DATA SHEET

MDF, Racks and Panels

Copper portfolio

Commscope offers variants of copper connectivity distribution system solutions for all parts and applications of the subscriber access and transmission network. The range of the products discussed in this document enables the customer to set up modular distributors in every size required. These system solutions are flexible, easy to install and offer a clear arrangement of the connectivity components, as well as ease of copper cable jumpering.

The frames present the interface between copper cables arriving from the local network subscriber side and different types of active equipment. The portfolio enables customers to select all configuration sizes variants from small rack type up to medium and large-scale main distribution frame (MDF). They will cover to solve the most varied requirements and to fit into the most varied spaces. Their connection components are based on the proven KRONE style products LSA-PLUS® series 2 or LSA-PLUS® HD180 using the LSA-PLUS® quick connection technology inside.

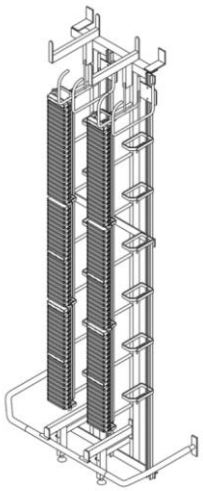
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Main distribution frame, MDF 91 M

Up to 1200 pairs per rack unit

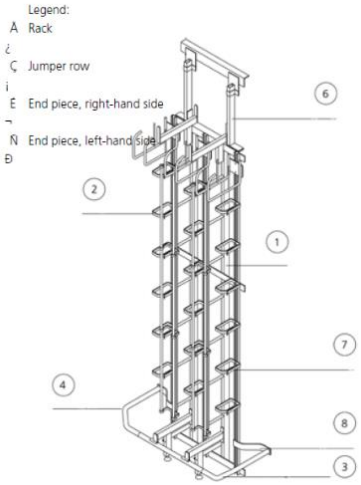
The main distribution frame 91 M is the preferred frame variant for 1200 pairs (2 x 600 pairs) for accommodation of 10-pair LSA PROFIL modules on the system and line sides. The frame consists of 2 verticals, each with 66 slots for modules and label holders (25mm pitch).



It can be configured in three ways:

1. Wall-secured standing distribution frame (Standing distribution frame, fixed to the wall)
2. Freestanding distribution frame, single-sided (Freestanding distribution frame, fixed to the ceiling)
3. Freestanding distribution frame, two-sided (Freestanding, back-to-back distribution frames, screwed together, fixed to the ceiling)





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Features & benefits

- Modular and space-saving design
- Available in various models: wall-secured, standing version
- Adaptable to given space requirements
- Short installation time, thanks to pre-assembled frame
- Jumpering preferably within a vertical
- Distributor functions:
    - jumpering
    - disconnection of lines
    - protection against overvoltage and overcurrent
    - connection of lines
    - testing of lines
    - connection of service functions
    - identification of special lines

Configuration capabilities

- Frame: 2 verticals, each with 66 slots for modules and label holders (25mm pitch)
- Connection: Vertical arrangement of connection components with LSA-PLUS® modules 2/10 for 10 pairs and LSA-PLUS® modules 2/8-95 for 8 pairs on profile rods
- Connection capacity: Line= 600 pairs, System 512 pairs (Line + system: 2 x 600 pairs max.)
- Jumper capacity:
    - Horizontal = approx. 4000 pairs
    - Vertical = approx. 600 pairs (wire diameters 0.5mm / 0.9mm)
- The horizontal jumper capacity of approx. 4000 pairs permits a distributor row of 13 racks (26 rows) with 50% of the jumper wires being retained by the horizontal wire guides.
- Cable guide: Line and system cables: rack entry optionally from top or bottom
- Jumper cables: on the right-hand side of the modules, preferably within the same row
- Distributor functions: Jumpering, disconnection of lines, protection against overvoltage and overcurrent, connection of lines, testing of lines, connection of service functions, identification of special lines

Design and configurations

Product description	Pairs	LSA-PLUS® Series 2 PROFIL modules 8 or 10-pairs	Frame height (mm)
MDF 91 M LSA-PLUS® Series 2 PROFIL frames (d = 46 mm) with label holder	2 x 600	120	2325
	2 x 500	100	2050

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General attributes & mechanical characteristics

- Installation:
    - The main distribution frame contains 2 verticals so facilitates easy installation of connection components with a 25mm module pitch. Various configuration methods are possible: wall-secured installation, standing installation fixed at the ceiling or floor. At delivery cable and jumper guiding components, a basic rack and an extension rack are included.

- Product specifications:
    - Dimensions:
        - Height = 2325mm (600 pairs), Height = 2050mm (500 pairs)
        - Depth = 388.5mm
        - Width = 894mm (basic frame), 552mm (extension frame)
    - Temperature range: 5°C – 40°C
    - Relative humidity: 80%
    - Environment:
        - Room height = 2500mm min.
        - Floor and ceiling solid construction
        - Aisle width at front side: 1400mm min.
        - Aisle width at ends: 1200mm min.
    - Earthing: All the components of the rack are connected to a common earth potential.
    - Connection point: FPE* connection point for M8 bolts, can be connected top or bottom. Identification by a label in accordance with DIN 40011. (*FPE= function and protective earth)
    - FPE cable: Copper cable of 50mm2 min., color: green/yellows
    - Color: RAL 7032
    - Delivery condition: Assembled

Product offering - Main distribution frame MDF 91 M

Order Number	Description
Racks 2 x 600 pairs (preferred variant)	
65771080-01	MDF 91 M LSA-PLUS® Series 2 PROFIL with profile frames (d = 46 mm) with label holder
65771019-00	Jumper row
Racks 2 x 500 pairs	
65771083-01	MDF 91 M LSA-PLUS® Series 2 PROFIL with profile frames (d = 46 mm) with label holder
65771078-00	Jumper row

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Product offering - Main distribution frame 91 M accessories

Order Number	Description
65772802-00	Accessories for free-standing MDF
65772808-00	Ceiling fixing rail
65772857-00	Wire guide BS-MDF 91M-DF
65772863-00	Wire guide BS-MDF 91 M-U Insert for an additional, jumpering bay on the bottom (1 insert max. per vertical jumpering row) for wall-floor rack and free-standing rack double-sided
65772858-00	Equipotential earth bar SHN-BS5 insulated busbar, for the termination of special cables (1 busbar max. per frame)
65773885-00	Cable duct 49 x 99 x 1700-KUGR5 (slotted duct, with a cover) D x W x H (in mm): 49 x 99 x 1700
65632009-02	Label holder VT-GR2-KPL5 component for identifying the verticals of the rack (2 holders per frame)
65772876-00	End piece VT-BS2 Wall fixing element for kick-bar for free-standing frame, double-sided (1 piece per frame)

Distribution frame 800

Up to 1400 pairs per rack unit

The Distribution Frame 800 with profile rod columns allows the termination of up to 800 pairs (LSA-PLUS Series 2) and 1400 pairs (LSA-PLUS HD180). Accessories like Jumper Rings are permanently fixed to the distribution frame and allow the jumper wires to be run between columns horizontally and vertically. There are two different base sizes to cater for sites that have limited space.

Earthing is carried out by either an earth bar across the base of the frame or individual earth wires.



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Features & benefits

- Flexible in use, i.e. free-standing version, back-to-back mounting or wall mounting
- Easily extendable
- High density
- Room for easy termination, wiring and jumper management
- Accommodates LSA-PLUS S2 and HD180 for PROFILE rod installations only
- Easy to assemble

Design and configurations

Product description	LSA-PLUS® HD180 PROFIL	LSA-PLUS® Series 2 PROFIL	Frame height (mm)
Distribution frame 800	1400 pairs	800 pairs	2200

General attributes & mechanical characteristics

- Product specifications:
  - Dimensions: H2200 x D309 x W251 (mm)
  - Material (frame): Galvanized steel with epoxy
  - Material (round bars): Stainless steel (diameter 12 mm)
  - Color: gray
  - Contact resistance: <10mΩ (between racks, in frame)
  - Usable profile bar length:
    - Upper section: 853 mm
    - Lower section: 1022mm

Product offering - Distribution frame 800

Order Number	Description
DFO-70811001-00	Distribution frame 800

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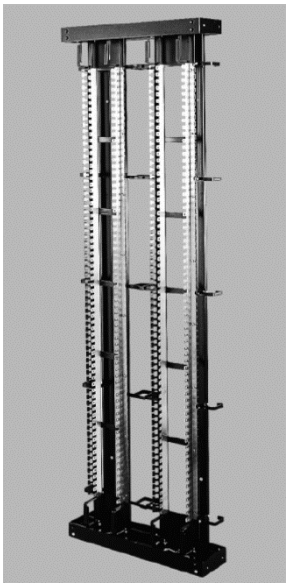
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Distribution 108A & City 80 frames

Up to 1600 pairs

The distribution 108A& City 80 frames are vertical, modular distribution frames offering up to 1600 pairs capacity. The modular construction allows units to be assembled side-by-side for wall mounting, or back-to-back for free-standing applications.

Earthing is provided via a heavy copper earth communing bar fitted to the bottom of the frame and running the full width of the frame. Adjustable legs allow for uneven flooring or may be removed where height is a limitation.



Features & benefits

- Cable management
- Two distribution racks can be fixed together with bolts (not included in delivery) to form banks
- Flexible in use, i.e. free-standing version, back-to-back mounting or wall mounting
- Pre-installed cable guides

Design and configurations

Product description	LSA-PLUS® Series 2 capacity	Dimensions (mm) Height x depth x width
Single vert frame 108A	690 pairs	H2004 x D150 x W285
Distribution frame 108A	1380 pairs	H2004 x D150 x W560
City 80 frame	1600 pairs	H2250 x D150 x W570

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General attributes & mechanical characteristics

- Installation:
    - The distribution rack is delivered completely assembled without wall- and side fixing material.
- Product specifications:
    - Material: Sheet steel
    - Color: Black (RAL 9011)



Figure 1: Distribution frame 108A – one vertical (64201050-00)



Figure 2: Distribution frame 108A – two verticals (64201013-00)



Figure 3: City 80 frame – two extended verticals (64201013-12)

Product offering - Distribution 108A & City 80 frames

Order Number	Description
64201050-00	Distribution frame 108A – one vertical
64201013-00	Distribution frame 108A – two verticals
64201013-12	City 80 frame

Product offering - Distribution 108A & City 80 frames

Order Number	Description
64203057-00	Additional legs, 1 pair (Only for Distribution frame 108A – two verticals)
64203061-00	Front & rear panels (Only for Distribution frame 108A – two verticals)
64203062-00	Side panels (Only for Distribution frame 108A – two verticals)
64203063-00	Double side panel (Only for Distribution frame 108A – two verticals)
64201043-00	City 80 frame lockable side panel
64201044-00	City 80 frame lockable front panel

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LSA-PLUS® Subracks

For 19-inch rack

This section provides an overview of the different 19-inch racks suitable for LSA PROFIL system. The racks can be used for setting up small, compact distribution units.



Figure 4: 19" Subrack for 4HU/7SU LSA-PLUS® Series 2 or HD180 PROFIL, with Jumper rings [MID: 66901371-00]

Features & benefits

- Designed for installation in 19-inch racks
- Suitable for PROFIL modules and Back
- Included cable supported
- Included perforated rail
- Flexibility

Configuration capabilities

- Installation: The racks are delivered unmounted.
- Product specifications:
  - Material (subrack): Sheet steel
  - Material (Profil rods): Stainless steel

Design and configurations

Product description	Size	LSA-PLUS® Series 2 Back mount frame	LSA-PLUS® Series 2 PROFIL modules	LSA-PLUS® HD180 PROFIL modules
19" Subrack for LSA-PLUS® Series 2 BACK MOUNT FRAME	1HU	3	-	-
	2HU	9	-	-
	3HU	15	-	-
19" Subrack for LSA-PLUS® Series 2 or HD180 PROFIL ROD	3HU	-	18	23
	4HU	-	18	23

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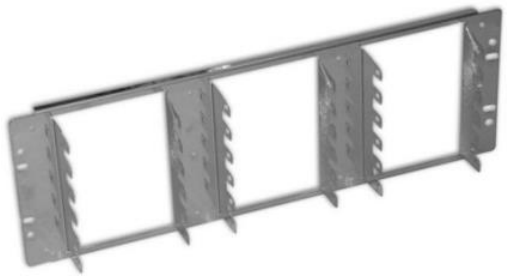


Figure 5: 19" Subrack for 3HU LSA-PLUS® Series 2 Back Mount Frame, Flush mount [MID: 64501008-00]

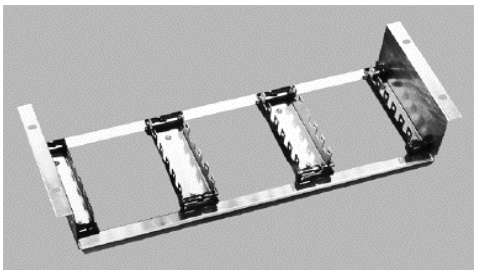


Figure 6: 19" Subrack for 3U LSA-PLUS® Series 2 Back Mount Frame, recessed [MID: 64502006-00]

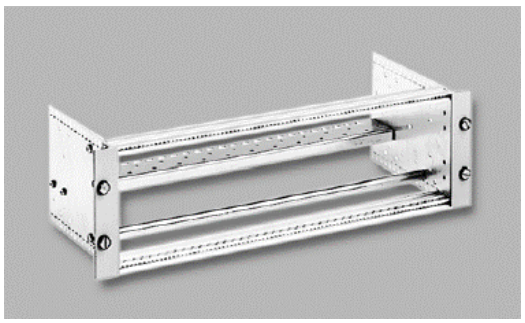


Figure 7: 19" Subrack for 3U LSA-PLUS® Series 2 or HD180 PROFIL [MID: 66901300-00]

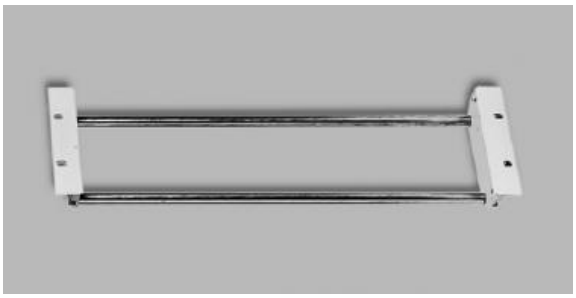


Figure 8: 19" Subrack for 3U LSA-PLUS® Series 2 or HD180 PROFIL – C1 module rack [MID: 66901125-00]

Product offering - 19-inch LSA-PLUS® Subracks

Order Number	Description
BACK MOUT FRAME TYPE	
64501202-00	19" Subrack for 1HU BMF – 3 modules, flush mount
64501008-00	19" Subrack for 3HU BMF – 15 modules, flush mount
64502009-00	19" Subrack for 2HU BMF – 9 modules, recessed
64502006-00	19" Subrack for 3HU BMF – 15 modules, recessed
PROFIL ROD TYPE	
66901300-00	19" Subrack for 3HU PROFIL – DATA rack
66901125-00	19" Subrack for 3HU PROFIL – C1 module rack (only rods)
66901371-00	19" Subrack for 4HU/7SU PROFIL – with jumper elements, bracket for cable fixation

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