

Sanborn NY

POLYAMIDE SCREW CLAMP TERMINAL BLOCKS

ELECDIRECT.COM POLYAMIDE SCREW CLAMP TERMINAL BLOCKS





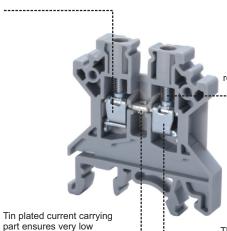






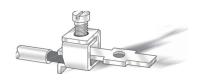
Can accommodate two conductors of the same size per clamping unit.

contact resistance.



High tightening torque becauseof cold forged rolled threaded screws.

The changes caused by temperature variation (if any) are effectively equalised by the elasticity of steel. This provides excellent vibration resistance.



The Connection:

elecDirect.com's Screw Clamp Terminal Blocks provide maximum wiring efficiency and reliability. These Terminal Blocks provide a vibration-proof connection and the clamps do not need to be re-tightened. All the parts in the Terminal Block are captive. They have high contact force and are absolutely gas tight, thus providing a reliable electrical and mechanical connection.

PRODUCT RANGE OVERVIEW

Rated Cross Section (mm²)	1.5	2.5	4	6	10	16	25	35	50	95
Functionality		-								
Feed Through Terminal Blocks										
2 wire Terminal Blocks		•	•	•	•	•	•	•	•	•
3 and 4 wire Terminal Blocks			•							
Ground (Earth) Terminal Blocks			•	•	•	•		•		
Clamps for Neutral Connection				•		•		•		
Double Level Terminal Blocks			•							
Triple Level Terminal Blocks		•								
Distribution Blocks			•	•	•	•	•	•		
Fuse Terminal Blocks			•	•						
Disconnect & Test Terminal Blocks	•		•	•						
Thermocouple Terminal Blocks		•								
Active Terminal Blocks			•							
Micro Terminal Blocks	•		•							
Panel Mount Terminal Blocks			•							
Spring Loaded Terminal Blocks			•	•	•					
High Voltage Terminal Blocks			•	•	•					
Tab Connection Terminal Block			•							

CTS2.5UE



SCREW CLAMP TERMINAL BLOCKS

STANDARD FEED THROUGH TERMINAL BLOCKS

These Feed Through Terminal Blocks are the most versatile terminals for Control, Automation, Instrumentation and Power Distribution applications.

A specially designed flexible foot enables easy mounting and dismounting from the mounting rail with the help of a screw driver. These Terminal Blocks have marker holding recesses to accept marking tags for circuit identification. Cross connection can be achieved with the aid of shorting links / sleeves & screws.



Other Approvals	(EX) CE	AEx ell Ex ell		
	Type Cat. No.	Std. Packing in Pcs.	Type Cat. No.	Std. Packing in Pcs.
Terminal Block	CTS2.5UN	100	CTS2.5UE	100
End Plate	EP2.5/4UN	50	EP2.5/4UN	50
Partition Plate	PP2.5/4UN	50	PP2.5/4UN	50
Separator Plate	SP2.5/4UN	100	SP2.5/4UN	100
End Clamp	CA702 CA802	50 50	CA702 CA802	50 50
Pre Assembled Shorting Links 100 way 2 way 3 way 4 way 100 way 100 way	CA721/2 CA721/3 CA721/4 CA721/10 CA721/100	100 100 100 10 10	CA722/2 CA722/3 CA722/4 CA722/10 CA722/100	100 100 100 10 10
Insulated 2 way Pre Assembled 4 way Shorting Link 10 way 100 way	CA741/2 CA741/3 CA741/4 CA741/10 CA741/100	100 100 100 10 10	CA742/2 CA742/3 CA742/4 CA742/10 CA742/100	100 100 100 10 10
Permanent Shorting Links 10 way (Breakable) 100 way	CA703/01 CA704/01 CA705/01 CA731/10	100 100 100 100 100	CA703/1 CA704/1 CA705/1 CA732/10 CA732/10-A CA732/100	100 100 100 100 100 100
Short Sleeve & Screw for Quick Permanent Shorting	CA707/S/Q/01	100	CA707/S/Q/01	100
Removable Shorting Links	CA706/01	100	CA706/1	100
Long Sleeve & Screw for Temporary Shorting	CA707/L/Q/01	100	CA707/L/Q/01	100
Insulated Comb 3 way Type Shorting Link 4 way 10 way	CA717/2 CA717/3 CA717/4 CA717/10	100 100 100 20	CA713/2 CA713/3 CA713/4 CA713/10	100 100 100 20
Test Socket	CA707/TS/01	100	CA707/TS/01	100

MT5

MT6

100

^{* 40} Amp with two 12 AWG wires 35 Amp with one 10 AWG wire

COLOI (Standar	JR BLC	
When ord colour s	ering ple uffix to C	
Example:	CTS2.5UN	/R
Colour	Orderin	ng Suffix
Red	R	
Blue	BU	
Black	BK	
Orange	0	
Green	GN	
Yellow	Υ	
White	W	
Beige	BG	

Marking Tags (K Type)

Continuous Tag

SCREW CLAMP TERMINAL BLOCKS

C	TS4UN			СТ	rs6U			СТ	S10U			CTS16L	J
6 mm			8 mm				10 mm				12 mm		
45 x 43 mm			47 x 43	mm			47 x 43	mm			47 x 43 mm	ı	
0.5 to 4 sq.mm 0.5 to 6 sq.mm			1.5 to 6 1.5 to 10					0 sq.mm 6 sq.mm			2.5 to 16 so 2.5 to 25 so		
9 mm			12 mm				12 mm				16 mm		
Polyamide 66 / I	I		Polyamic	de 66 / I			Polyamio	de 66 / I			Polyamide 6	36 / I	
2 screw clamps		ed hole for			nd 1 tapp	oed hole for			nd 1 tapp	ed hole for		mps and 1 tap	pped hole for
cross connection	\wedge	c Al us	cross co	onnection	\wedge		cross co	onnection	^		cross conne	ection	
22-10 AWG 0.5	5-4 sa mm		22-8 AW	s 2	S sq.mm	22-8 AWG	0 08	G 1510	O ea mm	16-6 AWG	C Ous	2.5-16 sq.mr	m 20-4 AWG
	800 V				3 Sq.IIIII 300 V			80	00 V			800 V	
	8 KV / 3	600V	600 V	81	KV / 3	600 V	600 V	8 k	<v 3<="" td=""><td>600 V</td><td>600 V</td><td>8 KV / 3</td><td>600 V</td></v>	600 V	600 V	8 KV / 3	600 V
40 A *	32 A	40 A *	50 A		41 A	50 A	65 A		57 A	65 A	70 A	76 A	85 A
7 lb-in	0.5 Nm	7 lb-in	9 lb-in	0.	8 Nm	14 lb-in	14 lb-ir	n 1.2	2 Nm	14 lb-in	14 lb-in	1.2 Nm	14 lb-in
⟨ E> (€	<u>IEC</u>	AEx ell Ex ell	€x>	CE	<u>IEC</u>	AEx ell Ex ell	⟨£x⟩	CE	<u>IEC</u>	AEx ell Ex ell	⟨Ex⟩	CE	<u>IEC</u>
Type Cat. No.		. Packing n Pcs.		/pe t. No.		I. Packing in Pcs.		/pe :. No.		Packing Pcs.	Type Cat. No		td. Packing in Pcs.
							out						
CTS4UN		100	CT	S6U		100		S10U		100	CTS16	U	50
CTS4UN EP2.5/4UN		100 50		S6U S/10U			CTS			100	CTS16	U	50
			EP6			100	CTS EP6	S10U			CTS16	U	50
EP2.5/4UN		50	EP6	6/10U		100	CTS EP6 PP6	S10U S/10U		50	CTS16		100
EP2.5/4UN PP2.5/4UN		50 50	EP6 PP6 SP6	6/10U 6/10U		100 50 50	CTS EP6 PP6 SP6	S10U 3/10U 3/10U		50 50		DU 2	
EP2.5/4UN PP2.5/4UN SP2.5/4UN CA702		50 50 100	EP6 PP6 SP6 CA CA CA7 CA7 CA7	6/10U 6/10U 6/10U A702		100 50 50 100	CTS EP6 PP6 SP6 CA CA CA7 CA7 CA7	\$10U \$/10U \$/10U \$/10U \$/10U		50 50 100	SP6/10	DU 2 2 2 //2 //3 //4	100
EP2.5/4UN PP2.5/4UN SP2.5/4UN CA702 CA802 CA722/2 CA722/3 CA722/4 CA722/10		50 50 100 50 50 100 100 100 100	EP66 PP66 SP66 CA7 CA7 CA7 CA7 CA7 CA7	6/10U 6/10U 6/10U A702 A802 723/2 723/3 723/4		100 50 50 100 50 50 100 50 50	CTS EP6 PP6 SP6 CAA CAA CAA7 CAA7 CAA7 CAA7	\$10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U		50 50 100 50 50 50 50	SP6/10 CA702 CA802 CA751, CA751, CA751,	2 2 2 2 //2 //3 //4 110	100 50 50 50 50 50
EP2.5/4UN PP2.5/4UN SP2.5/4UN CA702 CA802 CA722/2 CA722/3 CA722/4 CA722/10 CA722/100 CA742/2 CA742/3 CA742/4 CA742/10		50 50 100 50 50 100 100 100 100 100 100	EP66 PP66 SP66 CA CAA CAA7 CAA7 CAA7 CAA7 CAA7 CAA7	5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 7/23/2 7/23/3 7/23/4 7/23/10 7/43/2 7/43/3 7/43/4		100 50 50 100 50 50 100 50 50 10 100 50 50	CTS EP6 PP6 SP6 CA CAA CAA CAA CAA CAA CAA CAA CAA CAA	\$10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/702 \$802 \$724/2 \$724/3 \$724/4 \$24/10 \$744/2 \$744/4		50 50 100 50 50 50 50 10 100 50 50 50 50	SP6/10 CA702 CA802 CA751, CA751/ CA761/ CA761, CA761, CA761,	22 22 //2 //3 //4 110 //2 //3 //4 //10	100 50 50 50 50 50 10
EP2.5/4UN PP2.5/4UN PP2.5/4UN CA702 CA802 CA722/2 CA722/3 CA722/4 CA722/10 CA742/10 CA742/10 CA742/10 CA742/10 CA705/1 CA705/1 CA705/1 CA732/10-A		50 50 100 50 50 100 100 100 100	EP66 PP6 SP6 CAA CA7 CA7 CA7 CA7 CA7 CA7 CA7 CA7 CA7	5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/		100 50 50 100 50 50 100 50 50 10 100 10	CTS EP66 PP66 SP66 CAA CAA CAA7 CAA7 CAA7 CAA7 CAA7 CAA7	\$10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/702 \$802 \$724/2 \$24/2 \$24/4 \$24/10 \$744/2 \$744/4 \$44/10 \$703/3 \$704/3 \$705/3		50 50 100 50 50 50 100 50 50 10 100 50 50 10 100 10	SP6/10 CA702 CA802 CA751, CA751, CA751, CA761, CA761, CA761, CA704, CA704, CA704,	DU 2 2 2 //2 //3 //4 //4 //10 //2 //3 //4 //4 //10 //8 //8 //8 //8 //8 //8 //8 //8 //8 //	100 50 50 50 50 50 50 10 100 10
EP2.5/4UN PP2.5/4UN SP2.5/4UN CA702 CA802 CA722/2 CA722/3 CA722/10 CA722/10 CA742/2 CA742/3 CA742/4 CA742/4 CA742/10 CA703/1 CA704/1 CA705/1 CA732/10-A CA732/10-A CA732/100	1	50 50 100 50 50 50 100 100 100	EP66 PP6 SP6 CA CA7 CA7 CA7 CA7 CA7 CA7 CA7 CA7 CA7	5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/10U 5/		100 50 50 100 50 50 100 50 50 10 100 100	CTS EP6 PP6 SP6 CAA CAA CAA CAA CAA CAA CAA CAA CAA CA	\$10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/10U \$/1		50 50 100 50 50 50 100 50 50 10 100 10	SP6/10 CA702 CA802 CA751, CA751, CA751/ CA761, CA761, CA761, CA703, CA704, CA705, CA739/	DU 2 2 2 //2 //3 //4 //4 //10 //2 //3 //4 //4 //10 //8 //8 //8 //8 //8 //8 //8 //8 //8 //	100 50 50 50 50 50 50 10 100 10
EP2.5/4UN PP2.5/4UN PP2.5/4UN CA702 CA802 CA722/2 CA722/3 CA722/4 CA722/10 CA742/2 CA742/3 CA742/4 CA742/10 CA742/10 CA705/1 CA705/1 CA732/10-A CA732/10-A 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EP2.5/4UN PP2.5/4UN PP2.5/4UN SP2.5/4UN CA702 CA802 CA722/2 CA722/3 CA722/3 CA722/10 CA722/100 CA742/2 CA742/3 CA742/10 CA704/1 CA705/1 CA703/1 CA704/1 CA732/100 CA705/1	1	50 50 100 100 100 100 100 100 100 100 10	EP66 PP6 SP6 CAA CA7 CA7 CA7 CA7 CA7 CA7 CA7 CA7 CA7	5/10U		100 50 50 100 50 50 100 50 50 10 100 10	CTS EP66 PP66 SP66 SP66 CAA CAA CAA CAA CAA CAA CAA CAA CAA C	S10U S/10U S/102 S/10U S/102 S/10U S/102 S/10U S		50 50 100 50 50 100 100 100 100 100 50 50 50 50 100 10	SP6/10 CA702 CA802 CA751, CA751, CA751/ CA761, CA761, CA761, CA703, CA704, CA705, CA739/	DU 2 2 2 /2 /3 /4 110 /2 /3 /4 110 /8 /8 /8 /8 /110 /Q/1	100 50 50 50 50 50 50 10 100 10



TERMINAL BLOCK TECHNICAL INFORMATION

ATEX
APPROVED
TERMINAL BLOCKS

The ATEX approved Terminal Blocks have been assured for compliance with:

- EN 50014
- EN 60079-7
- EN 50020
- EN 50281-1-1-1

Certification can be traced to Techspan Certificate Number TÜV 06 ATEX 2968U

Technical Data:

Operating Temperature

 -40° C to $+85^{\circ}$ C

Maximum Voltage for intrinsicly safe "i" circuits *

60 V

Type No.		Rated Voltage		Rated Current	Wire Range
Type No.	for DIN 35 Rail	for DIN 32 Rail	for DIN 15 Rail	Rated Current	wire hange
CTS2.5UN	630 V	630 V		21 A	0.5-2.5 sq.mm
CTS4UN	630 V	630 V		28 A	0.5-4 sq.mm
CTS6U	630 V	630 V		36 A	1.5-6 sq.mm
CTS10U	630 V	630 V		50 A	1.5-10 sq.mm
CTS16U	630 V	500 V		66 A	2.5-16 sq.mm
CTS25U	630 V	630 V		88 A	6-25 sq.mm
CTS35U	630 V	630 V		109 A	10-35 sq.mm
CMC1-2	400 V	320 V		28 A	0.5-4 sq.mm
CMC2-2	500 V	500 V		28 A	0.5-4 sq.mm
CDL4U	320 V	320 V		28 A	0.5-4 sq.mm
ODL4U	630 V	500 V		28 A	0.5-4 sq.mm
CTL2.5U	320 V	320 V		21 A	0.5-2.5 sq.mm
CTL2.5UH	320 V	320 V		21 A	0.5-2.5 sq.mm
CMT4			320 V	28 A	0.5-4 sq.mm
CSC2.5T	500 V			21 A	0.5-2.5 sq.mm
CSC4T	500 V			28 A	0.5-4 sq.mm
CSC6T	500 V			36 A	0.5-6 sq.mm
CSC2.5T1-2	500 V			21 A	0.5-2.5 sq.mm
CSC2.5T2-2	500 V			21 A	0.5-2.5 sq.mm
CSC4T1-2	500 V			28 A	0.5-4 sq.mm
CSC4T2-2	500 V			28 A	0.5-4 sq.mm
CGT4U	PE	PE			0.5-4 sq.mm
CGT4N	PE				0.5-4 sq.mm
CGT10U	PE	PE			1.5-10 sq.mm
CGT35U	PE	PE			10-35 sq.mm
CGMT4			PE		0.5-4 sq.mm
CMB4		320 V (Panel Mount)		28 A	0.5-4 sq.mm
CSCP2.5T		500 V (Panel Mount)		21 A	0.5-2.5 sq.mm
CSCP2.5T2		500 V (Panel Mount)		21 A	0.5-2.5 sq.mm

^{*} CGT Series (Earthing) Terminal Blocks can not be used in " i " intrinsicly safe circuit

Note:

For installation instructions refer to www.elecDirect.com



Sanborn NY

TERMINAL BLOCK TECHNICAL INFORMATION

WIRE TIGHTENING

The design of the elecDirect.com Screw Clamps / Cable Lug system ensures vibration proof positive connection wires at the recommended torque values. However, elecDirect.com Terminal Blocks can withstand torque levels in excess of the recommended torque values. The Terminal Block clamping parts when tightened within the torque range ensure optimum performance as given below:

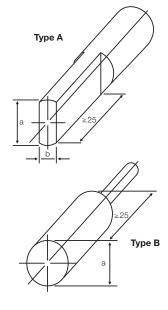
- The voltage drop (contact resistance) is well below the specified limits
- The wire gets clamped perfectly to form a gas tight connection
- The clamping yoke does not get damaged mechanically. The tightening torque according to IEC 60947-7-1 table 4, is the safe limit of the torque which guarantees the successful clamping of the connected wire.

elecDirect.com Terminal Blocks tightening torque data is given in the respective product pages.

All elecDirect.com Terminal Blocks are designed to function with rated wire sizes as per their respective AWG (American Wire Gauge) or Metric size/system. The Terminal Blocks are tested for Gauge Insertion as per VDE 0660.

Tightening Torque for Screw Clamp Terminal Blocks

	Terminal Blocks	Thread Size of Fastener	Recommended Torque Value
	CTS2.5UN/CPT(M)/CPT5	M 2.5	0.4 Nm
C	TS2.5(M)/CMST1/CMST2	M 2.6	0.4 Nm
CTS2.5/CMT4/CMB4/CDL4U/ODL4U/ CGT4U/CTS4UN/C CSDL4U/CKT4U/CPT7.5/DDFL4U/ DDFL4U(E)/DDFL4U		М 3	0.5 Nm
CTS6/CTS6SC	CTS6U/CSFL6U/CENC4	M 3.5	0.8 Nm
CTS10/10U/CTS16/16U/C CTS10SC/CGT10U/DDPT		M 4	1.2 Nm
CTS25U/CSTSB5/N5/I	N5(15)/RN5/N5U/CENC16	M 5	2.0 Nm
CTS35/CTS35U/CEI	NC35/CGT35U/CSTSN6U	M 6.0	2.0 Nm
CTS35L/	35LS/CSTSRN6/CSTSN6	M 6.0	2.8 Nm
СТ	S70L/70LS/CTS95L/95LS	M10.0	10.0 Nm



Representative Picture of Gauge Type A and Type B

Conductor cross-sections and Gauges

Conductor Cross-section

Conducto	or Cross-secti	on							
Flexible	Rigid (solid or stranded)		Gauge Type <i>I</i>	\	Gauge	Туре В	Permissible deviation		
(sq.mm)	(sq.mm)	Marking	Diameter a (mm)	Width b (mm)	Marking	Diameter a (mm)	for a and b		
1.5	1.5	A1	2.4	1.5	B1	1.9	0 / -0.05		
2.5	2.5	A2	2.8	2.0	B2	2.4	0 / -0.05		
2.5	4	A3	2.8	2.4	B3	2.7	0 / -0.05		
4	6	A4	3.6	3.1	B4	3.5	0 / -0.06		
6	10	A5	4.3	4.0	B5	4.4	0 / -0.06		
10	16	A6	5.4	5.1	B6	5.3	0 / -0.06		
16	25	A7	7.1	6.3	B7	6.9	0 / -0.07		
25	35	A8	8.3	7.8	B8	8.2	0 / -0.07		
35	50	A9	10.2	9.2	B9	10.0	0 / -0.07		
50	70	A10	12.3	11.0	B10	12.0	0 / -0.08		
70	95	A11	14.2	13.1	B11	14.0	0 / -0.08		
95	120	A12	16.2	15.1	B12	16.0	0 / -0.08		
120	150	A13	18.2	17.0	B13	18.0	0 / -0.08		
150	185	A14	20.2	19.0	B14	20.0	0 / -0.08		
185	240	A15	22.2	21.0	B15	22.0	0 / -0.09		
240	300	A16	26.5	24.0	B16	26.0	0 / -0.09		



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TERMINAL BLOCK TECHNICAL INFORMATION

ELECTRICAL DATA

elecDirect.com Terminal Blocks are standard blocks for industries such as Switchgear, Distribution, Machine Tools Control, Instrumentation Installations, Material Handling Equipments, Process Plants On and Offshore Installations and Panel Board Construction.

Rated Voltage

The voltage rating of the product is assigned in accordance with specifications related to Creepage & Clearance distance defined in respective **EN, VDE, UL** and **CSA** standards, for the environmental conditions and pollution degrees as given below.

Degree of Pollution

Creepage and clearance distances are evaluated for the following pollution degree :

Pollution degree 1

No pollution or only dry, non-conductive pollution occurs. The pollution has no influence.

Pollution degree 2

Only non-conductive pollution occurs except that occasionally a temporary conductivity caused by condensation is to be expected.

Pollution degree 3

Conductive pollution occurs or dry, non conductive pollution occurs which becomes conductive due to condensation is to be expected.

Pollution degree 4

The pollution generates persistent conductivity caused by conductive dust or by rain or snow.

Rated Impulse Voltage

The rated impulse voltage of the product is the peak value of an impulse voltage with which the terminal block can be loaded and on which the creepage and clearances according to relevant standard are based.

CTI - Comparative Tracking Index of Insulation material

The insulation material is divided into four groups according to their CTI (Comparative Tracking Index)

| Insulation I | 600 ≤ CTI | | 400 ≤ CTI | 400 ≤ CTI < 600 | Insulation III a | 175 ≤ CTI < 400 | Insulation III b | 100 ≤ CTI < 175

The Comparative Tracking Index must be defined according to **DIN IEC 112/ VDE 0303 part 1** on specimens made specifically for this purpose with test solution A. The proof-tracking index (PTI) is also used to identify the tracking characteristics of materials. A material may be included in one of the four groups given above on the basis that its PTI, established by the method of IEC 112 using solution A, is equal to or greater than the lower value specified for the Insulation group.

Current carrying capacity of terminal block (DIN EN 60947-7-1/VDE 0611part1: 2000-05)

The data given below is for unprepared conductor ends without ferrules. The rated current for Terminal Blocks with specific functions such as Fuse type, Relays, Terminal Blocks incorporating electronic components is to be specified by manufacturer.

Rated Cross Section (sq.mm)	0.2	0.5	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Test current (A)	4	6	9	13.5	17.5	24	32	41	57	76	101	125	150	192	232	269	309	353	415	520

Current Pating with two wire/conductors

The total current of the two wires / conductors should not exceed the continuous current rating of the Terminal Block. The continuous current rating is the maximum current the terminal block can conduct without a temperature rise of 45 K (as per EN standard) and 300C (as per UL / CSA standard).

Note

For PE-Terminals only one conductor should be connected per clamping part, in accordance with installation requirement.



TERMINAL BLOCK TECHNICAL INFORMATION

TERMINAL BLOCK MATERIAL

Engineering Thermoplastic Polyamide 6.6 has excellent electrical, mechanical and chemical characteristics, even at temperature as high as 105° C. This insulating material has high mechanical strength - it is unbreakable. Its resistance to tracking is similar to Melamine. The Polyamide 6.6 moulded housing absorbs humidity from its surroundings. However, it does not crystallise water in the plastic itself as is the case in thermosetting plastic. The H_20 groups combine within the molecular structure.

Polyamide 6.6

Thus moulded plastic housing becomes fracture proof and unbreakable even in sub zero temperature conditions.

Polyamide 6.6 is difficult to ignite, self-extinguishing, burns only as long as there is a supporting flame and is rated V2 according to UL 94. It has excellent resistance to micro organisms, bacteria, enzymes and termites. Good ageing resistance and insensitivity to ultra violet light makes it suitable for tropical and open air applications. Polyamide 6.6 has excellent resistance to fuels, oils, fats and most common solvents like aliphatic and aromatic carbohydrates, ketons and alcohols.

Typical properties of insulation material

Property	Unit	Thermoset High Grade Melamine	Engineering Thermoplastic Polyamide 6.6
Specific Gravity	-	1.5	1.2 - 1.15
Upper Temperature Limit	°C	130	105
Lower Temperature Limit	°C	- 55	- 50
Volume Resistivity	Ohm cm	10 ¹¹	10 ¹²
Surface Resistivity	Ohm	10 ¹⁰	10 ¹⁰
Dielectric Strength	KV/cm	100	400
Trophical Resistance	-	Good	Good
Flammability	Grade	V0	V2 / V0#
Flexibility	-	-	Excellent

V0 available on request

CE Marking

The CE marking is, in particular an indication that the products comply with the essential requirements of applicable directives and that the products have been subject to a conformity assessment procedure provided for in the directives. CE marking ensures free trading within Europe. elecDirect.com terminal blocks are CE marked and the products comply to Low Voltage Directive, 73/23/EEC,

At elecDirect.com the Product Development cycle, production & assembly of components and supply are all controlled by an **ISO 9001:2000** Quality Management System.

elecDirect.com Products not only fulfill Customers needs and requirements of standards and specifications but also surpass the same.