PRODUCT OVERVIEW

Murata is a premier provider of high-density, high-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 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	Standard	Remarks
MWOC-KIT-6	MWOCES-192-A	ORV2, SPZ rack (Rittal)	
MWOC-KIT-7	MWOCES-192-A	ORV2, DPZ rack (Rittal)	
MWOC-KIT-8	MWOCES-211-G	ORV2, SPZ rack (Rittal)	
MWOC-KIT-9	MWOCES-211-G	ORV2, DPZ rack (Rittal)	
MWOC-KIT-20	MWOCES-192-A	ORV1, DPZ rack (Rittal)	
MWOC-KIT-21	MWOCES-191-M-B	ORV2, SPZ rack (Rittal)	
MWOC-KIT-26	MWOCES-192-A MWOCES-192-M	ORV2, SPZ rack (Rittal)	
MWOC-KIT-27	MWOCES-192-A MWOCES-192-M	ORV2, DPZ rack (Rittal)	
MWOC-KIT-28	MWOCES-192-M	19” rack	
MWOC-KIT-37	MWOCES-192-M		For Mitac ESA KIT
MWOC-KIT-41	MWOCES-191-P-D		
	MWOCES-191-P-C		
MWDC-KIT-12	MWDCES-191-C MWOCES-191-M-B		

SPZ：Single Power Zone / DPZ：Dual Power Zone

ORV1：Open Rack Version 1 / ORV2：Open Rack Version 2

25 RoHS COMPLIANT

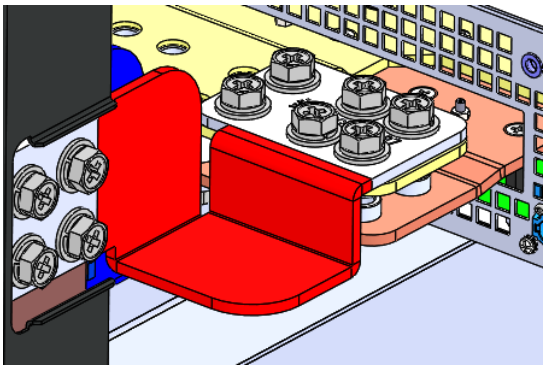
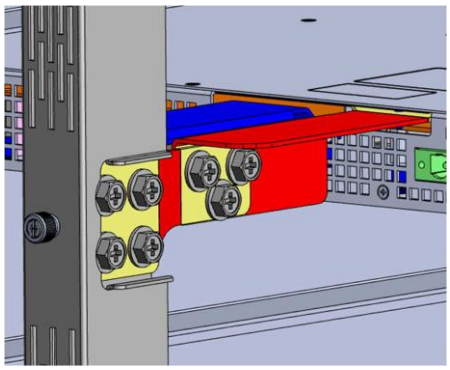
For full details go to:
www.murata.com/rohs

ORDERING GUIDE (Expansion cable)		
Part Number	**Product Description**	**Applicable Shelf**
MWOC-KIT-C1	Expansion cable that connects three power shelves in parallel and has a current sharing function.	MWOCES-191-M-B MWOCES-191-P-C MWOCES-211-P-C MWOCES-211-P-C-S
MWOC-KIT-C2	Expansion cable that connects two power shelves in parallel and has a current sharing 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			
	M5×12 SEMS SCREW	6			
	M8×14 UPSET BOLT	48			
	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			

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	2			
	M5×16 TRUSS HEAD SCREW	14			
	M5×14 SEMS SCREW	12			
	M5 FLANGE NUT	12			
	M4×8 FLAT HEAD SCREW	10			
MWOC-KIT-37	LINK BUSBAR RTN	1	1.0	285*170*160	1.3
	LINK BUSBAR	1			
	M8×14 UPSET BOLT	20			
MWOC-KIT-41	ANGLE FRONT L	1	2.6	800*230*100	3.5
	ANGLE FRONT R	1			
	ANGLE REAR	2			
	STOPPER	2			
	M5×16 TRUSS HEAD SCREW	12			
	M3×6 COUNTERSUNK SCREW	4			
MWDC-KIT-12	ANGLE L1, L2	1	2.0	656*175*108	2.6
	ANGLE R1, R2	1			
	M5×14 SEMS SCREW	12			
	M5 FLANGE NUT	12			
	M5×16 TRUSS HEAD SCREW	10			

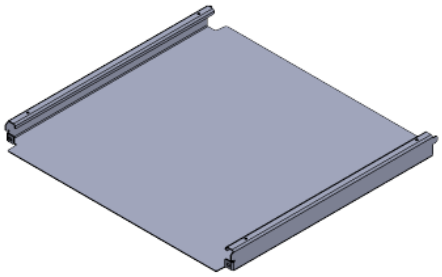
BUSBAR INSTALLATION EXAMPLE ILLUSTRATIONS

MWOC-KIT-27 (TYPE: MWOCES-192-M)	MWOC-KIT-9 (TYPE: MWOCES-211-G)
	

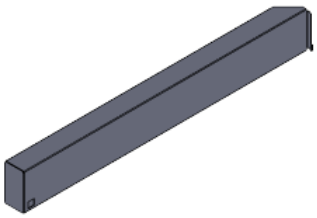
KIT CONTENT ILLUSTRATIONS

MWOC-KIT-6

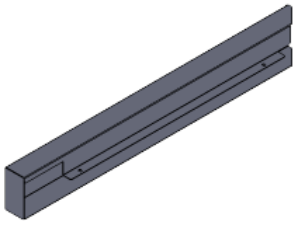
Tray



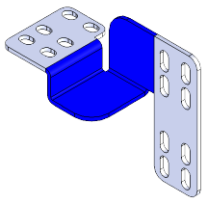
Adjuster L



Adjuster R



BUSBAR-BRIDGE L



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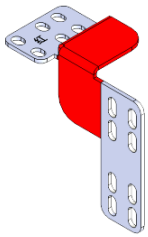


M4×10 SEMS SCREW

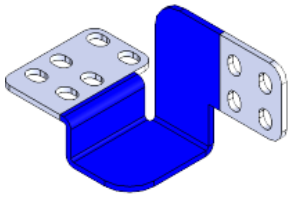
M8×14 UPSET BOLT

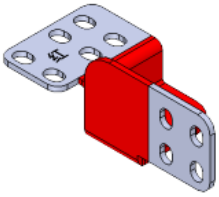
6×10 S-TITE SCREW

MWOC-KIT-7

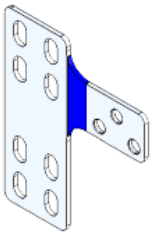
BUSBAR-BRIDGE L BUSBAR-BRIDGE R

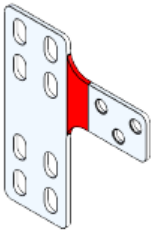
BUSBAR-BRIDGE L BUSBAR-BRIDGE R





MWOC-KIT-8

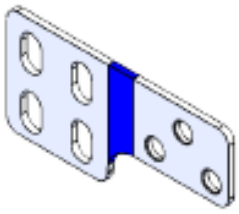




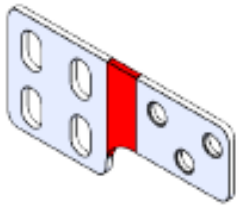
KIT CONTENT ILLUSTRATIONS

MWOC-KIT-9

BUSBAR-BRIDGE L

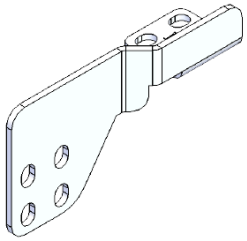


BUSBAR-BRIDGE R

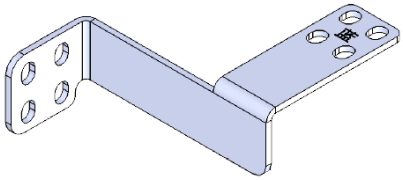


MWOC-KIT-20

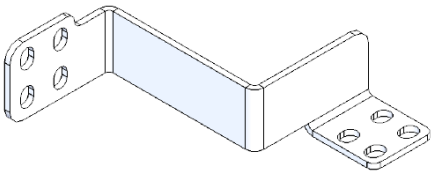
BUSBAR-BRIDGE L1



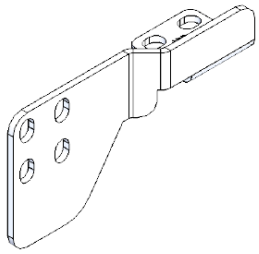
BUSBAR-BRIDGE L2



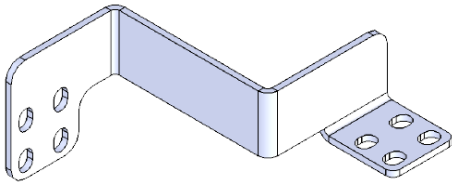
BUSBAR-BRIDGE L3



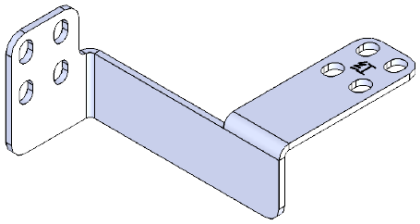
BUSBAR-BRIDGE R1



BUSBAR-BRIDGE R2

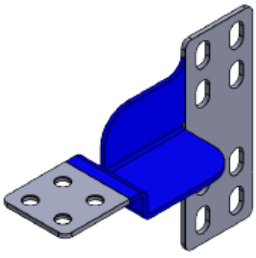


BUSBAR-BRIDGE R3

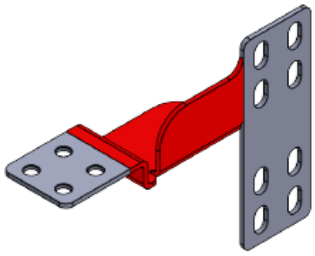


MWOC-KIT-21

BUSBAR-BRIDGE L

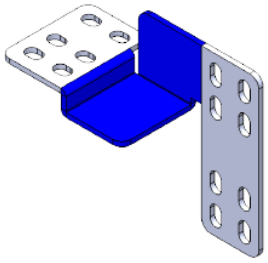


BUSBAR-BRIDGE R

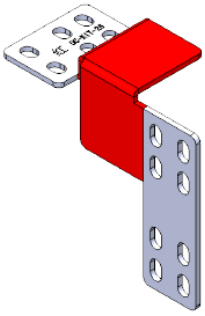


MWOC-KIT-26

BUSBAR-BRIDGE L



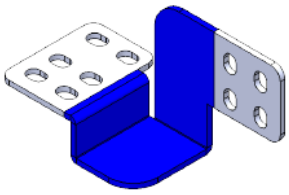
BUSBAR-BRIDGE R



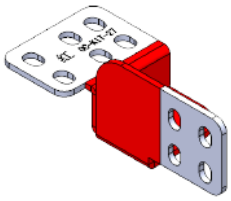
KIT CONTENT ILLUSTRATIONS

MWOC-KIT-27

BUSBAR-BRIDGE L

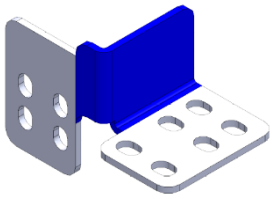


BUSBAR-BRIDGE R

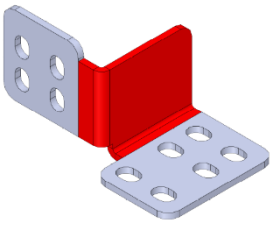


MWOC-KIT-37

LINK BUSBAR RTN

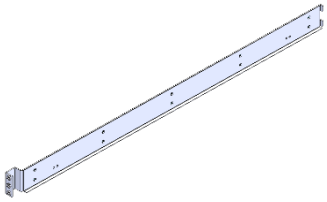


LINK BUSBAR

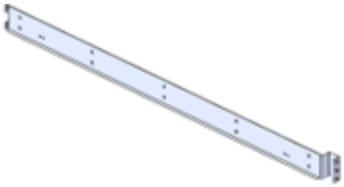


MWOC-KIT-41

ANGLE : Front L 1pcs



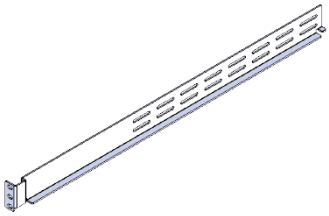
Front R 1pcs



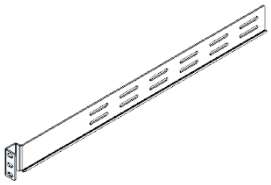
Rear 2pcs

MWOC-KIT-12

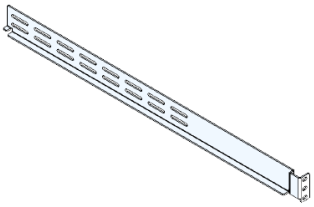
ANGLE : L1



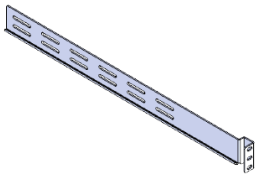
L2



R1



R2



RELATED PRODUCT DATASHEETS		
Document Number	**Description**	**Click Link Below to open online Datasheet**
MWDCES-191-C	19” OCP Power Shelf	Link to: Datasheet
MWOCES-191-M-B		Link to: Datasheet
MWOCES-191-P-C		Link to: Datasheet
MWOCES-191-P-D		Link to: Datasheet
MWOCES-192-A		Link to: Datasheet
MWOCES-192-M		
MWOCES-211-F	21” OCP Power Shelf	Link to: Datasheet
MWOCES-211-G		
MWOCES-211-P-C		Link to: Datasheet
MWOCES-211-P-D		Link to: Datasheet
MWOCES-211-P-C-S		Link to: Datasheet

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129 Flanders Rd. Westborough, MA 01581, 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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