630	630	320	630	630	24
ESP-HMM.4	500	500	500	500	500	32
ESP-HMM.6	500	500	500	500	500	41
ESP-HMM.10	1000	1000	800	1000	800	57
ESP-HMM.16	1000	1000	800	1000	800	76
ESP2-HMD.1	500	500	320	500	500	17,5
ESP2-HMD.2N	500	500	320	500	500	24
ESP3-HLD.2	500	500	500	500	500	24
ESP-HMS.2	630	500	-	-	-	24

When connecting groups of terminals of different potential, it is necessary to install jumper separators (ESC-DFM partition insulation of cross connections) to prevent electrical breakthrough and ensure the dielectric distance between plug-in jumpers. When installing the jumpers according to the scheme, the installation of the jumper separator is **mandatory!**

* between lower adjacent cross connections (with barrier)

** between upper adjacent cross connections (with barrier)

Common Screw And Spring Type Accessories

End bracket

ES-BTO

End bracket suitable for IEC 60715/TH35 rails (our Types PR/3); it is mounted directly in the desired position and does not require screw fixing. Particularly suitable if there are rail fixing screws with high heads:

- in black polyamide
- thickness: 8 mm

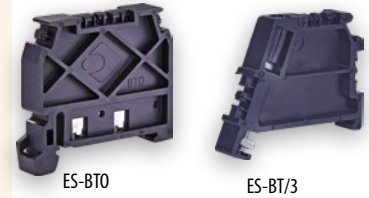
ES-BT/3

To be mounted on rails in accordance with the IEC 60715/TH35 standard (our Type PR/3). Requires screw fixing:

- in black polyamide
- thickness: 8 mm

End bracket

Type	Code No.	Description	Weight [g]	Packaging [pcs]
ES-BTO	003903075	End bracket for DIN rail	8	25
ES-BT/3	003903229	TH35	6	25

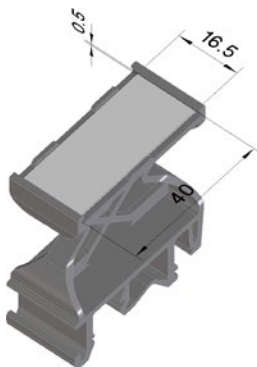


Marking tags

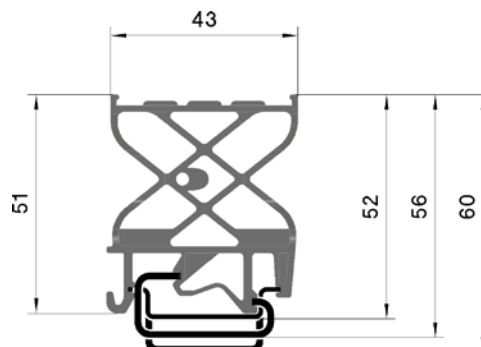
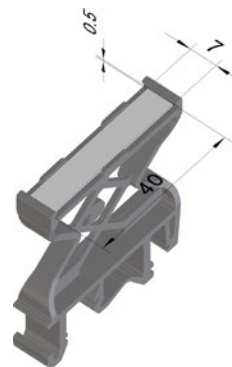
- Marking tags ES-NU0851 suitable for marking all Types of terminal blocks (screw-clamp and spring-clamp) in tables of 100 elements in packs of 500 tags; must be ordered in multiples of 100 pcs
- In white polycarbonate with black printing, to be applied directly into position either before or after preparing the terminal board; tag dimensions: 8 x 5.1 mm
- Marking tags ES-TAP1640AW: must be ordered in multiples of 150 pcs (1 plate).
- Marking tags ES-TAP407AW: must be ordered multiple of 360 pcs (1 plate).

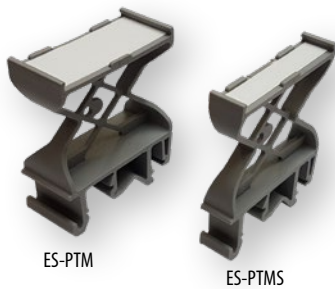
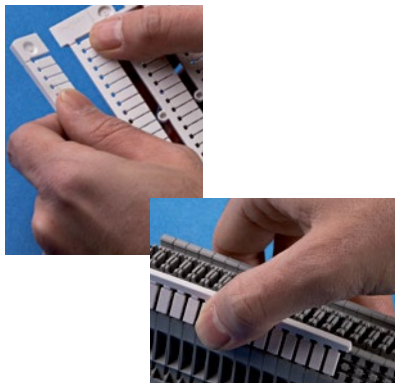
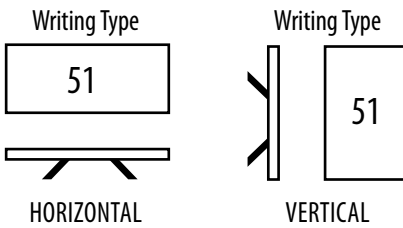
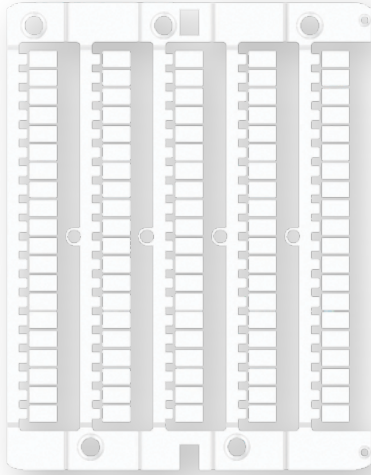
Dimensions

ES-PTM + ES-TA1640AW



ES-PTMS + ES-TA407AW





Marking tags for all Types of terminals with rated cross section 2,5mm²...240mm²

Type	Code No. / 1 pc	Description	Weight [g]	Packaging [pcs]
ES-NU0851	003903076	Blank tags	0,2	1500
ES-NU0851001	003903077	Tags no. 1 to 50	0,2	500
ES-NU0851051	003903078	Tags from 51 to 100	0,2	500
ES-NU0851101	003903079	Tags from 101 to 150	0,2	500
ES-NU0851151	003903080	Tags from 151 to 200	0,2	500
ES-NU0851201	003903081	Tags from 201 to 250	0,2	500
ES-NU0851251	003903082	Tags from 251 to 300	0,2	500
ES-NU0851301	003903083	Tags from 301 to 350	0,2	500
ES-NU0851351	003903084	Tags from 351 to 400	0,2	500
ES-NU0851401	003903085	Tags from 401 to 450	0,2	500
ES-NU0851451	003903086	Tags from 451 to 500	0,2	500
ES-NU0851501	003903087	Tags from 501 to 550	0,2	500
ES-NU0851551	003903088	Tags from 551 to 600	0,2	500
ES-NU0851601	003903089	Tags from 601 to 650	0,2	500
ES-NU0851651	003903090	Tags from 651 to 700	0,2	500
ES-NU0851701	003903091	Tags from 701 to 750	0,2	500
ES-NU0851751	003903092	Tags from 751 to 800	0,2	500
ES-NU0851801	003903093	Tags from 801 to 850	0,2	500
ES-NU0851851	003903094	Tags from 851 to 900	0,2	500
ES-NU0851901	003903095	Tags from 901 to 950	0,2	500
ES-NU0851951	003903096	Tags from 951 to 1000	0,2	500
ES-NU0851510	003903097	Tags from 1 to 10	0,2	500
ES-NU0851520	003903098	Tags from 11 to 20	0,2	500
ES-NU0851530	003903099	Tags from 21 to 30	0,2	500
ES-NU0851540	003903100	Tags from 31 to 40	0,2	500
ES-NU0851550	003903101	Tags from 41 to 50	0,2	500
ES-NU0851560	003903102	Tags from 51 to 60	0,2	500
ES-NU0851570	003903103	Tags from 61 to 70	0,2	500
ES-NU0851580	003903104	Tags from 71 to 80	0,2	500
ES-NU0851590	003903105	Tags from 81 to 90	0,2	500
ES-NU0851600	003903106	Tags from 91 to 100	0,2	500
ES-NU08510L1	003903107	Tags L1	0,2	500
ES-NU08510L2	003903108	Tags L2	0,2	500
ES-NU08510L3	003903109	Tags L3	0,2	500
ES-NU0851N	003903110	Tags N	0,2	500
ES-NU08510PE	003903111	Tags PE	0,2	500
ES-NU085110	003903112	Tags =	0,2	500
ES-NU085111	003903113	Tags +	0,2	500
ES-NU085112	003903114	Tags -	0,2	500
ES-NU085114	003903115	Tags earth	0,2	500
ES-NU0851R	003903116	Tags R	0,2	500
ES-NU0851S	003903117	Tags S	0,2	500
ES-NU0851T	003903118	Tags T	0,2	500
ES-NU0851UV	003903119	Tags U	0,2	500
ES-NU0851V	003903120	Tags V	0,2	500
ES-NU0851W	003903121	Tags W	0,2	500
ES-NU0851X	003903122	Tags X	0,2	500
ES-PTM	003903123	Support for markings (ES-TAP1640AW)	12,5	15
ES-PTMS	003903124	Support for markings (ES-TAP407AW)	6,4	36
ES-TAP1640AW	003903239	Blank marking (40 x 16 x 0,5 mm)	0,89	120
ES-TAP407AW	003903240	Blank marking (40 x 7 x 0,5 mm)	0,89	280
ES-NU1051S	003903232	Blank tags - used with SmartPrint printer	8	1500

Not compatible with HMM.1 (1,5mm² spring terminal blocks), use ESP-SHZ

Common Screw And Spring Type Accessories

ES-NU1051S - To be used with SmartPrint

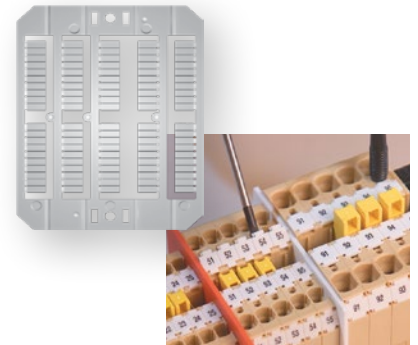
- Tags for terminal blocks CBC-CBD-HMM multiple mounting on CBC.2, single tags on all other sections
- Material: polycarbonate thickness 1.6 mm
- Working temperature: -40 ° /+80 ° C
- Rub resistance: CEI 16-7.

Numbering strips ESP-SHZ, ESP-SH004S

ESP-SHZ, ESP-SH004S numbering strips can be mounted on the sides of the terminal block or in the appropriate housings provided in the upper part of the terminal block itself.

Marking tags for spring terminals with rated cross section 1,5mm² (ESP-HMM.1, HTE.1)

Type	Code No.	Description	Weight [g]	Packaging [pcs]	Min order [pcs]
ESP-SHZ/1/1_10	003903196	Tags no. 1 to 10	0,2	500	100
ESP-SHZ/1/1_50	003903197	Tags no. 1 to 50	0,2	500	100
ESP-SHZ/1/51_100	003903198	Tags from 51 to 100	0,2	500	100
ESP-SH004S	003903238	Blank tags for Cabur HMM.1 terminal block - used with SmartPrint printer	8	1500	1500

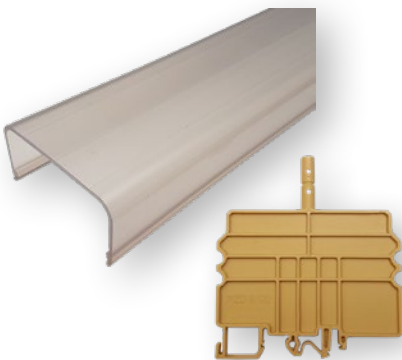


Additional covers for terminals and supports

Terminal blocks having a cross-section up to 70 mm² can be protected against accidental contacts or tampering, by means of a PVC transparent cover, supplied in a standard length of 2 m, to be mounted on appropriate polyamide supports and to be inserted on PR/DIN, PR/3, "G32" Type and TH/35 mounting rails. They can be fixed by sealing the support ends.

Features

- ES-PZM.4 cover suitable for terminal blocks with overall dimension up to approximately 58 mm (mounting rail included).
- ES-PZM.6 cover suitable for terminal blocks with overall dimension over 58 mm, (mounting rail included).



Additional covers for terminals and supports				
Type	Code No.	Description, for use with	Weight [g]	Packaging [pcs]
ES-PZM.4	003903200	Protection cover (2m, 66mm x 32 mm), ES-PZD.4/SO	410	2
ES-PZD.4/SO	003903201	Support for ES-PZM.4	14	20
ES-PZM.6	003903202	Protection cover (2m, 87mm x 36 mm), ES-PZD.6/SO	326	2
ES-PZD.6/SO	003903203	Support for ES-PZM.6	8,15	10

Technical data for ES-PZM Series

		ES-PZM.4	ES-PZM.6	ES-PZM.4 + ES-PZD.4/SO	ES-PZM.6 + ES-PZD.6/SO
Technical characteristics	Technical characteristics				
Dimensions	Type	(mm) a = 64+2 / b = 32	a = 85+2 / b = 36		
Mounted with support		ES-PZD.4/SO	ES-PZD.6/SO		
Maximum dimension:	(mm)				
on IEC 60715/G32 mounting rail				70 / 82 (*)	82 / 94 (*)
on IEC 60715/TH35 mounting rail				65 / 77 (*)	78 / 90 (*)

(*) depending on the notches used, upper or lower.

