

# Amphenol

## Terminal Blocks

### ES Series Ultra Miniature Wire to Board Terminal Blocks

#### Materials

Housing – 94V-0 Polyamide  
 Contact – Copper Alloy/TinLead  
 Clamp Screw – Copper Alloy/Ni finish

#### Features

Approvals – UR/CSA/TUV/CE  
 Technology – Moving Cage

#### Electrical

2.54mm (.100")  
 Current – 10A  
 Voltage – 150V  
 Insulation Ω – 10<sup>3</sup> Megaohms  
3.5mm  
 Current – 12A  
 Voltage – 300V  
 Insulation Ω – 10<sup>3</sup> Megaohms

#### Wire Range

2.54mm (.100")  
 Wire Range – #16~30AWG  
 Strip Length – 5mm  
 Tighten Torque – 0.13N-m  
3.5mm  
 Wire Range – #16~28AWG  
 Strip Length – 0.25" (6.35mm)  
 Tighten Torque – 0.25N-m

Desc	2.54mm Thru-Hole Right Angle	3.5mm Thru-Hole Right Angle	3.5mm SMT Right Angle		3.5mm SMT Right Angle		3.5mm Thru-Hole Vertical	
Representation								
Pos	Part Number		Part Number		Part Number		Part Number	
	Black	Black	Black	Green	Black	Green	Black	Green
2	ESDM02100	ESBM02100	SMXM02100	SMXM021G0	SMXM02101	SMXM021G1	ELXM02900	ELXM029G0
3	ESDM03100	ESBM03100	SMXM03100	SMXM031G0	SMXM03101	SMXM031G1	ELXM03900	ELXM039G0
4	ESDM04100	ESBM04100	SMXM04100	SMXM041G0	SMXM04101	SMXM041G1	ELXM04900	ELXM049G0
5	ESDM05100	ESBM05100	SMXM05100	SMXM051G0	SMXM05101	SMXM051G1	ELXM05900	ELXM059G0
6	ESDM06100	ESBM06100	SMXM06100	SMXM061G0	SMXM06101	SMXM061G1	ELXM06900	ELXM069G0
7	ESDM07100	ESBM07100	SMXM07100	SMXM071G0	SMXM07101	SMXM071G1	ELXM07900	ELXM079G0
8	ESDM08100	ESBM08100	SMXM08100	SMXM081G0	SMXM08101	SMXM081G1	ELXM08900	ELXM089G0
9	ESDM09100	ESBM09100	SMXM09100	SMXM091G0	SMXM09101	SMXM091G1	ELXM09900	ELXM099G0
10	ESDM10100	ESBM10100	SMXM10100	SMXM101G0	SMXM10101	SMXM101G1	ELXM10900	ELXM109G0
11	ESDM11100	ESBM11100	Screw Retention Type		Solder Retention Type		Suitable for Reflow Soldering Modular	
12	ESDM12100	ESBM12100						
13	Only available in Black	Modular						
Dim	H: 10mm W: 6.5mm L: Pos x 2.54+.046	H: 8.51mm W: 7.29mm L: Pos x 3.5	H: 11.43mm W: 7.95mm L: Pos x 3.5+7		H: 11.43mm W: 7.95mm L: Pos x 3.5+7		H: 7.95mm W: 11.43mm L: Pos x 3.5	

Height considered portion above PCB

### Multi-Tier Wire to Board Terminal Blocks

#### Materials

Housing – 94V-0 Polyamide  
 Contact – Copper Alloy/TinLead  
 Clamp Screw – Copper Alloy/Ni finish  
 Colour – Green (Black on request)

#### Features

Approvals – UR/CSA/TUV/CE  
 Technology – Moving Cage

#### Electrical

3.81mm (.100")  
 Current – 10A  
 Voltage – 150V  
 Insulation Ω – 10<sup>3</sup> Megaohms  
5mm/.200" (5.08MM)  
 Current – 24A  
 Voltage – 300V  
 Insulation Ω – 10<sup>3</sup> Megaohms

#### Wire Range

3.81mm (.100")  
 Wire Range – #16~30AWG  
 Strip Length – 5mm  
 Tighten Torque – 0.13N-m  
5mm/.200" (5.08MM)  
 Wire Range – #12~30AWG  
 Strip Length – 7mm  
 Tighten Torque – 0.5N-m

3.81mm High Density 3 Tier		5mm Low Profile 3 Tier		5mm Mid Profile 3 Tier		5mm Tall Profile 3 Tier		5.08mm Heavy Duty 4 Tier	
Pos	Part Number	Pos	Part Number	Pos	Part Number	Pos	Part Number	Pos	Part Number
6	EL3V061G00	6	ESLT06160	6	ESMT06160	6	ESTT06160	8	ESTT08270
9	EL3V091G00	9	ESLT09160	9	ESMT09160	9	ESTT09160	12	ESTT12270
12	EL3V121G00	12	ESLT12160	12	ESMT12160	12	ESTT12160	16	ESTT16270
15	EL3V151G00	15	ESLT15160	15	ESMT15160	15	ESTT15160	20	ESTT20270
18	EL3V181G00	18	ESLT18160	18	ESMT18160	18	ESTT18160	24	ESTT24270
21	EL3V211G00	21	ESLT21160	21	ESMT21160	21	ESTT21160	28	ESTT28270
24	EL3V241G00	24	ESLT24160	24	ESMT24160	24	ESTT24160	32	ESTT32270
27	EL3V271G00	27	ESLT27160	27	ESMT27160	27	ESTT27160	36	ESTT36270
30	EL3V301G00	30	ESLT30160	30	ESMT30160	30	ESTT30160	40	ESTT40270
For Black replace G with 0		33	ESLT33160	33	ESMT33160	33	ESTT33160	44	ESTT44270
		36	ESLT36160	36	ESMT36160	36	ESTT36160	48	ESTT48270
		Pos 6 & 9 are Modules that can be stacked side by side. 12 to 36 are Assemblies. Black only				Black only			
H: 30.99mm W: 25.02mm L: Pos / 3 x 3.81+1.91		H: 27.99mm W: 24.41mm L: Pos / 3 x 5+0.5		H: 35.61mm W: 25.4mm L: Pos / 3 x 5+0.5		H: 45.01mm W: 34.01mm L: Pos / 3 x 5+0.5		H: 58.8mm W: 48.79mm L: Pos / 4 x 5.08+4.9	

PCD

Height considered portion above PCB