

WMF 2.5

**Multi-Functional Terminal Block Series
For DCS Marshalling**

A Better Way to Marshal for DCS Applications

For reliable and safe marshalling in modern Distributed Control Systems (DCS), modular terminal blocks are still the first choice, especially for very large and complex systems. Terminal blocks offer good value and availability because they are easy to use and provide a high level of design flexibility. Plus, terminal blocks with screw connections are well-known world wide in the Process Industry as the most common and reliable interface for the connection of signals to and from the field.

Reduce Your Total Cost of Ownership

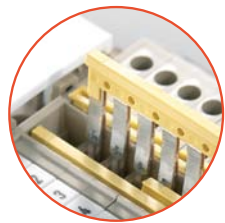
Weidmuller's innovative new terminal block series, the WMF 2.5 (Weidmuller Multi-Functional), is specifically designed for the challenging demands of DCS marshalling applications— notably to simplify wiring, reduce required cabinet space, increase functionality, and expand wire routing and signal distribution capabilities. These space-saving terminal blocks provide a cost saving and flexible solution for routing and distributing signals by combining all the necessary functionality into a single solution.

The WMF 2.5 series offers an uncomplicated and reliable connection that ensures one of the best possible solutions for signal termination in the process and power generation industries.

Features that Deliver Optimum Flexibility

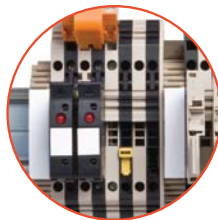
2 Blocks - Multiple Options

- Feed through, fuse and disconnect



3 Cross Connections

- Three pluggable center channels
- Ideal for commoning potentials



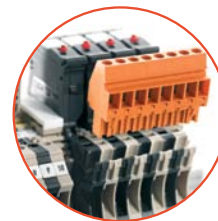
Small Form Factor

- Up to 55% space savings with 5mm width



Innovative Fusing

- Blown fuse indication (LED) with low leakage rating (0.5mA)
- Provides quick disconnect



Pluggable Connections

- Pre-assembled cables possible
- 87% wiring time savings

Ground Shield Attachment Point

- With integrated ground connection
- No ground block required

Traditional Cabinet Marshalling for 96 Signal Loops

1 Contact Wire to FTA:

- Cut wire to length
- Strip wire
- Connect wire

Needed time: ~ 60 seconds

2 Run Wire:

- Place cable in wire duct
- Label cable

Needed time: ~ 30 seconds

3 Contact Wire to Terminal Block:

- Cut wire to length
- Strip wire
- Connect wire

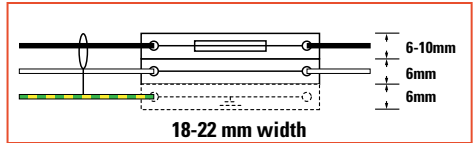
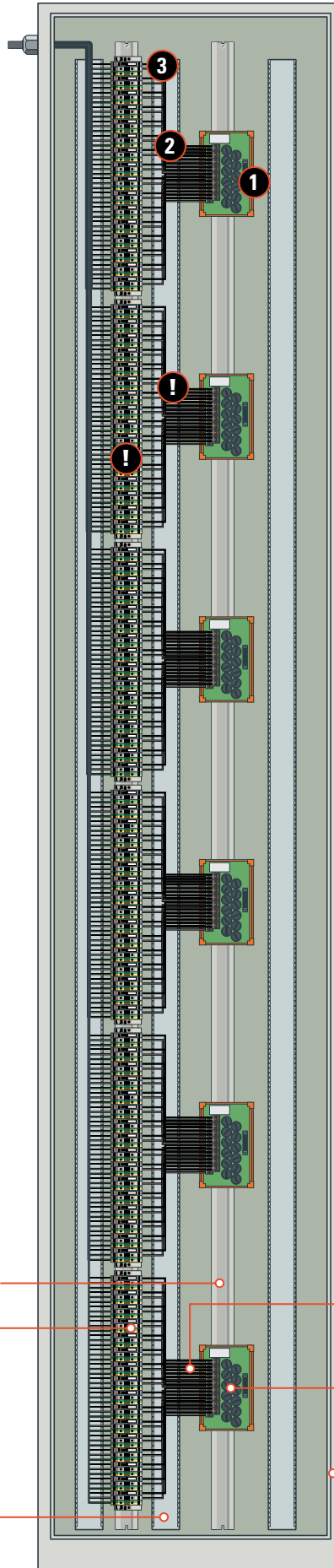
Needed time: ~ 60 seconds

Time Calculation for Marshalling Wiring:

- 2 ½ minutes per wire
- 96 x 2 wires per signal loop = 192 wires
- 2 connections per wire (on terminal block and FTA) = 384 connections

192 wires x 2 ½ minutes = 8 hours

**2½ minutes per wire
~8 hours to wire**



One signal loop (fuse block, feed through block and PE block for the shield connection)



Limitations:

- Increased potential of wiring failures due to many individual screw connections
- High complexity due to wide variety of terminal block types required

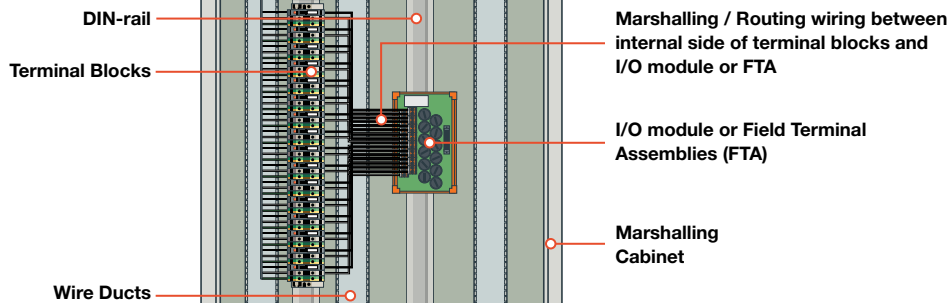


Space Calculation for Marshalling Wiring:

(Average marshalling panel with 96 signal loops on 6 I/O modules/FTA with 16 signal loops on each):

- 3 terminal blocks per signal loop = 22mm/loop
- 288 terminal blocks required
- Uses 2112mm (83 in.) on DIN-rail

**2112mm (83 in.)
on DIN-rail**



Cabinet Marshalling Using WMF 2.5 Terminals

1 Contact Cable to FTA (2, 4, 6, 8, 16 pole):

- Just plug it in

Needed time: ~ 60 seconds

2 Run Wire

- Place cable in wire duct
- Label cable

Needed time: ~ 30 seconds

3 Contact Cable to Terminal Blocks

- Just plug it in

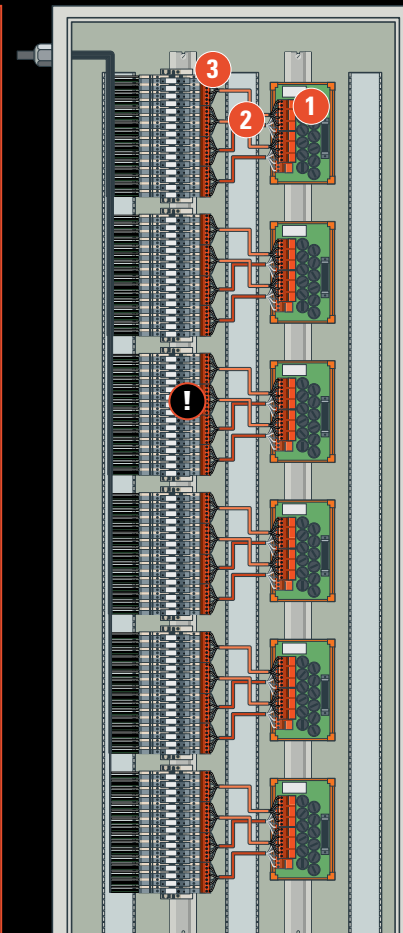
Needed time: ~ 60 seconds

Time Calculation for Marshalling Wiring:

- 2 ½ minutes per 8-pole cable
- 96 x 2 wires per signal loop =
192 wires on 24 cables with
8-pole plugs

*24 connections x 2 ½ minutes =
1 hour*

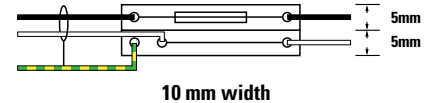
2 ½ minutes per cable
(2, 4, 6, 8 and 16 poles)
~ 1 hour to wire



**87%
Faster
to Wire!**

**55%
Space
Savings!**

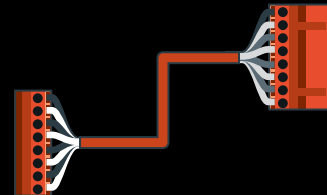
**33%
Fewer
Blocks!**



*One signal loop (fuse block, feed through block
and integrated PE for the shield connection)*

Advantages:

- Minimize wiring failures with
pre-assembled cables and plugs
- Reduced complexity with
one terminal design (WMF 2.5)



Space Calculation for Marshalling Wiring:

(Average marshalling panel with
96 signal loops on 6 I/O modules/FTA
with 16 signal loops on each):

- 2 terminal blocks per signal loop =
10mm/loop
- 192 terminal blocks required
- Uses 960mm (38.0 in) on DIN-rail

**960mm (38.0 in.)
on DIN-rail**

Why Get Better Connected with Weidmuller WMF 2.5 Multi-Functional Terminal Blocks?

From start to finish, the WMF 2.5 series provides a flexible and efficient DCS marshalling solution. The savings in wiring time is significant— up to 87% in some cases. Add to that a 55% reduction in valuable DIN-rail space, and the potential total cost savings over traditional marshalling solutions will have a positive impact on your bottom line.

Availability

The following products are available from stock:

	IEC rated Voltage / Current	UL rated Voltage / Current	Standard	With Integrated Ground / PE	With Pluggable BLZ Interface	With Integrated Ground and Pluggable Interface	Part Number
Feed-Through	800V / 24A	600V / 26A	WMF 2.5				1143070000
	800V / 24A	600V / 26A	WMF 2.5 BL				1270040000
	800V / 24A	600V / 26A		WMF 2.5 PE			1143060000
	800V / 24A	600V / 26A		WMF 2.5 PE BL			1270050000
Disconnect†	250V / 24A	300V / 15A			WMF 2.5 BLZ		1143050000
	500V / 20A	300V / 10A	WMF 2.5 DI				1143020000
	500V / 20A	300V / 10A		WMF 2.5 DI PE STB			1167340000
	500V / 20A	300V / 10A		WMF 2.5 DI PE			1143030000
Fuse Block†	250V / 24A	300V / 10A				WMF 2.5 DI BLZ PE	1143010000
	500V / 6.3A	300V / 10A	WMF 2.5 FU SW				1162920000
	500V / 6.3A	300V / 10A	WMF 2.5 FU 10-36V SW				1162930000
	500V / 6.3A	300V / 10A	WMF 2.5 FU 30-70V SW				1162940000
	500V / 6.3A	300V / 10A	WMF 2.5 FU 60-150V SW				1162950000
	500V / 6.3A	300V / 10A	WMF 2.5 FU 100-250V SW				1162960000
	500V / 6.3A	300V / 10A		WMF 2.5 FU PE SW			1163040000
	500V / 6.3A	300V / 10A		WMF 2.5 FU PE 10-36V SW			1163050000
	500V / 6.3A	300V / 10A		WMF 2.5 FU PE 30-70V SW			1163060000
	500V / 6.3A	300V / 10A		WMF 2.5 FU PE 60-150V SW			1163070000
	500V / 6.3A	300V / 10A		WMF 2.5 FU PE 100-250V SW			1163080000
	250V / 6.3A	300V / 10A			WMF 2.5 FU BLZ SW		1162980000
	250V / 6.3A	300V / 10A			WMF 2.5 FU BLZ 10-36V SW		1162990000
	250V / 6.3A	300V / 10A			WMF 2.5 FU BLZ 30-70V SW		1163000000
	250V / 6.3A	300V / 10A			WMF 2.5 FU BLZ 60-150V SW		1163010000
	250V / 6.3A	300V / 10A			WMF 2.5 FU BLZ 100-250V SW		1163020000
	250V / 6.3A	300V / 10A				WMF 2.5 FU BLZ PE SW	1162820000
	250V / 6.3A	300V / 10A				WMF 2.5 FU BLZ PE 10-36V SW	1162830000
	250V / 6.3A	300V / 10A				WMF 2.5 FU BLZ PE 60-150V SW	1162850000
	250V / 6.3A	300V / 10A				WMF 2.5 FU BLZ PE 30-70V SW	1162840000
250V / 6.3A	300V / 10A				WMF 2.5 FU BLZ PE 100-250V SW	1162860000	

Accessories

Pin cover protective cap				WAD WMF2.5	WAD WMF2.5	1142970000
End plate		AP WMF2.5	AP WMF2.5	AP WMF2.5	AP WMF2.5	1142990000
Locking bracket*				WBB WMF2.5 BLZ	WBB WMF2.5 BLZ	1142980000
Locking lever**				IL WMF2.5 BLZ OR	IL WMF2.5 BLZ OR	1167440000
Disconnect lever		TNHE ZDL 2.5 GE	TNHE ZDL 2.5 GE		TNHE ZDL 2.5 GE	4263240000
End bracket		WEW 35/2	WEW 35/2			1061200000

*Set for screwing the connector to the terminal strip

**Plastic lever to secure the connector on the terminal block against possible pull out

†Fuse levers for fuse or disconnect terminals

Type	Part Number
WMF 2.5 Fuse Lever, w/o indication	1167630000
WMF 2.5 Fuse Lever, LED 10-36VAC/DC	1167640000
WMF 2.5 Fuse Lever, LED 30-70VAC/DC	1167650000
WMF 2.5 Fuse Lever, LED 60-150VAC/DC	1167670000
WMF 2.5 Fuse Lever, LED 100-250VAC/DC	1167680000

WMF 2.5 Series is designed to optimize marshalling in the following DCS Systems:



- System 800xA
- Freelance
- Compact 800



- DeltaV™
- DeltaV™ SIS
- Ovation™
- WDPF™



- Mark™ V1e DCS Control Solutions
- OC 4000™ Control System
- OC 6000e DCS Control System



- Experion LS
- Experion PKS
- TDC 2000
- TDC 3000



- Foxboro®
- Triconex®



- ProcessLogix



- PCS7
- TELEPERM
- SPPA T1000/2000/3000



- CENTUM® -V
- CENTUM® -XL
- CENTUM® -μXL
- CENTUM® CS 300R3
- CENTUM® CS

The Weidmuller WMF 2.5 Series will save installation time and space with any marshalling system, including upgrade and retrofit applications

Weidmuller is the leading manufacturer of components for electrical connection technology to transmit energy, signals and data. The Weidmuller product portfolio ranges from terminal blocks, PCB connectors and terminals, protected components, Industrial Ethernet components, I/O components and relay sockets to power supplies and over-voltage protection modules suitable for all applications. Assemble Services, marking solutions with a variety of tools and software systems, round off the range. As an OEM supplier, the company sets global standards in the field of electrical connection technology.

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