

Series V7-W Terminals

A comprehensive selection of rugged connections



Sprecher + Schuh's new V7-W terminals are designed to meet the three most important criteria when selecting a terminal block line – ease of wiring, secure connections and durability. The line is also comprehensive, offering a wide array of terminal types for most circuits and functions, from control to low level power.

The size you need

V7-W feed-through terminals come in ten sizes and are rated to 600VAC (800V-IEC). They accommodate a full range of wire sizes from 30AWG to 3/0 AWG (0.5mm² to 70mm² wire cross section). Many “specialty” feed-through terminals are also available that provide multiple terminations or increase the density of connections. This reduces panel space and saves money.

Comprehensive selection of special terminals

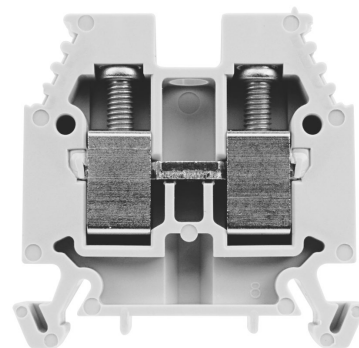
Aside from the broad selection of standard feed-through terminals, many special terminals are also part of the new V7-W line, including:

- Two level terminals
- High Current terminals
- Ground terminals
- Dual connection terminals
- Diode terminals
- Plug-in style terminals
- Various isolating terminals
- Fuse terminals
- Sensor terminals
- Thermocouple terminals
- Proximity switch terminals

Even the most varied circuit requirements can be supported by the broad selection offered with this line.

Super reliable connections

The most important aspect of a terminal block is to join wires in a reliable connection. With V7-W terminals, a cone shaped guide allows easy insertion of the wire into a nickel plated barrel. As tightening torque is applied to strong stainless steel screws, the wire is secured between a recessed contact



Stainless steel screws and nickel plated current bars provide a strong, corrosion resistant connection

pad and serrated current bar. This corrosion-resistant clamping mechanism provides excellent performance in the most demanding industrial conditions.



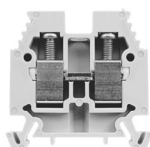
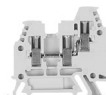
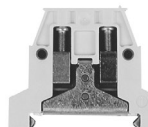
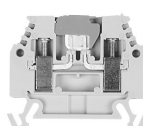
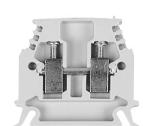
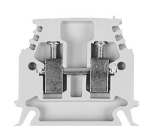
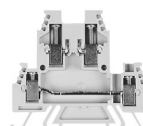
Superior insulation and protection features

All metal parts are recessed, providing a touch-safe, dead front design for optimum safety. Terminal bodies are manufactured from Polyamide 6.6, known for its excellent thermal stability, impact resistance and resistance to electrical creepage. The insulating cases are rated up to 90°C (195°) for continuous operation. They also stay elastic down to -40°C (-40°F) without fracturing.

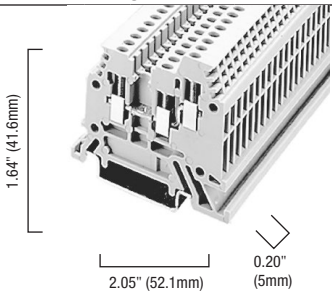
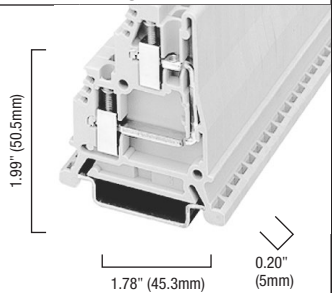
International approvals

Sprecher + Schuh's V7-W terminal block line is UL recognized and CSA Certified. Many terminals have also been certified for use in hazardous locations. The line also carries the CE Mark for use in most international markets.

Quick Selection Guide (refer to page indicated for complete information and detailed pricing)

Terminal	Description	Type	Overall Term. Width	Cross-sec. [mm²]	Catalog Number	See Page...
Through Terminals						
	Standard Feed-Through Blocks Provides one straight-through circuit for wire sizes up to 70 mm².	Color: gray (other colors available)	5	2.5	V7-W3	N5
			6	4	V7-W4	N5
			7	6	V7-W6	N5
			8	10	V7-W10	N6
			11	16	V7-W16S	N6
			14	35	V7-W35	N7
			23	70	V7-W70	N7
  	Specialty Feed-Through Blocks Provides one straight-through circuit with 3 wire terminals.	Color: gray (other colors available)	5	2.5	V7-W3TW	N9
	Return Terminals Single circuit terminal block with terminals on common side.	Color: gray	5	2.5	V7-WR3	N9
	Two Level Terminals	Color: gray	5	2.5	V7-WD3	N8
			6	4	V7-WD4	N8
7			6	V7-WD6	N8	
Ground Terminals						
	Grounding Terminals	Color: green / yellow	6	4	V7-WG4	N10
			7	6	V7-WG6	N10
			8	10	V7-WG10S	N10
			13	16	V7-WG16	N11
			18	35	V7-WG35	N11
			22	70	V7-WG70	N11
			6	2.5	V7-WDG4C	N12
Isolation and Plug-in Style Blocks						
	Knife Style Isolation Blocks Used to isolate a circuit after power has been removed by an appropriate disconnect switch.	Color: gray	5	2.5	V7-WKD3	N16
			5	2.5	V7-WKD3TP	N16
			9	6	V7-WKD6	N16
	Handle Style Isolation Block Used to isolate a circuit after power has been removed by an appropriate disconnect switch.	Color: black	9	4	V7-H7	N17
		Plug-in Style Block Accepts plugs listed on opposite page.	without insert	6	2.5	V7-W4P
without insert, with test plug screws			6	2.5	V7-W4PTP	N20
	Two & Three Level Plug-in Style Terminal Blocks - Accepts plugs listed on opposite page.	two level, without insert	6	2.5	V7-WD4P	N21
		three level, without insert, with ground	6	2.5	V7-WDG4P	N21

Specialty Feed-Through Blocks ①

Ordering and Technical Information ①	2.5mm ²			2.5mm ²		
						
	Catalog Number	Price Ea. (Std Pkg)	Pkg. Qty	Catalog Number	Price Ea. (Std Pkg)	Pkg. Qty
Terminal - Gray	V7-W3TW	4.70	50	V7-WR3	4.70	50
Terminal - Blue	V7-W3TW-B	4.90	50			
Single circuit three conductor terminal block						
Single circuit terminal block with terminals on common side.						
Accessories (also see pages N26 to N31)						
End Barrier	V7-EB3TW	1.35	50	V7-EBR3	1.35	50
End Anchors						
DIN Rail — Normal Duty	V7-EA35	1.75	50	V7-EA35	1.75	50
DIN Rail — Heavy Duty	V7-EAH35	7.00	10	V7-EAH35	7.00	10
DIN Rail — Snap-in	V7-ER35	1.80	50	V7-ER35	1.80	50
Jumpers						
Side Jumper — 10-pole Insulated	V7-SJ5-10 ②	3.60	10	V7-SJ5-10	3.60	10
Center Jumper — 50-pole	V7-CJ5-50	42.00	5	V7-CJD5-50	42.00	5
Center Jumper — 10-pole	V7-CJ5-10	8.90	10	V7-CJD5-10	10.00	10
Center Jumper — 3-pole	V7-CJ5-3	3.30	10	V7-CJD5-3	3.80	10
Center Jumper — 2-pole	V7-CJ5-2	2.25	10	V7-CJD5-2	2.60	10
Center Jumper Link	V7-CJL5	1.35	10	V7-CJL5	1.35	10
Center Jumper Cover — White ③	V7-CJCW5	5.30	20	V7-CJCW5	5.30	20
Other Accessories						
Partition Plate	V7-PP10	1.80	50	V7-EBR3	1.35	50
Test Plug Adapter	V7-TA285	17.75	10	V7-TA285	17.75	10
Electrical Warning Plate (1-pole)	V7-EWP5-4	2.25	10	V7-EWP5-4	2.25	10
Group Marking Carrier	V7-GM35	3.60	10	V7-GM35	3.60	10
Marking Systems ④						
Blank Tags (cards of 100)	V7-SM5X9	12.00	5	V7-SM5X9	12.00	5
Pre-printed Tags (sticks of 10)	V7-MP5 ⑤	2.70	10	V7-MP5 ⑤	2.70	10
Terminal Block Specifications						
Approvals	UL	UL	IEC	UL	UL	IEC
Voltage Rating	600V AC/DC	600V AC/DC	800V AC/DC	300V AC/DC	300V AC/DC	500V AC/DC
Maximum Current	15 A	15 A	24 A	15 A	15 A	24 A
Wire Range (Rated Cross Section)	#22... #14 AWG	#30... #14 AWG	0.5...2.5 mm ²	#22... #14 AWG	#22... #14 AWG	0.5...2.5 mm ²
Wire Strip Length	0.35" (9 mm)			0.39" (10 mm)		
Recommended Tightening Torque	4.2...4.6 lb-in. (0.5 Nm)			5.0...5.6 lb-in. (0.6 Nm)		
Density	61 pcs./ft (200/m)			61 pcs./ft (200/m)		
Insulation Temperature Range	-40°...+195°F (-40°...+90°C)			-40°...+195°F (-40°...+90°C)		
Mounting Rail	Fits all types shown on page N32			Fits all types shown on page N32		

① Special order with minimum quantities may be required for certain terminal colors.

② Use side jumpers on the single conductor side only.

③ May only be used as a marking surface. Cannot be installed over a center jumper.

④ Custom marking tags available. See page N45 for full offering.

⑤ Catalog number is not complete. See pages N42...N43.

Mounting Rails

Item	Description	Catalog Number	Price
	DIN-rail - 2 meter lengths (≈6' 6") • Top Hat, low profile (price per rail) • Top Hat, high profile (price per rail)	3F 3AF	See page A54

Multiple Wire Connection Combinations - Stranded Copper Conductors of the Same Cross-section

	Wire Size AWG (mm ²)															
	#22 (0.5)	#20 (0.75)	#18 (1.5)	#16 (2.5)	#14 (4)	#12 (6)	#10 (10)	#8 (16)	#6 (25)	#4 (35)	#2 (40)	1/0 (50)	2/0 (70)	3/0 (80)	300MCM (150)	500MCM (250)
Catalog Number	Number of same size wires per panel															
V7-H4,-H5,-H6,-H7	4	4	3	2	2	1										
V7-W4	4	4	3	2	2	1	1									
V7-W4P	4	4	3	2	2	1 ①										
V7-W4PTP	4	4	3	2	2	1 ①										
V7-W6	4	4	3	2	2	1	1									
V7-W10	4	4	4	4	3	2	1	1								
V7-W16S					4	3	2	2	1	1						
V7-W35 ①					3	3	3	2	2	1	1	1				
V7-W70 ①					5	5	5	2	2	2	2	1	1	1		
V7-WD6 ①			3	2	2	1	1									
V7-WD4DF	4	4	3	2	2	1										
V7-WD4DR	4	4	3	2	2	1										
V7-WD4P	4	4	3	2	2	1 ①										
V7-WD4PTP	4	4	3	2	2	1 ①										
V7-WDG4C	4	4	3	2	2	1										
V7-WDG4P...	4	4	3	2	2	1 ①										
V7-WFB10V(A)								1								
V7-WFB4	4	4	3	2	2	1										
V7-WG4	4	4	3	2	1	1										
V7-WG6	4	4	3	2	2	1	1	1								
V7-WG10S ①	4	4	4	4	3	2	1	1								
V7-WG16 ①							2	1	1	1						
V7-WG35 ①								2	1	1	1	1				
V7-WG70									2	1	1	1	1			
V7-WKD3TP	4	4	3	2	1											
V7-WKD6 ①			3	2	2	1	1									
V7-W3TW	4	4	3	2	1											
V7-WTF3,-WTS3 ②	4	4	3	2	1											
V7-W3,-WD3, -WKD3,-WR3	4	4	3	2	1											
V7-WD4,-WD4C	4	4	3	2	2	1										

① The multiple wire combinations for these products had not been tested at time of publication. Consult factory for latest wire combination information.

② V7-WTF... & V7-WTS... blocks have been tested for 4 - #26 and #24 AWG wires.

③ These products have a maximum European wire size of 2.5 mm², yet they are UL Listed for #12 AWG wire.