3M Telecommunications
Solutions for Networks

3M *Innovation*

Solutions for Enterprise Networks

3M *Innovation*

Copper Interconnect Solutions

Our Copper Interconnect Solutions include an extensive line of insulation displacement connector (IDC) products for voice and data applications and a comprehensive portfolio of complimentary accessories including mounting frames, distribution boxes and installation tooling.

All the products in the Copper Interconnect Solutions range have gained industry acceptance and recognition for consistent performance and ease of termination.

3

Cross Connection Blocks
Overview

Protection solutions for main distribution frames

Connection technology	replaceable components	number of pairs	static breakdown voltage	dynamic breakdown voltage @1kV/µs	nominal operating current @ 20°C	impulse discharge current @ 8/20µs
SID						
overvoltage protection magazine (3-poles)						
– 230 V - 5 kA	yes	8 or 10	230 V	< 650 V	< 5 A	5 kA
– 230 V - 10 kA	yes	8 or 10	230 V	< 450 V	< 5 A	10 kA
overvoltage single pair protection plug (3 poles)	no	1	230 V	< 600 V	< 120 mA	5 kA
overvoltage and current						
single pair protection plug (5 poles)	no	1	230 V	< 600 V	< 120 mA	5 kA
overvoltage and over current single pair						
protection with solid state (ultra fast 5 poles)	no	1	180 V	< 320 V	< 120 mA	5 kA
STG						
overvoltage protection magazines						
– 250 V	yes	8 or 10	250 V	< 800 V	< 5 A	5 kA
– 350 V	yes	8 or 10	350 V	< 800 V	< 5 A	5 kA
overvoltage single pair protection plug	no	1	230 V	< 800 V	< 5 A	5 kA
overvoltage and current						
single pair protection plug	no	1	230 V	< 800 V	< 120 mA	5 kA
fast overvoltage and current						
single pair protection plug (varistor)	no	1	230 V	< 400 V	< 120 mA	5 kA
ultra fast overvoltage and current						
single pair protection plug (diodes)	no	1	230 V	230V	< 120 mA	5 kA

operating temperatures	AC discharge @ 50 Hz	insulation resistance	fail safe response time @ 5A	line resistance per wire	cross capacitance	
						SID
						overvoltage protection magazine (3-poles)
	< 5 A	> 50 000 MΩ	< 10 s	< 100 mΩ	< 2 pF	– 230 V - 5 kA
	< 5 A	> 50 000 MΩ	< 10 s	< 100 mΩ	< 2 pF	– 230 V - 10 kA
	< 5 A	> 50 000 MΩ	< 10 s	< 100 mΩ	< 2 pF	**overvoltage single pair protection plug (3 poles)**
						overvoltage and current
	< 5 A	> 50 000 MΩ	< 10 s	< 12 Ω	< 2 pF	**single pair protection plug (5 poles)**
-25°C						**solid state voltage and current**
to	< 5 A	> 100 MΩ	< 10 s	< 12 Ω	< 50 pF	**protection plug (ultra fast 5 poles)**
+60°C						**STG**
						overvoltage protection magazines
	< 5 A	> 10 000 MΩ	< 10 s	< 100 mΩ	< 2 pF	– 250 V
	< 5 A	> 10 000 MΩ	< 10 s	< 100 mΩ	< 2 pF	– 320 V
	< 5 A	> 1000 MΩ	< 10 s	< 100 mΩ	< 2 pF	**overvoltage single pair protection plug**
						overvoltage and current
	< 5 A	> 1000 MΩ	< 10 s	< 15 Ω	< 2 pF	**single pair protection plug**
						fast overvoltage and current
	< 5 A	> 1000 MΩ	< 10 s	< 15 Ω	< 2 pF	**single pair protection plug (varistor)**
						ultra fast overvoltage and current
	< 5 A	> 1000 MΩ	< 10 s	< 15 Ω	< 2 pF	**single pair protection plug (diodes)**

Overview

Description

Connection Modules

SID-C	SID-CT	SID-C 8abs	STG U	STG C	STG O	RCP 2000	
							General Product features
8 / 10 pairs	8 / 10 pairs	8 triples	8 / 10 pairs	8 / 10 pairs	8 / 10 pairs	8 pairs	capacity
112 x 17.3 x 37 mm	124 x 17.3 x 37 mm	118 x 17.3 / 22.3 x 45 mm	126 / 146 x 16 x 50 mm	126 / 146 x 16 x 50 mm	126 / 146 x 16 x 50 mm	125 x 16 x 67 mm	dimensions (width x height x depth)
no	no	yes	optional on 8 pairs	optional on 8 pairs	optional on 8 pairs	yes	wire guide channels
17.5mm	17.5mm	17.5mm	16.5mm	16.5mm	16.5mm	16.0mm	pitch
connection, disconnection (NO, NC)	connection, disconnection (NO, NC)	disconnection	disconnection (NC)	connection	disconnection (NO)	disconnection	type of circuit
no	no	no	no	no	no	no	fault monitoring system (2)
SID-C backmount frame / Flexirail	LSA+ / SID-C backmount frame / Flexirail	SID-C backmount frame / Flexirail	LSA+ / E8 or E10 backmount frame	LSA+ / E8 or E10 backmount frame	LSA+ / E8 or E10 backmount frame	E8 or E10 backmount frame	mounting solution
							Connection features
							conductor range (solid copper)
0.40 - 0.8 mm	0.40 - 0.8 mm	0.40 - 0.8 mm	0.4 - 0.8 mm	0.4 - 0.8 mm	0.4 - 0.8 mm	0.4 - 0.8 mm	-> cable side
0.32 - 0.8 mm	0.32 - 0.8 mm	0.32 - 0.8 mm	0.4 - 0.8 mm	0.4 - 0.8 mm	0.4 - 0.8 mm	0.4 - 0.8 mm	-> jumper side
1.6 mm max.	1.6 mm max.	1.6 mm max	1.5 mm max	1.5 mm max	1.5 mm max	1.5 mm max	overall insulation sheath diameter
on request	on request	on request	7x 0.1mm optional	7x 0.1mm optional	7x 0.1mm optional	7x 0.1mm optional	stranded wire termination facility
> 100	> 100	> 100	> 100	> 100	> 100	> 100	number of reterminations with 0.6 mm
standard/impact tool	standard/impact tool	standard/impact tool	SOR OC tool (scissor action)	SOR OC tool (scissor action)	SOR OC tool (scissor action)	SOR OC tool (scissor action)	insertion tool
switching adapter	switching adapter	switching adapter	no (b)	no (b)	no (b)	no (b)	T-connection facility
> 1000	> 1000	> 1000	> 1000	> 1000	> 1000	> 1000	number of insertions (insertion of protection plugs)
							Electrical features
< 1mΩ	< 1mΩ	< 1mΩ	< 1mΩ	< 1mΩ	< 1mΩ	< 1mΩ	contact resistance
< 10mΩ	< 10mΩ	< 10mΩ	< 25mΩ	< 25mΩ	< 25mΩ	< 20mΩ	leading through resistance
> 50 000 MΩ	> 50 000 MΩ	> 50 000 MΩ	> 10 000MΩ	> 10 000MΩ	> 10 000MΩ	> 10 000MΩ	insulation resistance @ 500 V
2 kV RMS	2 kV RMS	2 kV RMS	4,5 kV RMS	4,5 kV RMS	4,5 kV RMS	4,5 kV RMS	dielectric strength @ 50 Hz
10 kA	10 kA	10 kA	> 10 kA	> 10 kA	> 10 kA	> 10 kA	impulse discharge current @ 8/20µs
> 70%	> 70%	>70%	> 70%	> 70%	> 70%	> 70%	axial retention force
> 70%	> 30%	>70%	> 40%	> 40%	> 40%	> 40%	transversal retention force
< 0.01 dB	< 0,01dB	<0,01dB	< 0,1 dB	< 0,1 dB	< 0,1dB	< 0,1dB	attenuation @ 20 MHz
> 51 dB	> 51 dB	> 60 dB @ 100MHz	> 100 dB	> 100 dB	> 100dB	> 100dB	cross talk @ 20 MHz
cat. 3	cat. 3	cat. 5e	cat. 5	cat. 5	cat. 5	cat. 5e	transmission performance
							Design features
CuZn23Al3Co	CuZn23Al3Co	CuZn23Al3Co	CuSn9P	CuSn9P	CuSn9P	CuSn9P	contact material
silver 5 µm	silver 5 µm	silver 5 µm	tin/lead > 5 µm	tin/lead > 5 µm	tin/lead > 5 µm	tin/lead > 5 µm	contact surface coating
PBT	PBT	PBT	pc	pc	pc	pc	plastic parts
UL 94 V0	UL 94 V0	UL 94 V0	UL 94 V0	UL 94 V0	UL 94 V0	UL 94 V0	self-extinguishing plastic material class
light grey	light grey	light grey	light grey casing/ light grey base	white casing/ light grey base	light blue casing/ light grey base	Various	colour

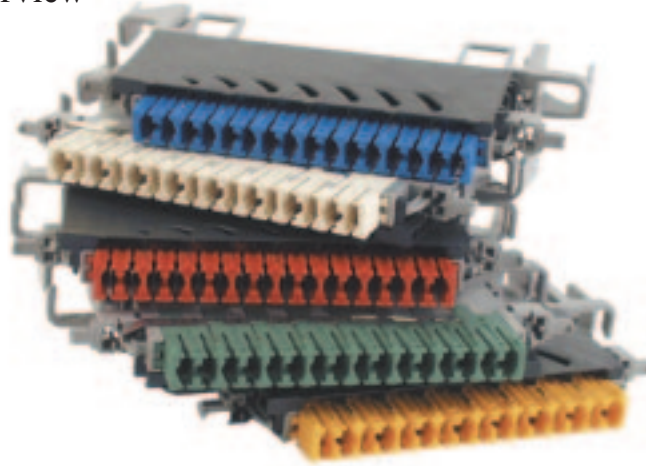Notes: (1) NC= Normally closed
NO= Normally opened

(2) Fault Monitoring System

LSA-PLUS is registred by the Krone Company.

3.1 Cross Connection Blocks
3.1.1 Quante™ RCP Category 6 Cross Connects
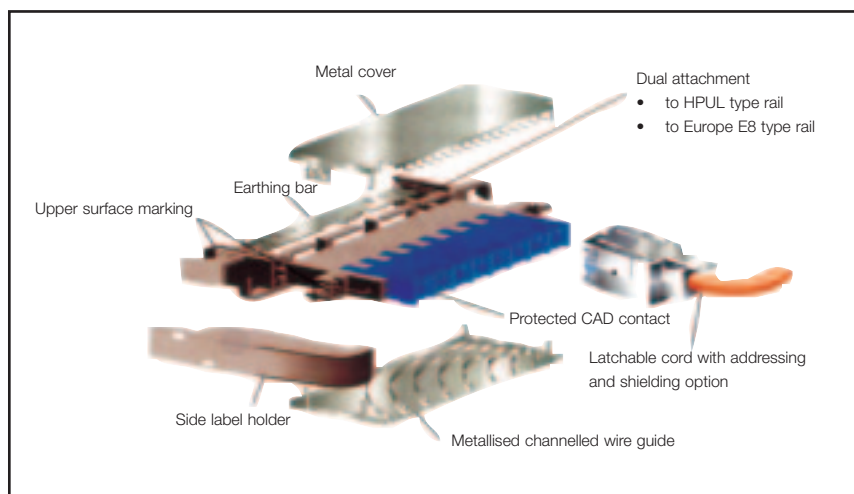
Quante™ RCP - Overview

3M offers a complete punch down system for voice and data cross-connect applications. The new RCP Category 6 is the "next generation" of cross-connect and the latest 3M innovation in a broad line of solutions for high speed data networks. The RCP cross-connect system uses a simple modular approach with a few basic components such as 8-pair cross-connect modules, back-mount frames and management accessories.

The new cross-connect RCP Category 6 offers an outstanding connecting block performance. Its NEXT performance has in general about 5dB headroom when used in a Category 6 permanent link. The RCP Category 6 can be used as cross-connect in a standard phone system today, and will support future digital voice over IP'(VoIP) connecting block in the telecommunications industry.

Highlights:

- Innovative design- embedded IDC contacts, individual pairs are isolated via a unique shielded crosstalk-barrier technology

- Easy installation

- Standard cross-connect Back-mount Frames, footprint, labelling

- Shielded version for EMI/RFI immunity

- 360° screen contact on an earthing bar

- Performance exceeds Category 6 component requirements even when jumpers are used

- Category 6 disconnection modules for termination of two 4-pair cables

Metal cover

Dual attachment
- to HPUL type rail
- to Europe E8 type rail

Earthing bar

Upper surface marking

Protected CAD contact

Latchable cord with addressing and shielding option

Side label holder

Metallised channelled wire guide

3.1   Cross Connection Blocks

3.1.1 Quante™ RCP
Category 6 Cross Connects

| Type/Order text	Ref.-No.

Quante™ RCP Category 6 – Cabling Modules
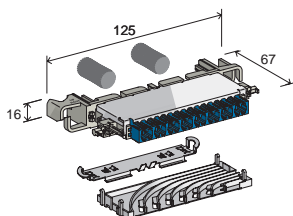
Shielded rear-cable modules
with metal cover Protects against conducted and radiated electro-magnetic interference. Single-wire and multi-wire cables can be connected to either the upper or lower contacts. Equipped with a bonding comb, bonding strip, a channelled wire guide (with the lower half metallised) and a metal cover on the upper half. Requires shielded cords. 8 pair disconnection module

Blue	P45920DH
Yellow	P45840DH
Green	P45839DH
Red	P45809DH
Ivory	P45734DH
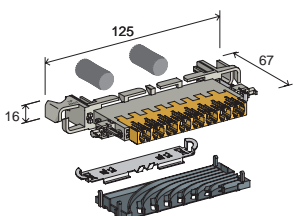
Cabling modules for solid wires (rear cabling)
Disconnection module, category 6, 8P, FTP. Equipped with spring, earthing strip and 1 wire guide channel

Blue	P46920DF
Yellow	P46840DF
Green	P46839DF
Red	P46809DF
Ivory	P46734DF
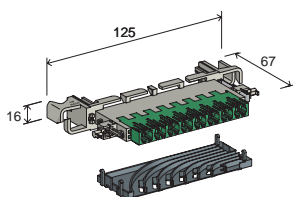
Cabling modules for solid wires (side cabling)
Disconnection module, category 6, 8P, UTP. Equipped with 2 wire guide channels

Blue, with spring and 2 wire guide channels	P46920CE
Yellow	P46840CE
Green, with spring and 2 wire guide channels	P46839QE
Red	P46809CE
Ivory	P46734CE
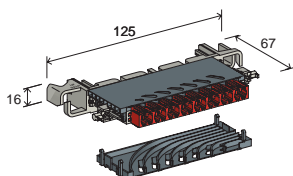
Cabling modules for multi-stranded wires (rear cabling)
Disconnection module, category 6, 8P, UTP. Equipped with spring and 1 wire guide channel

Blue	P46920DA
Yellow	P46840DA
Green	P46839DA
Red	P46809DA
Ivory	P46734DA

3.1　Cross Connection Blocks
3.1.1　Quante™ RCP 2000

Description

Quante™ RCP - Technical Modules

Essential compliments for the RCP 2000 connection modules, the technical module range permits the protection of equipment lines, Ethernet or Token Ring computer networks, additional functions for PABX's and also to provide connection interfaces with the active elements in the network.

Highlights:

- Series protection limiting transient voltage surges

- Double deck protection with 3-pole surge arrestor and transyl or varistor

- Earthing through the rail

- Maintains constant voltage at equipment terminals

- Nominal current of 300mA

- Fuses reset automatically

- 2 step modules

Type/Order text | Ref.-No.
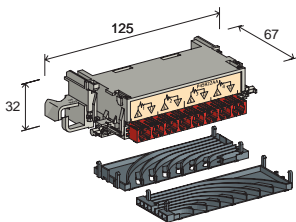
Telephone and special links protection module   **P45922AA**

For telephony applications (4pair). Working Voltage (V): 48/90 AC/DC. Bandwidth: 5MHz. Ability to handle (8/20 µs spike): 10 shocks 5kA. Limiting voltage in common mode:

- 0.5/700 µs spike 6kV: 200V

- 8/20 µs spike 5kA: 250V
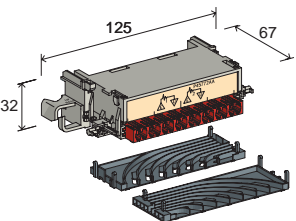
**Computer protection module**   **P45722AA**

For Ethernet, Token Ring 4 and 16 Mb/s application. Working Voltage (V): 12 AC. Bandwidth: 20MHz. Ability to handle (8/20 µs spike): 10 shocks 5kA. Limiting voltage in common mode:

- 0.5/700 µs spike 6kV: 18V

- 8/20 µs spike 5kA: 270V
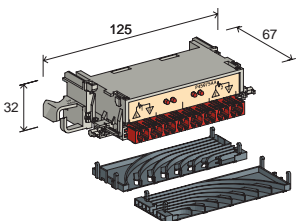
Bipole module, protection and viewing 2 pairs (lines)   **P45975AA**

All 3 functions available for 2 lines. Mounts directly on network lines. Meets TCI requirements. Working Voltage (V): 48/90 AC/DC. Bandwidth: 5MHz. Ability to handle (8/20 µs spike): 10 shocks 5kA. Limiting voltage in common mode:

- 0.5/700 µs spike 6kV: 200V

- 8/20 µs spike 5kA: 250V

3.1.1 Quante™ RCP 2000

Type/Order text	Ref.-No.

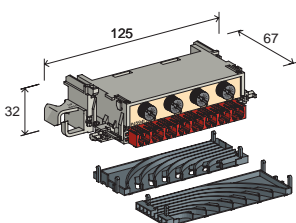## Quante™ RCP - Technical Modules
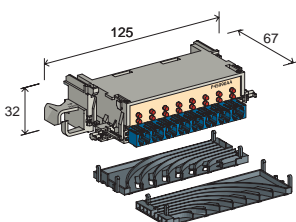
Viewing / call / occupation module   **P45990AA**

Connected to one of the wires of the network line. No. polarity indication. 2 LED's per line: call and occupation. Low power consumption.
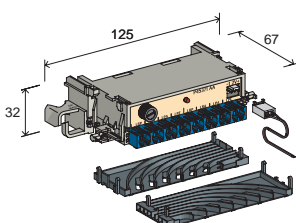Disconnection IDC
Colour: Blue

Module for 4 fuses   **P45941AA**

Accomadates cylindrical fuses 5 x 20mm 100mA fuses supplied.
pair / pair protection against overcurrents.
Disconnection IDC
Colour: Red

Line re-routing module
Re-routes 2 units directly to telephone network in case of PABX power failure. Equipped with 4 RT relays that permit the use of any telephone in the system.
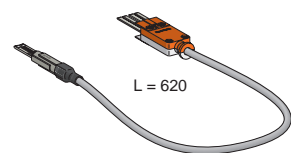Disconnection IDC
Colour: Blue

12V version	**P45371AA**
48V version	**P45370AA**

1-pair cord for 2 and 4 wire ELS   **P44927AA**

L = 620

Copper Interconnect Solutions

3

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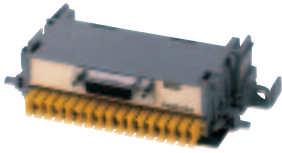# 3.1 Cross Connection Blocks
3.1.1 Quante™ RCP 2000

Quante™ RCP - Technical Modules

SUB D

Interface ID connector, patching with plug or cord/connector
Supplied with 10 contacts crimped to wires Disconnect IDC,
colour yellow

9-pin Sub D male	**P45632AA**
9-pin Sub D pins female	**P45633AA**
15-pin Sub D male	**P45630AA**
15-pin Sub D pins female	**P45631AA**
25-pin Sub D male	**P45628AA**
25-pin Sub D pins female	**P45629AA**
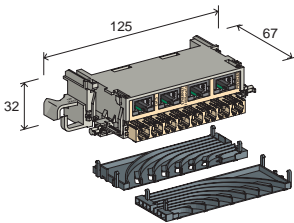
9-pin modular jack connector ISO 8877

With automatic shielding continuity on the profile, providing an
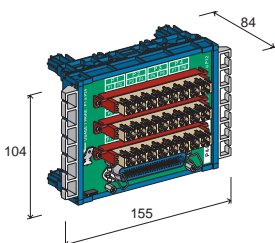interface between the active equipment that has an RJ45 and the
distributor frame

4 modular jacks for Ethernet 100 Base Tx SCQ cabling, ivory	**P45362A5**
2 modular jacks RJ45 SCQ cabling, ivory	**P45368A5**
BCS 2 Cabling, yellow	**P45363AA**
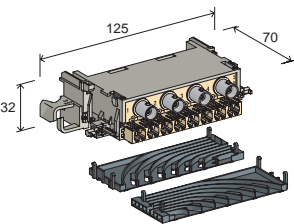
Quadruple Baluns

Permits the connection of pairs to coax RG 62 AU fo IBM Type
3278 terminals

SCQ Cabling Core in 1/Shielding in 2 ivory	**P45401AA**
BCS 2 Cabling Core in 2/Shielding in 1 yellow	**P45400AA**

50-pin, RJ-21 female connector   **P44340AA**

with automatic shielding continuity on the profile, providing an
interface between the active equipment equipped with 50-pin
connectors and the distribution frame. 12 ports available for
cabling with 2-pair cord or 24 ports with 1 pair cord. Used with
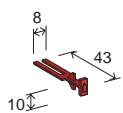50-pin cords. Cords exit from the right.

3.1   Cross Connection Blocks
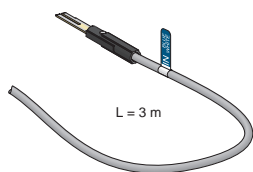# 3.1.1   Quante™ RCP 2000

Type/Order text	Ref.-No.

Quante™ RCP and RCPT - Accessories
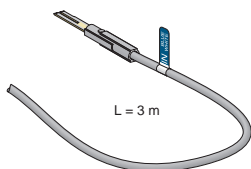
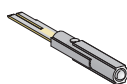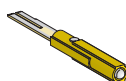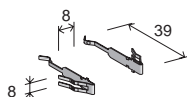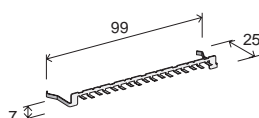|		
	Disconnection Plug 1 pair disconnection plug, colour: Red PU: 100, MOQ: 1PU	**C222909A**
	Parallel Test Plug Double sided with 2-wire cable, length 3m. Allows for setting a line in parallel without disconnection PU: 1, MOQ: 1PU	**C242613A**
	Serial Test Plug Double sided with 4-wire cable, length 3m. Allows the line to be placed in series PU: 1, MOQ: 1PU	**C242610A**
	Viewing Plug 100 Ohm in series on the line, two-coloured diode, 2V power reduction, colour: grey PU: 1, MOQ: 1PU	**C242628A**
	Viewing Plug PABX, 1 pair powered by 48V and common +, two-coloured diode, colour: yellow PU: 1, MOQ: 1PU	**C242629A**

Accessories for Earthing
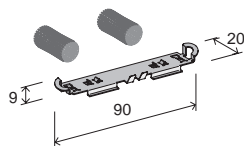
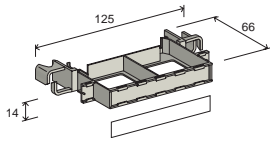|		
	Bonding Strip for unshielded modules to allow rear cabling supplied with 2 metal jackets per strip. PU: 10, MOQ: 1PU	**P44510AA**
	Bonding Springs for Drains PU: 20, MOQ: 1PU	**P44619AA**
	Bonding Comb for shielded and screened cables PU: 20, MOQ: 1PU	**P44503AB**

3.1 Cross Connection Blocks
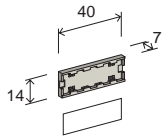## 3.1.1 Quante™ RCP 2000

Quante™ RCP and RCPT - Accessories for Labelling

Label holder 8-pair
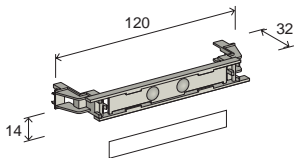Size 14mm, colour: light grey
PU: 1, MOQ: 1PU

P44223AA

Label holder 4-pair
Clips to the front of the module and covers 4-pairs
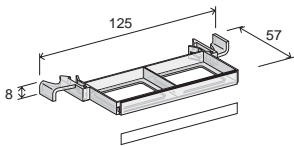Size 14mm, colour: light grey
PU: 10, MOQ: 1PU

P44505AA

Rotating label holder 8-pair
Clips on the module and prevents the attachment
of patch cables, Size 14mm, colour: light grey
PU: 10, MOQ: 1PU

P44506AA

Half-size label holder
Clipped onto the mounting profile, smaller in size and does not
obstruct the wire guide with channels on the jumpering and cable end.
PU: 1, MOQ: 1PU

P44620AA
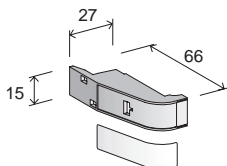
Side label holder
Clips onto either the RCP or RCPT. Protects the input of bare cables
and earth drain in cases of side cabling. Supplied complete with
adhesive labels. Cannot be mounted onto module equipped with
inverted channel wire guides. Colour: light grey
PU: 1, MOQ: 1PU

P44640AA
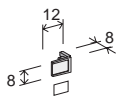
Side identification label
Clips to the side of either RCP or RCPT module
Colour: light grey
PU: 100, MOQ: 1PU

C222903A

Identification tab
Clips onto the module to identify each pair.
Prevents the use of patch cords
PU: 100, MOQ: 1PU

C222916B

Identification cap
Numbered from 0 to 9, clips on to the side of the module
PU: 100, MOQ: 1PU

C222917A

Type/Order text	Ref.-No.

Quante™ RCP and RCPT - Accessories for Labelling

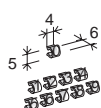|		
96, 35, 11	**Straight channel wire guide for 8-pairs** PU: 40, MOQ: 1PU	**P44902DR**
96, 35, 11	**Inverted channel wire guide for 8-pairs** PU: 40, MOQ: 1PU	**P44902IN**
96, 35, 11	**Inverted channel wire guide for 4 quarters** PU: 40, MOQ: 1PU	**P44902QT**
8, 11, 8	**1 pair blanking plug** Covers 1 pair and prevents all access to the connection Colour: Blue PU: 10, MOQ: 1PU	**P44560BE**
20, 39, 12	**2 pair bus terminal** PU: 1, MOQ: 1PU	**C222710A**
	Multi purpose connection tool Inserts and cuts wire in a single operation Permits the connection of modules in the RCP and RCPT range. Terminates Dia 0.4 to 0.8mm conductors. Extractor included. PU: 100, MOQ: 1PU	**C234030A**
125, 32, 60	**4 Way RJ-45 support** Clips onto the backmount frame (straight or curved E8 rail). Supports 4 off Giga modules PU: 1, MOQ: 1PU	**P44380AA**
	4 Way Keystone 'K' Series RJ-45 support Clips onto the backmount frame (straight or curved E8 rail). Supports 4 off 'K' Series modules PU: 1, MOQ: 1PU	**VOL-SA-F4K**
125, 47, 60	**4 Way ST and SC support** Clips onto the backmount frame (straight or curved E8 rail). Supports 4 off ST and SC connectors. Supplied with ST and SC port covers and SC coupling screws. PU: 1, MOQ: 1PU	**P44430AA**

3.1 Cross Connection Blocks
3.1.2 Quante™ STG 2000

Quante™ STG modules - Overview
Category 5 transmission performance as standard

for Quante™ backmount frames
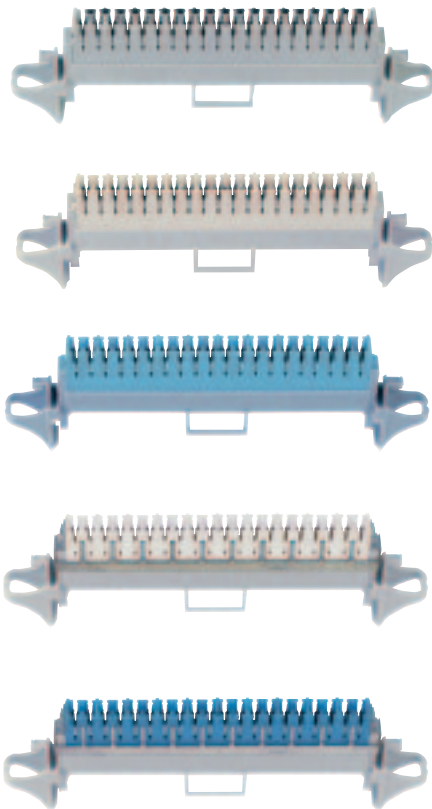
STG 2000 is the last evolution of STG range of connection modules. This module offers category 5 transmission performance as a standard. As a result this module can be used in any modern network and is fully compatible with all kind of applications (xDSL, Pair gain...). Termination is easy, cables and jumpers can be managed from the rear or from the side.

Reliability and performance Straight IDC technology offers outstanding performances:

- Multiple reterminations with all kinds of conductor gauges in the 0.4 mm to 0.8 mm range

- Improved wire retention (in all directions)

- Gas-tight connection area - corrosion proof

- Tin-lead plating on contacts prevents corrosion

- Transmission performances meet cat 5 (100 MHz)

- 2 wires can be accommodated in the same slot

- Very compact connection module

- Specific contacts for stranded wires upon request.

Application in network
- Suitable for high-density installation (2400 pair single sided cross connection cabinets, 1600 pairs on 2.6 metre vertical MDF, containerised exchanges...)

- STG 2000 modules are suitable for public telephony (MDF, cross connection cabinets, building distribution) as well as for private telephony and high data rates transmission.

for Quante™ and QSA backmount frames
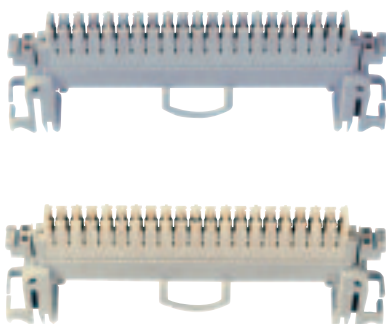
Highlights:

- Category 5 as a standard

- Very compact size (16mm pitch)

- 0.4 - 0.8mm wires

- Specific module with rear cable termination

- Multiple reterminations

- Comprehensive range of protection circuits and accessories

3.1   Cross Connection Blocks
3.1.2   Quante™ STG 2000

Technical characteristics

Quante™ STG modules - Overview

Circuit ➞	Insulation Displacement Contacts IDC		
Function and accessories ↓	Quante STG U	Quante STG C	Quante STG O
Type of contact			
Continuity (normally closed circuit)	•	•	
Normally opened circuit			•
Parallel test	•	•	•
Serial test		•	•
T-connection	(1)	(1)	(1)
Disconnection		•	
Protection magazine	• (2)	• (2)	• (2)
Single pair protection plugs		• (3)	• (3)
Multipair parallel test		•	•
Fuse protection			•
Transmission performance	Cat 5	Cat 5	Cat 5

(1) T-connection: two wires in the same slot
(2) modules with earth contacts
(3) connection modules with earth grid

Instructions to read product abbreviations (example: STG C2 10 P)

STG   : type of module
C   : type of circuit (C, U, O)
2   : IDC
10   : 10 pair (8 for 8 pair)
P   : contacts for automatic earthing (for protection magazine)
PU   : earthing grid for single pair protection plugs

Copper Interconnect Solutions

3

Type/Order text	Ref.-No.

Quante™ STG - Overview

Quante™ STG 2000 for Quante backmount frames - Overview

Colour: light grey base
Dimensions: 126 x 14 x 50 mm (8 pair)
(LxWxD)   146 x 14 x 50 mm (10 pair)

	connection modules light grey casing **STG2 U2 8** numbered 1...8 on jumper side **STG2 U2 10** numbered 1...10 on jumper side	C252806A C252824A
	disconnection modules white casing **STG2 C2 8** numbered 1...8 on jumper side **STG2 C2 10** numbered 1...10 on jumper side	C252800A C252818A
	switching modules light blue casing **STG2 O2 8** numbered 1...8 on jumper side **STG2 O2 10** numbered 1...10 on jumper side	C252812A C252830A
	connection modules with multipair protection facility light grey casing **STG2 U2 8 P** numbered 1...8 on jumper side **STG2 U2 10 P** numbered 1...10 on jumper side	C252807A C252825A
	disconnection modules with multipair protection facility white casing **STG2 C2 8 P** numbered 1...8 on jumper side **STG2 C2 10 P** numbered 1...10 on jumper side	C252801A C252819A
	switching modules with multipair protection facility light blue casing **STG2 O2 8 P** numbered 1...8 on jumper side **STG2 O2 10 P** numbered 1...10 on jumper side	C252813A C252831A
	disconnection modules with single pair protection facility white casing **STG2 C2 8 PU** numbered 1...8 on jumper side **STG2 C2 10 PU** numbered 1...10 on jumper side	C252802A C252820A
	switching modules with single pair protection facility light blue casing **STG2 O2 8 PU** numbered 1...8 on jumper side **STG2 O2 10 PU** numbered 1...10 on jumper side	C252814A C252832A

3M

Copper Interconnect Solutions

Type/Order text	Ref.-No.

Quante™ STG - Overview

Quante™ STG 2000 for Quante and QSA backmount frames

Colour: light grey base
Dimensions: 113x 15,9 x 50 mm (8 pair)
(LxWxD)   133 x 15,9 x 50 mm (10 pair)

	connection modules light grey casing **STG2 U2 K8** numbered 1...8 on jumper side **STG2 U2 K10** numbered 1...10 on jumper side	**C252809A** **C252827A**
	disconnection modules white casing **STG2 C2 K8** numbered 1...8 on jumper side **STG2 C2 K10** numbered 1...10 on jumper side	**C252803A** **C252821A**
	connection modules with multipair protection facility light grey casing **STG2 U2 K8 P** numbered 1...8 on jumper side **STG2 U2 K10 P** numbered 1...10 on jumper side	**C252810A** **C252828A**
	disconnection modules with multipair protection facility white casing **STG2 C2 K8 P** numbered 1...8 on jumper side **STG2 C2 K10 P** numbered 1...10 on jumper side	**C252804A** **C252822A**

3

Quante™ STG - Protection Solutions

Protection solutions for STG are comprise of multi pair protection magazines and a complete range of single pair protection plugs.

Protection magazine
Front facing magazines suitable for all IDC STG connection modules, with the relevant protection facilities. Automatic earthing through the backmount frame - 5 kA drain current capacity. Magazine with earth cord for upgrading standard connection modules or blocks with protection.

Single pair protection plugs
This range of single pair protection modules is designed to increase flexibility in network management (protection can be removed separately only on faulty lines).

Wide range of protection circuits is available, from standard overvoltage protection, to overvoltage and current protection, up to fast 5 pole protection. A disconnection access on the protection plugs allows using all STG disconnection and test accessories without removing protection.

1 circuit = 1 colour

Single pair protection modules are suitable for the standard 16 mm pitch.
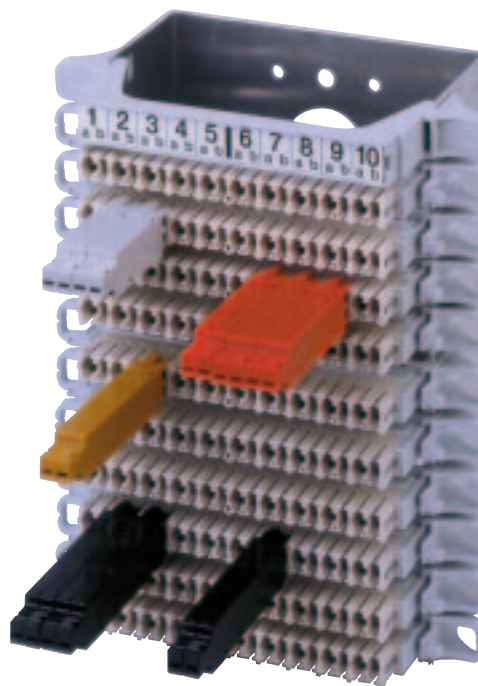
Highlights:

• Comprehensive range of protection

• Fast 5 pole protection

• Compact design

• Automatic earthing

Copper Interconnect Solutions

Type/Order text	Ref.-No.

Quante™ STG protection for overvoltage solutions

Magazine for STG with protection facility	
without arresters	
8 pair magazine	**C233725B**
10 pair magazine	**C233726B**
with 250 V arrester with fail-safe	
8 pair magazine	**C233736B**
10 pair magazine	**C233740B**
with 350 V arrester with fail-safe	
8 pair magazine	**C233737B**
10 pair magazine	**C233741B**

Magazines with 0.75 m earthing cord	
(for standard STG without protection facility)	
without arresters	
8 pair magazine	**C233727C**
10 pair magazine	**C233728B**
with 250 V arrester with fail-safe	
8 pair magazine	**C233744B**
10 pair magazine	**C233748B**
with 350 V arrester with fail-safe	
8 pair magazine	**C233745B**
10 pair magazine	**C233749B**

Surge arresters for protection magazine and tool
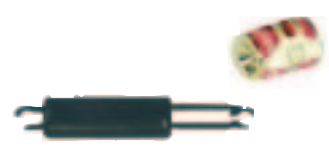
3-pole arrester with fail-safe	
250 V	**C231039A**
350 V	**C231040A**
Combined insertion/extraction tool	
for protection magazine	**C222053A**

Single pair protection plugs
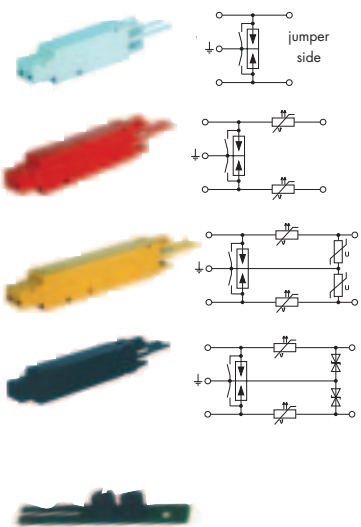
SOR PU 1C	C233796A
Single pair protection plugs for STG with earthing grid (STG PU) with test and disconnection facility Overvoltage protection 250 V (grey)	
SOR PU 2C	C233797A
Overvoltage (250 V) and current protection (PTCRs) (orange)	
SOR PU 3C (varistors)	C233798A
Fast 5 pole (varistors) overvoltage and current protection (yellow)	
SOR PU 4C (diodes)	C233799A
Fast 5 pole (diodes) overvoltage (250 V) and current protection (brown)	
Current protection - 2 fuses (1.25 A/250V)	**C222037A**

3
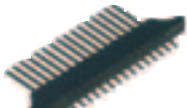
Type/Order text	Ref.-No.

Quante™ STG - Accessories

	Disconnection plugs Bag of 100 disconnection plugs (red)	C222909A
	Serial display plug/1 network line	C242628A
	PCB type test cords, 3m	
	Parallel test cord 2 wires with banana plugs	C222048B
	Serial test cord 4 wires with banana plugs	C222014B
	Serial test cord 4 wires with banana plugs, silver coated	C222020B
	Multiple parallel test plug	
	8 pair, test plug	C222058A
	10 pair, test plug	C222059A
	PCB type patch cords	
	4 wire cord, 3 m	C222024B
	2 wire cord, 3 m	C222025B
	2 wire cord, 2 m (single-sided PCB)	C242612A
	wire cord, 1 m (single-sided PCB)	C242611A
	Test cords with plugs, 1.5 m	
	Serial test plug, 4 wires 1 plug + 4 cable terminals	MPA025DB
	4 wire cord 1 plug on each end	MPA025EB
	Parallel test plug for RJ 11 connector	MPA0781A
	Label-holders Bag of 100 side label-holders	
	with blank label (space for 3 digits)	C222903A
	with marked label from 000 to 100	C222918A
	Label-holder numbered from 1 to 8 or from 1 to 10 (to be clipped onto Quante-Pouyet backmount frame)	
	Base 8 pair	C220673B
	Base 10 pair (PU: 20 elements)	C220674B
	Bag of 10 swivelling label-holders (not compatible with patch cords and wire-wrap modules)	
	Base 8 pair	C222950A
	Base 10 pair	C222951A

Copper Interconnect Solutions

Quante™ STG - Accessories

Test cords and CKD test plugs	
Parallel test cord (3m)	**M004724A**
Serial test cord (3m)	**M004723A**
Serial test plug (CKD)	**M004725A**
Parallel test plug (CKD)	**M004726A**

Bag of 100 marking caps: (black) marked from 0 to 9 (ten caps marked "0", ten caps marked "1", ten caps marked "2", etc.)	**C222916B**
Black	**C222920A**
Grey	**C222921A**
Red	**C222922A**
Yellow	**C222923A**
Blue	**C222924A**
Green	**C222925A**
Bag of 100 marking caps marked from 0 to 9 (to be clipped onto the side of the module) black digits	**C222917A**

Dust covers Compatible with all modules with or without the protection magazines	
8 pair modules or blocks Length: 2 m	**C222955A**
10 pair modules or blocks	
Length: 2 m	**C222956A**
Length: 5 x 16 ways, **i.e. 50 pair**	**C222961A**
Length: 10 x 16 ways, **i.e. 100 pair**	**C222963A**
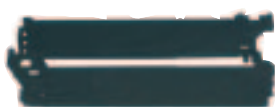
Miscellaneous Bag of 20 sets of 2 wire-guide channels for 8 pair modules (to be clipped on both sides of the modules)	**C223765A**

Impact tools for IDC To terminate and remove wires from IDC, PU: 1 unit	
For IDC system STG	**C234030A**
For IDC system STG, QSA and system 71	**C234037A**
For IDC system STG, SID, QSA and system 71	**C234049A**
Set of 10 spare blades for STG system IDC tool	**C234043A**
Termination support device	
Base 8	**MPA078BA**
Base 10	**MPA078OA**

Further information on STG 2000 see „Solutions for Access Networks" catalogue.

Quante™ SID™ – Overview

With the Quante SID product family 3M is setting the standards for high density IDC termination combined with improved handling. The main applications are in telecommunications and data networks.

The SID insulation displacement contacts are enclosed by the plastic housing of the module. This improves the insulation performance and helps in providing a safe working practice.

The SID product family is available in 8 and 10 pair connection and disconnection modules.

3M´s individual mounting systems reflects the trend towards improved handling. Backmount frames or profile rails are available as required, and also „FlexiRail" as an individual mounting system for targeted applications.

A significantly increased capacity compared to other techniques is achieved with the compact SID-C module.

A wide range of accessories and a comprehensive overvoltage protection complete the product family.

Highlights:

- High density
- One wire per slot 0.40 - 0.80 mm
- Optimised cable conductor guide
- Long-life tools
- Flexible mounting systems
- Removal without a special tool
- Comprehensive overvoltage protection system

Cable management
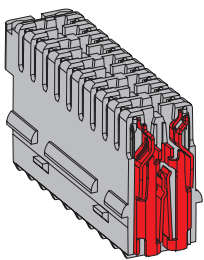
1. Sectional view of SID-C module
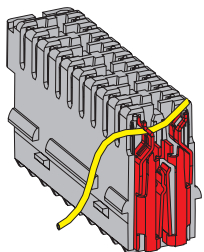
2. Push wires into connection slot. Allow enough of wire to overhang the far side of the module.
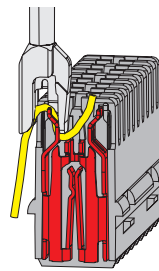
3. Locate insertion tool in a straight position on the module. The printed scissors should face the centre of the module. Push the tool firmly into the slot.

4. The clicking sound indicates that the wire is terminated and automatically cut to length in the process.

3M

Copper Interconnect Solutions

Quante™ SID™ – Overview

Quante™ SID™-C High-density system

Quante SID-C connection and disconnection modules (8 and 10 pair) for mounting on individual profile FlexiRail and backmount frame. SID-C are available in the following different types:

• Connection module 8 and 10 pair, printing black

• Disconnection module 8 and 10 pair, printing green
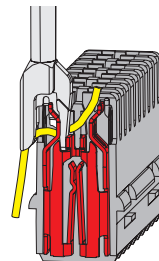
Both types can be protected with primary overvoltage protection magazines or 1 pair Single Pair Protection plugs (SPP). Earthing modules, printing red for 40 wires

Highlights:

• Compact system with a pitch of 17.5 mm

• Wire diameters from 0.4 mm to 0.8 mm

• Assembling on SID-C backmount frames and Quante™ SID™ FlexiRail profiles

• Removable by hand without tools

Further information on
SID-C see   pg. 140 - 141

Quante™ SID™-CT Compact top model for all standard backmount frames

The modified fixing system offers the possibility to use all standard backmount frames with only one type of module.
Therefore SID-C backmount frames with a pitch of 17.5mm, as well as, LSA-PLUS backmount frames with a pitch of 22.5mm are suitable for the SID-CT module. Due to the slim design of the module SID-CT offers nearly twice as much jumpering space between two modules.

SID-CT can also be used on the individual profile system - Quante™ SID™ FlexiRail. Individual movement on the profile guarantees a maximum of flexibility by optimised handling. Due to the click in system, SID-CT can be easily unclamped by hand; no tool is necessary.

Highlights:

• Fits on SID-C and LSA-PLUS backmount frames and on profile system Quante™ SID™ FlexiRail

• Pitch of 17.5 mm

• Nearly twice as much jumpering space between the modules when using LSA-PLUS backmount frame

• Simple removal by hand without tools

• Comprehensive accessories from SID-C range can be used
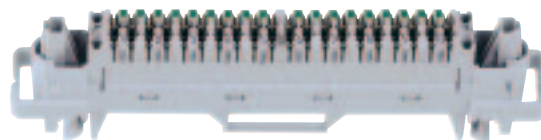
Further information on
SID-CT see   pg. 142

3

3.1 Cross Connection Blocks
3.1.3 Quante™ SID™

Quante™ SID™ – Overview

Quante™ SID™-C Switching modules

A new extension to the SID Product family is the SID-C switching module. By retaining the familiar method of working and implementation of the SID-C accessories, the switching modules offer a variety of applications.

A disconnection module is disconnected only by the use of a disconnection plug but in the switching module the contact is permanently open and has to be connected by the use of a plug. To avoid mistakes the top of the module is coloured brown (RAL 8004).

A reliable gas tight connection is achieved by controlled penetration of the isulation by the IDC element.

Highlights:

- Reliable SID Technique
- Only required lines are connected
- Various applications
- Cost-optimised protection solutions
- Retains the reliable method of working
- Preferred use in MDF's and DDF'S
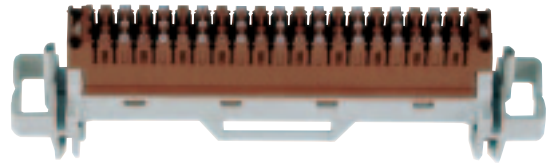
Quante™ SID™-CD Screw mounted strips with DIN mounting dimensions for small distribution boxes

SID-CD the handy screw-on solution with DIN mounting dimensions of 96 mm for 8/10 pair or 170 mm for 20 pair.

Its main application is in small to medium telecommunications and data distribution boxes.The SID-CD strips are available both as connection and disconnection modules for 8, 10 and 20 pair cables. Earthing strips for 40 and 80 wires made up with two earthing connections each, are fixed at the right and left hand side of the module. A complete range of accessories allows optimum use of the SID-CD system.

Highlights:

- One wire per slot 0.4-0.8 mm
- 8, 10 and 20 pair modules
- Also available as disconnection strips
- Supplementary earth connection

Copper Interconnect Solutions
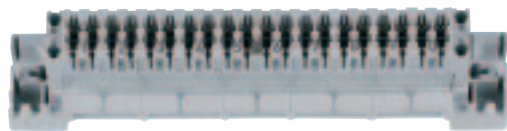
Description

Quante™ SID™ – Overview

Quante™ SID™-C 8xabs Category 5e modules

The SID disconnection module consists of 24 **I**nsulation **D**isplacement **C**ontacts (**IDC**) with disconnection facility. The contacts are arranged in abs triples in order to accommodate 8 triples of a and b wires with drain wire. The IDC contacts are designed to be used with SID approved IDC insertion tools. For fixing, several SID backmount frames are available. Special disconnection plugs allow line disconnection.

Further information on
SID-C 8xabs see   pg. 144

Highlights:

- Category 5e Transmission performance

- 8xabs contact arrangement

- Wire guide channel for cable management

- 0.4mm up to 0.8mm wire diameters

- Max. shielded jumper wires 2.7 mm (recommended Jumper wire diameters 0.5-0.6 m)
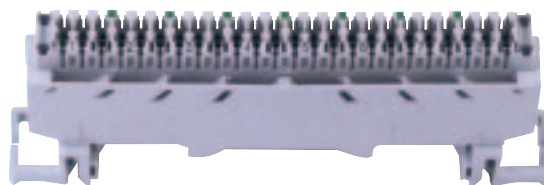
Quante™ SID™-C EXTREME

Connection technologies are increasingly required to be used under extreme climatic conditions. New technologies and applications have to be able to withstand these extreme requirements without faults. SID-C EXTREME is a system which can provide environmental protection for copper terminations.

Further information on
SID-C EXTREME see   pg. 140

Highlights:

- Application under harshest environmental conditions

- High density

- Improved reliability
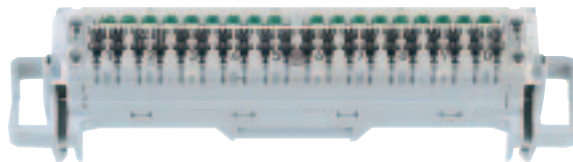
Type/Order text	Ref.-No.

Quante™ SID™-C modules

SID-C connection modules
Dimensions (LxWxD): 112 x 17.3 x 37 mm, minimum vertical pitch: 17.5 mm
Colour: grey

SID-C connection module for 8 pair
numbered 1...8
black printing
PU: 5 pcs., Weight: 0.35 kg
79101-561 00

SID-C connection module for 10 pair
numbered 1...0
black printing
PU: 5 pcs., Weight: 0.35 kg
79101-553 00

SID-C jelly filled version with dust cover for 10 pair
numbered 1...0
black printing
PU: 10 pcs., Weight: 0.70 kg
79101-553 35

SID-C disconnection modules
Dimensions (LxWxD): 112 x 17.3 x 37 mm, minimum vertical pitch: 17.5 mm
Colour: grey
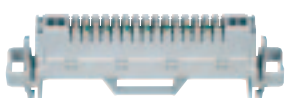
SID-C disconnection module for 8 pair
numbered 1...8
green printing
PU: 5 pcs., Weight: 0.35 kg
79103-540 00

SID-C disconnection module for 10 pair
numbered 1...0
green printing
PU: 5 pcs., Weight: 0.35 kg
79103-534 00

SID-C jelly filled version with dust cover for 10 pair
green printing
PU: 5 pcs., Weight: 0.35 kg
79103-534 35

3.1   Cross Connection Blocks
3.1.3 Quante™ SID™

Type/Order text	Ref.-No.

Quante™ SID™-C modules

SID-C earthing module
Dimensions (LxWxD): 112 x 17.3 x 37 mm, minimum vertical pitch: 17.5 mm
Colour: grey
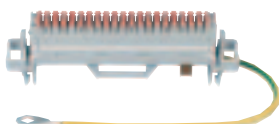
SID-C earthing module for 40 wires
red printing
PU: 10 pcs. Weight: 0.70 kg

79101-567 00

SID-C switching modules (N.O. contacts)
Dimensions (LxWxD): 112 x 17.3 x 37 mm, minimum vertical pitch: 17.5 mm
Colour: brown

SID-C switching module for 8 pair
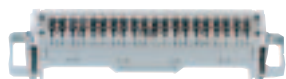numbered 1...8
white printing
PU: 5 pcs., Weight: 0.35 kg

79105-501 00

SID-C switching module for 10 pair
numbered 1...0
white printing
PU: 5 pcs., Weight: 0.35 kg

79105-500 00

3M

Copper Interconnect Solutions

3

Type/Order text	Ref.-No.

Quante™ SID™-CT modules

The SID-CT is suitable for LSA PLUS backmount frames.
Dimensions (LxWxD): 124 x 17.3 x 37 mm, minimum pitch: 17.5 mm and 22.5 mm
(for legacy networks)

SID-CT connection modules, Colour: grey

SID-CT connection module for 8 pair numbered 1...8 black printing PU: 5 pcs. Weight: 0.35 kg	**79101-588 00**
SID-CT connection module for 10 pair numbered 1...0 black printing PU: 5 pcs. Weight: 0.35 kg	**79101-589 00**

SID-CT disconnection modules, Colour: grey

SID-CT disconnection module for 8 pair numbered 1...8 green printing PU: 5 pcs. Weight: 0.35 kg	**79103-564 00**
SID-CT disconnection module for 10 pair numbered 1...0 green printing PU: 5 pcs. Weight: 0.35 kg	**79103-557 00**

SID-CT earthing module, Colour: grey
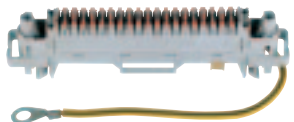
SID-CT earthing module for 40 wires red printing PU: 10 pcs. Weight: 0.70 kg	**79101-591 00**

SID-CT switching modules (N.O. contacts), Colour: brown

SID-CT switching module for 8 pair numbered 1...8 white printing PU: 5 pcs. Weight: 0.35 kg	**79105-502 00**
SID-CT switching module for 10 pair numbered 1...10 white printing PU: 5 pcs. Weight: 0.35 kg	**79105-503 00**

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Type/Order text	Ref.-No.

Quante™ SID™-CD
10 & 20-pair connection & disconnection strips

Dimensions (LxWxD) 106 x 20 x 25 mm, Colour: grey

	SID-CD connection strip for 10 pairs numbered 1...0 black printing PU: 5 pcs. Weight: 0.35 kg	**79101-559 00**
	SID-CD connection strip for 8 pairs numbered 1...8 black printing PU: 5 pcs. Weight: 0.25 kg	**79101-562 00**
	SID-CD disconnection strip for 10 pairs numbered 1...0 green printing PU: 5 pcs. Weight: 0.25 kg	**79103-538 00**
	SID-CD disconnection strip for 8 pairs numbered 1...8 green printing PU: 5 pcs. Weight: 0.25 kg	**79103-541 00**

Dimensions (LxWxD) 179 x 20 x 25 mm, Colour: grey

	SID-CD connection strip for 20 pairs numbered 1...0 black printing PU: 5 pcs., Weight: 0.43 kg	**79101-571 00**
	SID-CD disconnection strip for 20 pairs numbered 1...0 green printing PU: 5 pcs., Weight: 0.43 kg	**79103-547 00**

3

3.1 Cross Connection Blocks
3.1.3 Quante™ SID™

Type/Order text	Ref.-No.

Quante™ SID™
8xabs disconnection strips
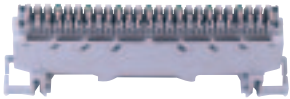
SID 8xabs Disconnection module 8xabs with 2x4 left/right
wire guide housing. Green numbers 1-8.
Pitch: 17.5 mm
PU: 5
MOQ: 1PU

79103-576 30
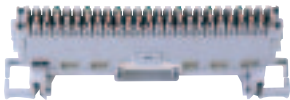
SID 8xabs disconnection module 8xabs with label holder
without wire guide housing. Green numbers 1-8.
Pitch: 17.5 mm
PU: 5
MOQ: 1PU

79103-577 30

Plug-on, wire guide housing, 2x4 left/right
Pitch: 17.5 mm
PU: 5
MOQ: 1PU

79036-500 30

Plug-on, wire guide housing, 1x8 right handed
Pitch: 22.5 mm
PU: 5
MOQ: 1PU

79036-501 30

ab Loop plug for connection of RX / TX lines
to form a test loop
PU: 4
MOQ: 1PU

79072-512 00

3.1   Cross Connection Blocks
3.1.3   Quante™ SID™

Description

Quante™ SID™ - protection for overvoltage solutions

The SID overvoltage protection magazines are designed for the 8/10 pair Quante™ SID™-C/CT/CD modules for use in telecommunications circuits. Earthing of the overvoltage protection magazine is achieved through the magazine to the backmount. The backmount must then be earthed according to the country regulations.The magazine is inserted into the test access contacts.

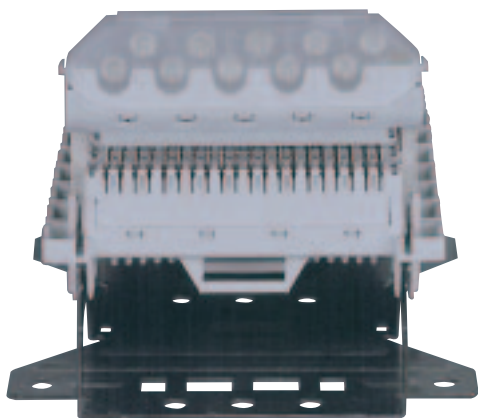The SID-SPP is designed to give protection to the equipment. Testing of the circuit and jumper re-termination can be carried out with the SID-SPP in-situ.

There are three different application specific versions of the SID-SPP, protection concept making it the ideal solution for the most varied in-house and telecom network connection demands.
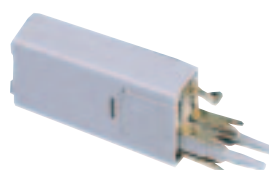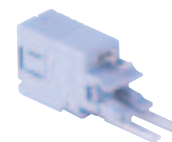
Quante™ SID™-SPP B3　　　　**Quante™ SID™-SPP B2**
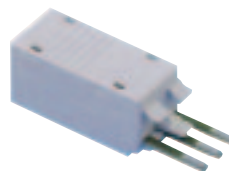
Quante™ SID™-SPP DS/R2 G

The magazine is inserted within the test access contacts of the module and uses standard surge arresters in the magazines, if necessary fail-safe devices can be incorporated (3 pole magazines only).

It is also still possible to utilise the extra environmental protection offered by dust covers with the magazines installed.

As part of the Quante™ SID™-system philosophy, Quante™ SID™-SPP makes it possible to protect individual circuits

Highlights:

- One overvoltage protection magazine for 8 or 10 pair modules

- Magazines for 3 pole surge arrester

- Surge arrester with and without fail-safe

- Single pair protection plugs (SPP)

3

Description

Quante™ SID™ - protection for overvoltage solutions

Overvoltage protection magazine, incl. cover
for 3-pole surge arrester and for insertion in 8/10 pair SID modules,
Dimensions (L x W x D): 98 x 17.3 x 31.5 mm
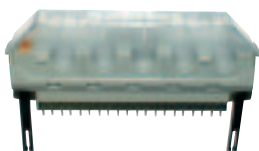
	for SID-C	**79126-510 00**
	for SID-CT	**79126-512 00**
	for SID-CD PU: 10 pcs. Weight: 0.5 kg	**79126-511 00**
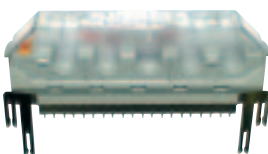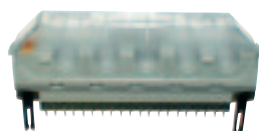
To be ordered separately:

	3-pole surge arrester without fail-safe 230 V - 5 A / 5 kA PU: 100 pcs. Weight: 0.23 kg	**39081-728 00**
	3-pole surge arrester with integrated fail-safe 230 V - 5 A / 5 kA; n (100 °C) ts ≤ 10 s PU: 100 pcs. Weight: 0.35 kg	**05-661-02600**
	3-pole surge arrester with integrated fail-safe 230 V - 10 A / 10 kA; n (100 °C) ts ≤ 10 s PU: 100 pcs. Weight: 0.35 kg	**05-661-02800**
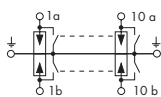
	Extraction tool for removal of overvoltage protection magazines PU: 1 pce. Weight: 0.03 kg	**79397-515 00**

3M

Copper Interconnect Solutions

Type/Order text	Ref.-No.

Quante™ SID™ - protection for overvoltage solutions
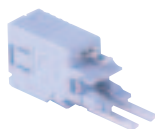
SID-SPP 230 V/G
1-pair overvoltage protection plug,
Primary protection with integrated fail-safe.
PU: 50 pcs. Weight: 0.32 kg
     79104-505 00
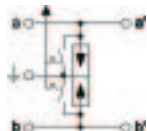
SID-SPP 230 V/GS
1-pair overvoltage and current protection plug,
with integrated fail-safe.
PU: 50 pcs. Weight: 0.32 kg
     79104-508 00
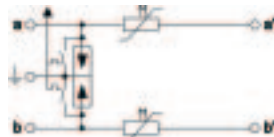
SID-SPP 185 V/GFS
1-pair ultra fast overvoltage and current protection plug.
With integrated fail-safe.
PU: 50 pcs. Weight: 0.32 kg
     79104-507 00
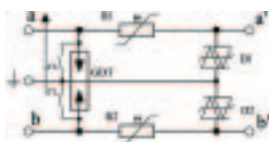
SID-SPP 230V /G
Primary Single Pair Protection for SID-C 8xabs disconnection module.
No additional earthing rail needed.
PU: 8 pcs. Weight: 0.32 kg
     79104-510 00
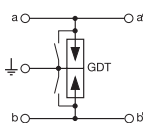
SID-SPP 230V / GSI
1pair overvoltage and current plug integrated fail-safe
with 2,5 A fuse.
     79104-511 00
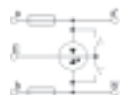
SID-SPP earthing rails
PU: 1 pce. Weight: 0.008 kg/1 for 8/10 pair

SID-C	**79114-542 00**
SID-CD	**79114-544 00**
SID-CT	**79114-557 00**

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Type/Order text	Ref.-No.

Quante™ SID™ - Accessories for testing

Test plug kit, 4-poles
with separate contacts, solderable
PU: 1 pce. Weight: 0.2 kg

79096-533 00

a   b
a'   b'
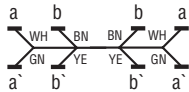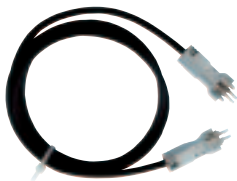
Patch cord, 4-poles
PU: 1 pce.

Length: 1 m Weight: 0.03 kg	79054-561 00
Length: 2 m Weight: 0.05 kg	79054-561 25
Length: 4 m Weight: 0.11 kg	79054-561 26

a   b   b   a
WH   BN   BN   WH
GN   YE   YE   GN
a`   b`   b`   a`

Cord flex 4-poles single ended
Length: 1.5 m
PU: 1 pce.

79054-571 00

Test cord, 2-poles
with 2 banana sockets
PU: 1 pce. Weight: 0.016 kg

79054-552 00

WH   WH   WH   a
         a'
BR   BR
YE   YE   b
BK   GN   GN   b'
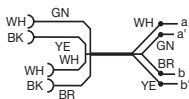
Test cord, flex, 4-poles
with 4 banana sockets
PU: 1 pce. Weight: 0.2 kg

79054-567 00

WH   GN   WH   a
BK   a'
      YE   GN
WH   WH   BR   b
BK   YE   b'
      BR

Adapter cord SID-QSA
PU: 1 pce.

79054-570 00

3M

Type/Order text	Ref.-No.

Quante™ SID™ - Accessories

	Type/Order text	Ref.-No.
	Label holder plug-in type, for 10-pair SID module PU: 1 pce. Weight: 0.005 kg	79156-516 00
	Labelling frame plug-on type for 20-pair strips PU: 1 pce. Weight: 0.010 kg	79156-517 00
	Module label holder for all SID-C backmount frames	
	with earthing socket	79156-518 00
	without earthing socket	79156-519 00
	Label holder for SID 8x3 abc module PU: 1pce	79156-521 30
	Cover for 10-pair SID module	
	green	79004-507 26
	blue	79004-507 31
	transparent	79004-507 00
	SID-standard insertion tool for connection of wires; insertion guiding, integral pulling hook Colour: red, PU: 1 pce., Weight: 0.070 kg	79397-512 00
	SID-comfort tool scissors acting PU: 1 pce., Weight: 0.070 kg	79397-519 00
	Scissor kit for Impact tool PU: 10 pcs.	79027-524 00
	Earthing Rail SID for parallel connection of wires / pair PU: 10 pcs.	79114-536 00

Copper Interconnect Solutions

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3.1 Cross Connection Blocks
3.1.3 Quante™ SID™

Type/Order text	Ref.-No.

Quante™ SID™ - Accessories

	Switching adapter for 1 pair PU: 100 pcs. Weight: 0.2 kg	**79058-502 00**
	Switching adapter for 10 pair PU: 10 pcs. Weight: 0.14 kg	**79058-503 00**
	SID-C Dust cover, PU: 1 pce.	
	Pitch: 17.5 mm, 100 pair Weight: 0.098 kg	**15014-505 00**
	Pitch: 22.5 mm, 100 pair Weight: 0.130 kg	**15014-500 00**
	SID Dust cover, flat, for 10-pair modules PU: 5 pcs.	**15004-502 00**
	Earth connector kit for the SID-CD 10/20 pair strips; right and left, PU: 1 pce. Weight: 0.007 kg	**79096-534 00**
	Earthing Plug for SID-C switching modules, PU: 50 pcs.	**79072-510 00**
	Earthing Rail, PU: 1 pce.	**79114-542 00**
	Connecting Plug for SID-C switching modules, PU: 50 pcs.	**79072-511 00**
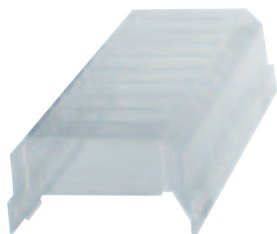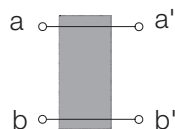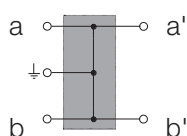
Type/Order text	Ref.-No.

Quante™ SID™ - Accessories

Disconnection plug for 1 pair, PU:100 pcs., Weight: 0.3 kg

red	79122-544 00
white	79122-544 25
brown	79122-544 30
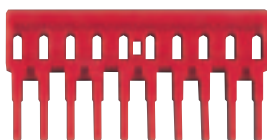
Disconnection plug for 5 pair, PU: 20 pcs., Weight: 0.06 kg

red	79122-545 00
brown	79122-545 30

Dummy plug for 1 pair, PU: 100 pcs., Weight: 0.03 kg

red	79122-543 00
green	79122-543 26
black	79122-543 29

Marking caps, PU: 100 pcs., Weight: 0.006 kg

red	79004-506 00
green	79004-506 26
black	79004-506 29

Marking strip for 10 pair, allowing testing and disconnection,
PU: 10 pcs., Weight: 0.010 kg

red	79169-510 00
green	79169-510 26
grey	79169-510 28
black	79169-510 29
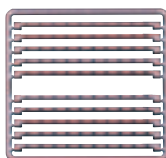
Cover strips for 10 pair, PU: 1 pce., Weight: 0.010 kg

For connection modules: 1...100 grey	79169-517 28
For disconnection modules: 1...100 green	79169-517 26

Further information on Quante™ SID™ see „Solutions for Access Networks" catalogue.

Copper Interconnect Solutions

3

3.2   Patch Cable
3.2.1 Quante™ CBE for RCP and STG

Description

Quante™ CBE Patch Cable

The CBE family is a range of patch cables for computer and video cabling systems that have a snap-on system to allow for direct connection on to both RCP 2000 and STG 2000 connection modules. They are available in both shielded and un-shielded versions.

The shielded version consists of metal shell with the braid screen in 360° contact with the metal parts providing an efficient drain to earth of all electromagnetic interference. The products are characterised by their optimised transmission performance, easy installation and identification.

For applications with data acquisition software, 2 and 4 pair cords with PVC sheaths are available in both shielded and un-shielded versions.

Highlights:

- 100 Ω, 2 and 4 pair cables consisting of 7 x 0.15mm stranded conductors

- Quick and easy installation

- Available in both shielded and un-shielded versions.

- Mixed CBE-RJ45 cords avaialble for connection to active equipment.

- Attenuation @ 100MHz - 29dB/100m

- Cross talk @ 100MHz - 35dB

Type/Order text   Ref.-No.

Quante™ Shielded cords 100 Ohms

CBE - CBE Patch Cords
Metal Shell, SFTP cable, 360° connection to cable screen
Straight cabling
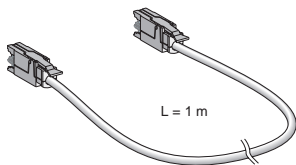
LSOH Sheath - 1 pair

Length: 0,5 m,	PU: 1,	MOQ: 10	**P39125D5**
Length: 1,0 m,	PU: 1,	MOQ: 10	**P39125A5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39135A5**
Length: 3,0 m,	PU: 1,	MOQ: 10	**P39135J5**
Length: 4,0 m,	PU: 1,	MOQ: 5	**P39135L5**
Length: 5,0 m,	PU: 1,	MOQ: 5	**P39135M5**
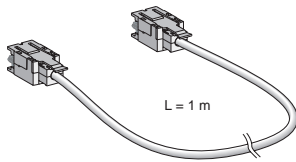
LSOH Sheath - 2 pair

Length: 0,5 m,	PU: 1,	MOQ: 10	**P39116A5**
Length: 1,0 m,	PU: 1,	MOQ: 10	**P39126A5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39136A5**
Length: 3,0 m,	PU: 1,	MOQ: 10	**P39146A5**
Length: 4,0 m,	PU: 1,	MOQ: 5	**P39146L5**
Length: 5,0 m,	PU: 1,	MOQ: 5	**P39146M5**
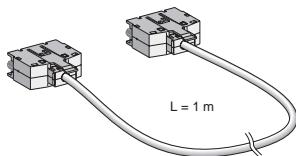
LSOH Sheath - 4 pair

Length: 0,5 m,	PU: 1,	MOQ: 10	**P39128D5**
Length: 1,0 m,	PU: 1,	MOQ: 10	**P39128A5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39138A5**
Length: 3,0 m,	PU: 1,	MOQ: 10	**P39148A5**
Length: 4,0 m,	PU: 1,	MOQ: 5	**P39148L5**
Length: 5,0 m,	PU: 1,	MOQ: 5	**P39148M5**

3.2.1   Quante™ CBE for RCP and STG

Type/Order text	Ref.-No.

Quante™ Shielded cords 100 Ohms

CBE - CBE Patch Cords
Metal Shell, SFTP cable, 360° connection to cable screen
Straight cabling

L = 1 m
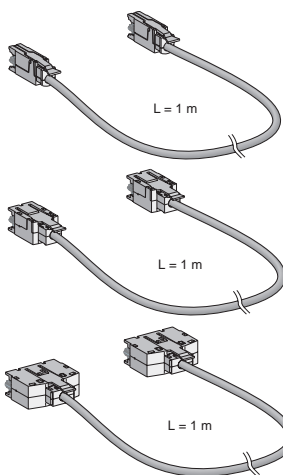
PVC Sheath - 1 pair				
Length: 0,5 m,	PU: 1,	MOQ: 10		**P39801A5**
Length: 1,0 m,	PU: 1,	MOQ: 10		**P39802A5**

PVC Sheath - 2 pair				
Length: 0,5 m,	PU: 1,	MOQ: 10		**P39803A5**
Length: 1,0 m,	PU: 1,	MOQ: 10		**P39804A5**
Length: 2,0 m,	PU: 1,	MOQ: 10		**P39805A5**
Length: 3,0 m,	PU: 1,	MOQ: 10		**P39809A5**

L = 1 m

PVC Sheath - 4 pair				
Length: 1,0 m,	PU: 1,	MOQ: 10		**P39806A5**
Length: 2,0 m,	PU: 1,	MOQ: 10		**P39807A5**
Length: 3,0 m,	PU: 1,	MOQ: 10		**P39808A5**

L = 1 m

CBE - RJ45 Patch Cords
Metal Shell, SFTP cable, 360° connection to cable screen

L = 1 m

CBE	RJ45
1	7
2	8
masse	masse
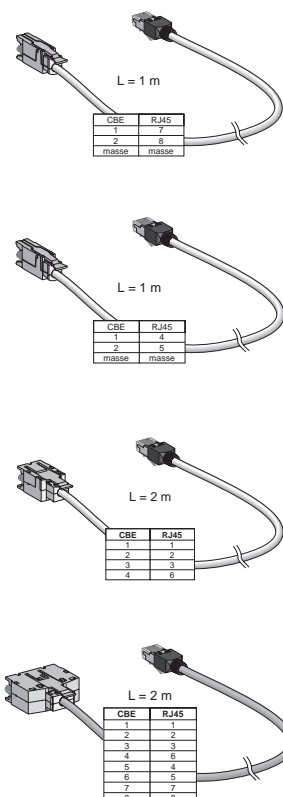
LSOH Sheath - 7 - 8 cabling - 1 pair				
Length: 1,0 m,	PU: 1,	MOQ: 10		**P39378F5**
Length: 2,0 m,	PU: 1,	MOQ: 10		**P39378A5**

L = 1 m

CBE	RJ45
1	4
2	5
masse	masse

LSOH Sheath - 4 - 5 cabling - 1 pair				
Length: 1,0 m,	PU: 1,	MOQ: 10		**P39380F5**
Length: 2,0 m,	PU: 1,	MOQ: 10		**P39380A5**

LSOH Sheath - 568A cabling - 2 pair				
Length: 2,0 m,	PU: 1,	MOQ: 10		**P39366A5**

L = 2 m

CBE	RJ45
1	1
2	2
3	3
4	6

LSOH Sheath - 568A cabling - 4 pair				
Length: 2,0 m,	PU: 1,	MOQ: 10		**P39368A5**

PVC Sheath - 568A cabling - 2 pair				
Length: 2,0 m,	PU: 1,	MOQ: 10		**P39821A5**
Length: 3,0 m,	PU: 1,	MOQ: 10		**P39822A5**

L = 2 m

CBE	RJ45
1	1
2	2
3	3
4	6
5	4
6	5
7	7
8	8

LSOH Sheath - 568A cabling - 4 pair				
Length: 2,0 m,	PU: 1,	MOQ: 10		**P39823A5**

Copper Interconnect Solutions

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3.2   Patch Cable
3.2.1 Quante™ CBE for RCP and STG

Type/Order text	Ref.-No.

Quante™ Screened cords 100 Ohms

CBE - CBE Patch Cords
Grey / green polycarbonate shells, FTP cable, drain connected to earth
Straight cabling
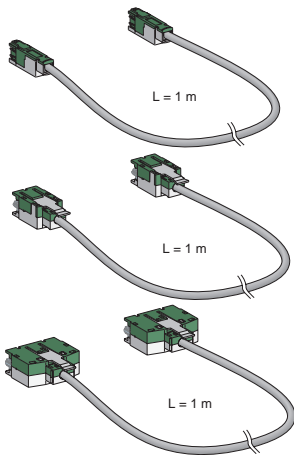
PVC Sheath - 1 pair

Length: 1,0 m,	PU: 1,	MOQ: 10	**P29361A5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P29362A5**

PVC Sheath - 2 pair

Length: 1,5 m,	PU: 1,	MOQ: 10	**P39472A5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39482A5**
Length: 3,0 m,	PU: 1,	MOQ: 10	**P39492A5**

PVC Sheath - 4 pair

Length: 1,0 m,	PU: 1,	MOQ: 10	**P39474A5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39484A5**
Length: 3,0 m,	PU: 1,	MOQ: 10	**P39494A5**

CBE - RJ45 Patch Cords
Grey / green polycarbonate shells and 9-pin RJ45, FTP cable, drain
connected to earth drain connected to earth, cabling EIA/TIA 568A
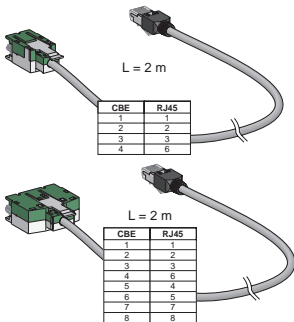
PVC Sheath - 568A cabling - 2 pair

Length: 0,5 m,	PU: 1,	MOQ: 10	**P39370D5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39370A5**
Length: 3,0 m,	PU: 1,	MOQ: 10	**P39372A5**

PVC Sheath - 568A cabling - 4 pair

Length: 0,5 m,	PU: 1,	MOQ: 10	**P39374D5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39374A5**
Length: 3,0 m,	PU: 1,	MOQ: 10	**P39376A5**

3.2 Patch Cable

3.2.1 Quante™ CBE for RCP and STG

Type/Order text	Ref.-No.

Quante™ Un-shielded cords 100 Ohms

CBE - CBE Patch Cords
Grey / green polycarbonate shell, UTP cable.
Straight cabling
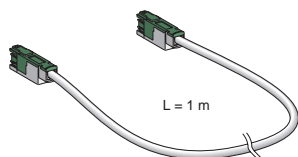
LSOH Sheath - 1 pair

Length: 0,5 m,	PU: 1,	MOQ: 10	**P39421D5**
Length: 1,0 m,	PU: 1,	MOQ: 10	**P39421A5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39431A5**
Length: 3,0 m,	PU: 1,	MOQ: 10	**P39431J5**
Length: 4,0 m,	PU: 1,	MOQ: 5	**P39431L5**
Length: 5,0 m,	PU: 1,	MOQ: 5	**P39431M5**
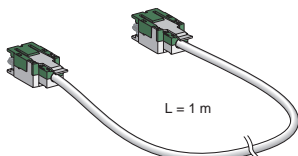
LSOH Sheath - 2 pair

Length: 0,5 m,	PU: 1,	MOQ: 10	**P39412A5**
Length: 1,0 m,	PU: 1,	MOQ: 10	**P39422A5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39432A5**
Length: 3,0 m,	PU: 1,	MOQ: 10	**P39442A5**
Length: 4,0 m,	PU: 1,	MOQ: 5	**P39442L5**
Length: 5,0 m,	PU: 1,	MOQ: 5	**P39442M5**
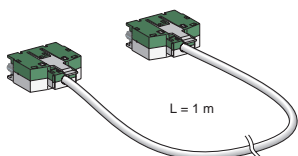
LSOH Sheath - 4 pair

Length: 0,5 m,	PU: 1,	MOQ: 10	**P39424D5**
Length: 1,0 m,	PU: 1,	MOQ: 10	**P39424A5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39434A5**
Length: 3,0 m,	PU: 1,	MOQ: 10	**P39444A5**
Length: 4,0 m,	PU: 1,	MOQ: 5	**P39444L5**
Length: 5,0 m,	PU: 1,	MOQ: 5	**P39444M5**

CBE - CBE Patch Cords
Grey / green polycarbonate shell, UTP cable.
Straight cabling
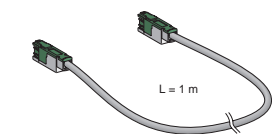
PVC Sheath - 1 pair

Length: 1,0 m,	PU: 1,	MOQ: 12	**P29811A5**
Length: 2,0 m,	PU: 1,	MOQ: 12	**P29812A5**
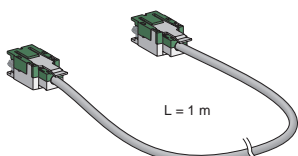
PVC Sheath - 2 pair

Length: 0,5 m,	PU: 1,	MOQ: 10	**P39813A5**
Length: 1,0 m,	PU: 1,	MOQ: 10	**P39814A5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39815A5**
Length: 3,0 m,	PU: 1,	MOQ: 10	**P39819A5**
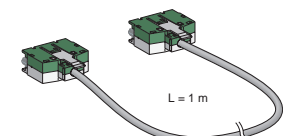
PVC Sheath - 4 pair

Length: 1,0 m,	PU: 1,	MOQ: 10	**P39816A5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39817A5**
Length: 3,0 m,	PU: 1,	MOQ: 10	**P39818A5**

Copper Interconnect Solutions

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3.2   Patch Cable
3.2.1 Quante™ CBE for RCP and STG

Type/Order text	Ref.-No.

Quante™ Un-shielded cords 100 Ohms

CBE - CBE Patch Cords - Cross Cabled Orange / grey polycarbonate shell,
UTP cable.
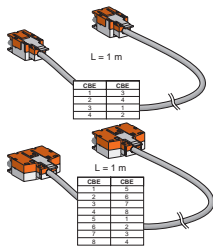
PVC Sheath - 2 pair

Length: , 1,0 m,	PU: 1,	MOQ: 10	**P39835A5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39836A5**

PVC Sheath - 4 pair

Length: 1,0 m,	PU: 1,	MOQ: 10	**P39837A5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39838A5**

CBE Patch Cords with circuit
UTP cable.
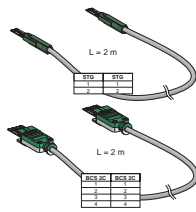
PVC Sheath - 1 pair

Length: 1,0 m,	PU: 1,	MOQ: 10	**P29320A5**

PVC Sheath - 2 pair

Length: 1,0 m,	PU: 1,	MOQ: 10	**P29332F5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P29332A5**

CBE - RJ45 Patch Cords Grey / green polycarbonate shell,
UTP cable.

PVC Sheath - 7 - 8 cabling - 1 pair

Length: 1,0 m,	PU: 1,	MOQ: 10	**P39827F5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39827A5**

PVC Sheath - 4 - 5 cabling - 1 pair

Length: 1,0 m,	PU: 1,	MOQ: 10	**P39829F5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39829A5**

LSOH Sheath - 568A cabling - 2 pair

Length: 0,5 m,	PU: 1,	MOQ: 10	**P39362D5**
Length: 1,0 m,	PU: 1,	MOQ: 10	**P39362F5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39362A5**

LSOH Sheath - 568A cabling - 4 pair

Length: 2,0 m,	PU: 1,	MOQ: 10	**P39364A5**

PVC Sheath - 568A cabling - 2 pair

Length: 0,5 m,	PU: 1,	MOQ: 10	**P39824D5**
Length: 1,0 m,	PU: 1,	MOQ: 10	**P39824A5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39825A5**

PVC Sheath - 568A cabling - 4 pair

Length: 0,5 m,	PU: 1,	MOQ: 10	**P39826D5**
Length: 2,0 m,	PU: 1,	MOQ: 10	**P39826A5**

Copper Interconnect Solutions

Description

Quante™ MRE / Quante™ CIPE - Overview

A comprehensive range of wall mount frames for Quante STG and Quante RCP DDF connection modules. Suitable for both rear, side or mixed cabling (Rear cabling method or flat cabling method).

These frames can be delivered CKD and are manufactured using corrosion proof materials. A complete range of covers are also available which offer a further degree of protection.
Suitable for all STG accessories and protection solutions (earth post).

CKD = Completely Knocked Down.

Highlights:

- From 300 to 400 pair
- High density (16 mm pitch)
- Wide range
- CKD configuation
- Flat wall mount version (MRE)

Technical Characteristics

Type of frame	Type of frame	Maximum Capacity		Outline dimensions (mm)		
		8 pair	10 pair	width	height	depth (without modules)
CIPE 2 x 18	2 x 18	288	360	450	310	135
CIPE 2 x 28	2 x 28	448	560	450	460	135
CIPE 2 x 41	2 x 41	656	820	450	660	135
CIPE 2 x 65	2 x 65	1040	1300	450	1060	135
CIPE 2 x 90	2 x 90	1440	1800	450	1500	135
CIPE 2 x 124	2 x 124	1984	2480	450	2000	135
MRE 21 B 10	2 x 21	336	420	420	322	80
MRE 35 B 10	2 x 35	560	700	420	530	80
MRE 60 B 10	2 x 60	960	1200	420	930	80

3

3.3   Frames and Boxes
3.3.1 Quante™ MRE / Quante™ CIPE

Quante™ MRE frames for bottom cable access

Very flat wall mount frame, with cable access at the bottom of each backmount frame

Standard equipment
- 2 wall fixing bars
- 4 vertical jumper rings at the top
- 2 backmount frames (55 mm deep)
- Cable strain relief devices at the bottom of each profile
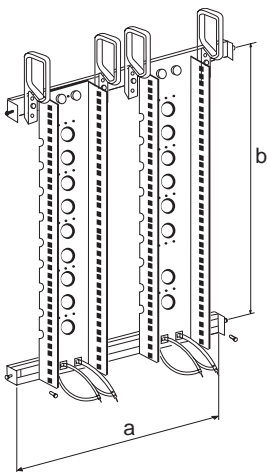
Completely knocked down frames
CKD frames for 8 pair STG modules

MRE 21 B8 2 x 21 ways	**N631071A**
MRE 35 B8 2 x 35 ways	**N631073A**
MRE 60 B8 2 x 60 ways	**N631075A**

CKD frames for 10 pair STG modules

MRE 21 B10 2 x 21 ways	**N631072A**
MRE 35 B10 2 x 35 ways	**N631074A**
MRE 60 B10 2 x 60 ways	**N631076A**

Assembled frames
Assembled frames for 8 pair STG modules

MRE 21 B8 2 x 21 ways	**(on request)**
MRE 35 B8 2 x 35 ways	**(on request)**
MRE 60 B8 2 x 60 ways	**(on request)**

Assembled frames for 10 pair STG modules

MRE 21 B10 2 x 21 ways	**C232014A**
MRE 35 B10 2 x 35 ways	**C232011A**
MRE 60 B10 2 x 60 ways	**C232015A**
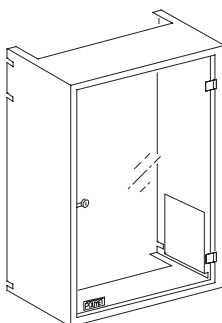
Cover for assembled frames

MRE 21 B8 - steel door	**37406300**
MRE 21 B8 - altuglass door	**37406000**
MRE 35 B8 - steel door	**374061VA**
MRE 35 B8 - altuglass door	**37406500**
MRE 60 B8 - steel door	**374062VA**
MRE 60 B8 - altuglass door	**37406600**

Type/Order text	Ref.-No.

Quante™ CIPE frames for rear cable access & Accessories

Cable entry from the rear of the backmount frames
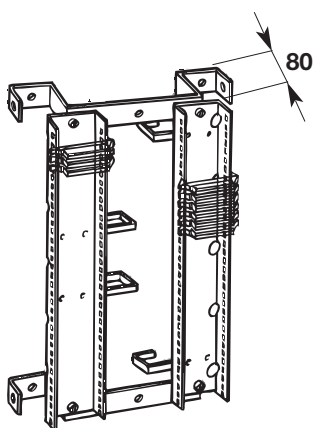
Frame for 8 pair STG modules

CIPE 2 x 18 ways	C232740A
CIPE 2 x 28 ways	C232741A
CIPE 2 x 41 ways	C232742A
CIPE 2 x 65 ways	C232743A
CIPE 2 x 90 ways	56312100
CIPE 2 x 124 ways	463392VA

Frames for 10 pair modules

CIPE 2 x 18 ways	C232750A
CIPE 2 x 28 ways	C232751A
CIPE 2 x 41 ways	C232752A
CIPE 2 x 65 ways	C232753A
CIPE 2 x 90 ways	56312200
CIPE 2 x 124 ways	463393VA

Accessories for Quante™ CIPE frames

Set of 2 x 2 metre backmount frame for Quante STG

10 pair	C232280A
8 pair	C232281A

Wall mount supports

For 1 backmount frame	P6008AAA
For 2 backmount frames	P6093AAA

Jumper routing devices

Set of 5 vertical jumper rings 50 x 55 mm	P24940AA

Horizontal routing rings to be mounted on backmount frame

Small size 38 x 50	P26665AA
Large size 50 x 70	P26675AA

3.3 Frames and Boxes
3.3.2 3M™ QVG

3M™ QVG - Overview

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

The 3M QVG distribution frame is a modular design using mounting rails (QRS), and wall mounting sets.

Mounting rail set QRS
The QRS mounting rail set consists of a mounting rail, wire guide ring (1000 pairs for horizontal jumpers), a wire guide rail, wire guide rings for the vertical jumpers and system related mounting materials.

The mounting rail is available in three heights - 700, 1000 and 1600mm.

The frame allows, by design, the cable and jumper levels to be separated. It is also possible to mount a cable channel (see order examples) and secure cables to the wire guide rail.

In order to connect telecommunication components (except in back mount frames), the wire guide rings are attached to the mounting rail. When using back mount frames (e.g. Quante™ SID™-C), the wire guide rings are mounted on the wire guide rail simply by re-attaching in the required locations. An additional wire guide rail can be added (see order examples).

Three distribution frames QVG 700, QVG 1000 and QVG 1600, with differing capacities, are available as standard.

The QVG can be expanded as required by adding further mounting rails.

Two lengths are available:
- 550 mm for 2 QRS
- 750 mm for 3 QRS

Material
- Mounting rail set: stainless steel, diecast zinc
- Wall mounting rail set: sheet steel, chromed
- Synthetic parts: PA.

Type/Order text	Ref.-No.

3M™ QVG 700 - Vertical wall mounted distribution frame

QRS 700	**41096-565 00**
Mounting rail kit QRS 700 incl. wire guide rail	
WBS 550 mm	**41096-568 25**
Wall mounting rail kit for 2 rows; Width: 550 mm	
WBS 750 mm	**41096-569 25**
Wall mounting rail kit for 3 rows; Width: 750 mm	
DFS 700 mm	**41096-562 00**
Wire guide rail kit, 700 mm	
SID-C FlexiRail QRS	**79096-569 25**
for 34 strips (R=17.5) or 26 strips (R=22.5)	

Order example –
3-mounting frames for Quante™ SID™-C and DIN design

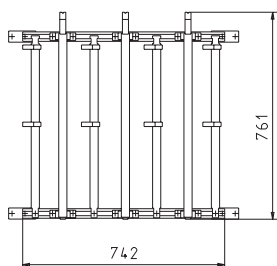|		
3 x	**mounting rail kit QRS 700**	**41096-565 00**
	incl. 1 wire guide rail	
1 x	**DFS 700 mm**	**41096-562 00**
	wire guide rail kit 700 mm	
1 x	**wall mounting rail kit**	**41096-569 25**
	750 mm long	
For SID-C:		
3 x	**Quante™ SID™-C Flexirail QRS**	**79096-583 00**

Type/Order text	Ref.-No.

3M™ QVG 1000 - Vertical wall mounted distribution frame
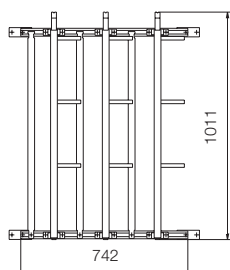
QRS 1000
Mounting rail kit QRS 700 incl. wire guide rail

41096-566 00

WBS 550 mm
Wall mounting rail kit for 2 rows; Width: 550 mm

41096-568 25

WBS 750 mm
Wall mounting rail kit for 3 rows; Width: 750 mm

41096-569 25

DFS 1000 mm
Wire guide rail kit 1000 mm

41096-563 00

Quante™ SID™-C FlexiRail QRS
for 46 strips (R=17.5) or 36 strips (R=22.5)

79096-570 25

Order example –
3-mounting frames for Quante™ SID™-C and DIN design

3 x mounting rail kit QRS 1000
incl. 1 wire guide rail

41096-566 00

1 x DFS 1000 mm
wire guide rail kit 1000 mm

41096-563 00

1 x wall mounting rail kit
750 mm long

41096-569 25

For SID-C

3 x SID-C Flexirail QRS

79096-570 25

Type/Order text	Ref.-No.

3M™ QVG 1600 - Vertical wall mounted distribution frame
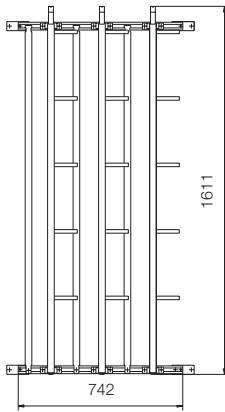
QRS 1600 Mounting rail kit QRS 700 incl. wire guide rail	**41096-567 00**
WBS 550 mm Wall mounting rail kit for 2 rows; Width: 550 mm	**41096-568 25**
WBS 750 mm Wall mounting rail kit for 3 rows; Width: 750 mm	**41096-569 25**
DFS 1000 mm Wire guide rail kit 1600 mm	**41096-564 00**
SID-C FlexiRail QRS for 90 strips (R=17.5) or 70 strips (R=22.5)	**79096-562 25**

1611

742

Order example –
3-mounting frames for Quante™ SID™-C and DIN design

3 x	**mounting rail kit QRS 1000** incl. 1 wire guide rail	**41096-567 00**
1 x	**DFS 1000 mm** wire guide rail kit 1000 mm	**41096-564 00**
1 x	**wall mounting rail kit** 750 mm long	**41096-569 25**
For SID-C		
3 x SID-C Flexirail QRS		**79096-562 25**

3
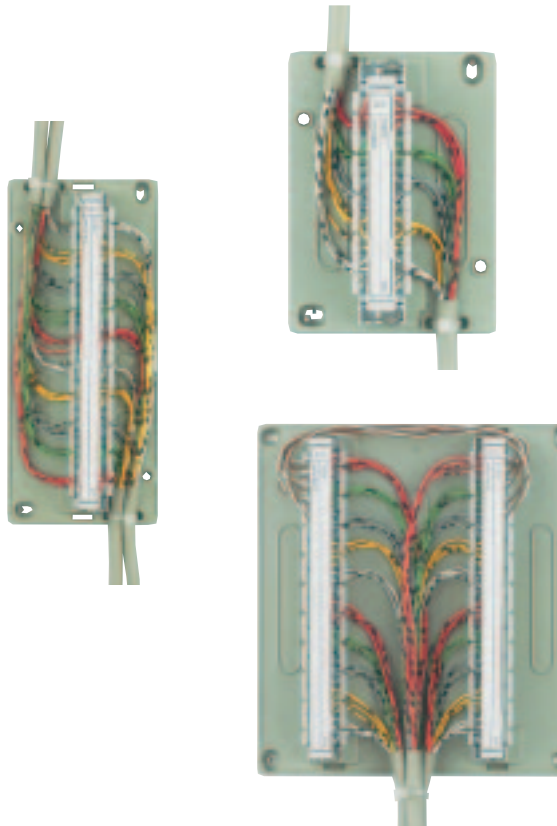
3.3.3 Distribution Boxes 3M™ VKK

3M™ VKK distribution boxes for 10-20 pair Quante™ SID™-CD

3M™ VKK distribution boxes for 10 and 20-pair, are a range of empty plastic boxes for use in surface mount indoor applications. Their primary use is for the mounting of Quante™ SID™-CD or DIN connection strips in 'dry room' environments.

Manufactured from thermoplastic synthetic material (ABS) the boxes offer a high degree of impact resistance. Knockouts are provided on all sides of the cover and within the base plate to provide cable inlets / outlets.

Each box is supplied complete with screws for the mounting of component parts. Maximum allowable height of internal components is 38mm.

Protection Rating: IP31 (EN60529)
Colour: RAL 7032, Pebble grey
Material: ABS

Possible Configurations

VKK 1
1 component part, hole-spacing 96 mm
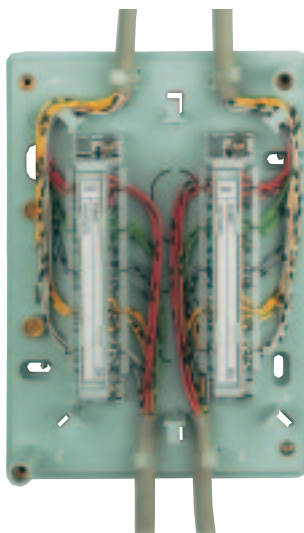(e.g. 10-pair connection strip SID-CD or type A*).

VKK 2
1 component part, hole-spacing 170 mm
(e.g. 20-pair connection strip SID-CD/10, 20-pair type B*).

VKK 3
2 component parts, hole-spacing 170 mm
(e.g. 20-pair connection strip SID-CD/10, 20-pair type B*).

3M™ VKK distribution boxes for 20 pair Quante™ SID™-CD

VKK distribution boxes for 20 and 40-pair, are a range of empty plastic boxes for use in surface mount indoor applications. Their primary use is for the mounting of SID-CD or DIN connection strips in 'dry room' environments.

Manufactured from thermoplastic synthetic material (ABS) the boxes offer a high degree of impact resistance. Knockouts are provided on all sides of the screw-on cover and within the base plate to provide cable inlets / outlets.

Each box is supplied complete with screws for the mounting of component parts, wire guide hooks and cable tie holders. Maximum allowable height of internal components is 38 mm.

Protection Rating: IP31 (EN60529)
Colour: RAL 7032, Pebble grey
Material: ABS

Possible Configuration

K10/20
2 component parts, hole-spacing 96 mm
(2 x 10-pair connection strips SID-CD)

* Connection strip according to DIN 47614

3.3.3 Distribution Boxes
3M™ VKK

Type/Order text	Ref.-No.

3M™ VKK distribution boxes for 10-40 pair Quante™ SID™-CD
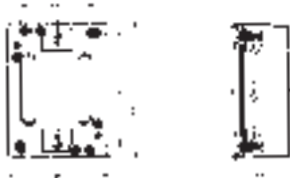
VKK 1
PU: 1 pce., Weight: 0.09 kg

50-510-11000
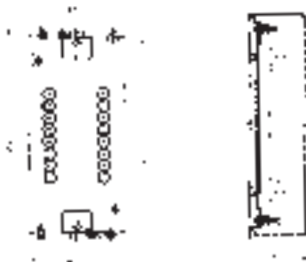
VKK 2
PU: 1 pce., Weight: 0.13 kg

50-520-01000

VKK 3
PU: 1 pce., Weight: 0.26 kg

50-540-01000

3M™ VKK Accessories

Kit for additional fastening of cover;
with possibility of applying lead seal, Stud bolt
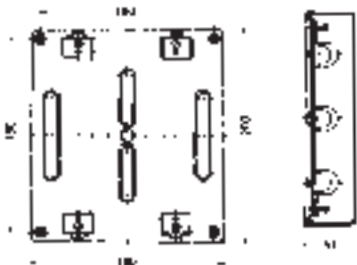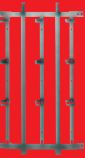PU: 1 pce., Weight: 0.026 kg

50179-506 00

3M

Copper Interconnect Solutions

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3.3.3 Distribution Boxes
3M™ VKA

3M™ VKA Distribution box for 100 pair Quante™ SID™-CD

The VKA 3K distribution box is a surface mount empty housing for mounting connection strips in a 'dry room' environment. Manufactured in thermoplastic synthetic material (ABS) the housing offers both high impact and flame resistance.

Each housing includes a screw-on cover and baseplate that include 5 slide in plates with contoured knockouts, (3 in the top and 2 in the bottom). Cable strain relief is also provided at the cable inlet areas.

Protection Rating:
IP 31 (EN60529)

Colour:
RAL 7032, Pebble grey

Material:
ABS

Standard equipment
- Wall mounting hardware
- component fixing screws
- wire guiding hooks
- cable tie holder
- earth bar

Accessories (to be ordered separately):
- "Q2" or "15" safety lock
- monitoring switch
- second earthing bar

Possible Configurations
a) Connection strips (hole-spacing 96 mm or 170 mm, respectively), 3 pcs. for 10 or 20 pairs each (screwing and soldering connections).
b) Quante SID-CD-strips:
   5 pcs. for 10 or 20 pairs each (max. 100 pairs).
c) Or other components on the baseplate.
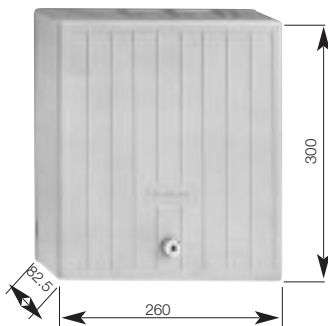
VKA 3 K
PU: 1 pce., Weight: 0.9 kg

50-100-00300

3M™ VKA 3K Accessories

"Q2" lock
PU: 1 pce., Weight: 0.075 kg

50096-505 00

3.3.3 Distribution Boxes
3M™ VKA

3M

Description

3M™ VKA distribution boxes for 60 - 640 pairs

The VKA distribution boxes are designed to accommodate compo-nent parts with a mounting measurement of 170 mm (DIN strips), Quante™ SID™-C, Quante™ SID™-CD, as well as overvoltage protection modules.

The distribution boxes are available in four sizes capable of accom-modating from 60 to 480 pairs for DIN strips. The Quante SID-C system (depending on the housing size) accommodates a maxi-mum of 80 to 640 pairs (recommended capacity: 480 pairs). The distinguishing feature of this generation of distribution boxes is the rotating baseplate - "FlexiBase".

FlexiBase allows for flexible mounting:
SID-CD strips (DIN design) can be mounted on one side, with a back mount frame or Quante™ SID™ FlexiRail for SID-C integrated on the other side. Quante™ SID™ FlexiRail allows for continuously variable module configuration.

"DIN-SID-C" - based on FlexiBase - is offered for:
- VKA 4,
- VKA 8
- VKA 12.

"DIN-SID-C" stands for combined DIN and SID-C FlexiRail systems in a single housing. Quante SID-C is optimal where high density is required.

The "DIN" models are suitable for DIN strips (screw and solder connections). This design concept offers users the possibility to decide between the DIN and frame systems to meet their individual needs for on-site, last-minute installation, without having to buy additional frames. Thanks to the FlexiBase, a quick "turn of the hand" transforms a DIN distributor into a frame distributor for SID-C with FlexiRail.

VKA2 / DIN as well as the "DIN-SID-C" models provide the ultimate solution for mounting SID-C strips even in DIN format (mounting measurement 170 mm). The strips are simply secured to the base-plate by means of special retaining clips without having to be screwed on which is a distinct assembly advantage. Furthermore, the retaining clips can be simultaneously used as wire guide hooks.

Cables are inserted through plastic caps with knockout contours, which are fastened to VKA 4, VKA 8 and VKA 12 mounting profiles and allow easy cover installation and removal in a mounted distribution box.

The distribution boxes are standard equipped with snap locks. Safety locks are a retrofit option.
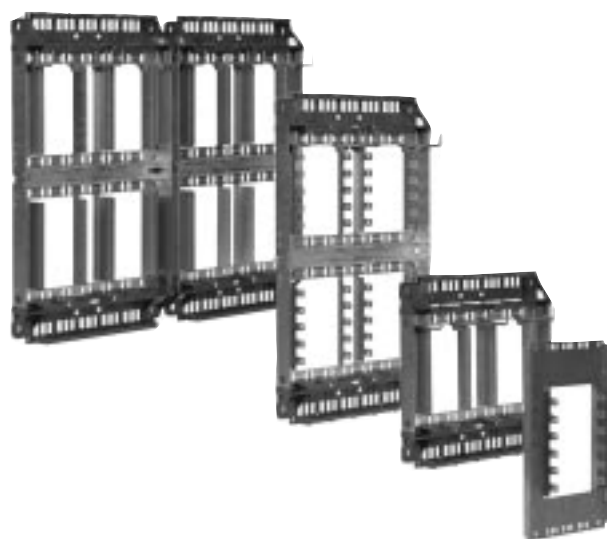
3.3 Frames and Boxes
3.3.3 Distribution Boxes
3M™ VKA

3M™ VKA Overview

Models:

VKA 2 / DIN: Baseplate for DIN component parts
VKA 2 / SID-C: Baseplate with integrated SID-C FlexiRail

VKA 4, VKA 8 and VKA 12 in the following versions:

DIN: With baseplate for all DIN component
DIN-SID-C: With FlexiBase for SID-CD (DIN strips) and
              integrated FlexiRail for SID-C

Material:

Baseplate: Galvanised steel
Cover: Powder-coated sheet steel with plastic caps.
Lock: Snap lock; lock kits optional.
Protection type: IP 40 (EN 60529).

Standard equipment

Baseplate with integrated SID-C FlexiRail.
Retaining clips / wire guide hooks for DIN models with Flexibase
and VKA 2 / DIN; wire guide hooks for SID models;
ground terminals.
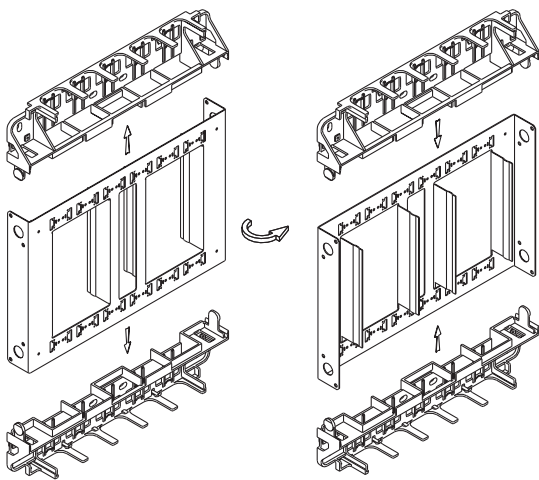
	Capacity/Max. Connections [pairs]	
	DIN	SID-C
VKA 2 / DIN	60	—
VKA 2 / SID-C	—	80
VKA 4 / DIN	120	160
VKA 8 / DIN	240	320
VKA 12 / DIN	480	—
		(max.) 640
		(recom.) 480

Type/Order text	Ref.-No.

Locking system for 3M™ VKA distribution boxes

Q2 lock kit for VKA 4, VKA 8 and VKA 12
Weight: 0.5 kg

52096-522 00

Q3 lock kit for VKA 4, VKA 8 and VKA 12
Weight: 0.5 kg

52096-520 00

Q2 lock kit for VKA 2
Weight: 0.2 kg

52096-523 00

Q3 lock kit for VKA 2
Weight: 0.2 kg

52096-521 00

Monitoring switch
Cover contact applicable only in conjunction with lock kit.
Weight: 0.05 kg

52096-519 00

3.3.3 Distribution Boxes 3M™ VKA

3M™ VKA distribution boxes for 60 - 640 pairs

Dimensions (H x W x D)
330 x 200 x 100 mm

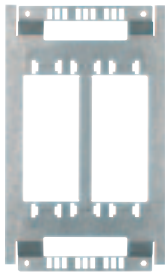**VKA 2 /DIN**   52-300-00000
Optional configurations:
- 2 strips of 20 pairs (screw/solder type)
- 3 strips 20 pairs (Quante™ SID™-CD)
Use of overvoltage protection possible
PU: 1 pce., Weight: 1.7 kg

---

330 x 330 x 125 mm
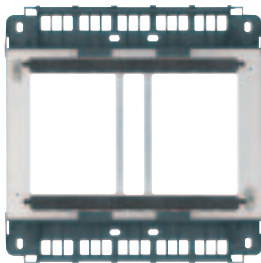
VKA 4 / DIN   52-302-00100
Optional configurations:
- 4 strips of 20 pairs (screw/solder type)
- 6 strips 20 pairs (SID-CD)
- 16 strips 10 pairs SID-C
Use of overvoltage protection possible
PU: 1 pce., Weight: 2.8 kg

For use with SID-C, please order 2 x wire guide hooks SID-C per distribution box

---

550 x 330 x 125 mm

VKA 8 / DIN   52-302-00200

Optional configurations:
- 8 strips of 20 pairs (screw/solder type)
- 12 strips 20 pairs (SID-CD)
- 32 strips 10 pairs SID-C
Use of overvoltage protection possible
PU: 1 pce., Weight: 4.9 kg

For use with SID-C, please order 4 x wire guide hooks SID-C per distribution box

---

550 x 665 x 125 mm
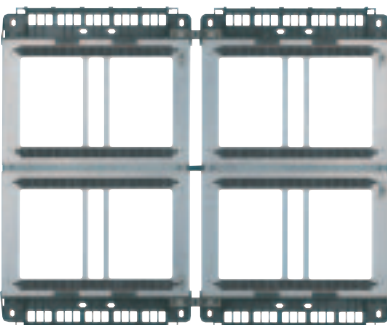
VKA 12 / DIN   52-302-00300
Optional configurations
- 16 strips of 20 pairs (screw/solder type)
- 24 strips 20 pairs (SID-CD)
- 64 strips 10 pairs ID-C
Use of overvoltage protection possible
PU: 1 pce., Weight: 9.2 kg

For use with SID-C, please order 8 x wire guide hooks SID-C per distribution box

---

Wire Guide Hooks SID-C   52096-533 00

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3.3.3   Distribution Boxes
3M™ VKA

Type/Order text	Ref.-No.

3M™ VKA distribution boxes for 60 - 640 pairs
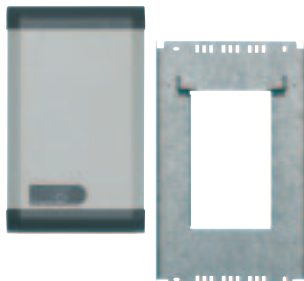
VKA 2 / SID-C   **52-300-00025**
8 strips of 10 pairs (SID-C)
Use of overvoltage protection possible
PU: 1 pce. Weight: 1.7 kg

3.3 Frames and Boxes
3.3.3 Distribution Boxes
3M™ STB / 3M™ STF

Description

3M™ STB - 3M™ STF indoor distribution boxes

The range of indoor distribution boxes comprises of complete boxes with connection modules (STB) and boxes to be equipped with STG connection modules (STF)

These boxes are suitable for all indoor applications and the cover can be removed from the base with 1/4 turn captive screws. Built in impact resistance poly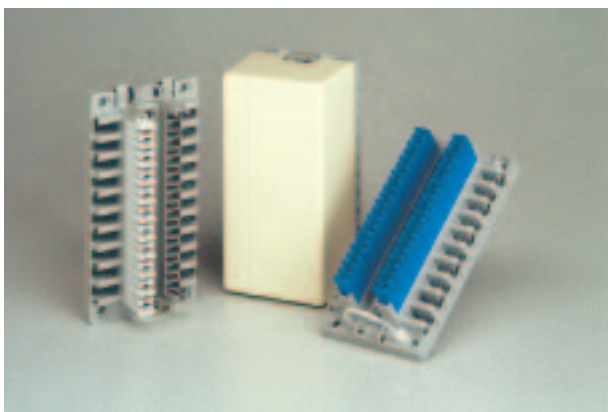styrene the protection class is IP 41, standard colour is RAL 9001 (off white). The box is designed to be mounted with 4 screws (not supplied).

On STF boxes and STB (30, 40, 50 pairs) each side of the box is made up of a sliding panel which can be removed. This allows for several boxes to be installed side by side with jumpers routed from one box to the other. A valuable feature when extending the number of lines in an installation.

STB fully equipped boxes
- STB 10 and 20 pairs:
  Compact boxes with lockable cover, based on STG IDC technology. The multipair cable is routed through the centre of the box with the distribution cables exiting through the side or the rear of the box. A specific high depth cover allows to install multi pair protection magazines.

- STB 30, 40 and 50 pairs:
  STF boxes equipped with STS screw mount disconnection modules.

STF empty box for STG connection modules
- STF is available in two box sizes, 100 and 200 pairs. Provision is made to mount STG modules on an internal backmount frame with earth post.
- The box is delivered complete with cable ties.

Dimensions and capacities

STF backmount frame

Description	Dimensions (mm)			Capacities	
	H	W	D	Fixing	STG base 10
Box STF B10 x 1 step	16	112	35	2 x Ø 4	1
Box STF B10 x 2 step	32	112	35	2 x Ø 4	2
Box STF B10 x 3 step	48	112	35	2 x Ø 4	3
Box STF B10 x 6 step	96	112	35	4 x Ø 4	6
Box STF B10 x 11 step	176	112	55	4 x Ø 4	11
Box STF B10 x 21 step	336	112	55	8 x Ø 4	21

Highlights:
- Possibility to install the boxes along each other
- Comprehensive range
- STG connection technology

STF boxes

Description	Dimensions (mm)			Capacities		
	H	W	D	STG base 8	RCP	STG base 10
Box STF 80	210	175	121	10	10	-
Box STF 160	350	210	121	20	20	-
Box STF 160	210	175	121	-	-	10
Box STF 160	350	210	121	-	-	20

Dimensions of the STB boxes

Description	Dimensions (mm)		
	H	W	D
STB, 5 pairs	130	66	55
STB, 10 pairs	130	66	55
STB, 20 pairs	130	66	55
STB, 30 pairs	210	175	121
STB, 40 pairs	210	175	121
STB, 50 pairs	210	175	121

3.3.3 Distribution Boxes
3M™ STB / 3M™ STF

Type/Order text	Ref.-No.

Boxes with connection modules
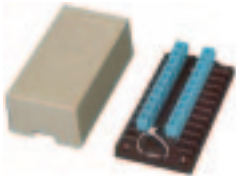
Compact box for 5, 10 and 20 pairs

STB C2 5, 5 pair disconnection box	**C227355A**
STB C2 10, 10 pair disconnection box	**C227322A**
STB C2 20, 20 pair disconnection box	**C227323A**
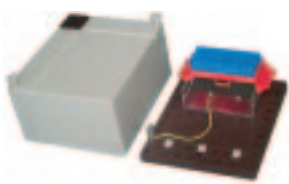
Compact box for 5, 10 and 20 pairs with protection options

STB S2 10 P, 10 pair connection box	**C227367A**
STB S2 20 P, 20 pair connection box	**C227368A**
STB C2 10 P, 10 pair disconnection box	**C227336A**
STB C2 20 P, 20 pair disconnection box	**C227337A**
STB boxes with 10 pair protection magazine and earth cord (not equipped with surge arresters)	**C233888A**
Three poles surge arresters for STB protection magazine	**refer to STG protection**
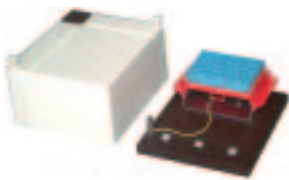
**Medium box 30, 40 and 50 pairs equipped with STS connection modules**

STB C2 30, 30 pair disconnection box	**C227342B**
STB C2 40, 40 pair disconnection box	**C227344B**
STB C2 50, 50 pair disconnection box	**C227346B**

3M™ STF empty boxes equipped with Quante™ STG backmount frames

Medium and large size boxes STF for 8 pair STG modules

STF box, 80 pair medium, 10 way STG 8 pair backmount frame	**C226020A**
STF box, 160 pair large, 20 way STG 8 pair backmount frame	**C226021A**
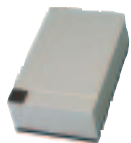
Medium and large size boxes STF for 10 pair STG modules

STF box, 100 pair medium, 10 way STG 10 pair backmount frame	**C226022A**
STF box, 200 pair large 20 way STG 10 pair backmount frame	**C226023A**

Backmount frames for STF boxes
Additional backmount frames can be used to configure STF boxes with other capacities

for STG 10 pairs (H 35)

Set of 2 x 1 way backmount frame	**C226000A**
Set of 2 x 2 way backmount frame	**C226001A**
Set of 2 x 3 way backmount frame	**C226002A**
Set of 2 x 6 way backmount frame	**C226003A**

for STG 10 pairs (H 55)

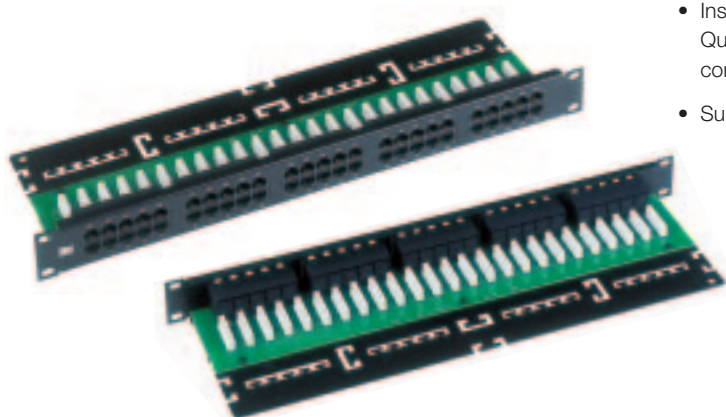|	
Set of 2 x 11 way backmount frame	**C226004A**
Set of 2 x 21 way backmount frame	**C226005A**

3.4.1 Quante™ 19" Patch Panels

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Description

Quante™ 19" Category 3 Patch Panels

The 3M Category 3 patch panels provide a point of integration of voice grade channels into structured building wiring. High pair count communication cables from the PABX can be terminated in to the 19" subrack clearly and compactly to provide a distribution via RJ45 connections.

The panel is available in 25 or 50 RJ45 Sockets 8 (4), (4 pins of the 8 occupied) versions with the connection of cables using SID-P connecting terminals (AWG 26-22).

Highlights:

- Optimal integration of 25 or 50 voice grade channels into the structured building wiring via RJ-45 sockets

- Very high component density of 25 or 50 sockets in 1U

- 50 or 100 pair cable can be terminated completely

- Satisfies and exceeds Category 3 (EN 50173)

- Installation-friendly, presenting of the lines on Quante™ SID-P of blocks without un twisting of the pairs complete

- Supplied complete with all 19″ mounting materials

Housing:
1U x 19" Galvanised Steel sheet. Screened port numbering. Cable management points for individual and for up to 3 high pair count cables. Separate grounding pin (M6) for potential equalisation.

Color:
Front face only - RAL 7032 (pebble-grey)

Transmission characteristics :
Exceeds the requirements of the Category 3 (EN 50173)

Type/Order text	Ref.-No.
Volition™ 19''x1U Patch Panel Category 3, SID, 25 ports, grey	**VOL-PP3G-25P**
Volition™ 19''x1U Patch Panel Category 3, SID, 25 ports, black	**VOL-PP3B-25P**
Volition™ 19''x1U Patch Panel Category 3, SID, 50 ports, grey	**VOL-PP3G-50P**
Volition™ 19''x1U Patch Panel Category 3, SID, 50 ports, black	**VOL-PP3B-50P**
Volition™ 19''x1U Patch Panel Category 3, SID, 28 ports, black	**VOL-PP3B-28P**
Volition™ 19''x1U Patch Panel Category 3, SID, 56 ports, black	**VOL-PP3B-56P**

3.5   Telephone Sockets
3.5.1 Analogue Sockets
3M™ RJ11 - Overview

3M™ RJ11 - Overview

3M™ RJ11 telephone socket is the worldwide standard for customer premises. This product offers all the facilities required by the customer particularly the T-connection to extend the line to another room.

Quante 3M Telecommunication range of MJP telephone sockets is designed to meet all these requirements. MJP will offer a long life service as the socket is filled with self healing gel.

Based on double slotted IDC´s, the termination system makes the product very easy to be installed even by the end user.
Accommodates all conductors in the range of 0.5 to 0.65 mm.
A gold plating on the contact allows multiple insertion of the RJ plug.

Different sizes are available according to local specifications:
• RJ11 with 2 contacts,
• RJ11 with 4 contacts
• RJ11 with 6 contacts.

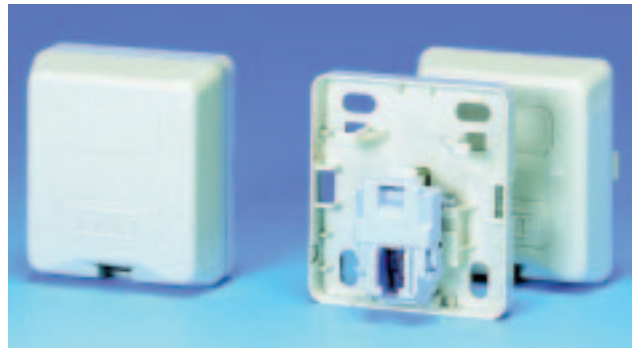Different types of flush mount or wall mount support are also available. Wall mount boxes offer strain relief devices for the incoming cable as well as different possible entries for the cable.
A number of mounting devices are offered (screws, double sided tape...).

Additional features can be offered with the RJ11 range of connectors such as protection circuits, remote test circuits, RF filters.

Please consult us for any specific requirement.

Highlights:

• Tool free termination

• Long life service - gel filled

• T-connection facility

• Comprehensive range

• Flush or wall mount boxes

3.5.1 Analogue Sockets
3M™ RJ11 Sockets

Type/Order text	Ref.-No.

3M™ RJ11 - Sockets

Dimensions: (WxHxD) 50 x 55 x 22.5 mm
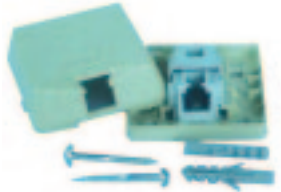
RJ11-2 contact wall mount socket 2 contact RJ11 telephone socket, with gel and 2 mounting screws	C211707A
RJ11-4 contact wall mount socket 4 contact RJ11 telephone socket with gel and 2 mounting screws	C211739A
RJ11-4 contact telephone socket with gel without mounting screws	C211732A
RJ11-4 contact telephone socket with gel and double sided mounting tape	C211752A
RJ11-6 contact wall mount socket with gel without mounting screws	C211754A
Flush mount socket **71 x 116 mm face plate with dummy plug, ivory,** without connector	C211738A
71 x 116 mm face plate, ivory, equipped with 1 RJ11-4 contacts	C211744A
85 x 85 mm face plate, white, equipped with 1 RJ11-4 contacts	C211750A
85 x 85 mm face plate with dummy plug, white, without connector	C211751A
85 x 85 mm face plate, white, with 1 RJ11 4 contacts	C211691A
RJ11 connectors	
4 contacts RJ11 socket gel filled	**C211749A**
4 contacts RJ11 socket	**C211741A**

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3.5.2 ISDN Sockets
3M™ PMJ - Overview

3M™ PMJ - ISDN telephone sockets

- International standard RJ45 telephone socket for ISDN networks.

- T-connection facility which allows a bus configuration to be built. The total impedance may be adapted by using resistors.

- Cable screen continuity in the bus is maintained through an earth post installed in the socket.

- Impedance can be adjusted with resistors directly connected in the double slotted IDC contacts of the last socket in the bus system.

- Based on Quante-Pouyet TOOL FREE system, termination is performed by pushing on a termination flap.

- PMJ can be reterminated.

- Double slotted IDCs offer a T-connection facility

- Accommodates solid copper conductors from 0.5 to 0.65 mm.

- High pressure gold plated contacts of the socket allow insertion and removal the plug many times.

Installation

- PMJ ISDN telephone sockets are designed for flush as well as wall mount applications.
- PMJ sockets come with all mounting accessories.

Range of products

- 1 outlet wall mount ISDN socket.
- 2 outlet wall mount socket.
- 1 outlet flush mount socket.

Technical characteristics:

Dimensions (LxWxD)
65 x 65 x 40 mm for wall mount socket
80 x 80 x 31 mm for flush mount socket
(23 mm inside the wall)

Connection
Solid copper conductors from 0.5 to 0.65 mm
Overall insulation diameter: 1.5 mm max.

Materials
Housing: thermoplastic materials
Colour: ivory colour
Socket: thermoplastic material
         tin-lead plated contacts
         gold plated Volition™ RJ45 outlet

Mounting solutions
Mounting screws for wall mount sockets
Clipped on flush mount

Electrical characteristics
Leading through resistance: < 20 mΩ
Insulation resistance: > 10 mΩ

Highlights:

- 3M TOOL FREE IDC technology

- Double slot IDC

- Gold plated Volition™ RJ45 contacts for outstanding reliability

- Sliding flap protects Volition™ RJ45 outlet

- Strong mechanical plastic material offers a good resistance to shock.
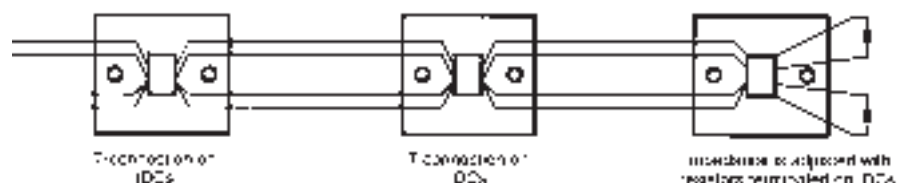
3.5.2 ISDN Sockets
3M™ PMJ - Sockets

Type/Order text	Ref.-No.

3M™ PMJ - ISDN telephone sockets

1 outlet Volition™ RJ45 wall mount ISDN socket

Standard without cable screen termination ISDN facility	**33023800**
ISDN socket with 2.5 mm² earth post for cable screen continuity	**330243VA**

2 outlet Volition™ RJ45 wall mount ISDN socket Standard type without earth post, with impedance adaptors, with mounting screws	**N301023B**

1 outlet Volition™ RJ45 flush mount ISDN socket

Standard type without earth post	**NN330240**
ISDN socket with 2.5 mm² earth post for cable screen continuity	**330244VA**

1 outlet Volition™ RJ45 45 x 45 face plate

ISDN socket	**P28230A5**
Box for wall mount application (empty)	**P28420AA**

3M

Copper Interconnect Solutions

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3.5　Telephone Sockets
3.5.2　ISDN Sockets
3M™ Flush Mount Sockets

Description

3M™ Flush mount Sockets

ISDN socket for flush mounting applications, with 50 x 50 mm central plate which fits most standard mountings.They are equipped with 2 parallel RJ45 sockets (8p/4c) and integrated, switchable resistors for bus termination (R100 option).

Highlights:

- Can be used with most standard frame systems

- Mounting to wall box or in trunking, using bolts or of spreading clamps

- For eight position Quante™ SID™ terminal (SID-8) or quadruple screw-terminal (option `SK´)

- Clean and simple bus termination in the last box with integrated, switchable 100 Ω resistors (option `R100´)

- Downwards facing cable entry, angled 15° off away from the wall

- Mounting and removing of the central plate without tool

Technical characteristics:

Design:
Complies with EN 60603-7, EN 28877, EN 60950 standards.
Two Volition™ RJ45-jacks with 4 contacts each (contacts 1, 2, 7 and 8 are not in used).

Technical Data:
Weight: approx. 18 g
Dimensions: 70 x 70 mm, 20 mm deep, 19.5 - 22.5 mm high
Operating voltage: < 42 VDC
Testing voltage: 1000 VAC 50 Hz
Operating current: < 1A
Insulation resistance: > 200 M-Ω
Terminal: screw terminal or SID-P terminal (options „SK" or „SID8")
Contact lifetime: min. 750 insertions

Material:
Housing: thermoplastic ABS, complies with UL94HB
Colour: white
Contacts: Bronze, galvanic nickel with 60 µm gold

Type/Order text	Ref.-No.
ISDN UP R100 (SID-8) socket PU: 10 pcs.	**(on request)**
ISDN UP without R (SID-8) socket PU: 10 pcs.	**(on request)**
ISDN UP R100 SK socket PU: 10 pcs.	**(on request)**
ISDN UP without R SK socket PU: 10 pcs.	**(on request)**

3.5   Telephone Sockets
3.5.2 ISDN Sockets
3M™ Wall Mount Sockets

Copper Interconnect Solutions

Description

3M™ Wall mount Sockets

ISDN socket for wall mounting applications. Each type is equipped with two parallel Volition™ RJ45 jacks (8p/4c) and integrated, switchable resistors for bus termination.

Technical characteristics:

Design:
Complies to standards EN 60603-7, EN 28877.
Two Volition™ RJ45 jacks with 4 contacts each.

Highlights:

• Accommodates two Volition™ RJ45 sockets for connection of various ISDN devices

• Equipped with two integrated switchable 100 Ohm termination resistors for the S0 bus (optional)

• Mounting to the wall using bolts or spreading clamps

• Cable entry from 4 sides and through bottom

• For eight position SID terminal (option „SID8") or quadruple screw-terminal (option „SK")

• Clean and simple bus termination in the last box with integrated, switchable 100 Ω resistors (option „R100")

• Downwards cable entry, parallel to the wall

Technical Data:
Weight: ca. 39 g (47 g including clamps)
Dimensions: 80 x 80 mm, 23 mm
(+16 mm deep when clamp-mounted)
Operating voltage: 48 VDC
Testing voltage: 1000 VAC 50 Hz
Operating current: < 1A
Insulation resistance: > 200 M-Ω
Lead through resistance: < 20 m-Ω
Contact lifetime: min. 750 insertions

Material:
Housing: thermoplastic ABS, complies with UL94HB
Colour: RAL 1013 (white)
Contacts: Bronze, galvanic nickel with 60 µm, gold
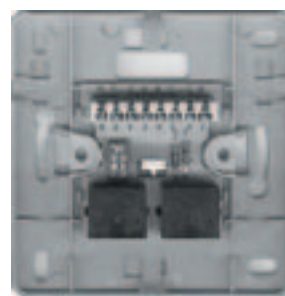
Type/Order text	Ref.-No.
ISDN UP/AP R100 SID8 socket PU: 10 pcs.	**(on request)**
ISDN UP/AP without R SID8 socket PU: 10 pcs.	**(on request)**
ISDN UP/AP R100 SK socket PU: 10 pcs.	**(on request)**
ISDN UP/AP without R SK socket PU: 10 pcs.	**(on request)**

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Notices

important Notice *important*

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Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.

All questions of liability relating to 3M products are governed by the seller's terms of sale subject where applicable to the prevailing law.

If any goods supplied or processed by or on behalf of 3M prove on inspection to be defective in material or workmanship, 3M will (at its option) replace the same or refund to the Buyer the price of the goods or services.

Except as set out above, all warranties and conditions, whether expressed or implied, statutory or otherwise are excluded to the fullest extent permissible at law.

3M