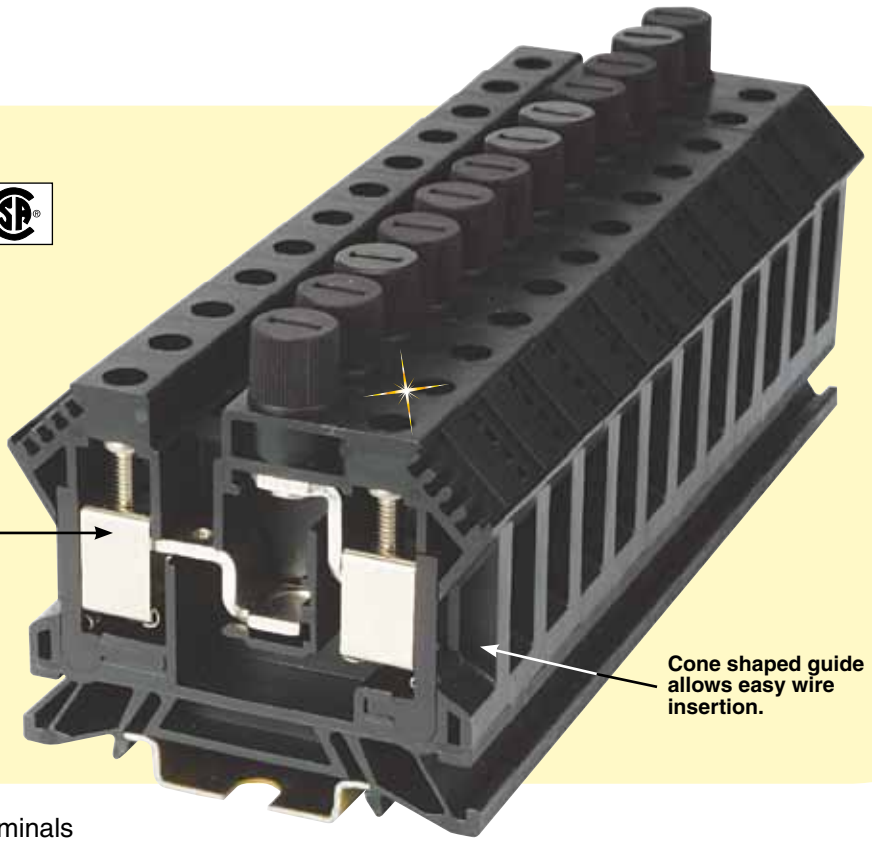
Introduction to DIN Rail Terminal Blocks



OMEGA's OMTBV7-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

OMTBV7-W feed-through terminals come in ten sizes and are rated to 600 Vac (800V-IEC). They accommodate a full range of wire sizes from 30AWG to 3/0 AWG (0.5 mm^2 to 70 mm^2 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 OMTBV7-W line, including:

- **Two level terminals**
- **High Current terminals**
- **Ground terminals**
- **Dual connection terminals**
- **Diode and resistor 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 OMTBV7-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 pad and serrated current bar. This corrosion-resistant clamping mechanism provides excellent performance in the most demanding industrial conditions.

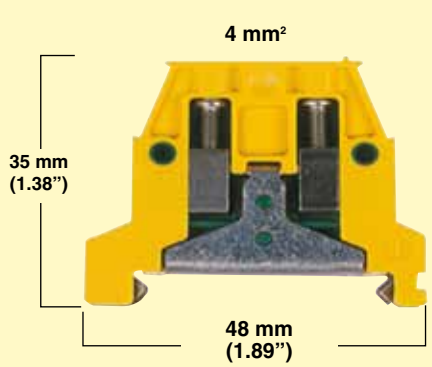
Superior Insulation and Protection Features

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.

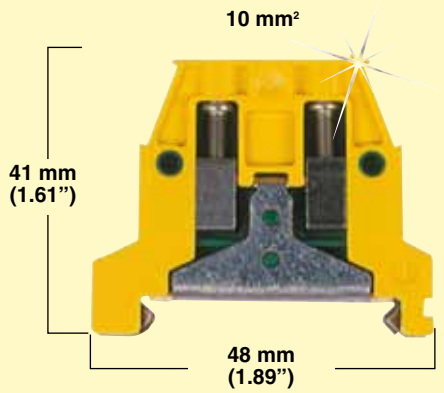
International Approvals

Omega's new OMTBV7-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.

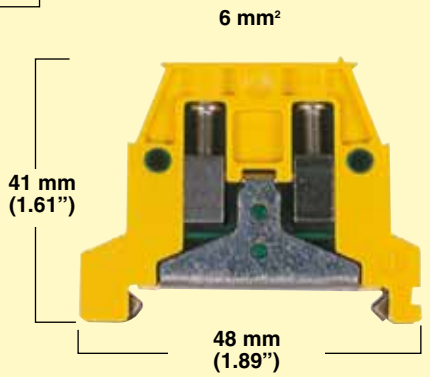
GROUNDING BLOCKS



OMTBV7-WG4-50



OMTBV7-WG10S-10



OMTBV7-WG6-50

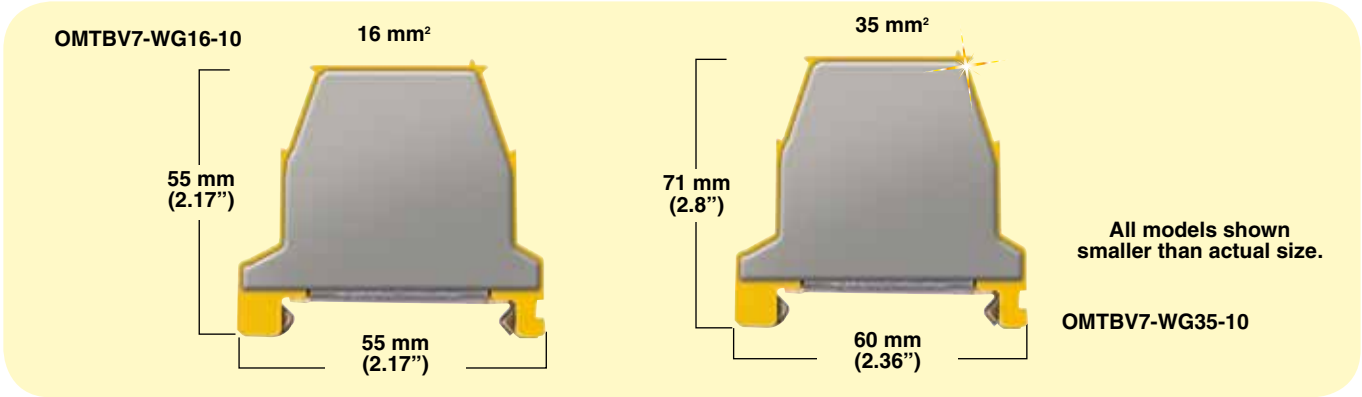
All models shown larger than actual size.

Grounding Blocks

To Order

TERMINAL	MODEL NO.	MODEL NO.
Green/Yellow Pkg of 50	**OMTBV7-WG4-50**	**OMTBV7-WG6-50**
ACCESSORIES		
End Barrier Pkg of 50 or 10	**OMTBV7-EB3-Y-50**	**OMTBV7-EB10-Y-50**
End Anchors -50 (pkg of 50) -10 (pkg of 10) Screw Type—Normal Duty Screw Type—Heavy Duty	**OMTBV7-EA35-50** **OMTBV7-EAH35-10**	**OMTBV7-EA35-50** **OMTBV7-EAH35-10**
Blank Marking Tags, 6 x 12 mm (0.2 x 0.47"), card of 100	**OMTBV7-SM6X12**	**OMTBV7-SM6X12**
Pre-Printed Marking, Tabs, Single Digit (0 to 9), stick of 10	**OMTBV7-MP**	**OMTBV7-MP**
SPECIFICATIONS		
Approvals		
Maximum Current	Grounding	Grounding
Wire Range (Rated Cross Section)	#22 to #14 AWG / #22 to #12 AWG / 4 mm²	#22 to #10 AWG / #22 to #10 AWG / 6 mm²
Wire Strip Length	11 mm (0.43")	12 mm (0.47")
Recommended Tightening Torque	0.7 Nm (5.6 to 6.8 lb/in.)	0.7 Nm (5.6 to 6.8 lb/in.)
Density	166/m (50 pcs./ft)	142/m (43 pcs./ft)
Insulation Temperature Range	-40 to 90°C (-40 to 195°F)	-40 to 90°C (-40 to 195°F)

Ordering Examples: OMTBV7-WG4-50, *grounding block, package of 50, and* ***OMTBV7-EAH35-10,*** *end anchors, package of 10.*
OMTBV7-WG6-50, *grounding block for #22-10 AWG, package of 50.*



Grounding Blocks

To Order			
TERMINAL	**MODEL NO.**	**MODEL NO.**	**MODEL NO.**
Green/Yellow Pkg of 10	**OMTBV7-WG10S-10**	**OMTBV7-WG16-10**	**OMBV7-WG35-10**
ACCESSORIES			
End Barrier Pkg of 50 or 10	**OMTBV7-EB10-Y-50**	Not Required	Not Required
End Anchors -50 (pkg of 50) -10 (pkg of 10) Screw Type— Normal Duty Screw Type— Heavy Duty	**OMTBV7-EA35-50** **OMTBV7-EAH35-10**	**OMTBV7-EA35-50** **OMTBV7-EAH35-10**	**OMTBV7-EA35-50** **OMTBV7-EAH35-10**
DIN Rail, 35 x 7.5 mm x 2 m (1.4 x 0.3" x 6.5') slotted	**XBANS3575P**	**XBANS3575P**	**XBANS3575P**
DIN Rail, 35 x 7.5 mm x 2 m (1.4 x 0.3" x 6.5') solid	**XBANS3575U**	**XBANS3575U**	**XBANS3575U**
DIN Rail, 35 x 15 mm x 2 m (1.4 x 0.6" x 6.5') slotted	**XBANS3515P**	**XBANS3515P**	**XBANS3515P**
DIN Rail, 35 x 15 mm x 2 m (1.4 x 0.6" x 6.5') solid	**XBANS3515U**	**XBANS3515U**	**XBANS3515U**
Blank Marking Tags, 6 x 12 mm (0.2 x 0.47"), card of 100	**—**	**OMTBV7-SM6X12**	**OMTBV7-SM6X12**
Blank Marking Tags, 8 x 12 mm (0.3 x 0.5"), card of 100	**OMTBV7-SM8X12**	—	—
Pre-Printed Marking Tabs, Single Digit (0 to 9), stick of 10	**—**	**OMTBV7-MP**	**OMTBV7-MP**
SPECIFICATIONS			
Approvals			
Maximum Current	Grounding	Grounding	Grounding
Wire Range (Rated Cross Section)	#22 to #8 AWG / #22 to #8 AWG / 10 mm²	#10 to #4 AWG / #10 to #4AWG / 16 mm²	#6 to #1/0 AWG / #6 to #1/0 AWG / 35 mm²
Wire Strip Length	11 mm (0.43")	18 mm (0.70")	21 mm (0.83")
Recommended Tightening Torque	0.8 Nm (7.1 to 6.8 lb-in.)	2.5 Nm (22.1lb-in.)	5.0 Nm (44.3 lb-in.)
Density	125/m (38 pcs./ft)	76/m (23 pcs./ft)	55/m (16 pcs./ft)
Insulation Temperature Range	-40 to 90°C (-40 to 195°F)	-40 to 90°C (-40 to 195°F)	-40 to 90°C (-40 to 195°F)

Ordering Examples: OMTBV7-WG16-10, *grounding block, package of 10 and* ***OMTBV7-EAH35-10,*** *end anchors, package of 10.*
OMTBV7-WG35-10, *grounding block for #6-1/0 AWG, package of 10.*