

PRODUCT OVERVIEW

Murata is a premier provider of high-density, titanium-efficiency power shelves that meet the growing demands of data center applications including the Open Compute Project. The racks are designed for industry-standard widths of 19 inches (482.6mm) and 21 inches (533.4mm).

This document explains the Murata installation kits needed to install 19-inch power shelves into data center racks and expansion cable for a power shelf. Each kit (as detailed in the following table) provides the required bracketry and assembly hardware for specific rack installations.

ORDERING GUIDE

Part Number	Applicable Power Shelf	Applicable BBU Shelf	Standard	Remarks
MWOC-KIT-6	MWOCES-192-A		V2, single power zone (Rittal)	
MWOC-KIT-7	MWOCES-192-A		V2, dual power zone (Rittal)	
MWOC-KIT-8	MWOCES-211-G		V2, single power zone (Rittal)	
MWOC-KIT-9	MWOCES-211-G		V2, dual power zone (Rittal)	
MWOC-KIT-20	MWOCES-192-A		V1, dual power zone (Rittal)	
MWOC-KIT-21	MWOCES-191-M-B		V2 single power zone (Rittal)	
MWOC-KIT-23	MWOCES-211-G		V2, single/ dual power zone (Rittal)	Cannot be used alone
MWOC-KIT-26	MWOCES-192-A MWOCES-192-M		V2, single power zone (Rittal)	
MWOC-KIT-27	MWOCES-192-A MWOCES-192-M		V2, dual power zone (Rittal)	
MWOC-KIT-28 ^{※1}	MWOCES-192-M		EIA	
MWOC-KIT-37 ^{※1}	MWOCES-192-M		ESA	
MWDC-KIT-12	MWDCES-191 MWOCES-191-M-B		EIA	
MWBB-KIT-2	MWOCES-192-A MWOCES-192-M	MWBBES-212-A	V2, single/ dual power zone (Rittal)	MWOC-KIT-7 or 27 need to purchase
MWBB-KIT-3	MWOCES-192-A MWOCES-192-M	MWBBES-212-A	For an explanation the BBU shelf	
MWBB-KIT-5	MWOCES-211-G	MWBBES-212-A	V2, single power zone (Rittal)	MWOC-KIT-23 need to purchase
MWBB-KIT-8	MWOCES-211-G	MWBBES-212-A	V2, dual power zone (Rittal)	MWOC -KIT-23 need to purchase

^{※1} Planned future product. Contact Murata for more details.



For full details go to:
www.murata.com/rohs

ORDERING GUIDE (Expansion cable)

Part Number	Product Description	Remarks
MWOC-KIT-C1	Expansion cable that connects three power shelves in parallel and has a current adjustment function.	
MWOC-KIT-C2	Expansion cable that connects two power shelves in parallel and has a current adjustment function.	

INSTALLATION KIT CONTENTS

Part Number	Content name	Quantity	Product weight (kg)	Packing size (L * W * H mm)	Packing Weight (kg)
MWOC-KIT-6	TRAY	1	10.0	862*796*134	13.3
	ADJUSTER L	1			
	ADJUSTER R	1			
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	M4×10 SEMS SCREW	4			
	M8×14 UPSET BOLT	28			
	6×10 S-TITE SCREW	2			
MWOC-KIT-7	TRAY	1	9.7	862*796*134	13.0
	ADJUSTER L	1			
	ADJUSTER R	1			
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	M4×10 SEMS SCREW	4			
	M8×14 UPSET BOLT	20			
	6×10 S-TITE SCREW	2			
MWOC-KIT-8	TRAY	1	6.7	856*856*164	11.2
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	M8×14 UPSET BOLT	22			
	6×10 S-TITE SCREW	2			
MWOC-KIT-9	TRAY	1	9.7	862*796*134	13.0
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	M8×14 UPSET BOLT	14			
	6×10 S-TITE SCREW	2			
MWOC-KIT-20	TRAY	1	11.53	856*856*152	16.0
	ADJUSTER L	1			
	ADJUSTER R	1			
	BUSBAR-BRIDGE L1, L2, L3	1			
	BUSBAR-BRIDGE R1, R2, R3	1			
	M4×10 SEMS SCREW	4			
	M8×14 UPSET BOLT	20			
	6×10 S-TITE SCREW	2			
MWOC-KIT-21	TRAY	1	8.67	856*856*164	13.2
	ADJUSTER L	1			
	ADJUSTER R	1			
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	M5×12 SEMS SCREW	6			
	M8×14 UPSET BOLT	24			
	6×10 S-TITE SCREW	2			
MWOC-KIT-23	TRAY	1	6.98	709*643*134	
	6×10 S-TITE SCREW	2			

RACK MOUNT KIT CONTENTS

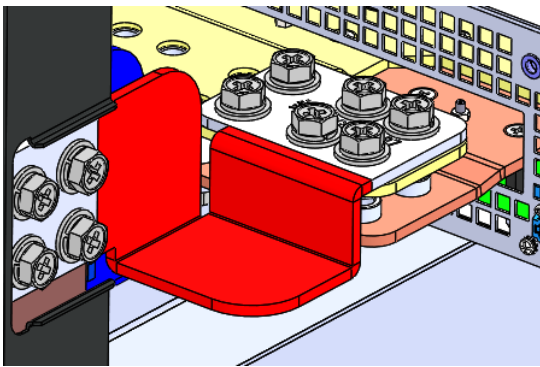
Part Number	Content name	Quantity	Product weight (kg)	Packing size (L * W * H mm)	Packing Weight (kg)
MWOC-KIT-26	TRAY	1	11.4	830*795*140	14.5
	ADJUSTER L	1			
	ADJUSTER R	1			
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	M5×12 SEMS SCREW	6			
	M8×14 UPSET BOLT	28			
	6×10 S-TITE SCREW	2			
MWOC-KIT-27	TRAY	1	11.4	830*760*145	14.2
	ADJUSTER L	1			
	ADJUSTER R	1			
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	M5×12 SEMS SCREW	6			
	M8×14 UPSET BOLT	20			
	6×10 S-TITE SCREW	2			
MWOC-KIT-28	ANGLE L1, L2	1	2.0	680*290*115	2.8
	ANGLE R1, R2	1			
	SIDE BAR	1			
	M5×16 TRUSS HEAD SCREW	14			
	M5×14 SEMS SCREW	12			
	M5 FLANGE NUT	12			
MWOC-KIT-37	M4×8 FLAT HEAD SCREW	10	1.0	285*170*160	1.3
	LINK BUSBAR RTN	1			
	LINK BUSBAR	1			
MWDC-KIT-12	M8×14 UPSET BOLT	20	2.0	656*175*108	2.6
	ANGLE L1, L2	1			
	ANGLE R1, R2	1			
	M5×14 SEMS SCREW	22			
MWBB-KIT-2	M5 FLANGE NUT	12	3.2	506*468*173	4.2
	BUSBAR-BRIDGE L	1			
	BUSBAR-BRIDGE R	1			
	COVER	1			
	M8×18 UPSET BOLT	12			
	M3×20 BIND HEAD SCREW	2			
	FG CABLE	1			
	SIGNAL CABLE	1			
MWBB-KIT-3	BUSBAR-BRIDGE L	1	0.9	443*388*326	5.7
	BUSBAR-BRIDGE R	1			
	COVER	1			
	M8×18 UPSET BOLT	12			
	FG CABLE	1			
	SIGNAL CABLE	1			
MWBB-KIT-5	BUSBAR-BRIDGE L	1	1.3	506*468*173	
	BUSBAR-BRIDGE R	1			
	COVER	1			
	M8×12 UPSET BOLT	22			
	M8×18 UPSET BOLT	12			
	M3×20 BIND HEAD SCREW	2			
	FG CABLE	1			
	SIGNAL CABLE	1			

RACK MOUNT KIT CONTENTS

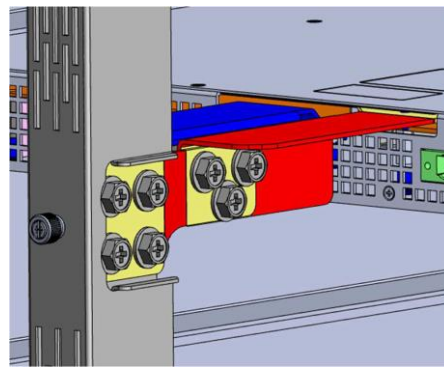
Part Number	Content name	Quantity	Product weight (kg)	Packing size (L * W * H mm)	Packing Weight (kg)
MWBB-KIT-8	BUSBAR-BRIDGE L	1	1.0	443*388*326	
	BUSBAR-BRIDGE R	1			
	COVER	1			
	M8×12 UPSET BOLT	14			
	M8×18 UPSET BOLT	12			
	M3×20 BIND HEAD SCREW	2			
	FG CABLE	1			
	SIGNAL CABLE	1			

BUSBAR INSTALLATION EXAMPLE ILLUSTRATIONS

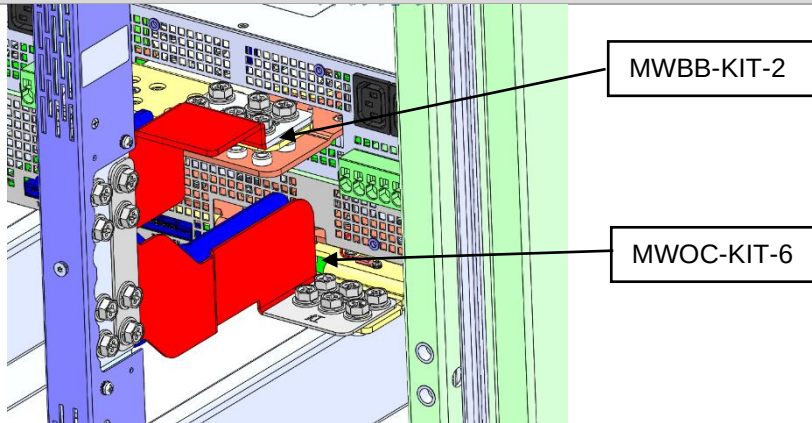
MWOC-KIT-27 (TYPE: MWOCES-192-M)



MWOC-KIT-9 (TYPE: MWOCES-211-G)



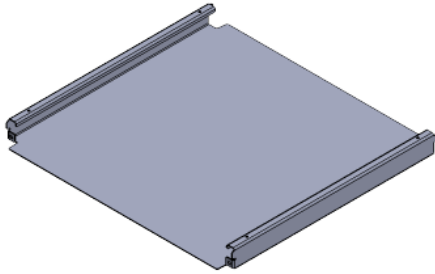
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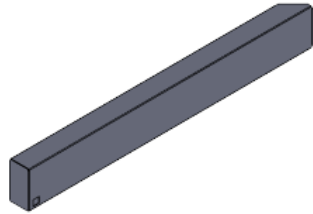
KIT CONTENT ILLUSTRATIONS

MWOC-KIT-6

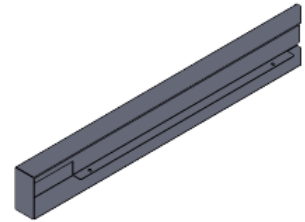
Tray



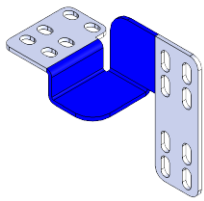
Adjuster L



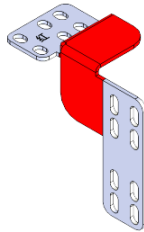
Adjuster R



BUSBAR-BRIDGE L



BUSBAR-BRIDGE R



M4×10 SEMS
SCREW



M8×14 UPSET BOLT

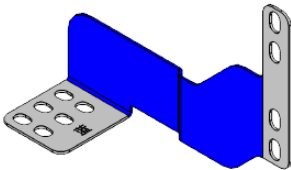


6×10 S-TITE SCREW

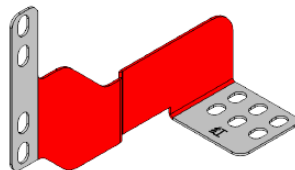


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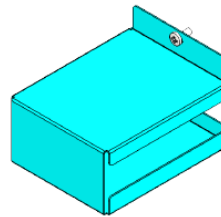
BUSBAR-BRIDGE L



BUSBAR-BRIDGE R



COVER



M8×18 UPSET BOLT



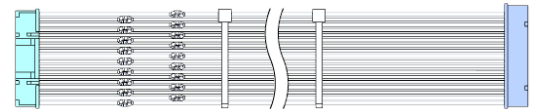
BIND HEAD SCREW



FG CABLE



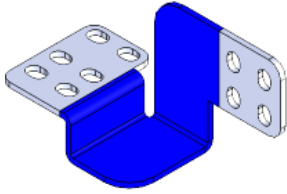
SIGNAL CABLE



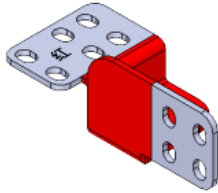
KIT CONTENT ILLUSTRATIONS

[MWOC-KIT-7](#)

BUSBAR-BRIDGE L

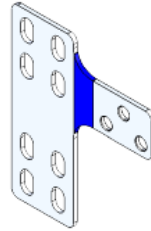


BUSBAR-BRIDGE R

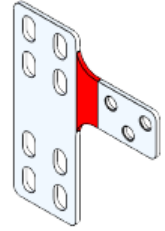


[MWOC-KIT-8](#)

BUSBAR-BRIDGE L

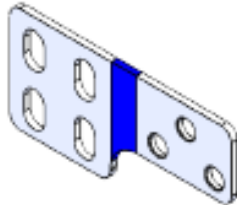


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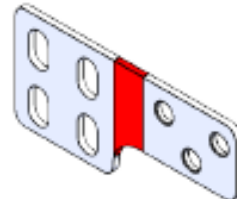


[MWOC-KIT-9](#)

BUSBAR-BRIDGE L

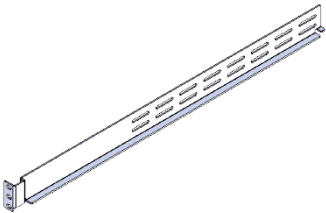


BUSBAR-BRIDGE R

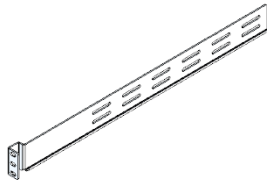


[MWDC-KIT-12](#)

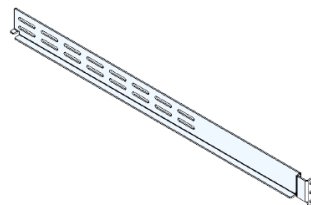
ANGLE L1



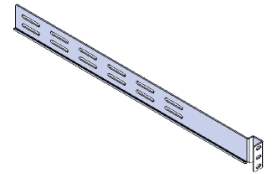
ANGLE L2



ANGLE R1

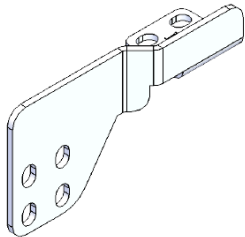


ANGLE R2

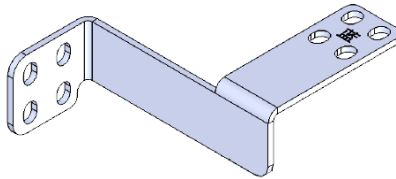


[MWOC-KIT-20](#)

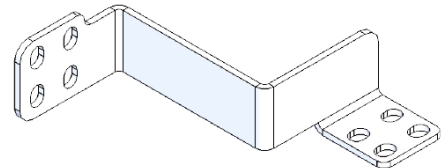
BUSBAR-BRIDGE L1



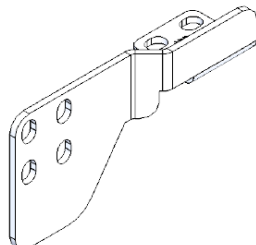
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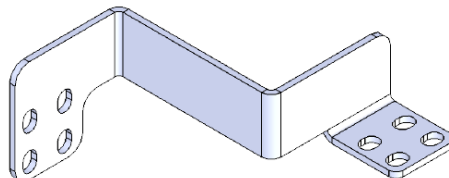
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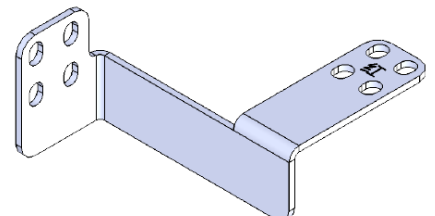
BUSBAR-BRIDGE R1



BUSBAR-BRIDGE R2



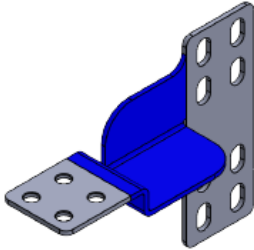
BUSBAR-BRIDGE R3



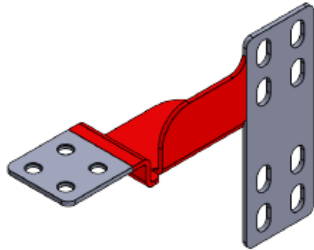
KIT CONTENT ILLUSTRATIONS

[MWOC-KIT-21](#)

BUSBAR-BRIDGE L

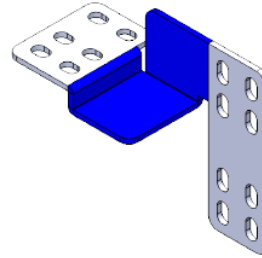


BUSBAR-BRIDGE R

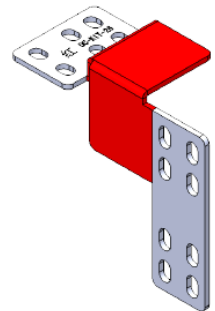


[MWOC-KIT-26](#)

BUSBAR-BRIDGE L

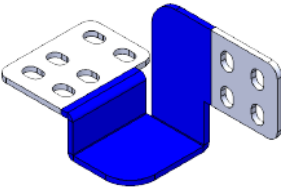


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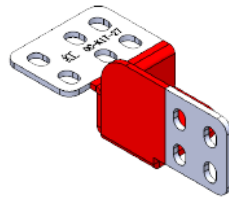


[MWOC-KIT-27](#)

BUSBAR-BRIDGE L

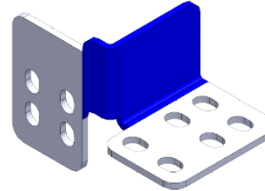


BUSBAR-BRIDGE R

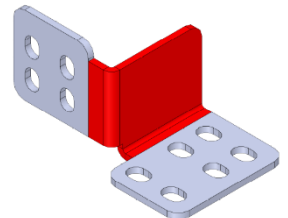


[MWOC-KIT-37](#)

LINK BUSBAR RTN

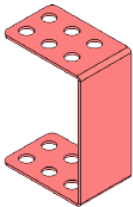


LINK BUSBAR

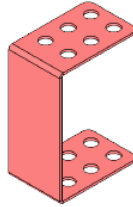


[MWBB-KIT-3](#)

BUSBAR-BRIDGE L

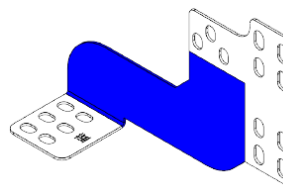


BUSBAR-BRIDGE R

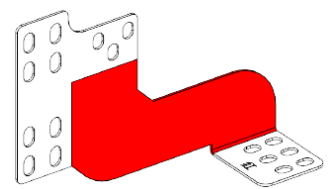


[MWBB-KIT-5](#)

BUSBAR-BRIDGE L

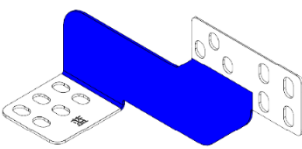


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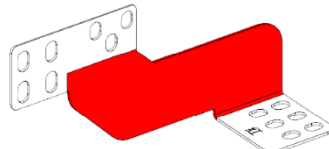


[MWBB-KIT-8](#)

BUSBAR-BRIDGE L



BUSBAR-BRIDGE R



RELATED PRODUCT DATASHEETS

Document Number	Description	Website Link to Datasheet
MWDCES-191	19" OCP POWER SHELF	Link to: Datasheet
MWOCES-192	19" OCP POWER SHELF	Link to: Datasheet
MWOCES-211	21" OCP POWER SHELF	Link to: Datasheet
MWBBES-212-A	21" BBU shelf	Link to: Datasheet

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USA.
ISO 9001 REGISTERED

This product is subject to the following operating requirements and the Life and Safety Critical



Application Sales Policy: Refer to: <https://www.murata.com/en-us/products/power/requirements/>

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