

## HIGH DENSITY WIRE MANAGERS

Cable management can have a serious impact on the efficiency of your data transmissions. Poorly managed cables can adversely affect network throughput whilst poorly arranged patch cords can make cabling moves, add-ons and changes difficult to achieve.

The new range of High Density Wire Managers from CONTEG ensures that cabling can be properly managed whilst maintaining bend radii for today's high speed cabling and helping to optimise network throughput. The innovative design features unique fingers which have radii to promote effective bend radius management whilst maintaining user friendly operation. The covers for the wire managers feature a unique latching system that allows covers to be either swivelled or removed completely, without the use of tools, to allow access to the cable bundles.

The CONTEG High Density Wire Managers are available in horizontal and vertical configurations with options for front only or front and rear fingers. Available in a wide range of sizes, the CONTEG High Density Wire Managers can be used in Rack and/or Frame deployments to allow excellent cable management regardless of your physical support technology.

### Design

High Density Wire Managers all feature lightweight aluminium alloy covers, sheet steel or aluminium alloy bases depending on size and configuration and plastic T-fingers.

CONTEG R&D team invested a lot of time ensuring that the whole High Density Wire Manager range gives your cabling system the optimum physical support whilst maintaining an aesthetically pleasing appearance that will enhance the look of any hi-tech data center.



### User friendly covers

The covers of the High Density Wire Managers are equipped with a unique latching system so that they may be easily opened (to the left or right) or removed completely for comfortable access to the installed cables.

For ease of use the Vertical High Density Wire Managers covers are divided into 3 sections so that it is possible to remove part of the cover if required.

**The HDWM range combines excellent design and high quality, with user friendly operation.**



hdwm-wm-3f

### Front/rear design

Provides a dual pathway for managing station and patch cables within the same High Density Wire Manager. Available for both horizontal and vertical installations. Except vertical rack managers (VMR), with front only design.



### Front only design

Provides a simple pathway for cables, available for both horizontal and vertical installations.

### Horizontal installation

Horizontal High Density Wire Managers provide a horizontal pathway for managing cables among the installed equipment by mounting onto the 19" extrusions.

### Wiring Troughs

Adjustable Wiring Troughs allow the management of cables between Vertical High Density Wire Managers mounted at the front and rear of a rack or frame.

### Vertical installation

Vertical High Density Wire Managers provide a vertical pathway for managing cables into and through the rack or frame and come complete with Velcro cable ties for optimum cable bundle management. Optional Fiber Storage Spools can be fitted to ensure that any cable slack is neatly stored. For complete flexibility of configuration Vertical Frame Managers can be bolted together (front to back) using the supplied connecting hardware so it's easy to customize your high density wire managers to your requirements. For example, to achieve a 250 x 200 front section and a 250 x 300 rear section simply connect 1 x VMF-xx-25/20-F with 1 x VMF-xx-25/30-F.

HORIZONTAL HIGH DENSITY WIRE MANAGERS							
Code	Installation	Type	Nr. of fingers		Dimensions		
			Front	Rear	H in U	W	D in mm
HDWM-HM-1F	Open frame/rack	Front	10	x	1	19"	112
HDWM-HM-1FR	Open frame/rack	Front/rear	10	9	1	19"	223
HDWM-HM-2F	Open frame/rack	Front	10	x	2	19"	112
HDWM-HM-2FR	Open frame/rack	Front/rear	10	9	2	19"	223
HDWM-HM-2FRB	Open frame/rack	Front/rear, brush	10	9	2	19"	223
HDWM-HM-3F	Open frame/rack	Front	10	x	3	19"	112
HDWM-HM-3FR	Open frame/rack	Front/rear	10	9	3	19"	223
HDWM-HM-3FRB	Open frame/rack	Front/rear, brush	10	9	3	19"	223

Standard equipment: manager, installation instructions, 4 mounting kits

VERTICAL HIGH DENSITY WIRE MANAGERS							
Code	Installation	Type	Nr. of fingers		Dimensions		
			Front	Rear	H in U	W in mm	D in mm
HDWM-VMR-42-12/10F	Rack	Front	41	x	42	100	126
HDWM-VMR-45-12/10F	Rack	Front	44	x	45	100	126
HDWM-VMF-42-15/20F	Open frame	Front <sup>1</sup>	41	x	42	151	200
HDWM-VMF-45-15/20F	Open frame	Front <sup>1</sup>	44	x	45	151	200
HDWM-VMF-47-15/20F	Open frame	Front <sup>1</sup>	46	x	47	151	200
HDWM-VMF-42-25/20F	Open frame	Front <sup>1</sup>	41	x	42	251	200
HDWM-VMF-45-25/20F	Open frame	Front <sup>1</sup>	44	x	45	251	200
HDWM-VMF-47-25/20F	Open frame	Front <sup>1</sup>	46	x	47	251	200
HDWM-VMF-42-25/30F	Open frame	Front <sup>1</sup>	42	x	41	251	300
HDWM-VMF-45-25/30F	Open frame	Front <sup>1</sup>	44	x	45	251	300
HDWM-VMF-47-25/30F	Open frame	Front <sup>1</sup>	46	x	47	251	300

Standard equipment: manager including blanking panels, installation instructions, mounting hardware, 10 velcro ties

<sup>1</sup>For front/rear design simply order respective front managers and install them easily together on the installation site by using enclosed hardware which is delivered in each box as standard

ACCESSORIES FOR HIGH DENSITY WIRE MANAGERS	
Code	Description
HDWM-VMR-19	Bracket for attachment of HDWM-VMR-xx-xx/xxF to 19" profiles (not required for ROF/RHF/RDF)
HDWM-VMR-ACT	Adjustable cable trough to manage cables between front and rear mounted vertical High Density Rack Wire Managers
HDWM-VMF-ACT	Adjustable cable trough to manage cables between front and rear mounted vertical High Density Frame Wire Managers
HDWM-VMF-B15	Bracket for attachment of HDWM-VMF-xx-15/xxF to back of open frame (not required for RSG and CPI/Panduit)
HDWM-VMF-B25	Bracket for attachment of HDWM-VMF-xx-25/xxFR to back of open frame (not required for RSG and CPI/Panduit)
HDWM-VMF-BLANK-42	Blank panel kit to close ACT holes for 42U VMF range of wire managers
HDWM-VMF-BLANK-45	Blank panel kit to close ACT holes for 45/47U VMF range of wire managers
HDWM-FSS-50	Fiber Storage Spools, 50mm deep, pair, including mounting hardware
HDWM-FSS-100	Fiber Storage Spools, 100mm deep, pair, including mounting hardware
HDWM-VCT	Velcro Cable Ties, 25mm x 300mm, pack 10, black

**INSTALLATION**

vertical high density wire managers can be installed in standard L-profile extrusions as well as in high-load and C-type 19" vertical extrusions

**HDWM-VMR-ACT**

horizontal adjustable cable troughs to lead the cables between front and rear vertical rack high density wire managers

**HDWM-VMR-42-12/10F**

front vertical high density wire managers, applicable in rack deployment

**HDWM-HM-1FR**

front/rear horizontal 1U high density wire manager, applicable in both rack and frame deployments

front/rear horizontal 2 or 3U high density wire manager with brush also available

**HDWM-HM-2F**

front horizontal 2U high density wire manager, applicable in both rack and frame deployments

**HDWM-HM-3F**

front horizontal 3U high density wire manager, applicable in both rack and frame deployments

**HDWM-VMF-47-15/20F**

front vertical high density wire manager, applicable in frame deployments

**HDWM-VMF-47-15/20F**

front vertical high density wire manager, applicable in frame deployments

**HDWM-VMF-ACT**

horizontal adjustable cable troughs to lead the cables between front and rear vertical open frame high density wire managers

**HDWM-VMF-47-25/20F (2x)**

front wire managers shown joined to give front & rear cable management, applicable in frame deployments

**HDWM-VMF-47-25/30F**

front vertical high density wire manager, applicable in frame deployments

**:: high density wire managers**

**ROF & RDF series 19" distribution racks**

ROF-42-60/100, RDF-42-60/100  
 ROF-45-60/100  
 ROF-48-60/100, RDF-48-60/100  
 ROF-42-60/110, RDF-42-60/110  
 ROF-42-60/120, RDF-42-60/120  
 ROF-42-80/100, RDF-42-80/100  
 ROF-45-80/100  
 ROF-48-80/100, RDF-48-80/100  
 ROF-42-80/110, RDF-42-80/110  
 ROF-42-80/120, RDF-42-80/120

**RSG4 series 19" high-load four post open frames**

RSG4-42-19/50-LF  
 RSG4-42-19/74-LF  
 RSG4-42-19/92-LF  
 RSG4-45-19/50-LF  
 RSG4-45-19/74-LF  
 RSG4-45-19/92-LF  
 RSG4-47-19/50-LF  
 RSG4-47-19/74-LF  
 RSG4-47-19/92-LF

**RSG2 series 19" high-load two post open frames**

RSG2-27-19-L5  
 RSG2-42-19-L5  
 RSG2-45-19-L5  
 RSG2-47-19-L5  
 RSG2-42-19-LA  
 RSG2-45-19-LA  
 RSG2-47-19-LA

**HDWM recommended rack & open frame series**

**ROF series 19" distribution racks**<sup>1</sup> can be easily bayed together into rows using optional fixing kits and are ideally suited for high density computing environment. The racks are suitable for the secure housing of all types of active and passive equipment.

**RDF series 19" distribution racks**<sup>1</sup> have been optimised for the air-conditioning units and advanced cable management flexibility. RDF maintains all of the ROF properties incl. easy connecting in rows or compatibility with the wide range of standard accessories. The RDF rack features an interchangeable top cover to allow throughput of all types of cable management incl. cable basket trays etc. RDF racks are suitable for the secure housing of all types of active and passive equipment.

**RSG4 series high-load four post open frames** are an alternative to housing the equipment in racks. Open frames bring unbeatable accessibility, but require a dust free environment with controlled access, because no protection is provided to the equipment. Load rating of these frames is up to 1500kg (balanced load) that means they are also suitable for installation of heavy servers, disk arrays etc. The frames are also suitable for use in testing and service rooms where they ensure unlimited access to installed components.

**RSG2 series high-load two post open frames** bring unbeatable accessibility. The RSG2 frames are available with two load ratings, depending on the type of equipment that you want to install. The 500kg rated frame (balanced load) is ideally suited to high density cabling applications, whereas the 1000kg rated frame (balanced load) is suited to the installation of heavier equipment. The frames are also suitable for use in testing and service rooms where they ensure unlimited access to installed components.

<sup>1</sup> ROF & RDF rack series has undergone a facelift in November 2009, ROF & RDF racks produced before this date are not recommended to be used together with High Density Wire Managers, please contact us in case you are not sure about your rack's compatibility.

Vertical High Density Wire Managers for rack installation (VMR) are compatible with 800mm wide racks only. Into 600mm wide racks can be installed only horizontal High Density Wire Managers.

**HDWM Cable Fill Calculator**

To assist you with product selection CONTEG has developed a cable fill calculator which shows the number of cables it is possible to support through the range of High Density Wire Managers. Simply enter your cable diameter and required fill ratio and the calculator will tell you the number of cables that can be accommodated.

**The calculator is available on the CONTEG High Density Wire Managers web page.**

