salzer

terminal
connectors

Index

Contents	Page

Contents	Page

Product Finder

SCRW2.5U

Page 2

SCRW4U

Page 2

SCRW6U

Page 2

SCRW10U

Page 3

SCRW16U

Page 3

SCRW25U

Page 3

STANDARD FEED-THROUGH, SCREW CLAMP TERMINALS

SCRW35U

Page 3

SCRW2.5UCR

Page 4

SCRW4UCR

Page 4

SCRW6UCR

Page 4

SCRW10UCR

Page 5

SCRW16UCR

Page 5

FEED-THROUGH, SCREW CLAMP TERMINALS FOR HIGHLY CORROSIVE AND EXPLOSIVE ENVIRONMENT

SCRW25UCR

Page 5

SCRW35UCR

Page 5

CAGE2.5

Page 6

CAGE4

Page 6

CAGE6

Page 6

CAGE2.5 1-2/2-2

Page 7

STANDARD FEED-THROUGH, SPRING CLAMP TERMINALS

CAGE4 1-2/2-2

Page 7

CAGE6 1-2/2-2

Page 8

MULTIPLE CONNECTION, FEED-THROUGH SPRING CLAMP TERMINALS

SCRW4U 1-2/2-2

Page 9

MULTIPLE CONNECTION, FEED-THROUGH SCREW CLAMP TERMINALS

M4/S

Page 10

MICRO, FEED-THROUGH TERMINALS

DBL4U

Page 11

DBL4U(I.S)

Page 11

DOUBLE LEVEL, FEED-THROUGH TERMINALS

DBLOFF4U

Page 12

OFFSET DOUBLE LEVEL, FEED-THROUGH TERMINALS

TL2.5U#

Page 13

TL2.5UH/L

Page 13

TRIPLE LEVEL, FEED-THROUGH TERMINALS

P4

Page 14

PANEL MOUNT SCREW CLAMP TERMINALS

CAGEP2.5

Page 14

CAGEP2.5 2-2

Page 14

PANEL MOUNT SPRING CLAMP TERMINALS

G4

Page 15

G10

Page 15

G35

Page 16

GM4

Page 16

GROUNDING (EARTH) TERMINALS

CAGEG2.5

Page 17

CAGEG4

Page 17

SPRING CLAMP GROUND TERMINALS

Product Finder (continued)

CAGEG6	GN4, GN16	GN35	DISBL4	DISBL4(1)	DISBL6
Page 17	Page 18	Page 18	Page 19	Page 19	Page 20

PANEL MOUNT, NEUTRAL/EARTH SCREW CLAMP BUSBAR SYSTEMS

DISTRIBUTION BLOCKS

DISBL10	F4U	F4U(L)	FDBL4U	FDBL4UE	FDBL4UE(LR)
Page 20	Page 21	Page 21	Page 22	Page 22	Page 22

SAFETY FUSE LINK TERMINALS

FA4U	F6U	DISCT6U	KN4U	DISCTL4U	DISCT6US
Page 22	Page 23	Page 24	Page 24	Page 24	Page 25

DISCONNECT & TEST TERMINALS

DISCTL6U	DBLDISCTL4U	TAB4U	SCRW4UTAB	SCRW4UCLIP	DBL4UCLIP
Page 25	Page 24	Page 26	Page 26	Page 27	Page 27

TAB CONNECTION TERMINALS

CLIP TERMINALS BLOCKS

DBL4UED1/D2/D3	DBL4UEDD1/DD2/DD3/DD4	DBL4UED4/DD5	DBL4UEN1, DBL4UELD3/4/5	DBL4UELD1/LD2 DBL4UEL1/L2	DBL4U(O)
Page 28	Page 29	Page 29	Page 30	Page 31	Page 31

TERMINALS WITH ELECTRONIC COMPONENTS

PCBM5H/A/V	PCB5	PCB7.5	PCBDBL11	SCRW50U	SCRW95U
Page 32-33	Page 33	Page 33	Page 33	Page 34	Page 34

PRINTED CIRCUIT BOARD MODULAR TERMINALS

HIGH CURRENT, FEED-THROUGH SCREW CLAMP TERMINALS

DBL4UELA/3LA	DBL4UEMOV	DBL4UESD/RC/RS	TH2.5U	End Clamps/Stop	Rails
Page 35	Page 36	Page 36	Page 37	Page 39	Page 39

ACTIVE TERMINAL BLOCKS

THERMOCOUPLE TERMINAL BLOCKS

Mounting Bracket	End Plates	Partition Plates	Shorting Links, Sleeves	Pre-Assembled Shorting Links
Page 39	Page 40	Page 41	Page 41	Page 41

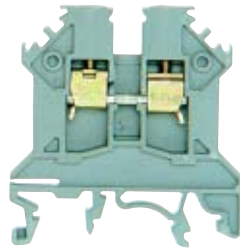| Comb Links, Insulated Push-In Shorting Links	Markers & Marker Plotter	Technical Details
Page 41 - 42	Page 43 - 44	Page 45

1

Standard, Feed-Through Screw Clamp Terminals

The "U" Series, universal rail mounting, standard screw clamp, feed through terminals are the most versatile for wire-to-wire connections for control, automation, industrial and powe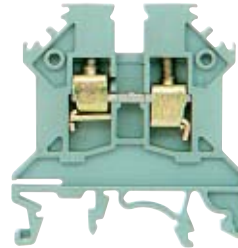r distribution applications. The terminals mount on DIN 32, DIN 35 and DIN 35-15 rails. A special design feature of the flexible foot enables easy mounting and dismounting from the DIN rail with a screwdriver.
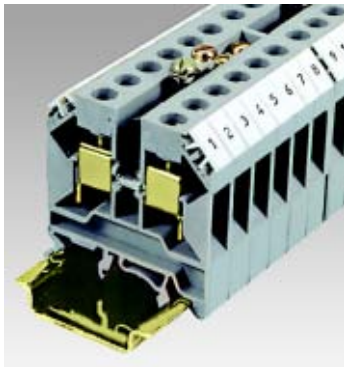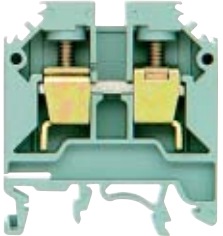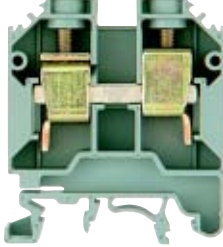

		SCRW2.5U			SCRW4U			SCRW6U		
Terminal Pitch		5 mm			6 mm			8 mm		
Height x Width		45 x 43 mm			45 x 43 mm			47 x 43 mm		
Connection Possibility — Stranded Wire / Solid Wire		0.5 to 2.5 sq.mm / 0.5 to 4 sq.mm			0.5 to 4 sq.mm / 0.5 to 6 sq.mm			1.5 to 6 sq.mm / 1.5 to 10 sq.mm		
Stripping Length		9 mm			9 mm			12 mm		
Insulation Material		Polyamide 6.6			Polyamide 6.6			Polyamide 6.6		
Type of Connection		2 screw clamps and 1 tapped hole for cross connection			2 screw clamps and 1 tapped hole for cross connection			2 screw clamps and 1 tapped hole for cross connection		
Approvals		cSLus / CE / VDE		cULus	cSLus / CE / VDE		cULus	cSLus / CE / VDE		cULus
Rated Cross Section		22-14 AWG	0.5-2.5sq.mm	22-14 AWG	22-12 AWG	0.5 - 4 sq.mm	22-10 AWG	22-8 AWG	1.5-6 sq.mm	22-8 AWG
Voltage Rating		600 V	750 V	600 V	600 V	750 V	600 V	600 V	750 V	600 V
Current Rating		20 A	24 A	20 A	25 A	32 A	35 A**	50 A	41 A	50 A
Torque		7 lb-in	0.4 Nm	7 lb-in	7 lb-in	0.5 Nm	7 lb-in	9 lb-in	0.8 Nm	14 lb-in

		Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station		SCRW2.5U	100	6	SCRW4U	100	7.6	SCRW6U	100	13
End Plate		EPSCRW2.5U/4U	50	1.7	EPSCRW2.5U/4U	50	1.7	EPSCRW6U/10U	50	2.2
Partition Plate		PPSCRW2.5U/4U	50	2.3	PPSCRW2.5U/4U	50	2.3	PPSCRW6U/10U	50	2.9
Mounting Rail		DIN 32G / DIN 35U / DIN 35-15D	50 M / 50 M / 50 M	750 / 360 / 700	DIN 32G / DIN 35U / DIN 35-15D	50 M / 50 M / 50 M	750 / 360 / 700	DIN 32G / DIN 35U / DIN 35-15D	50 M / 50 M / 50 M	750 / 360 / 700
End Clamp		ES1S / ES2S / ES3S / ES2N / ES3N	50 / 50 / 50 / 50 / 50	15.3 / 15.1 / 7.0 / 7.4 / 4.5	ES1S / ES2S / ES3S / ES2N / ES3N	50 / 50 / 50 / 50 / 50	15.3 / 15.1 / 7.0 / 7.4 / 4.5	ES1S / ES2S / ES3S / ES2N / ES3N	50 / 50 / 50 / 50 / 50	15.3 / 15.1 / 7.0 / 7.4 / 4.5
Pre Assembled Shorting Links — 2 way / 3 way / 4 way / 10 way		PASL05/2 / PASL05/3 / PASL05/4 / PASL05/10	10 / 10 / 10 / 10	1.3 / 1.5 / 1.7 / 11	PASL06/2 / PASL06/3 / PASL06/4 / PASL06/10	10 / 10 / 10 / 10	2.2 / 3.2 / 3.9 / 11.5	PASL08/2 / PASL08/3 / PASL08/4 / PASL08/10	10 / 10 / 10 / 10	3.1 / 3.5 / 4.3 / 30
Permanent Shorting Link — 2 way / 3 way / 4 way / 10 way		PSL05/2 / PSL05/3 / PSL05/4 / PSL05/10	100 / 100 / 100 / 100	0.3 / 0.4 / 0.5 / 1.4	PSL06/2 / PSL06/3 / PSL06/4 / PSL06/10 / *PASL/10A	100 / 100 / 100 / 100 / 100	0.3 / 0.5 / 0.7 / 1.7 / 1.53	PSL08/2 / PSL08/3 / PSL08/4 / PSL08/10	100 / 100 / 100 / 100	0.5 / 0.9 / 1.35 / 3.25
Short Sleeve for quick Permanent Shorting		SS02	100	1.16	SS02	100	1.16	SS03	100	2.64
Removable Shorting Link		RSL5	100	0.2	RSL6	100	0.25	RSL8	100	0.51
Long Sleeve for quick Temporary Shorting		SL04	100	1.75	SL04	100	1.73	SL02	100	3.69
Comb Link — 2 way / 3 way / 4 way / 10 way					CL6/2 / CL6/3 / CL6/4 / CL6/10	100 / 100 / 100 / 50	1.2 / 1.8 / 2.4 / 6.0			
Marking Tags (K Type)		KM/5	100	0.07	KM/6	100	0.1	KM/8	100	0.12

* 10 way breakable shorting link.
** 40A with 2 Nos of 12AWG wire,
   35A with 1No of 10 AWG wire

The terminals are suitable for wire size of 0.5 to 35 sq.mm. (22 - 1/0 AWG) and accept international 'K' type markers.
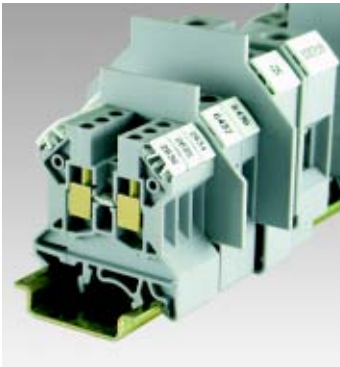
Wide range of accessories further improve the flexibility for wider applications. Shorting links and sleeves can be used for cross connections.

SCRW10U

- 10 mm
- 47 x 43 mm
- 1.5 to 10 sq.mm
- 1.5 to 16 sq.mm
- 12 mm
- Polyamide 6.6
- 2 screw clamps and 1 tapped hole for cross connection

15-7 AWG	1.5-10 sq.mm	16-6 AWG
600 V	750 V	600 V
65 A	57 A	65 A
14 lb-in	1.2 Nm	14 lb-in

Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
SCRW10U	100	17.5
EPSCRW6U/10U	50	2.2
PPSCRW6U/10U	50	2.9
DIN 32G	50 M	750
DIN 35U	50 M	360
DIN 35-15D	50 M	700
ES1S	50	15.3
ES2S	50	15.1
ES3S	50	7.0
ES2N	50	7.4
ES3N	50	4.5
PASL10/2	10	6.4
PASL10/3	10	9.6
PASL10/4	10	13
PASL10/10	10	32.4
PSL10/2	100	0.95
PSL10/3	100	1.5
PSL10/4	100	2.2
PSL10/10	100	5.4
SS03	100	2.64
RSL10	100	0.75
SL02	100	3.7
KM/10	100	0.16

SCRW16U

- 12 mm
- 47 x 43 mm
- 2.5 to 16 sq.mm
- 2.5 to 25 sq.mm
- 16 mm
- Polyamide 6.6
- 2 screw clamps and 1 tapped hole for cross connection

CSA Standard	CE	UL Standard
14-6 AWG	2.5-16 sq.mm	14-6 AWG
600 V	750 V	600 V
70 A	76 A	70 A
14 lb-in	2.0 Nm	14 lb-in

Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
SCRW16U	50	25
SPSCRW16U	100	
DIN 32G	50 M	760
DIN 35U	50 M	360
DIN 35-15D	50 M	700
ES1S		
ES2S		
ES2N	50	7.4
ES3N	50	4.5
ES3S		
PASL12/2A	100	6.4
PASL12/3A	50	9.6
PASL12/4A	50	13
PASL12/10A	10	32.4
PSL12/2A	100	
PSL12/3A	100	
PSL12/4A	100	
PSL12/10A	10	
SS05	50	2.64
RSL12	100	0.75
SL05	50	3.7
KM/12	100	0.16
KM/9F	10	

SCRW25U

- 12 mm
- 56 x 49.5 mm
- 6 to 25 sq.mm
- 6 to 35 sq.mm
- 18 mm
- Polyamide 6.6
- 2 screw clamps and 1 tapped hole for cross connection

9-3 AWG	6-25 sq.mm	14-2 AWG
600 V	750 V	600 V
115 A	101 A	115 A
14 lb-in	2.0 Nm	14 lb-in

Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
SCRW25U	50	35
EPSCRW25U	50	2.4
PPSCRW25U	50	4.2
DIN 32G	50 M	750
DIN 35U	50 M	360
DIN 35-15D	50 M	700
ES1S	50	15.3
ES2S	50	15.1
ES3S	50	7.0
ES2N	50	7.4
ES3N	50	4.5
PASL12/2	10	11.6
PASL12/3	10	17.8
PASL12/4	10	24.1
PASL12/10	10	60.4
PSL12/2	100	1.5
PSL12/3	100	2.5
PSL12/4	100	3.7
PSL12/10	100	8.9
SS04	50	5.15
RSL12A	100	1.2
SL03	50	7.39
KM/12	100	0.2

SCRW35U

- 15 mm
- 58 x 52.5 mm
- 10 to 35 sq.mm
- 10 to 50 sq.mm
- 18 mm
- Polyamide 6.6
- 2 screw clamps and 1 tapped hole for cross connection

7-2 AWG	10-35sq.mm	18-1/0 AWG
600 V	750 V	600 V
145 A	125 A	145 A
25 lb-in	2.5 Nm	25 lb-in

Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
SCRW35U	50	49
EPSCRW35U	50	3.6
PPSCRW35U	50	4.9
DIN 32G	50 M	750
DIN 35U	50 M	360
DIN 35-15D	50 M	700
ES1S	50	15.3
ES2S	50	15.1
ES3S	50	7.0
ES2N	50	7.4
ES3N	50	4.5
PASL15/2	10	12.2
PASL15/3	10	18.8
PASL15/4	10	25.5
PASL15/10	10	63.4
PSL15/2	100	1.9
PSL15/3	100	3.5
PSL15/4	100	5
PSL15/10	100	11.9
SS04	50	5.15
RSL15	100	1.7
SL03	50	7.39
KM/15	100	0.24

Feed-Through Screw Clamp Terminals for Highly Corrosive Environment

The "U" Series, universal rail mounting terminal blocks for highly corrosive environment comply to the international standards, with carefully selected insulat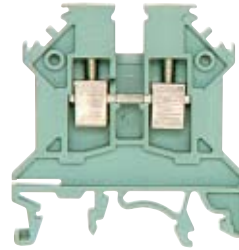ing material for shell and copper/copper alloy with appropriate surface protection for fail-proof clamping parts. With right materials, process and surface protection treatment; seasoned cracking is eliminated. The terminal blocks comply to '**Corrosion Cracking Test**'
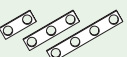
	SCRW2.5UCR			SCRW4UCR			SCRW6UCR		
Terminal Pitch	5 mm			6 mm			8 mm		
Height x Width	45 x 43 mm			45 x 43 mm			47 x 43 mm		
Connection Possibility — Stranded Wire	0.5 to 2.5 sq.mm 0.5 to 4 sq.mm			0.5 to 4 sq.mm 0.5 to 6 sq.mm			1.5 to 6 sq.mm 1.5 to 10 sq.mm		
Stripping Length	9 mm			9 mm			12 mm		
Insulation Material	Polyamide 6.6			Polyamide 6.6			Polyamide 6.6		
Type of Connection	2 screw clamps and 1 tapped hole for cross connection			2 screw clamps and 1 tapped hole for cross connection			2 screw clamps and 1 tapped hole for cross connection		
Approvals*	CSA Standard	CE	UL Standard	CSA Standard	CE	UL Standard	CSA Standard	CE	UL Standard
Rated Cross Section	22-14 AWG	0.5-2.5sq.mm	22-14 AWG	22-12 AWG	0.5 - 4 sq.mm	22-12 AWG	22-8 AWG	1.5-6 sq.mm	22-8 AWG
Voltage Rating	600 V	750 V	600 V	600 V	750 V	600 V	600 V	750 V	600 V
Current Rating	20 A	24 A	20 A	25 A	32 A	25 A	50 A	41 A	50 A
Torque	7 lb-in	0.4 Nm	7 lb-in	7 lb-in	0.5 Nm	7 lb-in	9 lb-in	0.8 Nm	14 lb-in

	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station	SCRW2.5UCR	100	6	SCRW4UCR	100	7.6	SCRW6UCR	100	13
End Plate	EPSCRW2.5U/4U	50	1.7	EPSCRW2.5U/4U	50	1.7	EPSCRW6U/10U	50	2.2
Partition Plate	PPSCRW2.5U/4U	50	2.3	PPSCRW2.5U/4U	50	2.3	PPSCRW6U/10U	50	2.9
Mounting Rail	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700
End Clamp	ES1S ES2S ES3S ES2N ES3N	50 50 50 50 50	15.3 15.1 7.0 7.4 4.5	ES1S ES2S ES3S ES2N ES3N	50 50 50 50 50	15.3 15.1 7.0 7.4 4.5	ES1S ES2S ES3S ES2N ES3N	50 50 50 50 50	15.3 15.1 7.0 7.4 4.5
Pre Assembled Shorting Links — 2 way / 3 way / 4 way / 10 way	PASL05/2 PASL05/3 PASL05/4 PASL05/10	10 10 10 10	1.3 1.5 1.7 11	PASL06/2 PASL06/3 PASL06/4 PASL06/10	10 10 10 10	2.2 3.2 3.9 11.5	PASL08/2 PASL08/3 PASL08/4 PASL08/10	10 10 10 10	3.1 3.5 4.3 30
Permanent Shorting Link — 2 way / 3 way / 4 way / 10 way	PSL05/2 PSL05/3 PSL05/4 PSL05/10	100 100 100 100	0.3 0.4 0.5 1.4	PSL06/2 PSL06/3 PSL06/4 *PSL06/10	100 100 100 100	0.3 0.5 0.7 1.7	PSL08/2 PSL08/3 PSL08/4 PSL08/10	100 100 100 100	0.5 0.9 1.35 3.25
Short Sleeve for quick Permanent Shorting	SS02	100	1.16	SS02	100	1.16	SS03	100	2.64
Removable Shorting Link	RSL5	100	0.2	RSL6	100	0.25	RSL8	100	0.51
Long Sleeve for quick Temporary Shorting	SL04	100	1.75	SL04	100	1.73	SL02	100	3.69
Comb Link — 2 way / 3 way / 4 way / 10 way				CL6/2 CL6/3 CL6/4 CL6/10	100 100 100 50	1.2 1.8 2.4 6.0			
Marking Tags (K Type)	KM/5	100	0.07	KM/6	100	0.1	KM/8	100	0.12

* Proposed ratings as per CSA and UL standards.
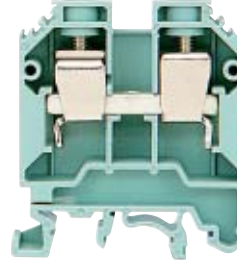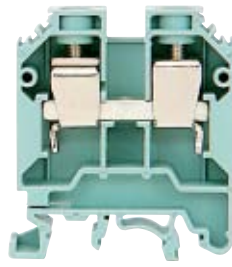
*10 way breakable shorting link.

as per **CSA C 22.2 No.158 standard**. These terminals ensure superior performance in corrosive conditions, compared to most other components used in the cabinets, switchboards and control boxes.

SCRW10UCR

- 10 mm
- 47 x 43 mm
- 1.5 to 10 sq.mm
- 1.5 to 16 sq.mm
- 12 mm
- Polyamide 6.6
- 2 screw clamps and 1 tapped hole for cross connection

CSA Standard	CE	UL Standard
15-7 AWG	1.5-10 sq.mm	16-6 AWG
600 V	750 V	600 V
65 A	57 A	65 A
14 lb-in	1.2 Nm	14 lb-in

Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
SCRW10UCR	100	17.5
EPSCRW6U/10U	50	2.2
PPSCRW6U/10U	50	2.9
DIN 32G	50 M	750
DIN 35U	50 M	360
DIN 35-15D	50 M	700
ES1S	50	15.3
ES2S	50	15.1
ES3S	50	7.0
ES2N	50	7.4
ES3N	50	4.5
PASL10/2	10	6.4
PASL10/3	10	9.6
PASL10/4	10	13
PASL10/10	10	32.4
PSL10/2	100	0.95
PSL10/3	100	1.5
PSL10/4	100	2.2
PSL10/10	100	5.4
SS03	100	2.64
RSL10	100	0.75
SL02	100	3.7
KM/10	100	0.16

SCRW16UCR

- 12 mm
- 47 x 43 mm
- 2.5 to 16 sq.mm
- 2.5 to 25 sq.mm
- 16 mm
- Polyamide 6.6
- 2 screw clamps and 1 tapped hole for cross connection

CSA Standard	CE	UL Standard
14-6 AWG	2.5-16 sq.mm	14-6 AWG
600 V	750 V	600 V
70 A	76 A	70 A
14 lb-in	2.0 Nm	14 lb-in

Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
SCRW16UCR	50	25
SPSCRW16U	100	
DIN 32G	50 M	760
DIN 35U	50 M	360
DIN 35-15D	50 M	700
ES1S		
ES2S		
ES2N	50	7.4
ES3N	50	4.5
ES3S		
PASL12/2A	100	6.4
PASL12/3A	50	9.6
PASL12/4A	50	13
PASL12/10A	10	32.4
PSL12/2A	100	
PSL12/3A	100	
PSL12/4A	100	
PSL12/10A	10	
SS05	50	2.64
RSL12	100	0.75
SL05	50	3.7
KM/12	100	0.16
KM/9F	10	

SCRW25UCR

- 12 mm
- 56 x 49.5 mm
- 6 to 25 sq.mm
- 6 to 35 sq.mm
- 18 mm
- Polyamide 6.6
- 2 screw clamps and 1 tapped hole for cross connection

CSA Standard	CE	UL Standard
9-3 AWG	6-25 sq.mm	14-2 AWG
600 V	750 V	600 V
115 A	101 A	115 A
14 lb-in	2.0 Nm	14 lb-in

Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
SCRW25UCR	50	35
EPSCRW25U	50	2.4
PPSCRW25U	50	4.2
DIN 32G	50 M	750
DIN 35U	50 M	360
DIN 35-15D	50 M	700
ES1S	50	15.3
ES2S	50	15.1
ES3S	50	7.0
ES2N	50	7.4
ES3N	50	4.5
PASL12/2	10	11.6
PASL12/3	10	17.8
PASL12/4	10	24.1
PASL12/10	10	60.4
PSL12/2	100	1.5
PSL12/3	100	2.5
PSL12/4	100	3.7
PSL12/10	100	8.9
SS04	50	5.15
RSL12A	100	1.2
SL03	50	7.39
KM/12	100	0.2

SCRW35UCR

- 15 mm
- 58 x 52.5 mm
- 10 to 35 sq.mm
- 10 to 50 sq.mm
- 18 mm
- Polyamide 6.6
- 2 screw clamps and 1 tapped hole for cross connection

CSA Standard	CE	UL Standard
7-2 AWG	10-35 sq.mm	18-1/0 AWG
600 V	750 V	600 V
145 A	125 A	145 A
25 lb-in	2.5 Nm	25 lb-in

Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
SCRW35UCR	50	49
EPSCRW35U	50	3.6
PPSCRW35U	50	4.9
DIN 32G	50 M	750
DIN 35U	50 M	360
DIN 35-15D	50 M	700
ES1S	50	15.3
ES2S	50	15.1
ES3S	50	7.0
ES2N	50	7.4
ES3N	50	4.5
PASL15/2	10	12.2
PASL15/3	10	18.8
PASL15/4	10	25.5
PASL15/10	10	63.4
PSL15/2	100	1.9
PSL15/3	100	3.5
PSL15/4	100	5
PSL15/10	100	11.9
SS04	50	5.15
RSL15	100	1.7
SL03	50	7.39
KM/15	100	0.24

Standard, Feed-Through Spring Clamp Terminals

In certain applications, with smaller cross section wires, "screw-less" spring clamp terminals are preferred.

In screw clamp terminals, it is the screw clamp that holds the wire against the current bar, whereas in spring clamp terminals, the wire is held against the current bar directly by a pre-stressed spring clamp.

The pre-stressed spring clamp is opened by using an appropriate screw driver to provide access to wire through the opening in the spring clamp. The conductor is pulled against the current bar and gets clamped by the spring force when the screw driver is removed. The recommended blade size of the screw driver is 3mm × 0.6mm, 3.5mm × 0.6mm and 4.5mm × 0.8mm for CAGE2.5, CAGE4 and CAGE6 terminals respectively.
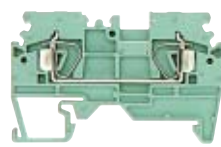
Spring clamp terminals have top wire entry and are suitable for mounting on DIN 35 and DIN 35-15 rails.

Insulated push-in type shorting link wire, besides providing shock protection, simplifies the task of cross connection.
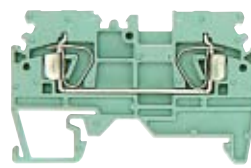
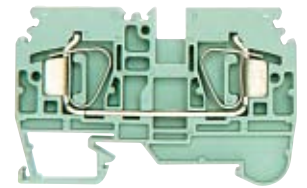The terminals have marker holding recesses to accept international "K" type markers.

	CAGE2.5			CAGE4			CAGE6		
Terminal Pitch	5 mm			6 mm			8 mm		
Height x Width	36 x 58 mm			42 x 65 mm			45 x 72 mm		
Connection Possibility — Stranded Wire / Solid Wire	0.5 - 2.5 sq. mm 0.5 - 4 sq. mm			0.5 - 4 sq. mm 0.5 - 6 sq. mm			0.5 - 6 sq. mm 0.5 - 10 sq. mm		
Stripping Length	9 mm			9 mm			12 mm		
Insulation Material	Polyamide 6.6			Polyamide 6.6			Polyamide 6.6		
Type of Connection	2 Spring clamp connection and 2 slots for interconnection			2 Spring clamp connection and 2 slots for interconnection			2 Spring clamp connection and 2 slots for interconnection		
Standards	cSUs	CE VDE	cRUus	cSUs	CE VDE	cRUus	cSUs	CE VDE	cRUus
Rated Cross Section	22-14 AWG	2.5 sq. mm	22-14 AWG	22-12 AWG	4 sq. mm	22-12 AWG	22-8 AWG	6 sq. mm	22-8 AWG
Voltage Rating	600 V	750 V	600 V	600 V	750 V	600 V	600 V	750 V	600 V
Current Rating	20 A	24 A	20 A	25 A	32 A	25 A	50 A	41 A	50 A

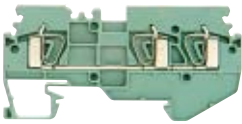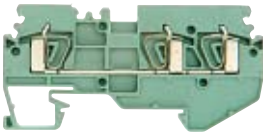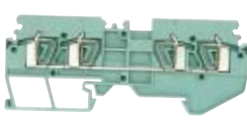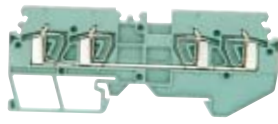|	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station	CAGE2.5	100	5.7	CAGE4	100	10	CAGE6	50	15
End Plate	EPCAGE2.5	50	2.5	EPCAGE4	50	4.5	EPCAGE6	50	6.5
Partition Plate	PPCAGE2.5	50	3.5	PPCAGE4	50	5.5	PPCAGE6	50	7.5
Mounting Rail	DIN 35U DIN 35-15D	50 M 50 M	360 700	DIN 35U DIN 35-15D	50 M 50 M	360 700	DIN 35U DIN 35-15D	50 M 50 M	360 700
End Clamp	ES1S ES2S ES2N ES3N	50 50 50 50	15.3 15.1 7.4 4.5	ES1S ES2S ES2N ES3N	50 50 50 50	15.3 15.1 7.4 4.5	ES1S ES2S ES2N ES3N	50 50 50 50	15.3 15.1 7.4 4.5
Insulated Push-In type Shorting Link (2 way) — Consecutive / Alternate	SL-PUSHIN5 SL-PUSHIN5A	100 100	1.2 2.2	SL-PUSHIN6 SL-PUSHIN6A	100 100	3 5	SL-PUSHIN8 SL-PUSHIN8A	100 100	4 6
Insulated Push-In type Shorting Link Wire Current Rating : 10A, wire length 110mm.	SL-PUSHIN5B	100	3	SL-PUSHIN6B	100	5	-	-	-
Marking Tags (K Type)	KM/5	100	0.1	KM/6	100	0.1	KM/8	100	0.1

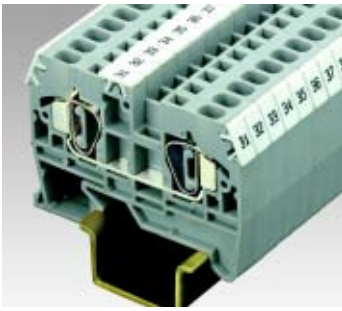# Multiple Connection, Feed-Through Spring Clamp Terminals

The multiple connection spring clamp terminals offer reliable solution for multiple wire connections. The terminal eliminates conventional cross connections, looping wires and reliability problems encountered when connecting two wires in one clamp.

The terminals provide multiple connection points in the terminal itself and possibility of further multiplication of connections through bridging.

The multiple connection terminal blocks can even be bridged to standard feed through spring clamp terminal blocks of same wire size.

CAGE2.5 1-2 and CAGE4 1-2 feature one termination point on one side and two termination points on the other side, while CAGE2.5 2-2 and CAGE4 2-2 have two termination points on both sides. Bridging facility is at the centre of the terminals.

	CAGE2.5 1-2	CAGE4 1-2	CAGE2.5 2-2	CAGE4 2-2
	5 mm	6 mm	5 mm	6 mm
	36 x 74 mm	42 x 84.6 mm	36 x 89.8 mm	42 x 105 mm
	0.5 - 2.5 sq. mm / 0.5 - 4 sq. mm	0.5 - 4 sq. mm / 0.5 - 6 sq. mm	0.5 - 2.5 sq. mm / 0.5 - 4 sq. mm	0.5 - 4 sq. mm / 0.5 - 6 sq. mm
	9 mm	9 mm	9 mm	9 mm
	Polyamide 6.6	Polyamide 6.6	Polyamide 6.6	Polyamide 6.6
	3 Spring clamp connections and 2 slots for interconnection	3 Spring clamp connections and 2 slots for interconnection	4 Spring clamp connections and 2 slots for interconnection	4 Spring clamp connections and 2 slots for interconnection

CAGE2.5 1-2			CAGE4 1-2			CAGE2.5 2-2			CAGE4 2-2		
CSA Standard	CE	c RU us	CSA Standard	CE	c RU us	CSA Standard	CE	c RU us	CSA Standard	CE	c RU us
22-14 AWG	2.5 sq. mm	22-14 AWG	22-12 AWG	4 sq. mm	22-12 AWG	22-14 AWG	2.5 sq. mm	22-14 AWG	22-12 AWG	4 sq. mm	22-12 AWG
600 V	750 V	600 V	600 V	750 V	600 V	600 V	750 V	600 V	600 V	750 V	600 V
20 A	24 A	20 A	25 A	32 A	25 A	20 A	24 A	20 A	25 A	32 A	25 A

Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
CAGE2.5 1-2	100	9	CAGE4 1-2	100	15	CAGE2.5 2-2	100	12	CAGE4 2-2	100	20
EPCAGE2.5 1-2	50	2	EPCAGE4 1-2	50	3	EPCAGE2.5 2-2	50	4	EPCAGE4 2-2	50	6
PPCAGE2.5 1-2	50	3	PPCAGE4 1-2	50	4	PPCAGE2.5 2-2	50	5	PPCAGE4 2-2	50	7
DIN 35U / DIN 35-15D	50 M / 50 M	360 / 700	DIN 35U / DIN 35-15D	50 M / 50 M	360 / 700	DIN 35U / DIN 35-15D	50 M / 50 M	360 / 700	DIN 35U / DIN 35-15D	50 M / 50 M	360 / 700
ES1S / ES2S / ES2N / ES3N	50 / 50 / 50 / 50	15.3 / 15.1 / 7.4 / 4.5	ES1S / ES2S / ES2N / ES3N	50 / 50 / 50 / 50	15.3 / 15.1 / 7.4 / 4.5	ES1S / ES2S / ES2N / ES3N	50 / 50 / 50 / 50	15.3 / 15.1 / 7.4 / 4.5	ES1S / ES2S / ES2N / ES3N	50 / 50 / 50 / 50	15.3 / 15.1 / 7.4 / 4.5
SL-PUSHIN5 / SL-PUSHIN5A	100 / 100	1.2 / 2.2	SL-PUSHIN6 / SL-PUSHIN6A	100 / 100	3 / 5	SL-PUSHIN5 / SL-PUSHIN5A	100 / 100	1.2 / 2.2	SL-PUSHIN6 / SL-PUSHIN6A	100 / 100	3 / 5
SL-PUSHIN5B	100	3	SL-PUSHIN6B	100	5	SL-PUSHIN5B	100	3	SL-PUSHIN6B	100	5
KM/5	100	0.1	KM/6	100	0.1	KM/5	100	0.1	KM/6	100	0.1

	CAGE6 1-2			CAGE6 2-2		
Terminal Pitch	8 mm			8 mm		
Height x Width	45 x 94 mm			45 x 116 mm		
Connection Possibility — Stranded Wire / Solid Wire	0.5 - 6 sq. mm / 0.5 - 10 sq. mm			0.5 - 6 sq. mm / 0.5 - 10 sq. mm		
Stripping Length	12 mm			12 mm		
Insulation Material	Polyamide 6.6			Polyamide 6.6		
Type of Connection	3 Spring clamp connections and 2 slots for interconnection			4 Spring clamp connections and 2 slots for interconnection		
Standards	CSA Standard	CE	UL Standard	CSA Standard	CE	UL Standard
Rated Cross Section	22-8 AWG	0.5-6 sq. mm	22-8 AWG	22-8 AWG	0.5-6 sq. mm	22-8 AWG
Voltage Rating	600 V	750 V	600 V	600 V	750 V	600 V
Current Rating	50 A	41 A	50 A	50 A	41 A	50 A
	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station	CAGE6 1-2	50	5	CAGE6 2-2	100	20
End Plate	EPCAGE6 1-2	50	6	EPCAGE6 2-2	50	6
Partition Plate	PPCAGE6 1-2	50	4	PPCAGE6 2-2	50	7
Mounting Rail	DIN 35U / DIN 35-15D	50 M / 50 M	360 / 700	DIN 35U / DIN 35-15D	50 M / 50 M	360 / 700
End Clamp	ES1S / ES2S / ES2N / ES3N	50 / 50 / 50 / 50	15.3 / 15.1 / 7.4 / 4.5	ES1S / ES2S / ES2N / ES3N	50 / 50 / 50 / 50	15.3 / 15.1 / 7.4 / 4.5
Insulated Push-In type Shorting Link (2 way) — Consecutive / Alternate	SL-PUSHIN8 / SL-PUSHIN8A	100 / 100	3 / 5	SL-PUSHIN8 / SL-PUSHIN8A	100 / 100	3 / 5
Insulated Push-In type Shorting Link Wire Current Rating : 10A, wire length 110mm.	SL-PUSHIN8B	100	5	SL-PUSHIN8B	100	5
Marking Tags (K Type)	KM/8	100	0.1	KM/8	100	0.1

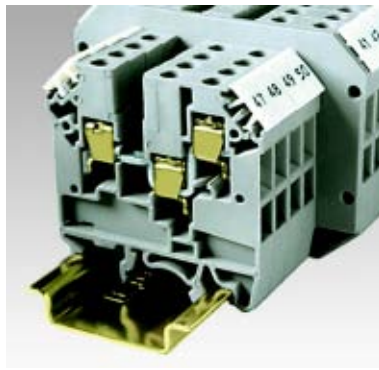# Multiple Connection, Feed-Through Screw Clamp Terminals

The multiple connection terminals offer reliable solution for different voltage connections in wiring. Conventionally, either wire looping or cross connections are used. While looping is unsafe, cross connecting requires more terminals and additional space.

The multiple connection terminals provide :

- Multiple connection points in the terminal.
- Further multiplication of connections through bridging point/points in the terminal.

SCRW4U 1-2 Multiple Connection Terminals provide one terminal point on one side and two terminal points on the other side. Bridging facility is at the centre of the terminal.

SCRW4U 2-2 Multiple Connection Terminals provide two terminal points on each side of the terminal and also two points for cross connection at the centre. This simplifies the task of accommodating several wires safely and efficiently.

	SCRW4U 1-2	SCRW4U 2-2
Terminal Pitch	6 mm	6 mm
Height x Width	47 x 46.5 mm	51.5 x 65 mm
Connection Possibility Stranded Wire Solid Wire	0.5 to 4 sq.mm 0.5 to 6 sq.mm	0.5 to 4 sq.mm 0.5 to 6 sq.mm
Stripping Length	9 mm	9 mm
Insulation Material	Polyamide 6.6	Polyamide 6.6
Type of Connection	3 screw clamps and 1 tapped hole for cross connection	4 screw clamps and 2 tapped holes for cross connection

Parameter	SCRW4U 1-2			SCRW4U 2-2		
Approvals	cSP.us	CE VDE	cULus	cSP.us	CE VDE	cULus
Rated Cross Section	22-12AWG	0.5-4 sq.mm	22-10 AWG	22-12AWG	0.5-4 sq.mm	22-10 AWG
Voltage Rating	600 V	600 V	600 V	600 V	600 V	600 V
Current Rating	25 A	32 A	##35 A	25 A	32 A	##35 A
Torque	7 lb-in	0.5 Nm	7 lb-in	7 lb-in	0.5 Nm	7 lb-in

	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station	SCRW4U 1.2	100	10.8	SCRW4U 2-2	50	15.8
End Plate	EPSCRW4U 1-2	50	2.4	EPSCRW4U 2-2	50	3..4
Mounting Rail	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700
End Clamp	ES1S ES2S ES2N ES3N	50 50 50 50	15.3 15.1 7.4 4.5	ES1S ES2S ES2N ES3N	50 50 50 50	15.3 15.1 7.4 4.5
Pre Assembled Shorting Links 2 way 3 way 4 way 10 way	PASL06/2 PASL06/3 PASL06/4 PASL06/10	10 10 10 10	2.2 3.2 3.9 11.5	PASL06/2 PASL06/3 PASL06/4 PASL06/10	10 10 10 10	2.2 3.2 3.9 11.5
Permanent Shorting Link 2 way 3 way 4 way 10 way	PSL06/2 PSL06/3 PSL06/4 PSL06/10 *PASL/10A	100 100 100 100 100	0.3 0.5 0.7 1.7 1.53	PSL06/2 PSL06/3 PSL06/4 PSL06/10 *PASL/10A	100 100 100 100 100	0.3 0.5 0.7 1.7 1.53
Short Sleeve for quick Permanent Shorting	SS02	100	1.16	SS02	100	1.16
Removable Shorting Link	RSL6	100	0.25	RSL6	100	0.25
Long Sleeve for quick Temporary Shorting	SL04	100	1.73	SL04	100	1.73
**Comb Link 2 way 3 way 4 way 10 way	CL6/2 CL6/3 CL6/4 CL6/10	100 100 100 50	1.2 1.8 2.4 6.0	CL6/2 CL6/3 CL6/4 CL6/10	100 100 100 50	1.2 1.8 2.4 6.0
Marking Tags (K Type)	KM/6	100	0.1	KM/6	100	0.1

** Comb link can be used in the upper level of the clamping unit.

Limited VA rating of 5 A maximum at 600 V for General Industrial use.

* 10 way breakable shorting link.

Micro, Feed-Through Terminals

The micro terminals, besides offering the obvious space advantage essential for compact wiring systems, are functionally as versatile as standard screw clamp terminals. They are also available for solder connections in two types. The terminals are modular in construction and can be mounted on DIN 15 rails.

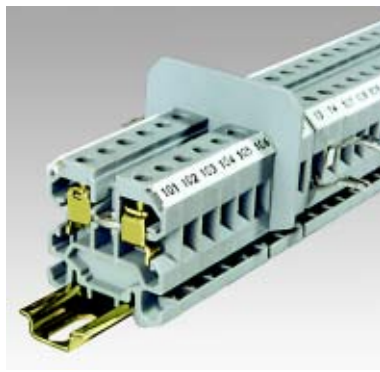The terminals have marker holding recesses to accept international 'K' type marking tags.

Cross connections can be achieved with shorting links/sleeves.

Further, M4SU Terminals are offered, identical to M4S except the following:

• 2 solder points are at uneven level and interchanged in alternate terminals, thus facilitating wire termination due to offset levels of terminals when mounted side-by-side.

• CSA and UL (Limited VA rating of 10 A maximum at 300 V for General Industrial use) ratings are 15A instead of 25A for M4S.

M4SU Terminals carry the same international certification marks as M4S.

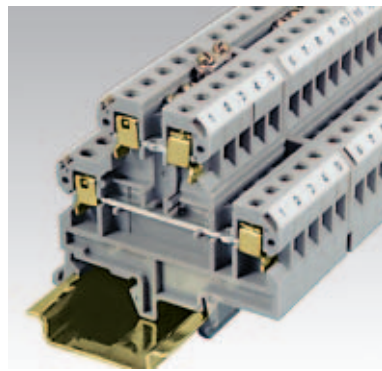|		M4			M4S		
Terminal Pitch		6 mm			6 mm		
Height x Width		29 x 27 mm			29 x 27 mm		
Connection Possibility	Stranded Wire / Solid Wire	0.5 to 4 sq.mm 0.5 to 6 sq.mm			0.5 to 4 sq.mm 0.5 to 4 sq.mm		
Stripping Length		9 mm			9 mm		
Insulation Material		Polyamide 6.6			Polyamide 6.6		
Type of Connection		2 screw clamps and 1 tapped hole for cross connection			2 screw clamp, 2 solder points and 1 tapped hole for cross connection		
Approvals		cSPus	CE	UL us	cSPus	CE	UL us
Rated Cross Section		22-12 AWG	0.5 - 4 sq.mm	22-10 AWG	22-12 AWG	Upto 1.5 sq.mm	22-10 AWG
Voltage Rating		300 / 600 V	400 V	300 V	300 / 600 V	160 V	300 V
Current Rating		25 A	32 A	35 A	25 A	15 A	35 A
Torque		6 lb-in	0.5 Nm	6 lb-in	7 lb-in	0.5 Nm	7 lb-in
		Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station		M4	100	4.8	M4S	50	5.1
End Plate		EPM4	50	1	EPM4	50	1
Partition Plate		PPM4	50	2	PPM4	50	2
Mounting Rail		DIN 15	50 M	150	DIN 15	50 M	150
End Clamp		ES1N	50	2.5	ES1N	50	2.5
Pre Assembled Shorting Links	2 way 3 way 4 way 10 way	PASL6/2A PASL6/3A PASL6/4A PASL6/10A	10 10 10 10	1.1 1.25 1.5 9.5	PASL6/2A PASL6/3A PASL6/4A PASL6/10A	10 10 10 10	1.1 1.25 1.5 9.5
Permanent Shorting Link	2 way 3 way 4 way 10 way	PSL06/2 PSL06/3 PSL06/4 PSL06/10	100 100 100 100	0.3 0.5 0.7 1.7	PSL06/2 PSL06/3 PSL06/4 PSL06/10	100 100 100 100	0.3 0.5 0.7 1.7
Short Sleeve for quick Permanent Shorting		SS01	100	0.7	SS01	100	0.7
Removable Shorting Link		RSL6A	100	0.25	RSL6A	100	0.25
Long Sleeve for quick Temporary Shorting		SL01	100	1.28	SL01	100	1.28
Breakable Shorting Link (10 way)		PASL/10A	100	1.53	PASL/10A	100	1.53
Comb Link	2 way 3 way 4 way 10 way	CL6/2B CL6/3B CL6/4B CL6/10B	100 100 100 50	1.2 1.8 2.4 6.0	CL6/2B CL6/3B CL6/4B CL6/10B	100 100 100 50	1.2 1.8 2.4 6.0
Marking Tags	(K Type)	KM/2	100	0.02	KM/2	100	0.02

Double Level, Feed-Through Terminals
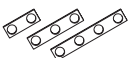
The double level terminals facilitate high wiring density unavoidable in certain wiring arrangements. Besides other advantages of "U" Series terminals, double level terminals have the following additional facilities.

• Double wiring density without extension of mounting rails.
• Interconnection/shorting can be done at both levels.
• Marking/identification by marking tags possible at both levels.

DBL4U(I.S) internally shorted double level terminals are useful for distribution application using shorting links at lower level.

DBL4U terminals with marker KM/2 for marking facility at the centre of the terminal and terminals with Separator Plate, Cat.No: SPDBL4U, having provision on both the levels for segregating sets of consecutively shorted terminals is available on request.

|	DBL4U			DBL4U(I.S)		
Terminal Pitch	6 mm			6 mm		
Height x Width	54 x 55.5 mm			54 x 55.5 mm		
Connection Possibility — Stranded Wire / Solid Wire	0.5 to 4 sq.mm / 0.5 to 6 sq.mm			0.5 to 4 sq.mm / 0.5 to 6 sq.mm		
Stripping Length	9 mm			9 mm		
Insulation Material	Polyamide 6.6			Polyamide 6.6		
Type of Connection	4 screw clamps and 2 tapped holes for cross connection			4 screw clamps and 1 tapped hole for cross connection		
Approvals	cSAus	CE	cULus	cSAus	CE	cULus
Rated Cross Section	22-12 AWG	0.5 - 4 sq.mm	22-10 AWG	22-12 AWG	0.5 - 4 sq.mm	22-10 AWG
Voltage Rating	300 / 600 V	400 V	300 V	600 V	400 V	600 V
Current Rating	25 A	32 A	35 A	25 A	32 A	35 A
Torque	6 lb-in	0.5 Nm	6 lb-in	7 lb-in	0.5 Nm	7 lb-in

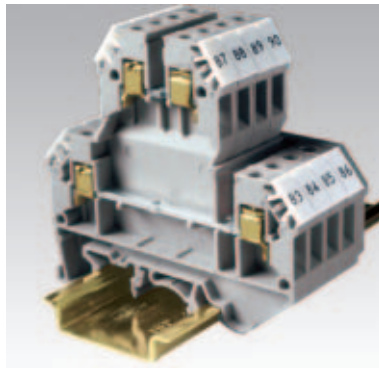|	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station	DBL4U	100	13	DBL4U(I.S)	100	15
End Plate	EPDBL4U	50	2.5	EPDBL4U	50	2.5
Mounting Rail	DIN 32G	50 M	750	DIN 32G	50 M	750
	DIN 35U	50 M	360	DIN 35U	50 M	360
	DIN 35-15D	50 M	700	DIN 35-15D	50 M	700
End Clamp	ES1S	50	15.3	ES1S	50	15.3
	ES2S	50	15.1	ES2S	50	15.1
	ES3S	50	7.0	ES3S	50	7.0
	ES2N	50	7.4	ES2N	50	7.4
	ES3N	50	4.5	ES3N	50	4.5
Pre Assembled Shorting Links 2 way	PASL6/2A	10	1.1	PASL6/2A	10	1.1
3 way	PASL6/3A	10	1.25	PASL6/3A	10	1.25
4 way	PASL6/4A	10	1.5	PASL6/4A	10	1.5
10 way	PASL6/10A	10	9.5	PASL6/10A	10	9.5
Permanent Shorting Link 2 way	PSL06/2	100	0.3	PSL06/2	100	0.3
3 way	PSL06/3	100	0.5	PSL06/3	100	0.5
4 way	PSL06/4	100	0.7	PSL06/4	100	0.7
10 way	PSL06/10	100	1.7	PSL06/10	100	1.7
Short Sleeve for quick Permanent Shorting	SS01	100	0.7	SS01	100	0.7
Removable Shorting Link	RSL6A	100	0.25	RSL6A	100	0.25
Long Sleeve for quick Temporary Shorting	SL01	100	1.28			
Breakable Shorting Link (10 way)	PASL/10A	100	1.53	PASL/10A	100	1.53
Comb Link 2 way	CL6/2B	100	1.2	CL6/2B	100	1.2
3 way	CL6/3B	100	1.8	CL6/3B	100	1.8
4 way	CL6/4B	100	2.4	CL6/4B	100	2.4
10 way	CL6/10B	50	6.0	CL6/10B	50	6.0
Marking Tags (K Type)	KM/2	100	0.02	KM/2	100	0.02

Offset Double Level, Feed-Through Terminals

The offset double level terminals not only provide separate connection possibility at two levels, but the top level is offset from bottom level by half the thickness of terminal.

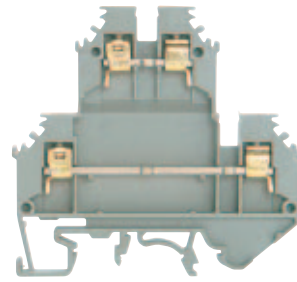Therefore the DBLOFF terminals offer following advantages.
- Double wiring density without extension of mounting rails.
- Bottom level screws have better accessibility for tightening/loosening.
- Easier interconnections and shorting can be done at both levels.
- Marking tags of bottom level are not obstructed by wires connected at top level.

It is recommended to use spacer or end plate at both the ends of assembled set of DBLOFF terminals for flat alignment to enable effective use of end stops or clamps.

"Add-On" type DBLOFF terminal block is available on request.

DBLOFF4U

Terminal Pitch	6 mm
Height x Width	63 x 68 mm
Connection Possibility — Stranded Wire / Solid Wire	0.5 to 4 sq.mm / 0.5 to 6 sq.mm
Stripping Length	9 mm
Insulation Material	Polyamide 6.6
Type of Connection	4 screw clamps and 2 tapped holes for cross connection

Approvals	CSA	CE VDE	UL
Rated Cross Section	22-12 AWG	0.5-4 sq.mm	22-10 AWG
Voltage Rating	600 V	600 V	600 V
Current Rating	25 A	32 A	##35 A
Torque	7 lb-in	0.5 Nm	7 lb-in

	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station	DBLOFF4U	50	13
End Plate — Front Side / Back Side	EPDBLOFF4U / EPDBLOFF4UA	50 / 50	4.2 / 2.5
Mounting Rail	DIN 32G	50 M	750
	DIN 35U	50 M	360
	DIN 35-15D	50 M	700
End Clamp	ES1S	50	15.3
	ES2S	50	15.1
	ES3S	50	7.0
	ES2N	50	7.4
	ES3N	50	4.5
Pre Assembled Shorting Links — 2 way	PASL6/2A	10	1.1
3 way	PASL6/3A	10	1.25
4 way	PASL6/4A	10	1.5
10 way	PASL6/10A	10	9.5
Permanent Shorting Link — 2 way	PSL06/2	100	0.3
3 way	PSL06/3	100	0.5
4 way	PSL06/4	100	0.7
10 way	PSL06/10	100	1.7
Short Sleeve for quick Permanent Shorting	SS01	100	0.7
Removable Shorting Link	RSL6A	100	0.25
Long Sleeve for quick Temporary Shorting	SS01	100	1.28
Breakable Shorting Link (10 way)	PASL/10A	100	1.53
Comb Link — 2 way	CL6/2B	100	1.2
3 way	CL6/3B	100	1.8
4 way	CL6/4B	100	2.4
10 way	CL6/10B	50	6.0
Marking Tags (K Type)	KM/6	100	0.1

Limited VA rating of 5 A maximum at 600 V for General Industrial use.
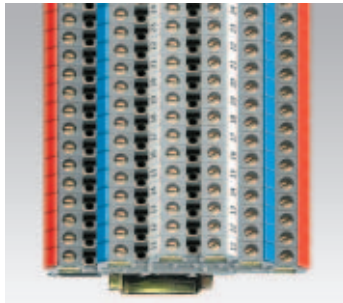
Triple Level, Feed-Through Terminals

The triple level terminals are ideal for control systems with sensors and actuators. The simplified three level connections allow higher wiring density in the circuits. The TL2.5U terminals, with feed through connecting points at all the 3 levels, offer multiple choice of signal and power distribution at any level. Use of cross connecting links and internal jumpers is recommended to reduce looping of wires.

In TL2.5UH, the top level provides connecting points for signal while middle and bottom level connecting points are used for positive and negative potentials.

In applications where switching indication is required, option of triple level terminal blocks with built-in "LED Indication" are offered as TL2.5UL and TL2.5UHL.

Blue and red, besides conventional white marking tags are used for effective identification. The terminals are for universal rail mounting.

	TL2.5U#			TL2.5UH			TL2.5UHL		
Terminal Pitch	6 mm			6 mm			6 mm		
Height x Width	67 x 84 mm			67 x 61 mm			67 x 61 mm		
Connection Possibility Flexible/Stranded Rigid/Solid	0.5 - 2.5 sq. mm 0.5 - 4 sq. mm			0.5 - 2.5 sq. mm 0.5 - 4 sq. mm			0.5 - 2.5 sq. mm 0.5 - 4 sq. mm		
Stripping Length	9 mm			9 mm			9 mm		
Insulation Material	Polyamide 6.6			Polyamide 6.6			Polyamide 6.6		
Type of Connection	6 screw clamps and 3 tapped holes for cross connection			4 screw clamps and 3 tapped holes for cross connection			#4 screw clamps and 3 tapped holes for cross connection		
Standards	CSA	CE	c**RU**us	CSA	CE	c**RU**us	CSA	CE	c**RU**us
Rated Cross Section	24-12 AWG	0.5-2.5 sq.mm	22-12 AWG	24-12 AWG	0.5-2.5 sq.mm	22-12 AWG	24-14 AWG	0.5-4 sq.mm	22-12 AWG
Voltage Rating	300 V	500 V	300 V	300 V	500 V	300 V	300 V	500 V	300 V
Current Rating	25 A	24 A	25 A	25 A	24 A	25 A	25 A	24 A	20 A
Torque	4.5 lb-in	0.4 Nm	4.5 lb-in	4.5 lb-in	0.4 Nm	4.5 lb-in	7 lb-in	0.4 Nm	7 lb-in

	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station	TL2.5U	50	16	TL2.5UH	50	14	TL2.5UHL	50	16
End Plate	EPTL2.5U	50	3.5	EPTL2.5UH	50	3.5	EPTL2.5UH	50	3.5
Mounting Rail	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700
End Clamp	ES1S ES2S ES3S ES2N ES3N	50 50 50 50 50	15.3 15.1 7.0 7.4 4.5	ES1S ES2S ES3S ES2N ES3N	50 50 50 50 50	15.3 15.1 7.0 7.4 4.5	ES1S ES2S ES3S ES2N ES3N	50 50 50 50 50	15.3 15.1 7.0 7.4 4.5
Pre Assembled Shorting Link 2 way 3 way 4 way 10 way	PASL06/2 PASL06/3 PASL06/4 PASL06/10	10 10 10 10	2.2 3.2 3.9 11.5	PASL06/2 PASL06/3 PASL06/4 PASL06/10	10 10 10 10	2.2 3.2 3.9 11.5	PASL06/2 PASL06/3 PASL06/4 PASL06/10	10 10 10 10	2.2 3.2 3.9 11.5
Insulated Comb Links 2 way 3 way 4 way 10 way	CL6/2C CL6/3C CL6/4C CL6/10C	100 100 100 50	1.2 1.8 2.4 6.0	CL6/2C CL6/3C CL6/4C CL6/10C	100 100 100 50	1.2 1.8 2.4 6.0	CL6/2C CL6/3C CL6/4C CL6/10C	100 100 100 50	1.2 1.8 2.4 6.0
Marking Tags (K Type)	KM/2	100	0.1	KM/2	100	0.1	KM/2	100	0.1

*# Choice of on-line indication in TL2.5U Terminal is offered as TL2.5UL.*

Voltage rating will depend upon desired LED circuit.

*Voltage rating will depend upon desired LED circuit.*
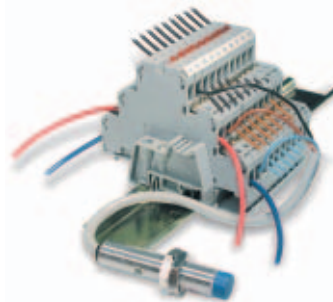
Panel Mount, Feed-Through Screw Clamp Terminals

The modular panel mounting terminals ensure extremely compact wiring. The terminals are "add-on" to be stacked to form multipole assembly. The stacked assembly is fitted with end plates on both ends for easy installation on to the panel. With more than 20 terminals stacked, additional end plates must be mounted after every twentieth terminal block for rigidity of assembly. The terminals have recesses to accept 'K' type marking tags. Cross connections can be achieved with shorting links/sleeves.
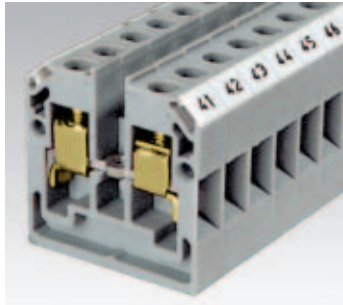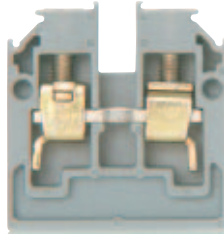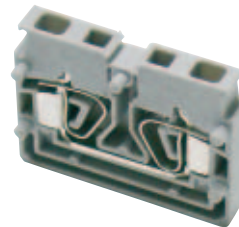
Panel Mount, Feed-Through Spring Clamp Terminals

"Screwless" spring clamp panel mounting terminals offer cost effective compact wiring solution with all the advantages of spring clamp termination. Their application is similar to panel mount, screw clamp terminals.

CAGEP2.5 2-2 terminals provide two terminal points on each connection side with:

- multiple connection points in the terminal
- further multiplication of connections through bridging.

	P4			CAGEP2.5			CAGEP2.5 2-2		
Terminal Pitch	6 mm			5 mm			10 mm		
Height x Width	28 x 27 mm			27 x 35 mm			27 x 35 mm		
Connection Possibility Stranded Wire / Solid Wire	0.5 to 4 sq.mm 0.5 to 6 sq.mm			0.5 - 2.5 sq. mm 0.5 - 4 sq. mm			0.5 - 2.5 sq. mm 0.5 - 4 sq. mm		
Stripping Length	9 mm			9 mm			9 mm		
Insulation Material	Polyamide 6.6			Polyamide 6.6			Polyamide 6.6		
Type of Connection	2 screw clamps and 1 tapped hole for cross connection			2 spring clamps			4 spring clamps		
Approvals	cNSBLus	CE VDE	cRUus	CSA Standard	CE	cRUus	CSA Standard	CE	cRUus
Rated Cross Section	22-12 AWG	0.5-4 sq.mm	22-10 AWG	22-14 AWG	2.5 sq. mm	22-14 AWG	22-14 AWG	2.5 sq. mm	22-14 AWG
Voltage Rating	300 V	400 V	300 V	600 V	750 V	600 V	600 V	750 V	600 V
Current Rating	25 A	32 A	35 A	20 A	24 A	20 A	20 A	24 A	20 A
Torque	7 lb-in	0.5 Nm	7 lb-in						

	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station	P4	100	4	CAGEP2.5	50	5.2	CAGEP2.5 2-2	50	10
End Plate / Stop	EPP4	50	2.2	EPCAGEP2.5	50	3	EPCAGEP2.5	50	3
Fixing Screw (M 3)**									
Pre Assembled Shorting Links 2 way 3 way 4 way 10 way	PASL6/2A PASL6/3A PASL6/4A PASL6/10A	10 10 10 10	1.1 1.25 1.5 9.5						
Permanent Shorting Link 2 way 3 way 4 way 10 way	PSL06/2 PSL06/3 PSL06/4 PSL06/10	100 100 100 100	0.3 0.5 0.7 1.7						
Short Sleeve for quick Permanent Shorting	SS01	100	0.7						
Removable Shorting Link	RSL6A	100	0.25						
Long Sleeve for quick Temporary Shorting	SL01	100	1.28						
Breakable Shorting Link (10 way)	PASL/10A	100	1.53	*SL-PUSHIN5C	100	6.4	*SL-PUSHIN5C	100	1.2
Comb Link 2 way 3 way 4 way 10 way	CL6/2B CL6/3B CL6/4B CL6/10B	100 100 100 50	1.2 1.8 2.4 6.0						
Marking Tags (K Type)	KM/2	100	0.02	KM/2	100	0.1	KM/2	100	0.1

**M3 screw of appropriate length can be used.

* Insulated Push-In type Shorting Link (2 way)

Grounding (Earth), Terminals

Use of grounding terminals instead of grounding studs and wire lugs to terminate ground wires, saves installation and wiring time substantially.

Grounding terminals clamp mechanically onto the DIN Rail by tightening the center mounting screw, making a reliable electrical connection between the current bar and the DIN Rail. The rail serves as a busbar and automatically distributes ground potential to all other ground terminals on the same rail.

Grounding terminals can also be used as end stops, preventing other terminal blocks and components from moving laterally on the DIN Rail.

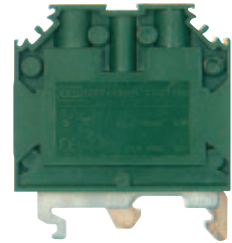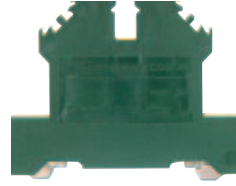They are supplied with a standard green/yellow housing as per set norms for easy identification and accept international 'K' type marking tags.

Grounding terminals are for DIN 35 and DIN 32 rails.

Special features of grounding terminals are:

• Unbreakable housing in Polyamide 6.6 in green and yellow colour for easy identification.
• Tin-plated, brass foot for low contact grounding resistance.
• Vibration proof grounding by operating central screw.
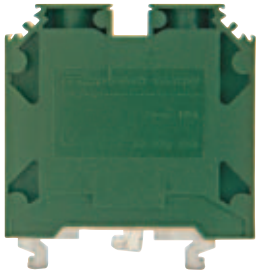• High torque clamping yokes for wide range of wires.

		G4			G10		
Terminal Pitch		6 mm			10 mm		
Height x Width		45.4 x 54.2 mm			50 x 45 mm		
Connection Possibility	Stranded Wire / Solid Wire	0.5 to 4 sq.mm / 0.5 to 6 sq.mm			1.5 to 10 sq.mm / 1.5 to 16 sq.mm		
Stripping Length		9 mm			12 mm		
Insulation Material		Polyamide 6.6			Polyamide 6.6		
Type of Connection		2 screw clamps and grounding through central screw			2 screw clamp and grounding through central screw		
Approvals		cSAus	CE	cURus	cSAus	CE VDE	cURus
Rated Cross Section		22-12 AWG	0.5-4 sq. mm	22-12 AWG	16-8 AWG	1.5-10 sq.mm	16-8 AWG
Current Rating		25 A	32 A	25 A	65 A	57 A	
Torque		7 lb-in	0.5 Nm	7 lb-in	14 lb-in	1.2 Nm	14 lb-in
		Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station		G4	50	21.5	G10	50	30
Mounting Rail		DIN 32G	50 M	750	DIN 32G	50 M	750
		DIN 35U	50 M	360	DIN 35U	50 M	360
		DIN 35-15D	50 M	700	DIN 35-15D	50 M	700
Marking Tags (K Type)		KM/6	100	0.1	KM/10	100	0.16

G35	GM4
16 mm	6 mm
61.5 x 58 mm	28.5 x 27 mm
10 to 35 sq.mm 10 to 50 sq.mm	0.5 to 4 sq.mm 0.5 to 6 sq.mm
18 mm	9 mm
Polyamide 6.6	Polyamide 6.6
2 screw clamp and grounding through central screw	2 screw clamps and grounding through central screw

cSPus	CE	cULus	CSA Standard	CE	cULus
8-3 AWG	10-35 sq.mm	8-2 AWG	22-12 AWG	0.5-4 AWG	22-12 AWG
145 A	125 A		25 A	32 A	
25 lb-in	2.5 Nm	25 lb-in	7 lb-in	0.5 Nm	7 lb-in

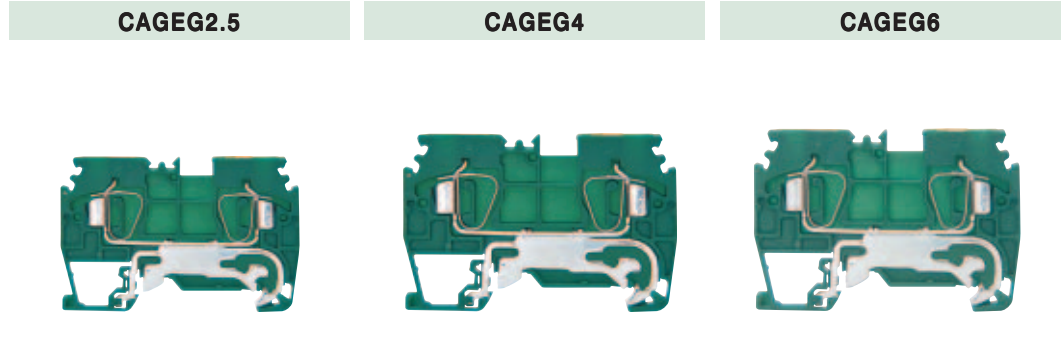| Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
G35	20	80	GM4	100	
DIN 32G DIN 35-15D	50 M 50 M	750 700	DIN 15	50 M	140
KM/15	100	0.24	KM/02	100	

Spring Clamp Ground Terminals

'Screwless' Spring Clamp Ground terminal blocks are offered for quick connections and go well with other spring clamp terminal blocks. The spring clamp is operated by using a screw driver to provide an access to wire through the opening in the spring clamp. The wire is held against current bar directly by pre-stressed spring clamp. Specially designed alloy feet help in achieving very low contact resistance and vibration proof grounding.

CAGE series terminals can be mounted on DIN 35 rails along with other terminals and eliminate separate bus bar. The terminal profile matches with the feed through terminal block of same wire size.

Special features of CAGE terminals are :

- Vibration proof grounding can be easily achieved by specially designed alloy feet

- Versatile special alloy feet to ensures very low contact resistance.

- Spring clamp to accept any type of wires.

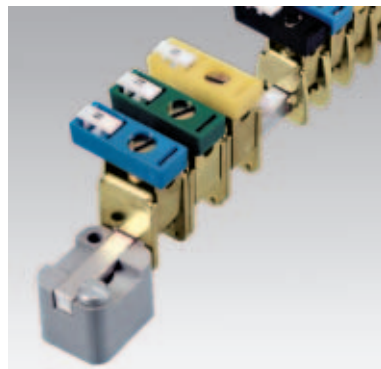|	CAGEG2.5			CAGEG4			CAGEG6		
Terminal Pitch	5 mm			6 mm			8 mm		
Height x Width	36 x 58 mm			42 x 65 mm			45 x 72 mm		
Connection Possibility — Flexible Stranded / Rigid Solid	0.5 to 2.5 sq.mm / 0.5 to 4 sq.mm			0.5 to 4 sq.mm / 0.5 to 6 sq.mm			0.5 to 6 sq.mm / 0.5 to 10 sq.mm		
Stripping Length	9 mm			9 mm			12 mm		
Insulation Material	Polyamide 6.6			Polyamide 6.6			Polyamide 6.6		
Type of Connection	2 Spring clamp connection, grounding through alloy feet			2 Spring clamp connection, grounding through alloy feet			2 Spring clamp connection, grounding through alloy feet		
Approvals	CSA Standard	CE	UL Standard	CSA Standard	CE	UL Standard	CSA Standard	CE	UL Standard
Rated Cross Section	22-14 AWG	2.5 sq.mm	22-14 AWG	22-12 AWG	4 sq.mm	22-12 AWG	22-8 AWG	6 sq.mm	22-8 AWG
Current Rating	20 A	24 A		25 A	32 A		50 A	41 A	
	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station	CAGEG2.5	100		CAGEG4	100		CAGEG6	50	
Mounting Rail	DIN 35U / DIN 35-15D	50 M / 50 M	360 / 700	DIN 35U / DIN 35-15D	50 M / 50 M	360 / 700	DIN 35U / DIN 35-15D	50 M / 50 M	360 / 700
Marking Tags	KM/5	100	0.16	KM/6	100	0.16	KM/8	100	0.16s

Panel Mount, Neutral/Earth Screw Clamp Busbar Systems

Certain electrical systems require termination of neutral/earth conductors to a convenient busbar. The GN4, GN16, GN35 terminals with busbars (NB) and busbar supports (NBS) offer a neat solution for such applications.

NB10 - 3 mm and NB6 - 6 mm, tin plated copper busbars are available in one metre lengths. Current carrying capacity of the busbar should be taken into account while connecting loads.

NBS plastic supports with fixing screws for holding 10 x 3 mm and 6 x 6 mm busbar ensures easy mounting. Busbars up to 200 mm length should be supported at ends by two busbar supports. For busbars exceeding 200 mm length, it is recommended to provide intermediate busbar support.

Easy to operate GN terminals secure wire to the busbar. The GN terminals have green cap as standard as most applications are for earthing. Optionally, caps with other colours such as blue, green and black can be offered on request. The GN terminals are with marking tag recesses for 'K' type marking tags for identification.

GN4/16/35

		GN4/16/35	
Terminal Pitch		7.5 mm	9.8 mm	14.5 mm
Height x Width (mm)		30 x 23.3	36 x 23.3	45 x 27.3
Connection Possibility (sq.mm)	Stranded Wire Solid Wire	0.5 to 6 0.5 to 10	6 to 16 6 to 25	10 to 35 10 to 50
Stripping Length		12 mm	16 mm	16 mm
Insulation Material		Polyamide 6.6		
Type of Connection		1 screw clamp connection		
Approvals		$_c$SP$_{us}$	CE VDE	$_c$RU$_{us}$
Rated Cross Section	GN4 GN16 GN35	22-12 AWG 9-6 AWG 7-2 AWG	0.5-6 sq.mm 6-16 sq.mm 10-35 sq.mm	22-12 AWG 10-6 AWG 8-2 AWG
Current Rating	GN4 GN16 GN35	25 A 76 A 125 A	41 A 76 A 125 A	NA NA NA
Torque	GN4 GN16 GN35	14 lb-in 14 lb-in 25 lb-in	0.8 Nm 2.0 Nm 2.5 Nm	14 lb-in 17.5 lb-in 25 ib-in

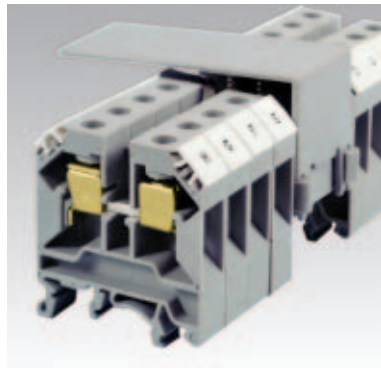|		Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station		GN4 GN16 GN35	50 50 50	7.4 10.1 19
Busbar (10 x 3 mm)		NB10-3	1 M	52
Busbar (6 x 6 mm)		NB6-6	1 M	62
Plastic Support with Fixing Screw		NBS	50	7.1
Marking Tag	(K Type)	KM/5	100	0.07

Note : Voltage Rating : 750 V

Distribution Blocks

The ' U ' Series DISBL compact distribution blocks are ideal for simplified distribution system. Polyamide 6.6 assembly is suitable for universal mounting. Lug/bolt connection at the centre for incoming cable and screw clamp connections for the outgoing monobloc conductors provide easy to connect points and ensure perfect continuity for distribution. A protective shield at centre effectively shrouds incoming connection.

Important:

- Sum of outgoing currents on either side of centre should not exceed half the maximum permissible incoming current.

- Sum of total outgoing currents should not exceed maximum permissible incoming current.

- Connection for higher outgoing currents should be done through the terminal nearer to incoming connection at centre.

DISBL4(1) compact distribution blocks are recommended for application where input connection point is located at one end instead of centre.

		DISBL4		DISBL4(1)	
Terminal Pitch		6 mm		6 mm	
Stripping Length		9 mm		9 mm	
Connection Possibility (Stranded Wire/Solid Wire)	Input / Output	1.5 to 16 sq.mm / 0.5 to 4 sq.mm / 0.5 to 6 sq.mm		1.5 to 16 sq.mm / 0.5 to 4 sq.mm / 0.5 to 6 sq.mm	
Insulation Material		Polyamide 6.6		Polyamide 6.6	
Type of Connection	Input / *Output	1 screw flat connection for ring lugs (Nut Driver operated) screw clamp connection (Screw Driver Operated)		1 screw flat connection for ring lugs (Nut Driver operated) screw clamp connection (Screw Driver Operated)	
Approvals		cSPus CE VDE cULus		CSA Standard CE UL Standard	

		DISBL4			DISBL4(1)		
Rated Cross Section	Input / Output	10-8 AWG 22-12 AWG	6-16 sq.mm 0.5-4 sq.mm	10-8 AWG 22-12 AWG	10-8 AWG 22-12 AWG	6-16 sq.mm 0.5-4 sq.mm	10-8 AWG 22-12 AWG
Voltage Rating		600 V	750 V	600 V	600 V	750 V	600 V
Current Rating	Input / Output (on either sides)	50 A 25 A	32 A	50 A 35 A	50 A 25 A	32 A	50 A 35 A
Torque	Input / Output	26 lb-in 7 ib-in	2.0 Nm 0.5 Nm	26 lb-in 7 lb-in	26 lb-in 7 ib-in	2.0 Nm 0.5 Nm	26 lb-in 7 lb-in

Terminal Station	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
	DISBL4/1	10	46	DISBL4/2(1)	10	53
	DISBL4/2	10	60	DISBL4/3(1)	10	60
	DISBL4/3	10	74	DISBL4/4(1)	10	68
	DISBL4/4	10	90	DISBL4/5(1)	10	75
	DISBL4/5	10	104	DISBL4/6(1)	10	83
				DISBL4/10(1)	5	113
				DISBL4/11(1)	5	118
Mounting Rail	DIN 32G	50 M	750	DIN 32G	50 M	750
	DIN 35U	50 M	360	DIN 35U	50 M	360
	DIN 35-15D	50 M	700	DIN 35-15D	50 M	700
End Clamp	ES1S	50	15.3	ES1S	50	15.3
	ES2S	50	15.1	ES2S	50	15.1
	ES3S	50	7.0	ES3S	50	7.0
	ES2N	50	7.4	ES2N	50	7.4
	ES3N	50	4.5	ES3N	50	4.5
Marking Tags (K Type)	KM/6	100	0.1	KM/6	100	0.1

* Possible output configurations are mentioned below the Distribution Block details.

Type	H x W x T	No. of Output
*DISBL4/1	45 x 43 x 43.8 mm	4
*DISBL4/2	45 x 43 x 55.8 mm	8
*DISBL4/3	45 x 43 x 67.8 mm	12
*DISBL4/4	45 x 43 x 80 mm	16
*DISBL4/5	45 x 43 x 96 mm	20

Type	H x W x T	No. of Output
*DISBL4/2(1)	45 x 43 x 52 mm	4
*DISBL4/3(1)	45 x 43 x 58 mm	6
*DISBL4/4(1)	45 x 43 x 64 mm	8
*DISBL4/5(1)	45 x 43 x 70 mm	10
*DISBL4/6(1)	45 x 43 x 76 mm	12
*DISBL4/10(1)	45 x 43 x 100 mm	20
*DISBL4/11(1)	45 x 43 x 106 mm	22

DISBL6	DISBL10

8 mm	10 mm
12 mm	12 mm
6 to 25 sq.mm 1.5 to 6 sq.mm / 1.5 to 10 sq.mm	10 to 35 sq.mm 1.5 to 10 sq.mm / 1.5 to 16 sq.mm
Polyamide 6.6	Polyamide 6.6
1 screw flat connection for ring lugs (Nut Driver operated) screw clamp connection (Screw Driver Operated)	1 screw flat connection for ring lugs (Nut Driver operated) screw clamp connection (Screw Driver Operated)

c SP us	CE VDE	c UL us		c SP us	CE VDE	c UL us
10-6 AWG 22-8 AWG	6-25 sq.mm 1.5-6 sq.mm	10-2 AWG 22-8 AWG		7-2 AWG 15-7 AWG	10-35 sq.mm 1.5-10 sq.mm	8-1/0 AWG 16-6 AWG
600 V	750 V	600 V		600 V	750 V	600 V
95 A 50 A	41 A	100 A 50 A		125 A 65 A	57 A	130 A 65 A
25 lb-in 9 lb-in	3 Nm 0.8 Nm	35 lb-in 14 lb-in		53 lb-in 14 lb-in	6 Nm 1.2 Nm	53 lb-in 14 lb-in

Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams		Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
DISBL6/2	10	91		DISBL10/2	10	121
DISBL6/3	10	117		DISBL10/3	10	160
DISBL6/4	10	145		DISBL10/4	5	196

DIN 32G	50 M	750		DIN 32G	50 M	750
DIN 35U	50 M	360		DIN 35U	50 M	360
DIN 35-15D	50 M	700		DIN 35-15D	50 M	700
ES1S	50	15.3		ES1S	50	15.3
ES2S	50	15.1		ES2S	50	15.1
ES3S	50	7.0		ES3S	50	7.0
ES2N	50	7.4		ES2N	50	7.4
ES3N	50	4.5		ES3N	50	4.5
KM/8	100	0.11		KM/10	100	0.16

Type	H x W x T	No. of Output		Type	H x W x T	No. of Output
*DISBL6/2	43 x 48 x 64 mm	8		*DISBL10/2	43 x 48 x 72 mm	8
*DISBL6/3	43 x 48 x 80 mm	12		*DISBL10/3	43 x 48 x 92 mm	12
*DISBL6/4	43 x 48 x 96 mm	16		*DISBL10/4	43 x 48 x 112 mm	16

Safety Fuse Link Terminals

Certain electrical and control systems require fuse protection and the safety fuse terminal, with built-in fuse link offers a neat solution.

The safety fuse terminal has a hinged carrier, moving out as shown and having space for cartridge type glass fuse. The F terminals can take fuse of size Ø5 x 20 or Ø5 x 25 mm, while FA terminals can take fuse of size Ø¼" × 1¼" (6.35 × 31.75mm) required in the North America. The fuse can be engaged or disengaged by the movement of the carrier.

Spare fuse can be placed in the carrier of F4U, FDBL4U and FA4U terminals. Marking and identification by marking tags is possible on both terminal and the fuse carrier.

The safety fuse link terminals, F are also available with LED indication as F4U(L). A specially designed built-in circuit gives indication when fuse blows out, clearly identifying fault in the circuit. The FA4U terminals are also offered with LED or NEON indication as FA4UL and FA4UN respectively.
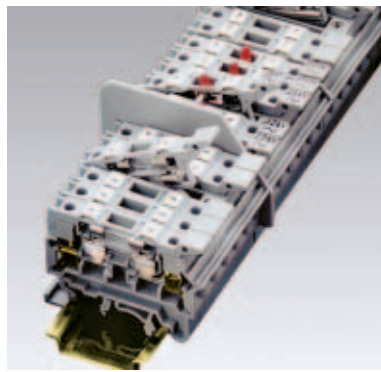
Application of such terminals must take into consideration residual current flow.

FDBL4U - double level fuse terminals with fuse link on the top level has a separate feed through terminal at lower level. This eliminates use of additional feed through terminals.

In FDBL4UE, a specially designed built-in circuit gives LED indication when a fuse blows out at the top level.

FDBL4U(LR) - This is a modified version of FDBL4UE terminal where in two equipotential connection points are available on both ends of the terminal.

Cross connection at lower level can be achieved with shorting links/sleeves.

* Shorting possibility is in lower level only.

**Other End Clamps, ES1S, ES2S and ES3N can also be used.

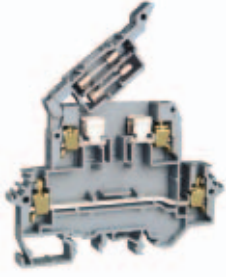|		**F4U** for Ø5 × 20/25 mm fuse			**F4U(L)** for Ø5 × 20/25 mm fuse with indicator		
Terminal Pitch		8 mm			8 mm		
Height x Width		43 x 58 mm			43 x 58 mm		
Connection Possibility	Stranded Wire Solid Wire	0.5 to 4 sq.mm 0.5 to 4 sq.mm			0.5 to 4 sq.mm 0.5 to 4 sq.mm		
Stripping Length		9.5 mm			9.5 mm		
Insulation Material		Polyamide 6.6			Polyamide 6.6		
Type of Connection		2 screw clamps equipped with safety connection			2 screw clamps equipped with safety connection		
Fusion Indication					24V AC, 24V DC, 48V AC, 48V DC, 110V AC, 110V DC, 220V AC		
Approvals		c⒮us	IEC Standard	c⒰us	c⒮us	IEC Standard	c⒰us
Rated Cross Section		22-12 AWG	0.5-4 sq.mm	22-10 AWG	22-12 AWG	0.5-4 sq.mm	22-10 AWG
Voltage Rating		600 V	750 V	600 V	600 V	750 V	600 V
Current Rating	Top Level Bottom Level	6.3 A 25 A	6.3 A 32 A	6.3 A 35 A	6.3 A 25 A	6.3 A 32 A	6.3 A 35 A
Torque		7 lb-in	0.5 Nm	7 lb-in	7 lb-in	0.5 Nm	7 lb-in
		Type Cat No.	**Std. Packing in Nos.**	**Wt Per unit in Grams**	**Type Cat No.**	**Std. Packing in Nos.**	**Wt Per unit in Grams**
Terminal Station		F4U	100	13.5	F4U(L)	50	14
End Plate		EPF4U	50	2.2	EPF4U	50	2.2
Partition Plate		PPF4U	50	4.1	PPF4U	50	4.1
Mounting Rail		DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700
End Clamp**		ES3S ES2N	100 50	7.0 7.4	ES3S ES2N	100 50	7.0 7.4
* Pre Assembled Shorting Link	2 way 3 way 4 way 10 way						
Permanent Shorting Link	2 way 3 way 4 way 10 way						
Short Sleeve for quick permanent shorting							
Removable Shorting Link							
Long Sleeve for quick Temporary Shorting							
Comb Link	2 way 3 way 4 way 10 way	CL8/2A CL8/3A CL8/4A CL8/10A	100 100 100 50	1.4 2.1 2.7 6.7	CL8/2A CL8/3A CL8/4A CL8/10A	100 100 100 50	1.4 2.1 2.7 6.7
Marking Tags (K Type on terminal) (K Type on fuse carrier)		KM/8 KM/2	100 100	0.11 0.02	KM/8 KM/2	100 100	0.11 0.02

Important: *In all safety fuse link terminals the disconnecting device (moving carrier) is not suitable for interrupting load. The supply must be switched off before operating the moving carrier.*
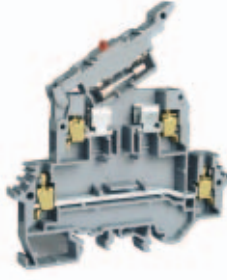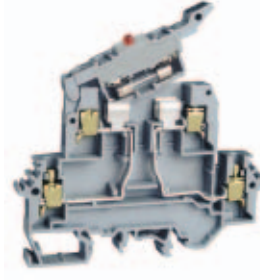
FDBL4U | FDBL4UE | FDBL4UE(LR) | FA4U

	FDBL4U	FDBL4UE	FDBL4UE(LR)	FA4U
	for Ø5 × 20/25 mm fuse	for Ø5 × 20/25 mm fuse with indicator	for Ø5 × 20/25 mm fuse with indicator	for Ø¼" × 1¼" fuse
	8 mm	8 mm	8 mm	9 mm
	66 x 88 mm	66 x 88 mm	66 x 88 mm	50 x 72 mm
	0.5 to 4 sq.mm / 0.5 to 6 sq.mm	0.5 to 4 sq.mm / 0.5 to 6 sq.mm	0.5 to 4 sq.mm / 0.5 to 6 sq.mm	0.5 to 4 sq.mm / 0.5 to 6 sq.mm
	9.5 mm	9.5 mm	9.5 mm	9.5 mm
	Polyamide 6.6	Polyamide 6.6	Polyamide 6.6	Polyamide 6.6
	4 screw clamps equipped with safety connection	4 screw clamps equipped with safety connection	4 screw clamps equipped with safety connection	2 screw clamps equipped with safety connection
		24V AC, 24V DC, 48V AC, 48V DC, 110V AC, 110V DC, 220V AC	24V AC, 24V DC, 48V AC, 48V DC, 110V AC, 110V DC, 220V AC	

Ratings

	cULus	IEC Standard	cULus	cULus	IEC Standard	cULus	cULus	IEC Standard	cULus	CSA Standard	IEC Standard	cULus
	22-12 AWG	0.5- 4 sq.mm	22-10 AWG	22-12 AWG	0.5- 4 sq.mm	22-10 AWG	22-12 AWG	0.5- 4 sq.mm	22-10 AWG	24-12 AWG	0.5-4 sq.mm	24-12 AWG
	600 V	600 V	600 V	600 V	600 V	600 V	600 V	600 V	600 V	600 V	600 V	600 V
	6.3 A / 25 A	6.3 A / 32 A	6.3 A / 35 A	6.3 A / 25 A	6.3 A / 32 A	6.3 A / 35 A	6.3 A / 25 A	6.3 A / 40 A	6.3 A / 25 A	6.3 A	6.3 A	6.3 A
	7 lb-in	0.5 Nm	7 lb-in	7 lb-in	0.5 Nm	7 lb-in	7 lb-in	0.5 Nm	7 lb-in	7 lb-in	0.5 Nm	7 lb-in

Catalogue / Packing / Weight

Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
FDBL4U	20	26	FDBL4UE	20	27	FDBL4UE(LR)	20	27	FA4U	25	16.5
EPFDBL4U	25	5.2	EPFDBL4U	25	5.2	EPFDBL4U	25	5.2	EPFA4U	50	3.2
DIN 32G	50 M	750	DIN 32G	50 M	750	DIN 32G	50 M	750	DIN 32G	50 M	750
DIN 35U	50 M	360	DIN 35U	50 M	360	DIN 35U	50 M	360	DIN 35U	50 M	360
DIN 35-15D	50 M	700	DIN 35-15D	50 M	700	DIN 35-15D	50 M	700	DIN 35-15D	50 M	700
ES3S	100	7.0	ES3S	100	7.0	ES3S	100	7.0	ES3S	100	7.0
ES2N	50	7.4	ES2N	50	7.4	ES2N	50	7.4	ES2N	50	7.4
PASL8/2A	10	2.2	PASL8/2A	10	2.2	PASL8/2A	10	2.2			
PASL8/3A	10	3.2	PASL8/3A	10	3.2	PASL8/3A	10	3.2			
PASL8/4A	10	3.9	PASL8/4A	10	3.9	PASL8/4A	10	3.9			
PASL8/10A	10	11.5	PASL8/10A	10	11.5	PASL8/10A	10	11.5			
PSL08/2A	100	0.5	PSL08/2A	100	0.5	PSL08/2A	100	0.5			
PSL08/3A	100	0.9	PSL08/3A	100	0.9	PSL08/3A	100	0.9			
PSL08/4A	100	1.35	PSL08/4A	100	1.35	PSL08/4A	100	1.35			
PSL08/10A	100	3.25	PSL08/10A	100	3.25	PSL08/10A	100	3.25			
SS02	100	1.16	SS02	100	1.16	SS02	100	1.16			
RSL8A	100	0.51	RSL8A	100	0.51	RSL8A	100	0.51			
SL04	100	1.73	SL04	100	1.73	SL04	100	1.73			
CL8/2A	100	1.4	CL8/2A	100	1.4	CL8/2A	100	1.4	CL09/2	100	1.4
CL8/3A	100	2.1	CL8/3A	100	2.1	CL8/3A	100	2.1	CL09/3	100	2.1
CL8/4A	100	2.7	CL8/4A	100	2.7	CL8/4A	100	2.7	CL09/4	100	2.7
CL8/10A	50	6.7	CL8/10A	50	6.7	CL8/10A	50	6.7	CL09/10	50	6.7
KM/8	100	0.11	KM/8	100	0.11	KM/8	100	0.11	KM/9	100	0.12
KM/2	100	0.02	KM/2	100	0.02	KM/2	100	0.02			

Important: In all safety fuse link terminals the disconnecting device (moving carrier) is not suitable for interrupting load. The supply must be switched off before operating the moving carrier.

Note :
1. Across fuse circuit - 6.3 A
2. Left / Right side - 25 A

* Cat No. for blown fuse indication with LED - FA4UL (24, 48, 110V AC, 24, 48, 110V DC, 220V AC)
Cat No. for blown fuse indication with Neon Bulb - FA4UN (110V AC, 110V DC up to 300V AC)

Safety Fuse Link Terminals

F6U

Terminal Pitch	8 mm		
Height x Width	60 x 43 mm		
Connection Possibility — Stranded Wire / Solid Wire	1.5 to 6 sq.mm / 1.5 to 10 sq.mm		
Stripping Length	9.5 mm		
Insulation Material	Polyamide 6.6		
Type of Connection	2 screw clamps equipped with safety connection		
# Fuse Size	5×20 / 5×25 mm		
Fusion Indication			
Approvals	CSA Standard	IEC Standard	UL Standard
Rated Cross Section	22-8 AWG	1.5 - 6 sq.mm	22-8 AWG
Voltage Rating	600 V	750 V	600 V
Current Rating	6.3 A	6.3 A	6.3 A
Torque	14 lb-in	0.8 Nm	14 lb-in

	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Block (Prefix Type Cat. No. before Voltage Rating Fusion indication terminals)	F6U	50	20
End Plate	EPF6U	50	
Partition Plate			
Mounting Rail	DIN 32G	50 M	750
	DIN 35U	50 M	360
	DIN 35-15D	50 M	700
End Clamp	ES2N	50	7.4
	ES3N	50	7.6
Insulated Comb Type Shorting Link — 2 way	CL08/2	100	1.4
3 way	CL08/3	100	2.1
4 way	CL08/4	100	2.8
10 way	CL08/10	50	7.0
Marking Tags — On Terminal / On Fuse carrier	KM/8	100	0.12

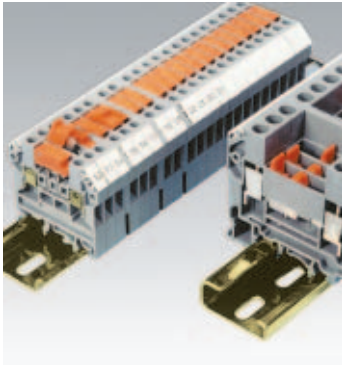| Fuse Current	0.1 A		
	0.5 A		
	0.63 A		
# Fuse Size	1 A		
5 x 20 mm (CSFL4U Series)	2 A		
1/4" 1 1/4" (CAFL4U Series)	3 A		
	4 A		
	5 A		
	6 A		
	6.3 A		

Disconnect and Test Terminals

For measuring, control and regulatory circuits having utility instruments and associated transformers, the disconnect and test terminals provide clear functional advantage. Three versions are available:

i)   In DISCT6U disconnection is achieved by means of a sliding link operated with screw driver.

ii) In KN4U disconnection is achieved by lifting hinged lever operating a knife contact.

iii) In DISCTL4U disconnection is achieved by lifting hinged carrier having a tin plated brass link.

All screw terminals in DISCT6U, KN4U and DISCTL4U have special screw heads which accept test probes.
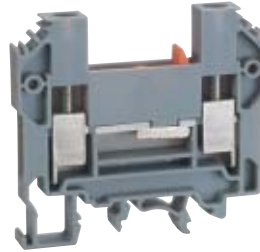
	KN4U			DISCT6U			DISCTL4U		
Terminal Pitch	6 mm			8 mm			8 mm		
Height x Width	46 X 46.3 mm			57 X 63 mm			43 X 58 mm		
Connection Possibility — Stranded Wire / Solid Wire	0.5 to 4 sq.mm / 0.5 to 4 sq.mm			1.5 to 6 sq.mm / 1.5 to 10 sq.mm			0.5 to 4 sq.mm / 0.5 to 4 sq.mm		
Stripping Length	9 mm			12 mm			9.5 mm		
Insulation Material	Polyamide 6.6			Polyamide 6.6			Polyamide 6.6		
Type of Connection	2 screw clamps connection			2 screw clamps connection			2 screw clamps equipped with disconnecting brass link		
Approvals	cSPus	CE	cRUus	cSPus	CE VDE	cRUus	cSPus	IEC Standard	cRUus
Rated Cross Section	22-12 AWG	0.5-4 sq.mm	22-10 AWG	16-8 AWG	1.5-6 sq.mm	16-8 AWG	22-12 AWG	0.5-4 sq.mm	22-12 AWG
Voltage Rating	600 V	750 V	600 V	600 V	750 V	600 V	600 V	750 V	600 V
Current Rating	16 A	16 A	35 A	41 A	41 A	41 A	6.3 A	6.3 A	6.3 A
Torque	7 lb-in	0.5 Nm	7 lb-in	14 lb-in	1.2 Nm	14 lb-in	7 lb-in	0.5Nm	7 lb-in

	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station	KN4U	50	11	DISCT6U	50	28	DISCTL4U	100	15
End Plate	EPKN4U	50	2	EPDISCT6U	50	3.9	EPF4U	50	2.2
Partition Plate							PPF4U	50	4.1
Mounting Rail	DIN 32G	50 M	750	DIN 32G	50 M	750	DIN 32G	50 M	750
	DIN 35U	50 M	360	DIN 35U	50 M	360	DIN 35U	50 M	360
	DIN 35-15D	50 M	700	DIN 35-15D	50 M	700	DIN 35-15D	50 M	700
End Clamp	ES1S	50	15.3	ES1S	50	15.3	ES1S	50	15.3
	ES2S	50	15.1	ES2S	50	15.1	ES2S	50	15.1
	ES3S	50	7.0	ES3S	50	7.0	ES3S	50	7.0
	ES2N	50	7.4	ES2N	50	7.4	ES2N	50	7.4
	ES3N	50	4.5	ES3N	50	4.5	ES3N	50	4.5
Comb Link — 2 way	CL6/2A	100	1.1	CL08/2	100	1.4	CL8/2A	100	1.4
3 way	CL6/3A	100	1.7	CL08/3	100	2.1	CL8/3A	100	2.1
4 way	CL6/4A	100	2.3	CL08/4	100	2.8	CL8/4A	100	2.7
10 way	CL6/10A	50	5.6	CL08/10	50	7.0	CL8/10A	50	6.7
Marking Tags (K Type) (K Type on carrier)	KM/6	100	0.11	KM/8	100	0.11	KM/8	100	0.11
							KM/2	100	0.02

Important: The above terminals are not suitable for interrupting load. The supply must be switched off before operating the slide link or lifting the lever or moving the hinged carrier.
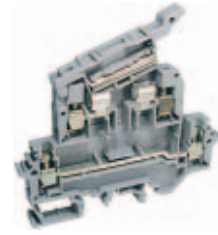
Disconnect and Test Terminals
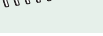
		DISCT6US			DISCTL6U			DBLDISCTL4U		
Terminal Pitch		16 mm			8 mm			8 mm		
Height x Width		57 x 63 mm			60 x 43 mm			66 x 88 mm		
Connection Possibility	Stranded Wire	1.5 to 6 sq.mm			1.5 to 6 sq.mm			0.5 to 4 sq.mm		
	Solid Wire	1.5 to 10 sq.mm			1.5 to 10 sq.mm			0.5 to 6 sq.mm		
Stripping Length		12 mm			9.5 mm			9.5 mm		
Insulation Material		Polyamide 6.6			Polyamide 6.6			Polyamide 6.6		
Type of Connection		4 screw clamps connection, internally shorted			2 screw clamps equipped with disconnecting brass link			4 screw clamps and 1 tapped hole for cross connection		
Approvals		CSA Standard	IEC Standard	UL Standard	CSA Standard	IEC Standard	UL Standard	CSA Standard	IEC Standard	UL Standard
Rated Cross Section		16-8 AWG	1.5-16 sq.mm	16-8 AWG	22-8 AWG	1.5 - 6 sq.mm	22-8 AWG	22-12 AWG	0.5-4 sq.mm	22-12 AWG
Voltage Rating		300 V	300 V	300 V	600 V	750 V	600 V	300 V	750 V	300 V
Current Rating		10 A	10 A	10 A	6.3 A	6.3 A	6.3 A	20 A	24 A	20 A
Torque		14 lb-in	1.2 Nm	14 lb-in	14 lb-in	0.8 Nm	14 lb-in	7 lb-in	0.4 Nm	7 lb-in
		Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Block		DISCT6US	20	52	DISCTL6U	50	22	DBLDISCTL4U	20	26
End Plate		EPDISCT6U	50	3.9	EPF6U	50	4	EPFDBL4U	25	5.2
Partition Plate					PPDISCTL6U	50	5			
Separator Plate										
Mounting Rail		DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700
End Clamp		ES2N ES3N	50 50	7.4 4.5	ES2N ES3N	50 50	7.4 7.6	ES2N ES3N	50 50	7.4 7.6
Insulated Comb Type Shorting Link	2 way 3 way 4 way 10 way	CL08/2 CL08/3 CL08/4 CL08/10	100 100 100 50	1.4 2.1 2.8 7.0	CL08/2 CL08/3 CL08/4 CL08/10	100 100 100 50	1.4 2.1 2.8 7.0	CL8/2A CL8/3A CL8/4A CL8/10A	100 100 100 50	1.4 2.1 2.8 7.0
Marking Tags	On Terminal On carrier	KM/8	100	0.11	KM/8	100	0.12	KM/8 KM/2	100 100	0.12

For other shorting / interconnecting accessories, refer Double Level Safety Fuse Link terminals

Important: The above terminals are not suitable for interrupting load. The supply must be switched off before operating the slide link or lifting the lever or moving the hinged carrier.
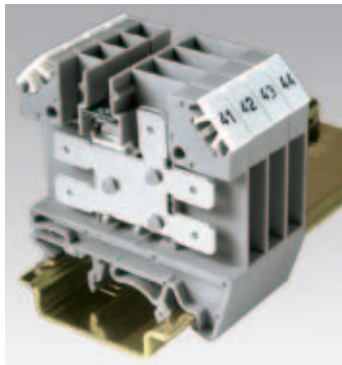
Tab Connection Terminals

The TAB4U tab connection terminals offer quick connection possibility, using standard 'Fast On' type lugs.

Connection is achieved by pushing lug onto the tab blade of terminal block. The terminal housing is so designed that the wall protrudes beyond tab blades.

In order to provide a reliable connection, recommended lugs are to be used with TAB4U terminals.

The design facilitates cross connection between adjacent terminal.

The SCRW4UTAB terminal is standard screw clamp, feed through terminal block with a tab connection at centre for suitable "Fast On" type lugs.
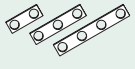
	TAB4U			SCRW4UTAB		
Terminal Pitch	6 mm			6 mm		
Height x Width	49.5 x 47 mm			45 x 43 mm		
Connection Possibility	0.5 to 4 sq. mm			0.5 to 4 sq.mm 0.5 to 6 sq.mm		
Stripping Length	9 mm			9 mm		
Insulation Material	Polyamide 6.6			Polyamide 6.6		
Type of Connection	5 tab connection points and 1 tapped hole for cross connection			2 screw clamps and 1 tab connection at the centre		
Approvals						
Rated Cross Section	22-12 AWG	0.5-4 sq.mm	22-12 AWG	22-12 AWG	0.5 - 4 sq.mm	22-12 AWG
Voltage Rating	300 V	250 V	300 V	300 V	500 V	300 V
Current Rating	25 A	32 A	25 A	25 A	32 A	25 A
Tab Blade Size (mm)	*6.3 x 0.8	6.3 x 0.8	6.3 x 0.8	2.4 × 0.8	2.4 × 0.8	2.4 × 0.8
Torque				7 lb-in	0.5 Nm	7 lb-in

		Type Cat No.	Std. Packing in No.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station		TAB4U	100	7.8	SCRW4UTAB	100	8
End Plate		EPTAB4U	50	2.1	EPSCRW2.5U/4U	50	2.3
Partition Plate					PPSCRW2.5U/4U	50	2
Mounting Rail		DIN 32G DIN 35U DIN 35-15U	50 M 50 M 50 M	750 360 700	DIN 32G DIN 35U DIN 35-15U	50 M 50 M 50 M	750 360 700
End Clamp**		ES3S ES2N	100 50	7.0 7.4	ES3S ES2N	100 50	7.0 7.4
Permanent Shorting Links	2 way 3 way 4 way 10 way	PSL06/2 PSL06/3 PSL06/4 PSL06/10	100 100 100 100	0.3 0.5 0.7 1.7			
Short Sleeve for quick Permanent Shorting		SS06	100	1.16			
Removable Shorting Link		RSL6	100	0.25			
Comb Link	2 way 3 way 4 way 10 way				CL6/2 CL6/3 CL6/4 CL6/10	100 100 100 50	1.2 1.8 2.4 6.0
Marking Tags (K Type)		KM/6	100	0.1	KM/6	100	0.1

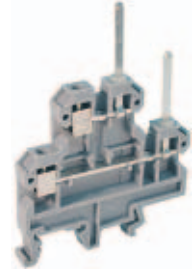**Other End Clamps, ES1S, ES2S and ES3N can also be used.

* Recommended Lugs: AMP 42844:1 or equivalent.
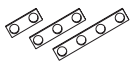
Clip Connection Terminal Blocks

SCRW4UCLIP and DBL4UCLIP are terminals for Clip Connection (solderless) according to DIN 41611-Part-4. Three wires (0.5 sq.mm) can be connected with clip on to the pin by using special tool. In order to provide a reliable connection, attention must be paid to the size of the clip suitable for pin of size 0.8 x 1.6 mm
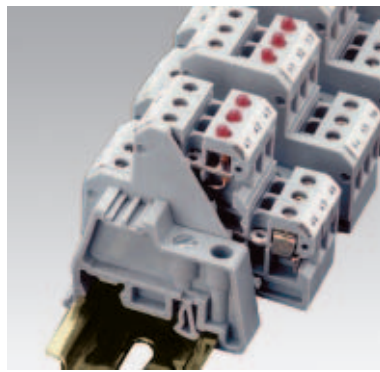
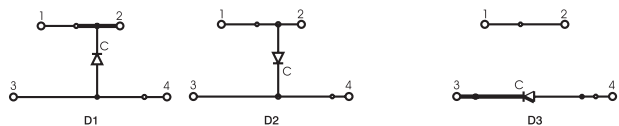|		SCRW4UCLIP			DBL4UCLIP		
Terminal Pitch		6 mm			6 mm		
Height x Width		67 x 43 mm			84 x 55.5 mm		
Stripping Length		9 mm			9 mm		
Insulation Material		Polyamide 6.6			Polyamide 6.6		
Type of Connection		1 screw connection and 1 blade for 3 (0.5 sq.mm) connection			2 screw connections and 2 blades for 6 (0.5 sq.mm) connection		
Approvals		CSA Standard	IEC Standard	UL Standard	CSA Standard	IEC Standard	UL Standard
Rated Cross Section		22-12 AWG	0.5 - 4 sq.mm	22-12 AWG	22-12 AWG	0.5 - 4 sq.mm	22-12 AWG
Voltage Rating		300 V	250 V	300 V	300 V	250 V	300 V
Current Rating		10 A	10 A	10 A	10 A	10 A	10 A
Tab Blade Size (mm)		2.4 x 0.8 mm			2.4 x 0.8 mm		
		Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station		SCRW4UCLIP	100	8.0	DBL4UCLIP	50	15
End Plate		EPSCRW2.5U/4U	50	1.7	EPDBL4U	50	2.5
Mounting Rail		DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700
End Clamp		ES2N ES3N	50 50	7.4 4.5	ES2N ES3N	50 50	7.4 4.5
Pre Assembled Shorting Links	2 way 3 way 4 way 10 way	PASL06/2 PASL06/3 PASL06/4 PASL06/10	100 50 50 10		PASL6/2A PASL6/3A PASL6/4A PASL6/10A	100 50 50 10	1.1 1.25 1.5 9.5
Insulated Pre Assembled Shorting Link	2 way 3 way 4 way 10 way	PASLN06/2 PASLN06/3 PASLN06/4 PASLN06/10	100 50 50 10		PASLN6/2A PASLN6/3A PASLN6/4A PASLN6/10A	100 50 50 10	
Permanent Shorting Links	2 way 3 way 4 way 10 way	PSL06/2 PSL06/3 PSL06/4 PSL06/10	100 100 100 100	0.3 0.5 0.7 1.7	PSL06/2 PSL06/3 PSL06/4 PSL06/10	100 100 100 100	0.3 0.5 0.7 1.7
Short Sleeve & Screw for Quick Permanent Shorting		SS02	100	1.16	SS01	100	0.7
Insulated Comb Type Shorting Link	2 way 3 way 4 way 10 way	CL6/2 CL6/3 CL6/4 CL6/10	100 100 100 50	1.2 1.8 2.4 6.0	CL6/2B CL6/3B CL6/4B CL6/10B	100 100 100 50	1.2 1.8 2.4 6.0
Marking Tags Continuous 90mm	(K Type) Strip	KM/6 KM/9F	100 10	0.07	KM/2	100	0.02

Terminals with Electronic Components

In various applications where input signals have to be converted and indications are required or circuit protection is called for, use of terminals with electronic components is recommended. For such applications, different terminals incorporating specific components are offered. Based on customer requirements, specially assembled terminals can also be offered.

DBL4UO - double level terminals with open current bar at bottom level with extra drilled hole can accommodate electronic components like diodes, resistors, LEDs etc. as per the application.

	DBL4UED1/D2 (With arc suppression circuit for contactors and solenoid valves)			**DBL4UED3** (Diode circuit for reverse polarity protection)		
Type	D1 / D2			D3		
Voltage	300 V ~			300 V ~		
Diode	1N 4007			1N 4007		
Diode Reverse Voltage	1000 V			1000 V		
Diode Current	1 A			1 A		
Connection Possibility — Stranded Wire / Solid Wire	0.5 to 4 sq.mm / 0.5 to 6 sq.mm			0.5 to 4 sq.mm / 0.5 to 6 sq.mm		
Stripping Length	9 mm			9 mm		
Terminal Dimension H x W x T (mm)	54 x 55.5 x 6			54 x 55.5 x 6		
Approvals	cSUSus	CE	cULus	cSUSus	CE	cULus
Rated Cross Section	22-12 AWG	0.5-4 sq.mm	22-10 AWG	22-12 AWG	0.5-4 sq.mm	22-10 AWG
Voltage Rating	600 V	400 V	600 V	600 V	400 V	600 V
Current Rating	25 A	32 A	25 A	25 A	32 A	25 A
Torque	7 lb-in	0.5 Nm	7 lb-in	7 lb-in	0.5 Nm	7 lb-in

	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station	DBL4UED1 / DBL4UED2	100 / 100	13 / 13	DBL4UED3	100	13
End Plate	EPDBL4U	50	2.5	EPDBL4U	50	2.5
Mounting Rail	DIN 32G / DIN 35U / DIN 35-15D	50 M / 50 M / 50 M	750 / 360 / 700	DIN 32G / DIN 35U / DIN 35-15D	50 M / 50 M / 50 M	750 / 360 / 700
Permanent Shorting Link — 2 way / 3 way / 4 way / 10 way	PSL06/2 / PSL06/3 / PSL06/4 / PASL/10A	100 / 100 / 100 / 100	0.3 / 0.5 / 0.7 / 1.9	PSL06/2 / PSL06/3 / PSL06/4 / PASL/10A	100 / 100 / 100 / 100	0.3 / 0.5 / 0.7 / 1.9
Short Sleeve for quick permanent shorting	SS01	100	0.7	SS01	100	0.7
Marking Tags (K Type)	KM/2	100	0.02	KM/2	100	0.02

- One connector with 4 clamps on 2 levels equipped with anti return diode .
- Shorting possibility for adjacent terminals on both levels.
- \# In DBL4UED1, cathode of anti return diode is connected on the upper level.
- \# In DBL4UED2, cathode of anti return diode is connected on the lower level.

- One connector with 4 clamps on 2 levels equipped with diode (cathode on either side) on lower level.
- Shorting possibility for adjacent terminals on both levels.

DBL4UEDD1/DD2
(Diode circuit for lamp testing)
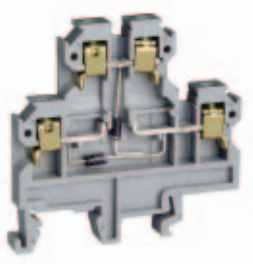
DBL4UEDD3/DD4
(Diode circuit for lamp testing)

DBL4UED4
(Diode circuit for lamp testing)

DBL4UEDD5
(Diode circuit for lamp testing)

DBL4UEDD1/DD2	DBL4UEDD3/DD4	DBL4UED4	DBL4UEDD5
DD1/DD2 300 V ~	DD3/DD4 300 V ~	D4 12 V - , 24 V -	DD5 12 V ~, 24 V ~
1N 4007	1N 4007	1N 4007	1N 4007
1000 V	1000 V	1000 V	1000 V
1 A	1 A	1 A	1 A
0.5 to 4 sq.mm / 0.5 to 4 sq.mm	0.5 to 4 sq.mm / 0.5 to 6 sq.mm	0.5 to 4 sq.mm / 0.5 to 6 sq.mm	0.5 to 4 sq.mm / 0.5 to 6 sq.mm
9 mm	9 mm	9 mm	9 mm
54 x 55.5 x 6	54 x 55.5 x 6	54 x 55.5 x 6	54 x 55.5 x 6

	DBL4UEDD1/DD2			DBL4UEDD3/DD4			DBL4UED4			DBL4UEDD5	
22-12 AWG	0.5-4 sq.mm	22-10 AWG	22-12 AWG	0.5-4 sq.mm	22-10 AWG	22-12 AWG	0.5-4 sq.mm	22-10 AWG	22-12 AWG	0.5-4 sq.mm	22-10 AWG
600 V	400 V	600 V	600 V	400 V	600 V	600 V	400 V	600 V	600 V	400 V	600 V
25 A	32 A	25 A	25 A	32 A	25 A	25 A	32 A	25 A	25 A	32 A	25 A
7 lb-in	0.5 Nm	7 lb-in	7 lb-in	0.5 Nm	7 lb-in	7 lb-in	0.5 Nm	7 lb-in	7 lb-in	0.5 Nm	7 lb-in

Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
DBL4UEDD1	100	13
DBL4UEDD2	100	13
EPDBL4U	50	2.5
DIN 32G	50 M	750
DIN 35U	50 M	360
DIN 35-15D	50 M	700
PSL06/2	100	0.3
PSL06/3	100	0.5
PSL06/4	100	0.7
PASL/10A	100	1.9
SS01	100	0.7
KM/2	100	0.02

Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
DBL4UE DD3	100	13
DBL4UE DD4	100	13
EPDBL4U	50	2.5
DIN 32G	50 M	750
DIN 35U	50 M	360
DIN 35-15D	50 M	700
PSL06/2	100	0.3
PSL06/3	100	0.5
PSL06/4	100	0.7
PASL/10A	100	1.9
SS01	100	0.7
KM/2	100	0.02

Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
DBL4UED4	100	13
EPDBL4U	50	2.5
DIN 32G	50 M	750
DIN 35U	50 M	360
DIN 35-15D	50 M	700
PSL06/2	100	0.3
PSL06/3	100	0.5
PSL06/4	100	0.7
PASL/10A	100	1.9
SS01	100	0.7
KM/2	100	0.02

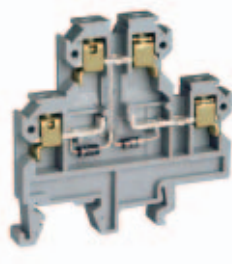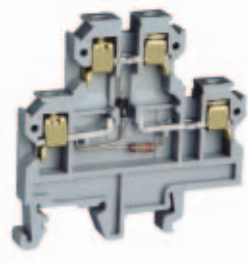| Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
DBL4UEDD5	100	13
EPDBL4U	50	2.5
DIN 32G	50 M	750
DIN 35U	50 M	360
DIN 35-15D	50 M	700
PSL06/2	100	0.3
PSL06/3	100	0.5
PSL06/4	100	0.7
PASL/10A	100	1.9
SS01	100	0.7
KM/2	100	0.02

DD1   DD2

DD3   DD4

D4

DD5
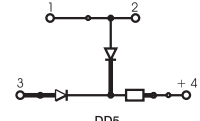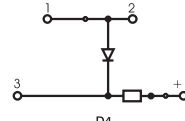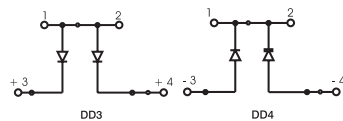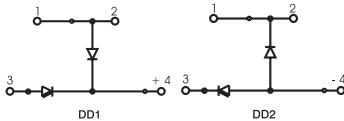
DBL4UEDD1/DD2
- One connector with 4 clamps on 2 levels.
- Shorting possibility for adjacent terminals on both levels.
In DBL4UEDD1, one +ve output on the lower level.
In DBL4UEDD2, one -ve output on the lower level.

DBL4UEDD3/DD4
- One connector with 4 clamps on 2 levels.
- Shorting possibility for adjacent terminals on both levels.
In DBL4UEDD3, two +ve output on the lower level.
In DBL4UEDD4, two -ve output on the lower level.

DBL4UED4
- One +ve output on lower level
- One connector with 4 clamps on 2 levels.
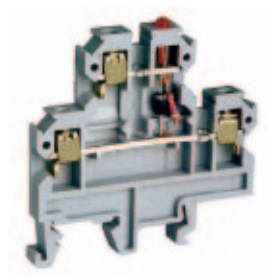- Shorting possibility for adjacent terminals on both levels.

DBL4UEDD5
- One +ve output on lower level
- One connector with 4 clamps on 2 levels.
- Shorting possibility for adjacent terminals on both levels.

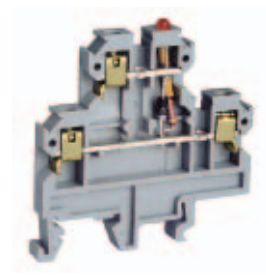|	DBL4UELD3			DBL4UELD4			DBL4UELD5		
	(A.C / D.C Voltage indicator with LED)			(A.C / D.C Voltage indicator with LED)			(A.C Voltage indicator with LED)		
Type Voltage	LD3 12V AC, 12V DC, 24V AC, 24V DC			LD4 24V AC, 24V DC, 48V AC, 48V DC			LD5 24V AC, 48V AC, 110V AC, 220V AC		
Diode	1N 4007			1N 4007			1N 4007		
Diode Reverse Voltage									
Diode Current									
Connection Possibility Stranded Wire / Solid Wire	0.5 to 4 sq.mm 0.5 to 6 sq.mm			0.5 to 4 sq.mm 0.5 to 6 sq.mm			0.5 to 4 sq.mm 0.5 to 6 sq.mm		
Stripping Length	9 mm			9 mm			9 mm		
Terminal Dimension H x W x T (mm)	54 x 55.5 x 6			54 x 55.5 x 6			54 x 55.5 x 6		
Approvals	cSLus	CE	cRUus	cSLus	CE	cRUus	cSLus	CE	cRUus
Rated Cross Section	22-12 AWG	0.5-4 sq.mm	22-10 AWG	22-12 AWG	0.5-4 sq.mm	22-10 AWG	22-12 AWG	0.5-4 sq.mm	22-10 AWG
Voltage Rating	600 V		600 V	600 V		600 V	600 V		600 V
Current Rating	25 A	32 A	25 A	25 A	32 A	25 A	25 A	32 A	25 A
Torque	7 lb-in	0.5 Nm	7 lb-in	7 lb-in	0.5 Nm	7 lb-in	7 lb-in	0.5 Nm	7 lb-in

	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station	DBL4UELD3	50	13	DBL4UELD4	50	13	DBL4UELD5	50	13
End Plate	EPDBL4U	50	2.5	EPDBL4U	50	2.5	EPDBL4U	50	2.5
Mounting Rail	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700
Permanent Shorting Link 2 way 3 way 4 way 10 way	PSL06/2 PSL06/3 PSL06/4 PASL/10A	100 100 100 100	0.3 0.5 0.7 1.9	PSL06/2 PSL06/3 PSL06/4 PASL/10A	100 100 100 100	0.3 0.5 0.7 1.9	PSL06/2 PSL06/3 PSL06/4 PASL/10A	100 100 100 100	0.3 0.5 0.7 1.9
Short Sleeve for quick permanent shorting	SS01	100	0.7	SS01	100	0.7	SS01	100	0.7
Marking Tags (K Type)	KM/2	100	0.02	KM/2	100	0.02	KM/2	100	0.02

LD3

LD4

LD5

- -ve on lower level
- One connector with 3 clamps on 2 levels equipped with protected LED.
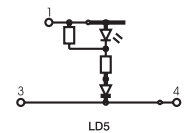- Shorting possibility for adjacent terminals on both levels.

- +ve on lower level
- One connector with 3 clamps on 2 levels equipped with protected LED.
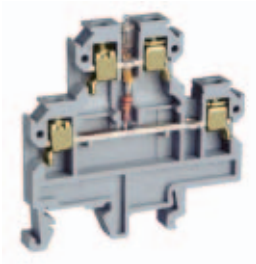- Shorting possibility for adjacent terminals on both levels.

- One connector with 3 clamps on 2 levels.
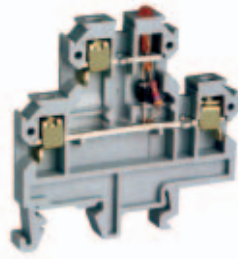- Shorting possibility for adjacent terminals on both levels.

DBL4UEN1	DBL4UELD1/LD2	DBL4UEL1/L2	DBL4UO
(A.C Voltage indicator with Neon lamp)	(D.C Voltage indicator with LED)	(D.C Voltage indicator with LED)	

DBL4UEN1	DBL4UELD1/LD2	DBL4UEL1/L2	DBL4UO
N1 110V AC to 220V AC	LD1 / LD2 24V AC	L1/L2 6V AC, 24V AC, 60V AC	DBL4UO
	1N 4007	1N 4007	
0.5 to 4 sq.mm 0.5 to 4 sq.mm	0.5 to 4 sq.mm 0.5 to 4 sq.mm	0.5 to 4 sq.mm 0.5 to 4 sq.mm	0.5 to 4 sq.mm 0.5 to 4 sq.mm
9 mm	9 mm	9 mm	9 mm
54 x 55.5 x 6	54 x 55.5 x 6	54 x 55.5 x 6	54 x 55.5 x 6

	DBL4UEN1			DBL4UELD1/LD2			DBL4UEL1/L2			DBL4UO		
	cSPus	CE	cULus	cSPus	CE	cULus	cSPus	CE	cULus	cSPus	CE	cULus
	22-12 AWG	0.5-4 sq.mm	22-10 AWG	22-12 AWG	0.5-4 sq.mm	22-10 AWG	22-12 AWG	0.5-4 sq.mm	22-10 AWG	22-12 AWG	0.5-4 sq.mm	22-10 AWG
	600 V		600 V	600 V		600 V	600 V		600 V	600 V	400 V	600 V
	25 A	32 A	25 A	25 A	32 A	25 A	25 A	32 A	25 A	25 A	32 A	25 A
	7 lb-in	0.5 Nm	7 lb-in	7 lb-in	0.5 Nm	7 lb-in	7 lb-in	0.5 Nm	7 lb-in	7 lb-in	0.5 Nm	7 lb-in
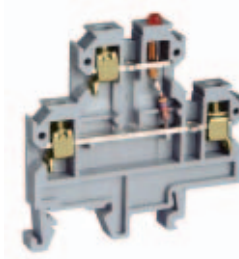
Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
DBL4UEN1	50	13	#DBL4UELD1 #DBL4UELD2	50 50	13 13	#DBL4UEL1 #DBL4UEL2	50 50	13 13	DBL4UO	100	13
EPDBL4U	50	2.5	EPDBL4U	50	2.5	EPDBL4U	50	2.5	EPDBL4U	50	2.5
DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700
PSL06/2 PSL06/3 PSL06/4 PASL/10A	100 100 100 100	0.3 0.5 0.7 1.9	PSL06/2 PSL06/3 PSL06/4 PASL/10A	100 100 100 100	0.3 0.5 0.7 1.9	PSL06/2 PSL06/3 PSL06/4 PASL/10A	100 100 100 100	0.3 0.5 0.7 1.9	PSL06/2 PSL06/3 PSL06/4 PASL/10A	100 100 100 100	0.3 0.5 0.7 1.9
SS01	100	0.7	SS01	100	0.7	SS01	100	0.7	SS01	100	0.7
KM/2	100	0.02	KM/2	100	0.02	KM/2	100	0.02	KM/2	100	0.02

N1

LD1   LD2

L1   L2

DBL4UEN1
- One terminal with 4 clamps on 2 levels.
- Shorting possibility for adjacent terminals on lower level.

DBL4UELD1/LD2
- One terminal with 3 clamps on 2 levels equipped with protected LED and protection for associated circuit at the output side.
- **Caution** : Reversal of polarity may damage the source.
- # In DBL4UELD1, –ve on the lower level.
- # In DBL4UELD2, +ve on the lower level.

DBL4UEL1/L2
- One terminal with 3 clamps on 2 levels with non protected LED.
- Shorting possibility for adjacent terminals on both levels.
- # In DBL4UEL1, –ve on the lower level.
- # In DBL4UEL2, +ve on the lower level.
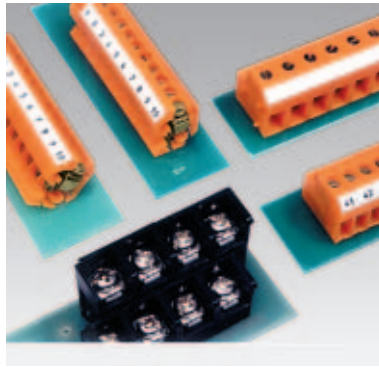
Printed Circuit Board Modular Terminals

The modular PCB terminals are designed for mounting on PCBs with 5mm, 7.5mm and 11mm hole pitch. For 7.5 mm hole pitch, individual PCBM/PCB5 should be fitted with end plate.

The terminals have marker holding recess to accept international "K" type marking tags.

Special Features of PCB Series Terminals are
- Terminals can be interlocked to achieve multipole connections
- PCBM terminals are available in different mounting to suit horizontal, Angular (45°) and vertical entry of wire.
- PCB5 and PCB7.5 terminals for two pin mounting/ connection provide extra support in mounting.
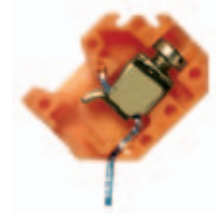
PCBDBL11 terminals besides offering extra support for mounting, facilitate higher density of wiring by double level connections. A PCBDBL11 terminal block offers 4 pin mounting and termination of 4 wires.

		PCBM5H			PCBM5A		
Terminal Pitch		5 mm			5 mm		
Height x Width		19 x 14.5 mm			17 x 22 mm		
Connection Possibility	Stranded Wire / Solid Wire	Upto 2.5 sq.mm / Upto 2.5 sq.mm			Upto 2.5 sq. mm / Upto 2.5 sq. mm		
Stripping Length		7 mm			7 mm		
Insulation Material		Polyamide 6.6			Polyamide 6.6		
Type of Connection		1 screw clamp and 1 solder pin			1 screw clamp and 1 solder pin		
Approvals		cSPus	CE	cULus	cSPus	CE	cULus
Rated Cross Section		22-14 AWG	0.5-2.5 sq.mm	22-14 AWG	22-14 AWG	0.5-2.5 sq.mm	22-14 AWG
Voltage Rating		300 V	250 V	300 V	300 V	250 V	300 V
Current Rating		16 A	16 A	16 A	16 A	16 A	16 A
Torque		7 lb-in	0.4 Nm	7 lb-in	7 lb-in	0.4 Nm	7 lb-in
		Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station		PCBM5H	50	1.8	PCBM5A	50	1.8
End Plate / Spacer		EPPCB	50	0.2	EPPCB	50	0.2
Marking Tag		KM/4	100	0.01	KM/4	100	0.01

PCBM5V			PCB5			PCB7.5			PCBDBL11		

PCBM5V			PCB5			PCB7.5			PCBDBL11		
5 mm			5 mm			7.5 mm			11 mm		
14.5 x 19 mm			18 x 19 mm			19 x 19 mm			28 x 22 mm		
Upto 2.5 sq. mm Upto 2.5 sq. mm			Upto 2.5 sq. mm Upto 0.5 to 4 sq. mm			Upto 2.5 sq. mm Upto 0.5-4 sq. mm			Upto 2.5 sq. mm		
7 mm			7 mm			9 mm			20 mm		
Polyamide 6.6			Polyamide 6.6			Polyamide 6.6			Polyamide 6.6		
1 screw clamp and 1 solder pin			1 screw clamp and 2 solder pins			1 screw clamp and 2 solder pins			4 screw clamps and 4 solder pins		
22-14 AWG	0.5-2.5 sq.mm	22-14 AWG	22-14 AWG	0.5-2.5 sq.mm	22-14 AWG	22-14 AWG	0.5-2.5 sq.mm	22-14 AWG	22-12 AWG	0.5-2.5 sq.mm	22-12 AWG
300 V	250 V	300 V	300 V	250 V	300 V	300 V	450 V	300 V	300 V	300 V	300 V
16 A	16 A	16 A	18 A	18 A	##18 A	18 A	18 A	##18 A	25 A	24 A	##25 A
7 lb-in	0.4 Nm	7 lb-in	7 lb-in	0.4 Nm	7 lb-in	7 lb-in	0.5 Nm	7 lb-in	7 lb-in	1.2 Nm	14 lb-in
Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
PCBM5V	50	1.8	PCB5	50	2.4	PCB7.5	50	3.7	PCBDBL11	50	16
EPPCB	50	0.2	ESPCB	50	0.3						
KM/4	100	0.01	KM/4	100	0.01	KM/7.5	100	0.1			

Limited VA rating of 10 A maximum at 300 V for General Industrial use.

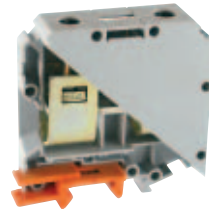# High Current, Feed-Through Screw Clamp Terminals

Universal mounting, feed-through terminal blocks for wires of large cross section and high current application provide gas tight and reliable electrical connection with very low contact resistance.

The specially designed slot in the terminal block feet can be used for mounting and dismounting from the rail with the help of a screw driver.
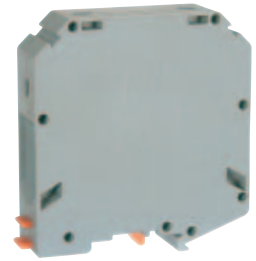
The terminal has marker holding recess to accept international 'K' type and group marker.

	SCRW50U			SCRW95U		
Terminal Pitch	20.5 mm			25 mm		
Height x Width	75.5 x 71 mm			90 x 83 mm		
Connection Possibility Stranded Wire Solid Wire	16 to 50 sq.mm 16 to 70 sq.mm			16 to 95 sq.mm 16 to 120 sq.mm		
Stripping Length	22 mm			24 mm		
Insulation Material	Polyamide 6.6			Polyamide 6.6		
Type of Connection	2 screw clamps connection			2 Grub screw clamps connection		
Approvals *	CSA Standard	CE	c**UL**us	CSA Standard	CE	c**UL**us
Rated Cross Section	2/0 -6 AWG	16-50sq.mm	2/0 -6 AWG	4/0 -2 A.WG	16 - 95 sq.mm	4/0 -2 AWG
Voltage Rating	600 V	1000 V	600 V	600 V	1000 V	600 V
Current Rating	150 A	150 A	150 A	230 A	232 A	230 A
Torque	60 lb-in	6.8 Nm	60 lb-in	160 lb-in	18.2 Nm	160 lb-in
	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Station	SCRW50U	20	120	SCRW95U	10	210
Mounting Rail	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700
End Clamp	ES3S ES2N	100 50	7.0 7.4	ES3S ES2N	100 50	7.0 7.4
Marking Tags (K Type)	KM/50	100	0.1	KM/95	100	0.1
Group Marker (K Type)	KM/G2	100	0.1	KM/G2	100	0.1

* Proposed ratings as per CSA standards.

Active Terminal Blocks

The active terminals blocks are with built-in electronic components for surge protection. These terminals are used in applications where circuit protection against transient over voltage is required.

The terminals are designed to protect a single line against longitudinal (line / earth) surges, thereby protecting the distribution.
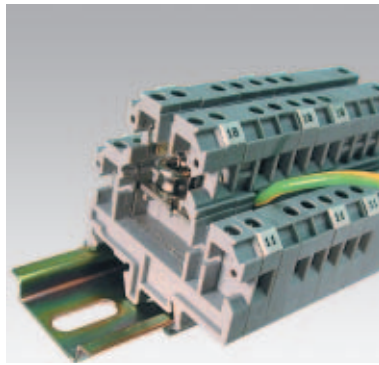
DBL4UERES - Single changeover relay terminal is used for switching loads in PLC application.
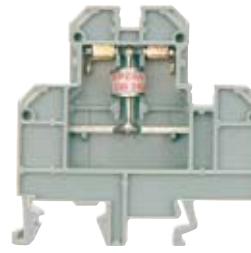
Note :
• DBL4UESDU - For DC applications.
• DBL4UESDB - For AC applications.
  A - Anode
  K - Cathode
• SDUX - 48 V , 3.2 A, 400 V AC is available in SDUB type at current rating 4A.

DBL4USP - spacer can be used for covering custom electronic components, which may protrude outside the DBL4UO terminal block.

Please refer for terminals with custom specified surge suppression requirement.

	DBL4UELA	DBL4UE3LA
Terminal Pitch	12 mm	12 mm
Height x Width	54 x 55.5 mm	54 x 55.5 mm
Stripping Length	9 mm	9 mm
Insulation Material	Polyamide 6.6	Polyamide 6.6
Type of Connection	4 Screw Clamps	4 Screw Clamps
Wire Range	0.5 - 4 sq.mm / 22-10 AWG	0.5 - 4 sq.mm / 22-10 AWG
Voltage Rating	75 V, 90 V, 240 V, 600 V, 1000 V DC	90 V, 250 V, 350 V, 450 V DC
Impulse Discharge Current	20 KA (8/20µs)	10 KA (8/20µs)
Alternating Discharge Current at 50 Hz	20 A	10 A
Response Time	100 ns	100 ns
Normal Current	10 A	5 A
Capacitance	< 1.5 pF	< 1.0 pF

	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams	Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Block [Prefix DBL4UE to Type Cat.No]	LA 75 V - LA 90 V - LA 240 V - LA 600 V - LA 1000 V -	20 20 20 20 20	32 32 32 32 32	3LA 90 V - 3LA 250 V - 3LA 350 V - 3LA 450 V -	20 20 20 20	32 32 32 32
End Plate	EPDBL4U	50	2.5	EPDBL4U	50	2.5
Spacer for terminal	DBL4USP	50		DBL4USP	50	
Mounting Rail	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700	DIN 32G DIN 35U DIN 35-15D	50 M 50 M 50 M	750 360 700
End Clamp	ES2N ES3N	50 50	7.4 4.5	ES2N ES3N	50 50	7.4 4.5
Marking Tags (K Type)	KM/2	100	0.02	KM/2	100	0.02

DBL4UEMOV	DBL4UESD	DBL4UERC	DBL4UERES
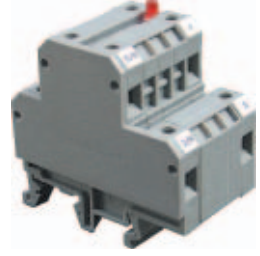
12 mm	12 mm	12 mm	32.5 mm
54 x 55.5 mm	54 x 55.5 mm	54 x 55.5 mm	54 x 55.5 mm
9 mm	9 mm	9 mm	9 mm
Polyamide 6.6	Polyamide 6.6	Polyamide 6.6	Polyamide 6.6
4 Screw Clamps	4 Screw Clamps	4 Screw Clamps	4 Screw Clamps & 1C Relay, 10 A
0.5 - 4 sq.mm / 22-10 AWG	0.5 - 4 sq.mm / 22-10 AWG	0.5 - 4 sq.mm / 22-10 AWG	0.5 - 4 sq.mm / 22-10 AWG
30 V, 60 V, 75 V, 130 V, 275 V, 460 V, 510 V, 625 V, 680 V	12 V to 48 V - / 12 V to 160 V ~	250 V ~ / 630 V -	12 V, 18 V, 24 V, 48 V D.C (Coil Voltage)
2 KA - 6.5 KA (8/20µs)	1.5 KW	20 A	
< 25 ns	1 ns (D.C) / 5 ns (A.C)		8 ms
10 A	10 A	10 A	5 A - 230 V ~ / 24 V - 10 A - 120 V ~ / 12 V -

Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams		Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams		Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams		Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
MOV 30 V ~	20	35		SDUA15V	20	35		RC 0.1 µf	10	60		RES12 V -	10	60
MOV 60 V ~	20	35		SDUA24V	20	35		RC 0.22 µf	10	60		RES18 V -	10	60
MOV 75 V ~	20	35		SDUA48V	20	35						RES24 V -	10	60
MOV 130 V ~	20	35		SDUK15V	20	35						RES48 V -	10	60
MOV 275 V ~	20	35		SDUK24V	20	35								
MOV 460 V ~	20	35		SDUK48V	20	35								
MOV 510 V ~	20	35		SDB15V	20	35								
MOV 625 V ~	20	35		SDB24V	20	35								
MOV 680 V ~	20	35		SDB48V	20	35								
				SDB160V	20	35								
EPDBL4U	50	2.5		EPDBL4U	50	2.5		EPDBL4U	50	2.5		EPDBL4U	50	2.5
DBL4USP	50			DBL4USP	50			DBL4USP	50			DBL4USP	50	
DIN 32G	50 M	750		DIN 32G	50 M	750		DIN 32G	50 M	750		DIN 32G	50 M	750
DIN 35U	50 M	360		DIN 35U	50 M	360		DIN 35U	50 M	360		DIN 35U	50 M	360
DIN 35-15D	50 M	700		DIN 35-15D	50 M	700		DIN 35-15D	50 M	700		DIN 35-15D	50 M	700
ES2N	50	7.4		ES2N	50	7.4		ES2N	50	7.4		ES2N	50	7.4
ES3N	50	4.5		ES3N	50	4.5		ES3N	50	4.5		ES3N	50	4.5
KM/2	100	0.02		KM/2	100	0.02		KM/2	100	0.02		KM/2	100	0.02

SDUA   SDUK
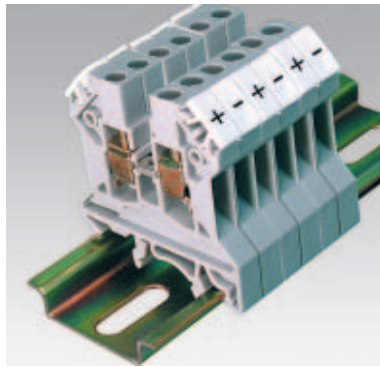
SDB

COIL INPUT

COMMON CONTACT

NO CONTACT

NO CONTACT
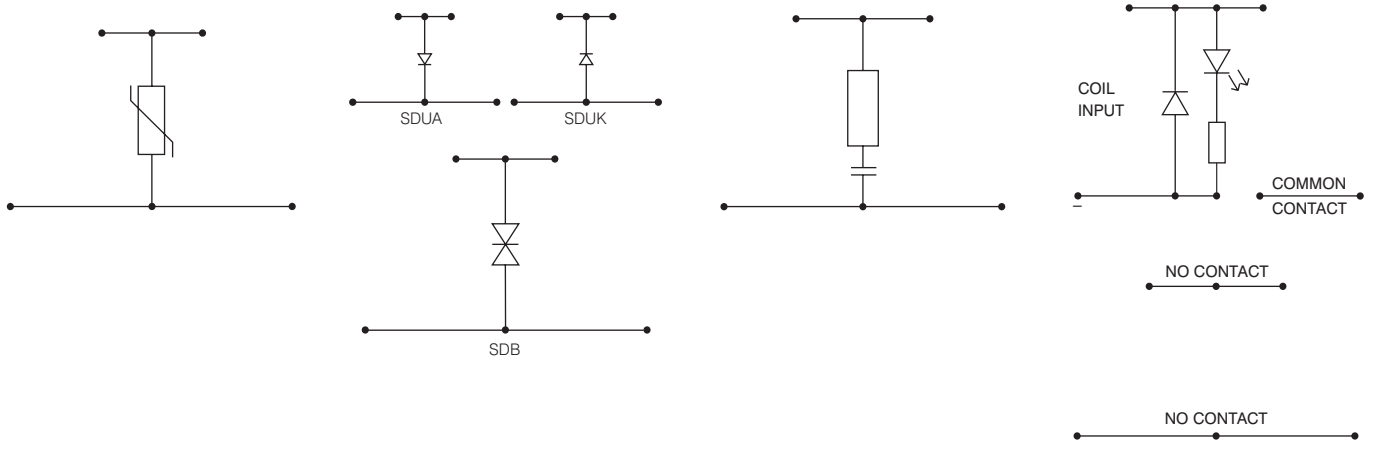
Thermocouple Terminal Blocks

Thermocouple terminal blocks are offered for accurate measurement of temperature. The sensing part of terminal block has the same material (DIN 43713 & DIN 43714) as for compensating cables used in temperature measurement (upto 200º C) fulfilling the accuracy stated in DIN EN 60584.

The terminal blocks are marked for the respective thermocouple material used for the current bars, which enables easy identification for wiring.
- 'K' type - Chromel (Ni/Cr) + Alumel (Ni/Al) -
- 'J' type - Iron (Fe) + Constantan (Cu/Ni) -
- 'T' type - Copper (Cu) + Constantan (Cu/Ni) -

Please refer for other types of thermocouple terminal blocks.

TH2.5U

		TH2.5U
Terminal Pitch		10 mm
Height x Width		45 x 43 mm
Connection Possibility	Stranded Wire Solid Wire	0.5 to 2.5 sq.mm 0.5 to 4 sq.mm
Stripping Length		9 mm
Insulation Material		Polyamide 6.6
Type of Connection		4 screw clamps connection

Approvals	CSA Standard	IEC Standard	UL Standard
Rated Cross Section	24-14 AWG	0.5-2.5 sq.mm	24-14 AWG
Voltage Rating	300 V	750 V	300 V
Current Rating	10 A	10 A	10 A
Torque	7 lb-in	0.5 Nm	7 lb-in

		Type Cat No.	Std. Packing in Nos.	Wt Per unit in Grams
Terminal Block		TH2.5UK TH2.5UJ TH2.5UT	50 50 50	12 12 12
End Plate		EPSCRW2.5U/4U	50	1.7
Partition Plate		PPSCRW2.5U/4U	50	2.3
Separator Plate		SPSCRW2.5U/4U	100	0.1
Mounting Rail		DIN 32G DIN 35U DIN 35-15U	50 M 50 M 50 M	750 360 700
End Clamp		ES2N ES3N	50 50	7.4 4.5
Marking Tags		KM/5	100	0.07

Shorting Stud

Removable Link

Group Marker

Shorting Screw

Marking Tag

Permanent Link

Partition Plate

Shorting Sleeve

Terminal

End Plate

End Clamp

Comb Link

Mounting Rail
DIN 35

Mounting Rail
DIN 35-15

Mounting Rail
DIN 32

Mounting Bracket
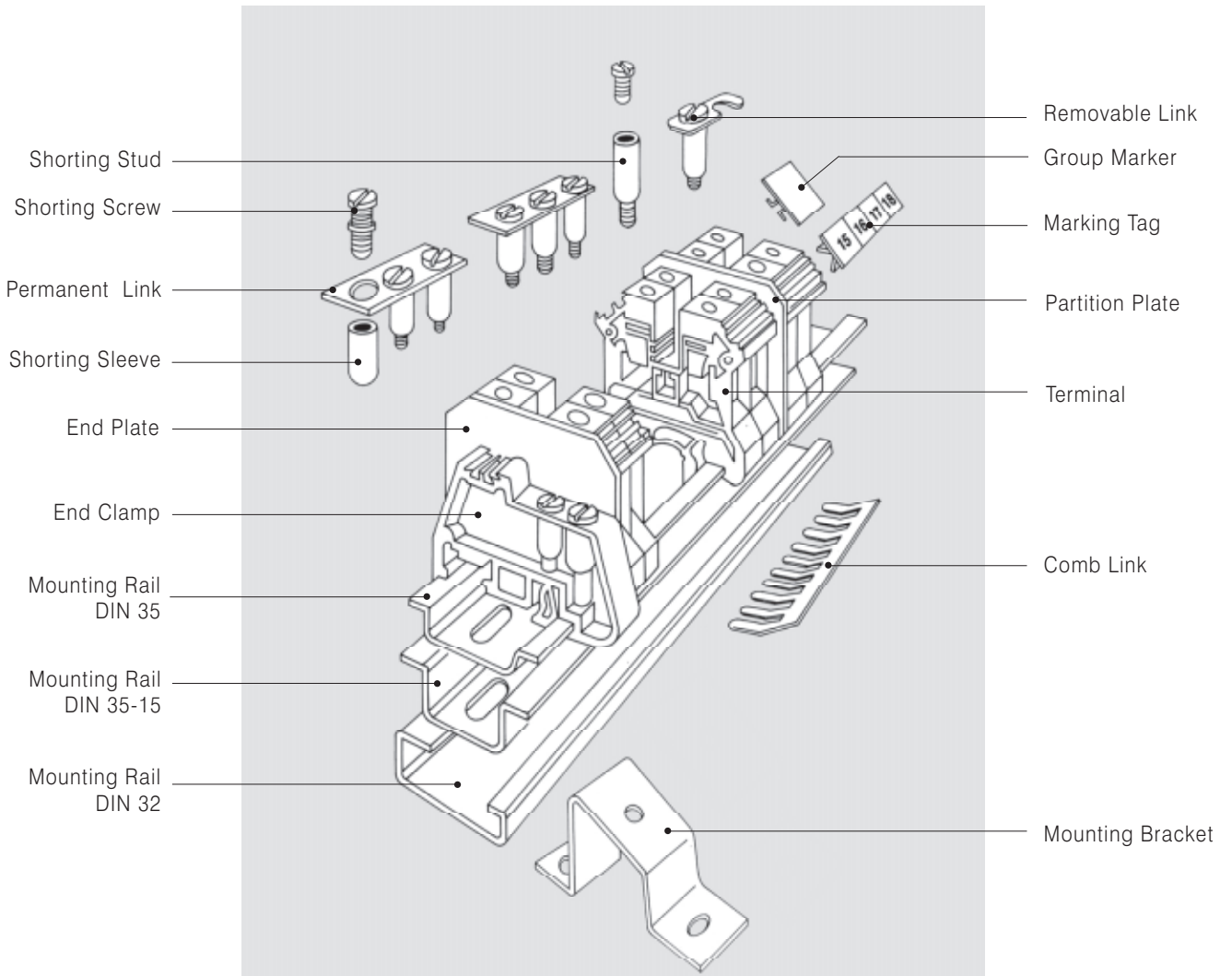
End Clamps/Stops

The End Clamps keep the terminal block assembly securely in position. End Clamp should be fixed on both sides of terminal block assembly for rigidity and sturdiness.

The end clamps in Polyamide 6.6 have suitable recess to accommodate marking tag for group identification.

ES1S	ES2S	ES3S	ES1N
39.5 x 27 x 16 mm Suitable for DIN 35 Rail. (Steel)	39.5 x 27 x 16 mm Suitable for DIN 35-15 Rail. (Steel)	25 x 22.5 x 11.5 mm Suitable for DIN 32 Rail. (Steel)	20 x 28 x 8 mm Suitable for DIN 15 Rail.

ES2N	ES3N		
34 x 44 x 9 mm Suitable for DIN 32 / DIN 35 / DIN 35 -15 Rails.	45 x 32 x 8 mm Suitable for DIN 35 / DIN 35 -15 Rails.		

Mounting Rails

Most of the terminal blocks are designed to mount on the rails that can be fixed easily on panel boards and equipment.

Three types of steel mounting rails; DIN 32, DIN 35/DIN 35-15 and DIN 15 complying to European standards EN 50035, EN 50022 and EN 50045 are offered. The rails are zinc plated and chromate passivated.

All mounting rails are available in standard 1 m and 2 m lengths. Choice of slotted/unslotted rails in DIN 32 and DIN 35 types is available.*

Mounting rails made of steel in accordance with DIN VDE 0611 Part 3 are permissible as grounding bus bars (PE function), but do not have PEN function.

*Mounting rails cut to length with holes/slots as per customer requirements can be supplied.

DIN 32 Rail	DIN 35 Rail
32 x 15 x 1.5 mm Suitable for all terminals except Micro Terminals, PCB Terminals, Modular Terminals and GN Terminals.	35 x 7.3 x 1.0 mm Suitable for all terminals except Micro Terminals, PCB Terminals, Modular Terminals and GN Terminals.

DIN 35 - 15 Rail	DIN 15 Rail
35 x 15 x 1.5 mm Suitable for all terminals except Micro Terminals, PCB Terminals, Modular Terminals and GN Terminals.	15 x 5 x 1.0 mm Suitable for Micro Terminals

Mounting Brackets

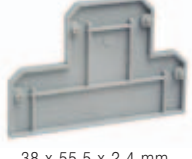Mounting brackets are used for installation of mounting rails at an angle to facilitate better access and for more clearance from surface of the panel. The mounting brackets are zinc plated and chromate passivated.

MTGBKT18	MTKGBASE18
Suitable for all Mounting Rails.	58 x 18 x 18 mm mounting base for panel mount terminals on DIN 35 rails. (Hole dia 4.3 - 4 Nos & 5.5 - 2 Nos)

End Plates (Polyamide 6.6)

End Plates are used to cover the live parts of the last terminal block in the assembly.

End plates must also be inserted when different size terminals are used in the assembled blocks for rigidity.

EPSCRW2.5U/4U	EPSCRW6U/10U	EPSCRW25U	EPSCRW35U	
30 x 39 x 2.6 mm Suitable for SCRW2.5U/4U	31 x 42.5 x 1.5 mm Suitable for SCRW6U/10U	40 x 48 x 2 mm Suitable for SCRW25U	43 x 50 x 1.5 mm Suitable for SCRW35U	

EPM4	EPP4	EPDBL4U	EPDBLOFF4U	EPDBLOFF4UA
22.5 x 27 x 1.5 mm Suitable for M4/4S/4SU	27 x 27 x 7 Suitable for P4	38 x 55.5 x 2.4 mm Suitable for DBL4U/4U(I.S)/4UO & all electronic terminals	49 x 68 x 5.5 mm Suitable for DBLOFF4U (Front Side)	24 x 68 x 3 mm Suitable for DBLOFF4U (Back Side)

EPF4U	EPFDBL4U	EPDISCT6U	EPKN4U	EPTAB4U
23.5 x 55.5 x 1.6 mm Suitable for F4U/ DISCTL4U/F4U(L)	49 x 87.6 x 3 mm Suitable for FDBL4U/ 4UE/4U(LR)	41 x 63 x 2.95 mm Suitable for DISCT6U	30.5 x 46.5 x 2.5 mm Suitable for KN4U	34.5 x 47 x 2.5 mm Suitable for TAB4U

EPPCB	EPPCB	EPSCRW4U 1-2	EPSCRW4U 2-2	EPFA4U
19 x 14.5 x 2.5 mm Suitable for PCBM	18 x 19 x 2.5 mm Suitable for PCB5	35.5 x 46.5 x 2.5 mm Suitable for SCRW4U1-2	40.5 x 65 x 2.5 mm Suitable for SCRW4U 2-2	32 x 72 x 1.5 mm Suitable for FA4U

EPTL2.5U	EPCAGE2.5	EPCAGE4	EPCAGE6	EPCAGEP2.5
55.8 x 84.5 x 2 mm Suitable for TL2.5U	23 x 58 x 1.5 mm Suitable for CAGE2.5	28 x 65 x 1.5 mm Suitable for CAGE4	32.5 x 72 x 2 mm Suitable for CAGE6	35 x 27.5 x 5 mm Suitable for CAGEP2.5

EPCAGE2.5 1-2	EPCAGE4 1-2			
25 x 74 x 1.5 mm Suitable for CAGE2.5 1-2	28.4 x 84.6 x 1.5 mm Suitable for CAGE4 1-2			

Type/ Cat. No.	Dimensions(HxWxT)mm	Suitable for
EPCAGE2.5	58×23×1.4	CAGE2.5
EPCAGE2.5 1-2	74.1×25.2×1.6	CAGE2.5 1-2
EPCAGE2.5 2-2	89.7×25.1×1.5	CAGE2.5 2-2
EPCAGE4	64.9×28×1.5	CAGE4
EPCAGE4 1-2	84.5×28.5×1.5	CAGE4 1-2
EPCAGE4 2-2	104.7×28.6×1.6	CAGE4 2-2
EPCAGE6	71.8×31.5×1.9	CAGE6
EPCAGE6 1-2	93.5×36.5×1.9	CAGE6 1-2
EPCAGE6 2-2	115.6×31.5×1.9	CAGE6 2-2
EPSCRW4U 1-2	44.6×35.8×2.5	SCRW4U 1-2
EPSCRW4U 2-2	65×40.8×2.5	SCRW4U 2-2
EPDBL 4U	54.8×37.7×2.3	DBL4U/DBL4U(IS)/DBL4UCLIP/DBL4UED1/D2, DBL4UED3, DBL4UEDD1/DD2, DBL4UEDD3/DD4, DBL4UED4, DBL4UEDD5, DBL4UELD3, DBL4UELD4, DBL4UELD5, DBL4UEN1, DBL4UELD1.LD2, DBL4UEL1/L2, DBL4UO, DBL4UELA, DBL4UE3LA, DBL4UEMOV, DBL4UESD, DBL4UERC, DBL4UERES
EPFDBL4U	88×66×1.5*	FDBL4U/FDBL4UE/FDBL4UE(LR)/DBLDISCTL4U
EPDBLOFF 4U	68×49×2.5	DBLOFF4U
EPDBLOFF4UA	68×24×3	DBLOFF4U
EPDISCT6U	63.1×41.1×2.9	DISCT6U/DISCT6US
EPF4U	56×23.4×1.6	F4U/F4U(L)/DISCTL4U
EPF6U	42.5×35.5×1.5	F6U/DISCTL6U
EPFA4U	32×71.9×1.6	FA4U
EPKN4U	46.6×30.2×2.5	KN4U
EPM4	27×22.4×1.6	M4/M4S
EPP4	27×27×7	P4
EPPCB	15×19×1.5*	PCBM5H, PCBM5A, PCBM5V, PCB5, PCB7.5,
EPSCRW2.5U/4U	34.2×29.7×2.6	SCRW2.5U/SCRW4U/SCRW2.5UCR/SCRW4UCR/SCRW4UTAB/ SCRW4UCLIP,TH2.5U
EPSCRW25U	48×39.8×2	SCRW25U/SCRW25UCR
EPSCRW35U	50.4×42.8×1.5	SCRW35U/SCRW35UCR
EPSCRW6U/10U	42.5×31×1.5	SCRW6U/SCRW10U/SCRW6UCR
EPSCRW16U	42.5×33.8×1	SCRW16U/SCRW 16UCR
EPTAB4U	47×34.5×2.5	TAB4U
EPTL2.5U	55.5×83.8×1.5	TL2.5U
EPTL2.5UH	55.5×60.5×1.5	TL2.5UH/TL2.5UHL
EPCAGEP2.5	35.1×27.4×5	CAGEP2.5/CAGEP2.5 2-2

* Approx.

Polyamide 6.6 Series Partition Plates

Apart from identifying and segregating terminal block groups, partition plates can be used to electrically isolate adjacent cross connection sets. It also helps to maintain the required creepage and clearances.
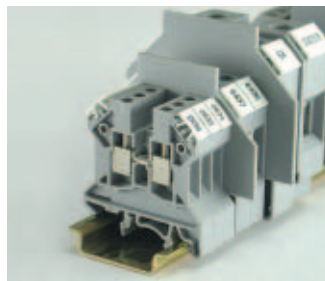
PPSCRW2.5U/4U	PPSCRW6U/10U	PPSCRW25U	PPSCRW35U	PPM4
37 x 44 x 1.6 mm Suitable for SCRW2.5U/4U	37.5 x 56.5 x 1.5 mm Suitable for SCRW6U/10U	46.5 x 16.5 x 1.5 mm Suitable for SCRW25U	50 x 61.5 x 1.5 mm Suitable for SCRW35U	32.5 x 37 x 1.6 mm Suitable for M4/4S/4SU

Polyamide 6.6 Series Partition Plates

PPF4U	SPDBL4U	SPACER8
		Spacer

42.5 x 62 x 1.5 mm
Suitable for F4U/
DISCTL4U/F4U(L)

15 x 10 x 1.6 mm
Suitable for DBL4U

43 x 29 x 8 mm
Suitable for all rail
mounted terminals

Type/ Cat. No.	Dimensions(HxWxT)mm	Suitable for
PPCAGE2.5	58×23×1.4	CAGE2.5
PPCAGE2.5 1-2	74.1×30.2×1.6	CAGE2.5 1-2
PPCAGE2.5 2-2	89.7×25.1×1.5	CAGE2.5 2-2
PPCAGE4	64.9×28×1.5	CAGE4
PPCAGE4 1-2	84.5×33.5×1.5	CAGE4 1-2
PPCAGE4 2-2	104.7×33.6×1.6	CAGE4 2-2
PPCAGE6	71.8×36.5×1.5	CAGE6
PPCAGE6 1-2	93.5×31.5×1.5	CAGE6 1-2
PPCAGE6 2-2	115.6×36.5×1.9	CAGE6 2-2
PPF4U	61.9×42.6×1.6	F4U
PPFA4U	50×81.9×1.6	FA4U
PPF6U	57.5×56.2×1.3	F6U
PPM4	36.6×32.2×1.6	M4/M4S
PPSCRW2.5U/4U	43.9×36.7×1.5	SCRW2.5U/SCRW4U/SCRW2.5UCR/SCRW4UCR/TH2.5U/SCRW4UTAB
PPSCRW25U	61.9×46.8×1.5	SCRW25U/SCRW25UCR
PPSCRW35U	64.5×5×1.5	SCRW35U/SCRW35UCR
PPSCRW6U/10U	56.2×37.6×1.3	SCRW6U/SCRW10U/SCRW6UCER/SCRW10UCR

Separator Plates

Separator plate can be used to electrically isolate adjacent cross connection sets. It also maintains the required creepage and clearance values.
The Separator plate is fitted in the specially designed groove of the terminal block, without occupying additional space.

Type/ Cat. No.	Dimensions(HxWxT)mm	Suitable for
SPDBL4U	15.5×16.2×1.6	DBL4U
SPP4	14.5×12×1.5	P4
SPSCRW16U	50×61.5×1.5	SCRW16U
SPSCRW2.5U/4U	17.5×17.4×1.4	SCRW2.5U/SCRW4U
SPSCRW6U/10U	Please – call for details	SCRW6U/SCRW10U

Cross Connecting Accessories

Various functional requirements can be achieved with cross connecting systems. Different type of cross connecting accessories offered include variety of temporary shorting links, permanent shorting links, shorting studs, shorting sleeves, multipole comb links and pre assembled shorting links.

Permanent Shorting Links

Permanent shorting links in tin plated copper / brass are used for permanent cross connection of terminal blocks of the same potential. These links should be electrically connected to the terminal blocks with short Shorting sleeves / studs.

Permanent shorting links are available in 2 pole, 3 pole, 4 pole and ten pole lengths. When permanent shorting links are installed, terminal blocks are safe from accidental contact because the links rest below the top surface of terminal block.

Removable Shorting Links

Removable shorting links in tin plated copper / brass are used for switchable cross connection. These links should be electrically connected to the adjacent terminal block of the same potential with of Long Shorting sleeves / studs. It is recommended to use partition plate for isolation of such cross connected terminals.

Comb Links

Comb type links are used for cross connection wherever terminals in assemblies cannot be cross connected with the aid of conventional shorting links, Sleeves / Studs.

Multi pole comb type link provides choice of consecutive shorting or alternate shorting. These links are insulated which makes them shock-proof. Comb links without insulation are also available.

Shorting Sleeve

Shorting Sleeve in Tin / Nickel plated brass along with steel fixing screw are used for quick cross connection of terminal blocks in conjunction with shorting links (Permanent / Removable).

Short Shorting sleeves (For permanent cross connection) and Long shorting sleeve (For temporary cross connection) may be selected according to the functional requirement.

Shorting Stud

Shorting Stud screws in Tin / Nickel plated brass along with steel fixing screw are used for cross connection of terminal blocks in conjunction with shorting links (Permanent / Removable).

Short Shorting stud (For permanent cross connection) and Long shorting stud (For temporary cross connection) may be selected according to the functional requirement.

Pre Assembled Shorting Links

Pre assembled shorting links with captive sleeves and screws are recommended for quick cross connections.

Two pole, three pole, four pole and ten pole assemblies of links and sleeves have the following advantages :
- Cross connection task is simplified.
- Eliminates possibility of losing sleeves or screws while cross connecting.
- Saves considerable time in cross connecting.

## Insulated Push-In Type Shorting Links

Insulated Push-In Type Shorting Links are specially designed for use in 'Screw less' Spring Clamp Terminals. The links besides providing shock protection, simplify the task of cross connection.

Choice of adjacent and alternate Shorting Links is available.

The link has to be inserted into the slot provided in the current carrying part of the terminal to bridge with a adjacent/alternate terminals.

Shorting Sleeve For	L	L1	D	L2	L3	M
SCRW2.5U	8	14.5	4.4	14	20	M2.5
SCRW4U	8	14.5	4.4	14	20	M2.5
SCRW6U/SCRW10U	12.5	18.5	5.5	19	25	M3
CTS25U/CTS35U	14.5	21.5	7	23	31	M4
SCRW4U 1-2/SCRW4U 2-2	8	14.5	4.4	14	20	M2.5
M4/DBL4U/DBLOFF4U	5	9.5	4.4	10	15	M2.5
P4	8	14.5	4.4	14	20	M2.5
TAB4U	5	-	4.4	10	-	M2.5

Short Shorting Sleeve & Screw

Long Shorting Sleeve & Screw
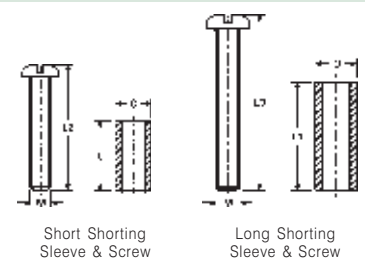
Shorting Link For	C				ØD
	2 Way	3 Way	4 Way	10 Way	
SCRW2.5U	5	5	5	5	2.7
SCRW4U	6	6	6	6	2.7
SCRW6U	8	8	8	8	3.3
SCRW10U	10	10	10	10	3.3
SCRW25U	12	12	12	12	4.2
SCRW35U	15	15	15	15	4.2
SCRW4U 1-2/SCRW4U 2-2/P4	6	6	6	6	2.7
M4/DBL4U/DBLOFF4U	6	6	6	6	2.7
FDBL4U	8	8	8	8	2.7

Permanent Shorting Link

Removable Shorting Link (Only two way)
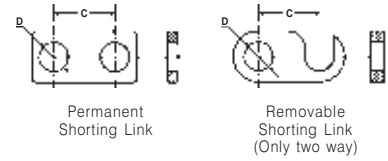
Comb Links For	P	W
SCRW4UN	6	17.5
SCRW4U 1-2/SCRW4U 2-2	6	17.5
M4 Series	6	17.5
P4	6	17.5
DBL4U Series	6	17.5
DBLOFF4U	6	17.5
F4U/FDBL4U	8	10.4
DISCT6U	8	21.5
KN4U	6	17.5
FA4U	9	21.5
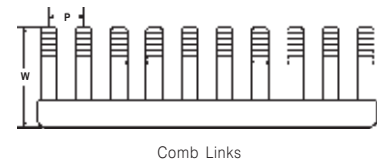
Comb Links

Protective Covers and Holding Plates

For protection against dust and shock, transparent protective cover can be installed above the terminal block assembly with side holding plates. The side holding plates can be fitted on to DIN 32 as well as DIN 35 rails. These plates should be backed by standard end clamp.

COVER

For all rail mounting terminals except busbar type terminals

SIDE PL1

Side holding plate

Markers

Identification of individual electrical components in the switchgear is one of the major pre-requisites for purposeful and safe work. Systematic marking of individual terminal block facilitate system identification and quick maintenance.

All terminals are provided with suitable recesses for marking tags. Most of the terminal blocks are designed to accommodate two marking tags.

Markers are offered with horizontal or vertical imprints. Blank marking tags are also available.
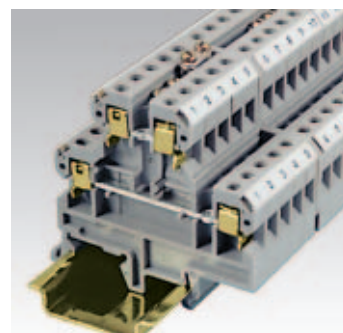
'K' Type Polyamide marking tags in strips facilitate quick and easy fixing on assembled terminal blocks. The strip comprising of 5 or 10 markers can be fixed on assembled terminals in one stroke. The strip can be detached easily at any point. Apart from good aesthetic looks, 'K' type markers have large surface area and better visibility.
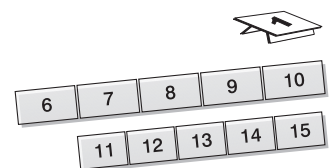
Insert Type PVC marking tags are to be detached into single tags and inserted in the terminal block recesses with a screw driver.
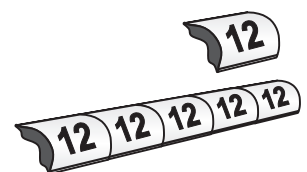
Group Marker These are in Polyamide 6.6, with large blank surface area and can be used for group identification. These markers can be fixed on the Polyamide 6.6 End Clamp or on the terminal block.
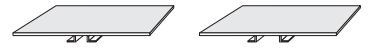
Pre-Printed markers can be supplied in horizontal or vertical imprints in the following types:

- Horizontal Print

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

- Vertical Print

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

Marker : KM/ Max. Marking Digits ↓	2	4	5	6	7.5	8	9	10	12	15
Horizontal	3	3	3	4	4	4	4	4	4	5
Vertical	2	3	5	5	3	5	4	5	5	5

Pre Printed markers can be supplied in Horizontal or Vertical imprints in the following types:

- **Individual Numbers:**
  Strips of same numerals

  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

- **Serial Numbers:**
  Strips of sequential numerals

  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

- **Individual Alphabets:**
  Strips of same alphabets

  | A | A | A | A | A | A | A | A | A | A |

- **Special Character:**
  Strips of same special characters

  | 24V~ | 24V~ | 24V~ | 24V~ | 24V~ | 24V~ | 24V~ | 24V~ | 24V~ | 24V~ |

- **Alpha Numerals:**
  Strips of alpha numerals

  | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | A10 |

Marking tags can be supplied as **Blank Strips.** *The user can print or write manually, the desired characters.*

Ordering Information of Markers

The details regarding various types of markers along with cross reference of terminal is given below.

Cat No.	Description	No. of Marking tags per packet	No. of Marker Strips per packet	No. of Marking tags per strip
KM/2	'K' type marker suitable for M4 , DBL4U , P4, F4U, FDBL4U	100	10	10
KM/4	'K' type marker suitable for PCBM & PCB5	100	10	10
KM/5	'K' type marker suitable for SCRW2.5U, GN4/16/35.	100	10	10
KM/6	'K' type marker suitable for SCRW4U/4UT, M4, DBL4U, G4U, DISBL4, KN4U, TAB4U	100	10	10
KM/7.5	'K' type marker suitable for PCB7.5	100	10	10
KM/8	'K' type marker suitable for SCRW6U, DISBL6 , F4U & FDBL4U.	100	10	10
KM/10	'K' type marker suitable for SCRW10U, DISBL10, G10U	100	10	10
KM/12	'K' type marker suitable for SCRW25U	100	20	5
KM/15	'K' type marker suitable for SCRW35U	100	20	5
KM/50	'K' type marker suitable for SCRW50U, SCRW95U	100	20	5
KM/G1	Group Marker suitable for ES2N or all the Terminals except M4 , DBL4U & P4	100	-	-
KM/G2	Group Marker suitable for ES1N or M4 , DBL4U, P4, SCRW50U, SCRW95U	100	-	-

- Unless otherwise specified, the pre printed marking tags shall be supplied with horizontal imprint.

- Suffix 'V' may be added to the catalogue number for marking tags with vertical imprint.
  For example KM/5(V), represents the marker KM/5 with vertical imprint.

Marker Plotter

Marker Plotter, Vario Scriber VS 200 ensures quick, durable and clear printing for identifying and marking on the international 'K' type markers.

The plotter is versatile and is used to print on 'K' type marker strips placed on a 'workpiece holder'. The workpiece holder is changeable in a matter of seconds for printing on the different marker sizes. The printing process is easy with the menu driven software programme.

The plotter can be used any time, at any place since it is easily transported in its special carry case. The battery-operated, stand alone, Marker Plotter, Vario Scriber VS 200 can be operative at any place where the user needs it. The spacious carry case provides ample room for the extensive accessories like pen, workpiece, cleaning fluid etc.

Marker Plotter, Vario Scriber VS 200 is strongly recommended to Panel Board Manufacturers and Distributors for printing markers at site. Only blank 'K' type markers need to be stocked for promptly servicing the variety of marker requirements for identification in the wiring of terminal blocks.

VARIO SCRIBER VS 200

With power supply, connecting cable, workpiece holder, print software for text transfer from PC to VS 200, a carry case and instruction manual.

Choice of plotter pens and ink-cartridges is available.

Terminal Blocks

Wide range of terminals are offered to suit modern wiring techniques for performance and reliability in addition to safety, flexibility, efficiency, high density wiring, economy, ease of design and maintenance. The terminals offer the following functions, and more.

- Feed-Through
- Disconnect and Test
- Multilevel
- Ground/Earth
- Fuse
- Distribution
- Integral Electronics

Snap on mounting on the DIN rails saves time and space, improves design and layout and offers compact centralized connection area for quick and efficient external and/or internal wiring.

TERMINAL DETAILS

■ Screw Clamp Connection

- Connection can be made by simply stripping the wire of its insulation to the recommended length, and then tightening the clamp screw either without any additional preparation, or after protecting the wire with a ferrule. The clamping screw compresses the current carrying bar, which in turn acts on the wire.
- Screws are extremely important for the quality of the connection. Cold forged rolled threaded steel screws with good galvanic surface protection, zinc plated and chromate passivated are used for the terminals.
- Clamps, which transmit the force applied through the screw to the actual contact area between the wire and the current-carrying bar, are made of hardened steel, zinc plated and bichromated, in order to achieve the required contact pressure over the conductor and offer excellent resistance to corrosion.
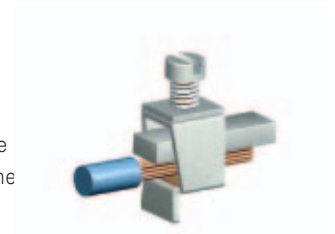
- **Spring Clamp Connection**

  - In spring clamp terminals the clamping action is taken over by a high quality, stainless steel pre-stressed spring.
  - The pre-stressed spring is opened using a screw driver so that the wire can be inserted into the clamping space through an opening now created. Once the screw driver is removed, the conductor is pressed hard against the current bar with full spring force ensuring an effective connection.
  - As the wire holding spring plays critical role in clamping, it is specially designed and tooled. It is stainless steel with special long life shape retaining properties in-built for reliability of wire termination.

- Current-carrying bars are made from electrolytic copper or alpha brass, electroplated and coated for surface protection while ensuring very low contact resistance.
- Clamping yokes and screws are zinc plated and passivated by a golden yellow chromate layer, considerably increasing corrosion resistance.
- The metal parts of terminals are housed in precision molded, almost unbreakable, self extinguishing flame retardant polyamide 6.6 material rated UL94-V2, for high dielectric strength, electrical insulation and temperature resistance (max. operating temperature 100°C). Terminals in UL94VO grade polyamide 6.6 can be offered on request.

  Additional colours for the terminal block shell or housing are offered as under:

Colour	Suffix to Cat. Ref.	Suffix to Cat. Ref.	Colour
Red	RD	BG	Beige
Blue	BL	BR	Brown
Black	BK	KH	Khaki
Orange	OR	GY	Grey
Green	GN	PK	Pink
Yellow	YL		
White	WH		

  Please add the colour suffix to Cat. Ref. while ordering.

Typical properties of insulation material of the shell or housing are as under:

Property	Unit	Thermoset High Grade Melamine	Engineering Thermoplastic Polyamide 6.6
Specific Gravity	--	1.5	1.2 - 1.15
Upper Limit Temperature	°C	130	100
Lower Limit Temperature	°C	- 55	- 50
Volume Resistivity	Ω cm	10^{11}	10^{12}
Surface Resistivity	Ω	10^{10}	10^{10}
Dielectric Strength	KV/cm	100	400
Tropical Resistance	--	Good	Good
Flammability (UL 94)	Grade	V0	V2 #
Flexibility	--	--	Excellent

WIRE TERMINATION

The terminals are suitable for connection of either solid or stranded copper wires as per the gauge range specified.

It is recommended to connect only one wire of the rated cross section in a clamp. Connecting more than one wire per clamp may result in poor contact and overheating.

Stranded wires can be connected without any special preparation, but particular care should be taken when stripping the wires in order not to cut any of the strands. A good quality stripping tool, which provides fast stripping of most insulated wires without damage to the conductors is strongly recommended. With flexible cables of fine strands, the strands may be twisted between finger and thumb. Twisting should never be done with pliers. In order to improve the quality of the connection, and for all those cases where frequent removal

(i.e. for testing) and reinsertion of the wire is expected, it is recommended using a ferrule – insulated or uninsulated – or a flat crimp terminal.

ASSEMBLY OF TERMINAL BLOCKS

All the terminal blocks are designed to be installed on standard DIN rails, either symmetrical (DIN35, DIN35-15, DIN15) or asymmetrical (DIN32). When mounting terminal blocks, the following accessories are always necessary:

- End Plate(s), at least one, at the open end of the last terminal block.
- End stops, at each end of the terminal block assembly.

Other accessories include:

- Partition Plates, inserted between blocks, these help preventing accidental contact between wires, etc..
- Angled steel brackets, to lift the DIN rail above the bottom of the panel;
- Jumper bars 2, 3 and 4 poles, assembled with appropriate screw and spacers;
- Pre-assembled jumper bars, 10 poles;
- Jumper comb links, 2-pole to 10-pole, to interconnect adjacent terminal blocks;
- Moving jumpers, assembled with appropriate screw and spacers. These provide economical and safe temporary shorting between adjacent blocks;
- Marker strips, either blank (to be marked) or pre-marked.

To determine the length of the mounting rail required, calculate the sum of:

- Thickness of one terminal (including tolerance if applicable) times number of terminals
- Thickness of one end plate, and of separator plates, if used
- Thickness of two end stops
- Plus minimum 25 mm. (~1") on either side, for easy mounting on the panel.

Extra terminals can be added to an existing assembly at any time. Individual terminals can be replaced easily, without removing adjacent blocks.

To remove a terminal block from the DIN rail, simply insert the tip of a screwdriver in the slot provided at the outside edge of the flexible foot of every terminal block.
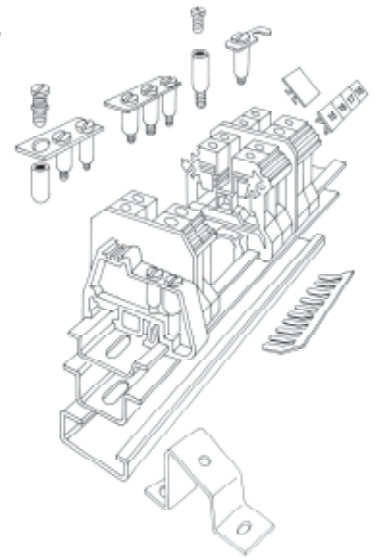
Accessories

Insulated Pre Assembled Shorting Links

Insulated Pre Assembled Shorting Links are ideal choice for quick permanent cross connections of the terminals. Available in 2/3/4/10/100 pole assembly, the Pre Assembled Shorting Links have following advantages :

- Eliminate possibility of losing sleeves/screws while cross

connecting with captive screws.
- Insulated captive screws make the assembly shock proof and finger safe.
- Saves considerable time for cross connections.
- Simplify the task of cross connections with simple application.

End Clamps/Stops

Cat No. : ES4N
Dimensions (H×W×T)mm : 14.5x25.4x11.8
Suitable for : DIN 32 Rails

Group Marker Holders

Group Marker Holders are offered in two versions:

- GRPM1 to GRPM5, to be mounted on End Clamps.
- GRPM6 and GRPM7 for direct mounting on DIN channels.

GRPM1 to GRPM5 Group Markers can be inserted in the groove on the end clamp and are intended for group identification of terminals used in the assembly.

GRPM6 and GRPM7 are intended for identification, independent of actual terminals used in the assembly. A sticker/paper can be inserted in the slot, which will be covered by a transparent acrylic sheet.

Assembly	GRPM1	GRPM2	GRPM3	GRPM4
Mountable on	ES1N	ES3N	ES2N	ES3N

Assembly	GRPM5	GRPM6	GRPM7	
Mountable on	ES2N	All mounting rails	All mounting rails	

Product improvement is a continuous process, hence data given in this catalogue is subject to change without intimation.
Please call for details of product certification and current status. All dimensions in mm.

- Nylon, feed-through, screw clamp and spring clamp Terminal Blocks for DIN rail and panel mounting.

- Wide range covering multiple connections, grounding, distribution, safety fuse link, disconnect, double/triple levels, PCB and electronic Terminal Blocks.

- Secure grip of screw clamps with special serrations over solid or stranded wires.

- Rolled screws provide calibrated tightening torque for securing wires in the clamp.

- Special spring steel clamps ensure a tight, yet gentle "non-fraying" grip over solid or stranded wires.

- Finely crafted current bar ensures "safe bridge" for the rated current.

- Series 'U' Terminals, with unique clamping foot suitable for DIN 35, DIN 35-15 and DIN 32, offer flexibility to permit low stock levels to Distributors, Panel Builders and Users.

- Carry UL and CSA marks for North America and VDE* and CE mark for Europe.

salzer

Salzer Electronics Limited, Unit 2,
Chinnamaddampalayam, Bilichi post, Coimbatore - 641 019, India.
Tel : +91- 4254- 272311 | Fax : +91- 4254- 272012 |e-mail : salzer2@salzergroup.com | www.salzergroup.com