3M Telecommunications

Solutions for Networks

Quante™ QSA System Catalogue

3M *Innovation*

3M™ Quante™ Cross Connect System QSA

Description

QSA Series 1

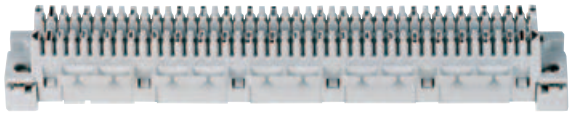
Connection modules for screw fixing in small distribution units. The fixing dimensions of the connection modules for 10 or 20 pairs (colour: grey) are 96 or 170 mm according to DIN 47608 (part 1 and 2).
The earthing strips (colour: red) for 44 or 84 wires complete the product range.

QSA Series 2

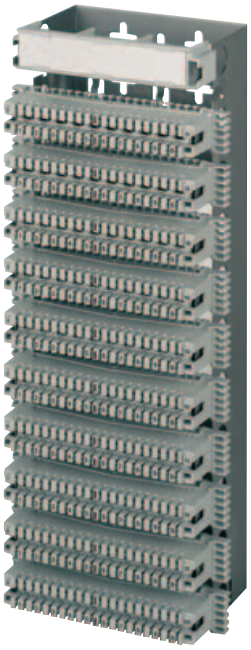
Connection and disconnection modules for mounting on back mount frames. The following types of modules are available:

- 10 pairs connection modules (colour: grey) for overvoltage protection magazines.
- 10 pairs disconnection modules (colour: white) for overvoltage and fine protection.
- Earthing modules (colour: red) for 38 wires.

QSA Series 1
10 pair connection module



QSA Series 1
20 pair connection module



QSA Series 2
connection/disconnection modules
100 pair distribution block

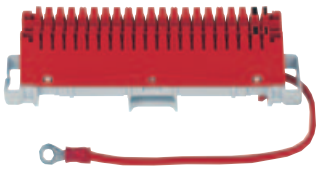
Technical Data	QSA Series 1
Connection modules:	•
Disconnection modules:	—
Earthing modules:	•
10 pair modules:	•
20 pair modules:	•
Wire diameter in mm:	0.40 - 0.80
Overall diameter in mm (over insulation):	0.70 - 1.50
Number of reterminations: ≤ 0,65 wire-Ø	> 50 x
Number of reterminations: 0,8 wire-Ø*	≤ 50 x
Contact material: special brass	•
Contact surface: 3 - 5 µm Silver	•
Housing material: PBT	•
Flame protection: UL 94 V0	•
Insulation resistance: $5x10^4 M\Omega$	•
Volume resistance: < 10 mΩ	•
Dielectric strength: $2kV_eff/50Hz$	•

Technical Data	QSA Series 2
Connection modules:	•
Disconnection modules:	•
Earthing modules:	•
10 pair modules:	•
20 pair modules:	—
Wire diameter in mm:	0.40 - 0.80
Overall diameter in mm (over insulation):	0.70 - 1.50
Number of reterminations: ≤ 0,65 wire-Ø	> 50 x
Number of reterminations: 0,8 wire-Ø*	≤ 50 x
Contact material: special brass	•
Contact surface: 3 - 5 µm Silver	•
Housing material: PBT	•
Flame protection: UL 94 V0	•
Insulation resistance: $5x10^4 M\Omega$	•
Volume resistance: < 10 mΩ	•
Dielectric strength: $2kV_eff/50Hz$	•

3M™ Quante™ Cross Connect System QSA

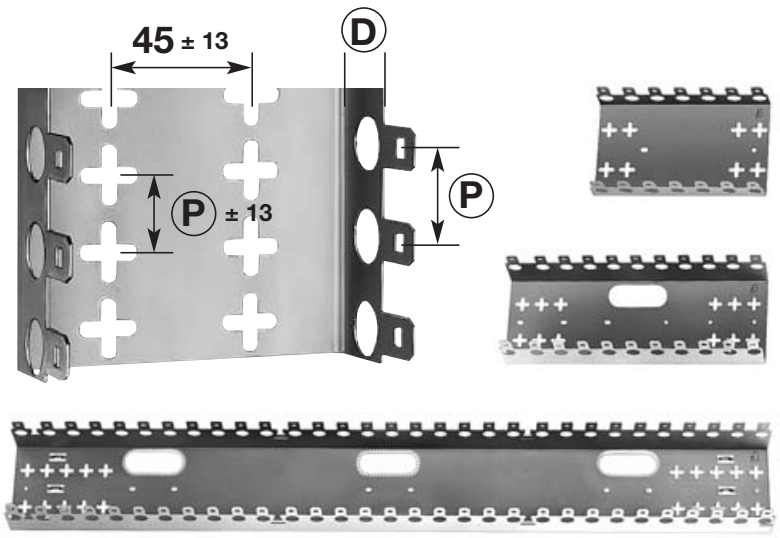
Type/Order text	Ref.-No.
Connection module for 10 pairs Colour: grey, Numbered 1-0	**79101-517 00**
Earthing module for 44 wires Colour: red Dimensions (L x W x D): 105 x 26 x 21.5 mm Mounting dimension: 96 mm	**79101-533 00**
Connection module for 20 pairs Colour: grey, Numbered 2 x 1 - 0	**79101-518 00**
Earthing module for 84 wires Colour: red, Dimensions (L x W x D): 178 x 26 x 25.5 mm Mounting dimension: 170 mm	**79101-534 00**
Labelling frame for 10 pairs module Marking surface: 85 x 15 mm	**79156-505 00**
Labelling frame for 20 pairs module Marketing surface: 160 x 15 mm	**79156-506 00**
Test cord 2 poles, with jacks for banana plugs length: 0.2 m (without figure)	**79054-555 00**

3M™ Quante™ Cross Connect System QSA

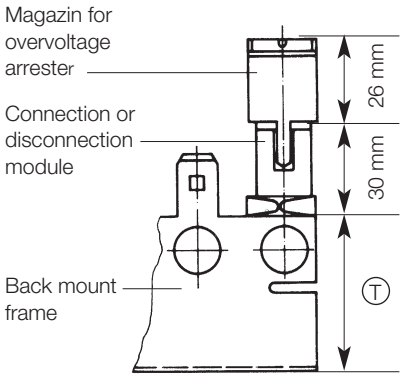
Type/Order text	Ref.-No.
Connection module for 10 pairs standard Colour: grey, Numbered 1 - 0. Dimensions (L x W x D): 123 x 18 x 39 mm	**79101-510 40**
Disconnection module for 10 pairs standard Colour: white, Numbered 1 - 0, Dimensions (L x W x D): 123 x 18 x 39 mm	**79103-510 40**
 **Earthing module** for 38 wires Colour: red, Connection cable, Dimensions (L x W x D): 123 x 18 x 39 mm	**79101-516 00**
Labelling frame With clear cover and marking strip (neutral) 95 x 17 mm, Dimensions (L x W x D): 108 x 21 x 24 mm	**79156-501 00**
Labelling frame Plug-in, hinged, with clear cover, with marking strip (neutral) 103 x 11 mm, Dimensions (L x W x D): 110 x 17 x 8 mm	**79156-503 25**
Insertion tool for connecting of the wires, Dimensions (L x W x D): 176 x 37 x 21 mm For wire diameter: 0.4 - 0.8 mm AWG 26 - 20	**79397-500 27**

3M™ Quante™ Cross Connect System QSA

Pitch (P)	Depth (D)	LH*	Dimensions (L x W x D)	Version	Ref.- No.
Back mount frame					
25 mm	22 mm		45 x 105 x 42 mm	for 2 modules	**79151-533 00**
			70 x 105 x 42 mm	for 3 modules	**79151-534 00**
			170 x 105 x 42 mm	for 7 modules	**79151-536 00**
27.5 mm	22 mm				
			111 x 105 x 42 mm	for 4 modules	**79151-502 25**
		LH*	358.8 x 105 x 42 mm	for 13 modules	**79151-505 25**
	30 mm				
			156 x 105 x 50 mm	for 6 modules	**79151-506 25**
		LH*	246 x 105 x 50 mm	for 9 modules	**79151-507 25**
		LH*	268.5 x 105 x 50 mm	for 10 modules	**79151-508 25**
		LH*	291 x 105 x 50 mm	for 11 modules	**79151-509 25**
		LH*	358.5 x 105 x 50 mm	for 13 modules	**79151-510 25**
	49 mm				
		LH*	300 x 105 x 69 mm	for 1 x 10 + 1 module	**79151-511 25**
		LH*	580 x 105 x 69 mm	for 2 x 10 + 1 module	**79151-512 25**
		LH*	860 x 105 x 69 mm	for 3 x 10 + 1 module	**79151-513 25**
		LH*	1575 x 105 x 69 mm	for 55 + 1 module	**79151-550 00**
22.5 mm	49 mm				
		LH*	253 x 105 x 69 mm	for 1 x 10 + 1 module	**79151-511 00**
		LH*	486 x 105 x 69 mm	for 2 x 10 + 1 module	**79151-512 00**
		LH*	719 x 105 x 69 mm	for 3 x 10 + 1 module	**79151-513 00**



Dimension scheme of overall heights



*) version of back mount frames with long hole (LH) on the back 30x70mm. Delivered with 4 srews M4x8 with spring locks

3M™ Quante™ Cross Connect System QSA

Description

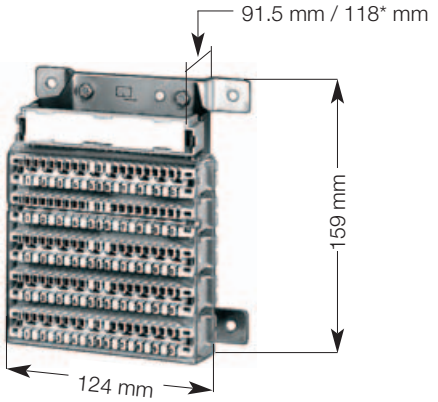
Cable head block for cabinets with vertical frame. The backmount frames are designed to accommodate either grease filled distribution cables or air pressured main cables with casted pressure blocking kit.
Comes with rear cable entry holes and protective grommet. Cable strength relieve is provided with enclosed accessories.
Cable designation label and fixing material included.

Delivery content:

Backmount frames (stainless steel);
fitted with:
5 or 10 connection or disconnection modules for each 10 pairs, numbered 1 - 0;
1 dust cover,
flat version for 100 pairs, high version for 50 pairs,;
1 labelling frame;
1 plug-in number set;
2 edge protection;
1 fixing set for mounting.

Type/Order text

Ref.-No.

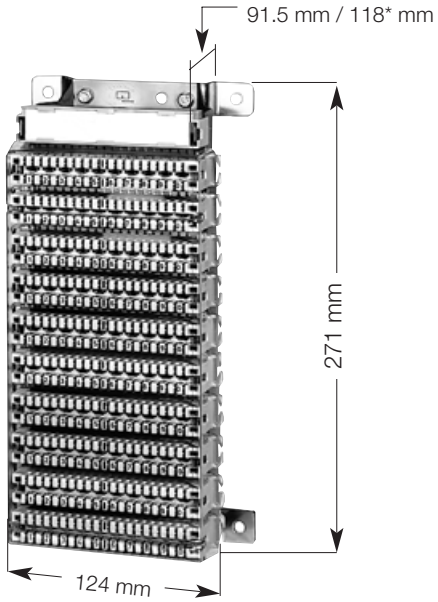


Connection block / 50 pairs
with 5 connection
modules 10 pairs,

10-550-00140

Disconnection block / 50 pairs
with 5 disconnection
modules 10 pairs,

15-450-00140



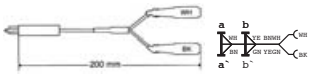
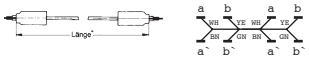
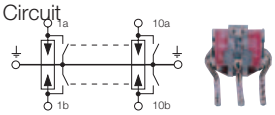
Connection block / 100 pairs
with 10 connection
modules 10 pairs,

10-600-00140

Disconnection block / 100 pairs
with 10 disconnection
modules 10 pairs,

15-500-00140

3M™ Quante™ Cross Connect System QSA

Type/Order text	Ref.-No.
Circuit: **Test plug kit** with connection contacts, solderable **2 poles**	**79096-500 00**
with disconnected contacts, solderable **4 poles**	**79096-501 00**
 **Test cord** with 2 jacks for banana plug **2 pole**	**79054-501 00**
with 4 jacks for banana plug **4 poles**	**79054-524 00**
Connection cord with 2 connection plugs **2 poles,** Length: 2 m **2 poles,** Length: 6 m	 **79054-502 26** **79054-502 28**
 **Connection cord** With 2 4pole disconnection plugs **4 poles,** Length: 2 m **4 poles,** Length: 6 m	 **79054-504 26** **79054-504 28**
Disconnection plug for 1 pair red white black brown	 **79122-500 00** **79122-500 25** **79122-500 29** **79122-500 30**
Disconnection plug for 10 pair, white	**79122-505 00**
Dummy plug for 1 pair, red	**79072-500 00**
Marker caps for 1 pair red yellow black brown	 **79004-500 00** **79004-500 25** **79004-500 29** **79004-500 30**
Magazine 10 pair For arrester shape 3pole, insertion on connection and disconnection modules, Dimension (L x W x D): 112 x 22 x 43 mm	**38126-502 40**
Circuit  **3 pole arrester** 230 V - 10 A / 10kA	**39081-728 00**
3pole arrester with fail-safe 2x5A / 2x5kA, n (100°C) ts ≤ 10 sec	**05-661-02600**

Applications with QSA Series 2 modules
In Outdoor Cross Connection Cabinets

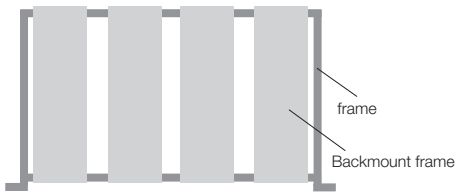
Description

For application in outdoor cabinets for the distribution of copper-based telecommunication networks, we offer either the modular solution of backmount frames and modules or cable termination blocks, which can be mounted on the frames inside the cabinets. For further information regarding modules and backmount frames see page 4 and 5.

The backmount frame of the cable head block is designed to accommodate either grease filled distribution cables or air pressured main cables with casted pressure blocking kit.

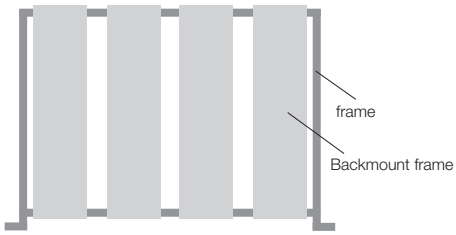
Cornes with rear cable entry holes and protective grommet. Cable strength relieve is provided with enclosed accessories.

Type/Order text	Ref.-No.

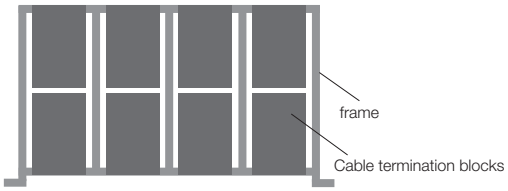


Backmount frame **79151-512 00**
for 20+1 modules R22,5
(Modules see page 4)

Type/Order text	Ref.-No.



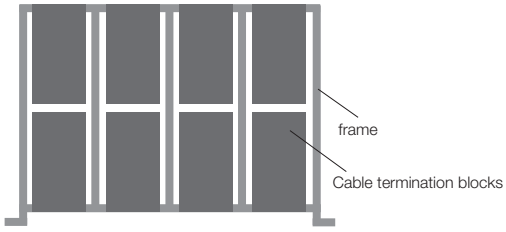
Backmount frame **79151-513 00**
for 30+1 modules R22,5
(Modules see page 4)



Suitable blocks (max. 200 pairs per bay)

Connection block	50 pairs	**10-550-00140**
Disconnection block	50 pairs	**15-450-00140**
Connection block	100 pairs	**10-600-00140**
Disconnection block	100 pairs	**15-500-00140**

(Blocks see page 6)



Suitable blocks (max. 300 pairs per bay)

Connection block	50 pairs	**10-550-00140**
Disconnection block	50 pairs	**15-450-00140**
Connection block	100 pairs	**10-600-00140**
Disconnection block	100 pairs	**15-500-00140**

(Blocks see page 6)

Size of backmount frame depends on size of the cross connection cabinet.

3M™ Durable Distribution Box DDB

Description

The distribution and branch box for copper cable based networks is designed to accommodate Quante™ SID™ -CT or QSA modules. The box is prepared for surge protection. Locking system is optional available.

- Housing with hinged cover (DDB 200 with door)
- Opening of the covers approx. 110° (DDB200 180°)
- Prepared for mounting on wall or pole (wood, metal or concrete)
- No additional pole mounting kit necessary
- Protection class IP 54 / IP 64 with sealing
- Cable sheath grounding clamp

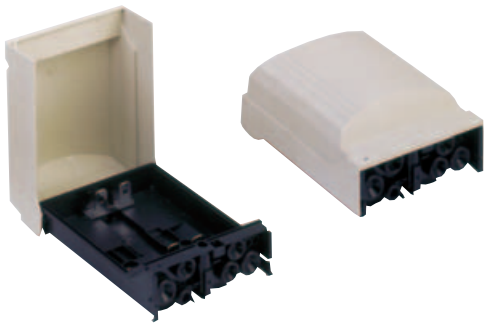
Material

Housing: PC/ABS, UV resistant, UL94 V-0
Cover: glass-fibre reinforced polyester colour RAL 7032
Grommets: polyethylene, UV resistant
Back mount frame: stainless steel
Screws: stainless steel
Cable sheath grounding clamp: steel tin plated

Delivery content

DDB Box with back mount frame for SID™ -CT / QSA modules, with Cable sheath grounding clamp

Type/Order text	Ref.-No.

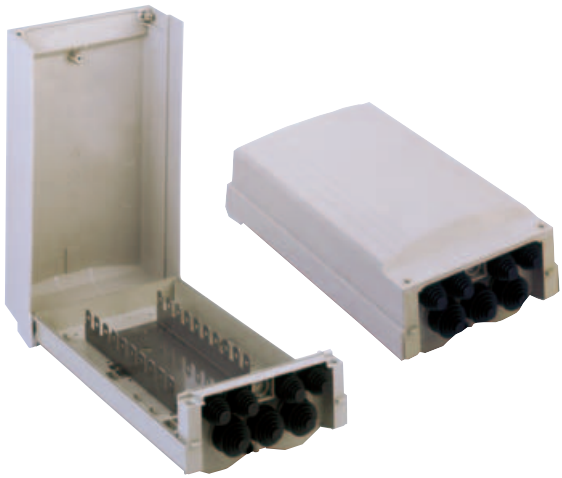


DDB 20
for max. 2 modules
(Modules see page 4)

25-020-01200

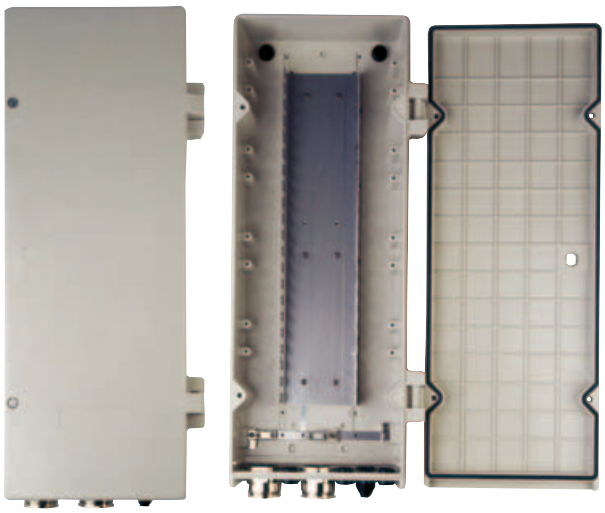
DDB 50
for max. 5 modules
(Modules see page 4)

25-050-01200



DDB 100
for max. 10 modules
(Modules see page 4)

25-100-01200



DDB 200
for max. 20 modules
(Modules see page 4)

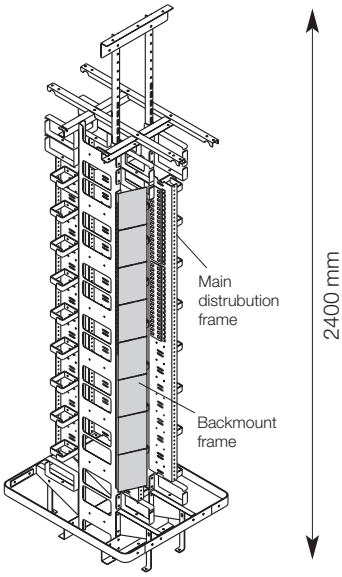
25-200-01200

3M™ Quante™ Main Distribution Frame ID Multi
3M™ Wall Mounting Frame QVG

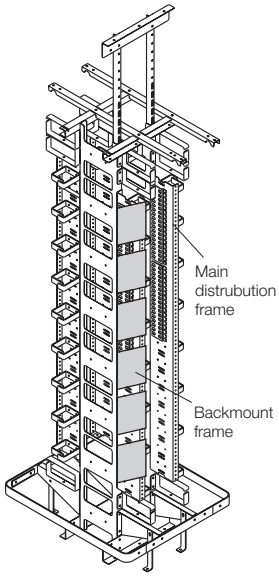
Description

Quante™ Main Distribution Frame ID Multi
The Quante™ ID Multi Frame is a vertical frame for medium to large capacity. The frame as standard accommodates SID™, QSA and ID 3000™ line/ exchange side blocks. Two kinds of frames are available, a basic frame and an extension frame. Both frames have two verticals with a pitch of 225 mm for fixing the different backmount frames. Available heights of the ID Multi frames are 2400 mm and 2800 mm.

Wall Mounting Frame QVG
The 3M distribution frame QVG is of use wherever a number of telecommunication components have to be clearly and practically mounted and connected in back mount frame, block, profile and DIN designs.

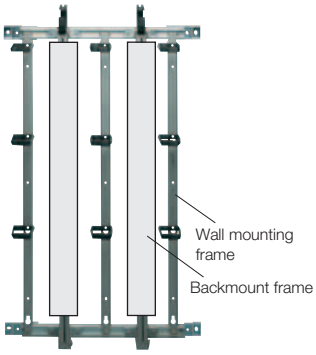


Backmount frame
for 10 modules Pitch 22,5 mm
Ref.-No. 79148-564 00

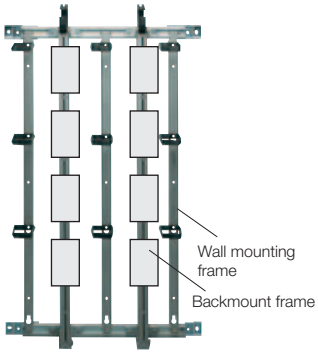


Backmount frame
for 10 modules Pitch 27,5 mm
Ref.-No. 79148-565 00

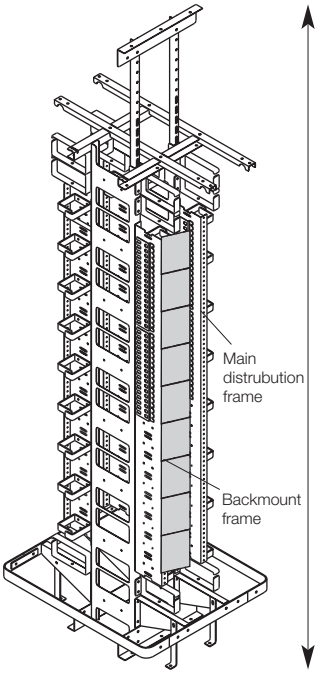
QVG 1000
this Frame is also used in QWG 600



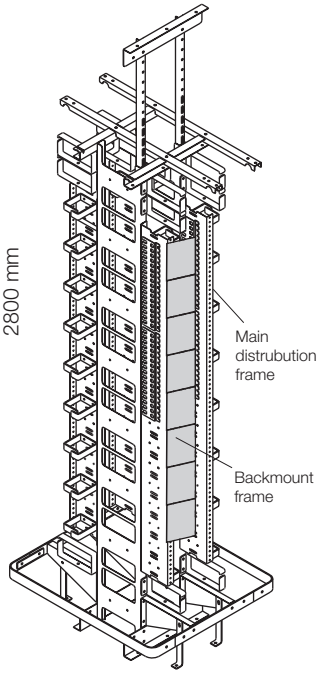
Backmount frame
for 30 modules Pitch 27,5 mm
Ref.-No. 79151-513 25



Backmount frame
for 10 modules Pitch 22,5 mm
Ref.-No. 79151-564 25

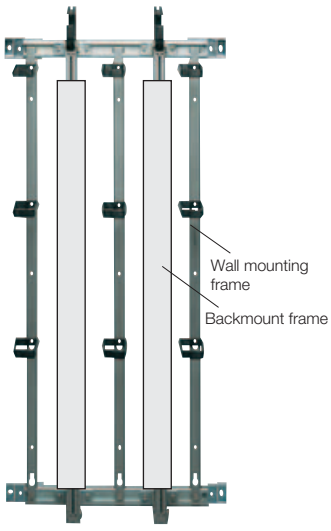


Backmount frame
for 10 modules Pitch 22,5 mm
Ref.-No. 79148-564 00

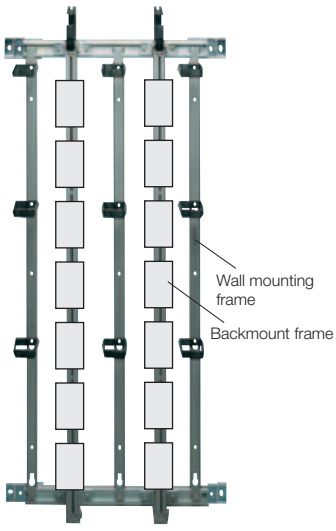


Backmount frame
for 10 modules Pitch 27,5 mm
Ref.-No. 79148-565 00

QVG 1600



Backmount frame
for 50 modules Pitch 27,5 mm
Ref.-No. 79151-550 00



Backmount frame
for 10 modules Pitch 22,5 mm
Ref.-No. 79151-564 25

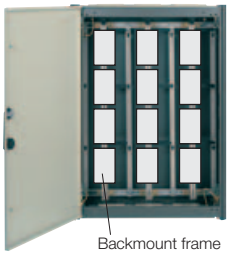
3M™ Indoor Wall Mounted Cabinet QWG
3M™ Indoor Distribution Box VKA

Description

Wall Mounted Distribution Cabinet QWG 800
QWG 800 is a wall mounted distribution cabinet with a QVG frame for installation of telecommunication components in backmount, block, profile and DIN design. This cabinet is intended for installation in dry rooms. Protection class IP 30 is standard and IP 54 as an retrofit option.

Type/Order text	Ref.-No.
QWG 800	**41-108-01000**

Backmount frame for 30 modules Pitch 27,5 mm	**79151-550 00**



Backmount frame for 10 modules Pitch 22,5 mm	**79151-564 25**

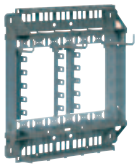
QWG 150

QWG 150 **Indoor distribution housing** for max. 72 modules (see page 4)	**41-105-01100**

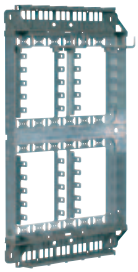
Indoor Distribution Box VKA
The VKA system (depending on the housing size) accommodates a maximum of 60 to 400 pairs capacity.
The distinguishing feature of this generation of distribution boxes is the rotating baseplate - "FlexiBase".
FlexiBase enables to mount QSA Series 1 strips on one side while alternatively QSA Series 2 strips can be mounted on the opposite side.

Type/Order text	Ref.-No.

VKA 2 for max. 6 modules Series 2 (see page 4)	**52-301-00025**



VKA 4 for max. 10 modules Series 2 (see page 4)	**52-301-00100**



VKA 8 for max. 20 modules Series 2 (see page 4)	**52-301-00200**

VKA 12 for max. 40 modules Series 2 (see page 4)	**52-301-00300**

important Notice

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