

KRONE LSA-PLUS®

Quick Connection Technique

We are pleased to provide you with our latest catalogue containing current product information.

Please complete the registration card inside the back cover, so that you will receive the latest product information and up-dated catalogues as they become available.

Please return the completed card to KRONE (UK) TECHNIQUE LIMITED and if you require further copies for your colleagues, ring the Sales hotline on 0242 264444.

When ordering, please quote the KRONE Number in the right margin of the catalogue. This number refers to the single unit described, packed in standard quantities, for example:

20 x 6089/1/810/00 (10 Pair Disconnection Module, page 8) means a total order of 20 modules in two packs of 10.



Registered to BS 5750 1987 Part II
Certificate No. FM437.

Krone (UK) Technique Limited is a BSI Registered Firm of Assessed Capability for the manufacture of telecommunication equipment.

KRONE (UK) TECHNIQUE LIMITED
Runnings Road
Kingsditch Trading Estate
CHELTENHAM
Gloucestershire GL51 9NQ.

Tel: Cheltenham 0242 264400
Fax: Cheltenham 0242 264488
Sales Fax: Cheltenham 0242 264466
Telex: 43350 KRONE G.
Sales Hotline: 0242 264444

ISSUE 2

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CONTENTS

	Introduction	2
	Contact Technique	2
	Applications and Advantages	3
	Technical Data	3
	Installation Instructions	5
	Key Dimensions	6
SECTION 1	Modules	7
	1.1 Back Mount Frame Modules	8
	1.2 Surface Mounted Modules	10
	1.3 PCB Mounted Modules	11
SECTION 2	Labels and Designation	13
SECTION 3	Protection	17
	3.1 LSA-PLUS® Protection	18
	3.2 Gas Discharge Tubes	20
SECTION 4	Module Accessories	23
SECTION 5	Internal Boxes and Accessories	31
	5.1 Internal Boxes	32
	5.2 Box Accessories	38
SECTION 6	Frames, Subracks and Back Mount Frames	41
SECTION 7	Pre-wired Assemblies	49
SECTION 8	Modular Patching	51
SECTION 9	Modular Jacks	57
SECTION 10	Network Test and Termination Apparatus (NTTA)	63
	10.1 NTTA for Larger Installations	64
	10.2 NTTA for up to 20 Incoming Lines	65
SECTION 11	External Plant	67
SECTION 12	Easy Reference Guide	72
SECTION 13	General Information	75

KRONE LSA-PLUS®

Quick Connection Technique

INTRODUCTION

The KRONE LSA-PLUS® Quick Connection technique is a highly reliable and cost-effective wire connection system for modern telecommunications and data networks. It is a comprehensive system built around the widely accepted KRONE 10 pair termination module with its range of built-in features. This is complemented by an extensive

selection of accessories for protection, circuit identification and testing. The product range has been enhanced by the development of the RJ-K Series patch panels and jacks as well as a series of internal distribution boxes, distribution frames, external distribution boxes and cabinets. The KRONE LSA-PLUS® system uses our unique Insulation

Displacement Connection (IDC) technique which eliminates the need to wire-strip, solder or make screw terminations, and dramatically increases wiring productivity. The system can be supplied as components for connection in the field, or as factory pre-wired units for maximum cost effectiveness.

CONTACT TECHNIQUE

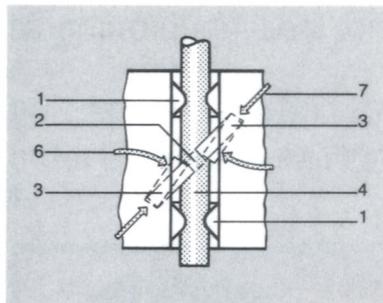


Fig A

The KRONE LSA-PLUS contacts (figs A & B) consist of a contact slot (2) with flexible contact arms (3). These are arranged at 45° to the axis of the wire.

The wire (4) is pressed by the Insertion Tool (5) into the contact slot (2) cutting through the conductor insulation. By the displacement of the insulation and the constant torsional restoring force (6, 7) of the flexible contact arms, two permanent gas tight contact points are created with the conductor. The clamping ribs (1) tightly grip the wire on both sides of the contact, ensuring the mechanical integrity of the connection. In one simple movement the Insertion Tool (5) terminates the wire and trims it to the correct length.

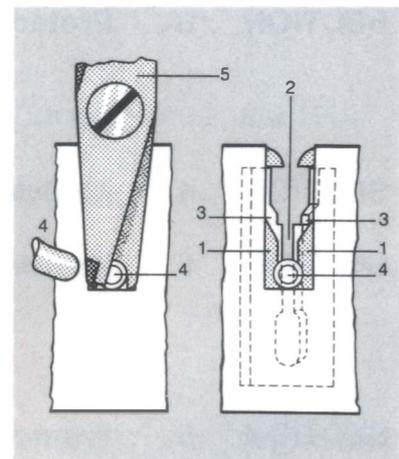


Fig B

MODULES consist of two rows of contacts, one for permanent wiring, the other for jumper wires. The modules are available in four basic forms:

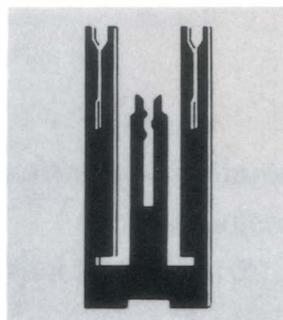


Fig C

EARTHING MODULES have a one piece contact and earthing rail accommodating up to 2 identical wires per slot.

CONNECTION MODULES have a one piece contact (Fig C) providing a continuous link between permanent wiring and jumper wiring, giving provision for monitoring access and overvoltage protection.

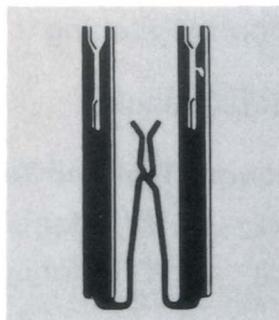


Fig D

DISCONNECTION MODULES have two piece contacts (Fig D) normally closed, incorporating a disconnection facility. This gives all the features as above plus the added advantage of individual pair disconnection and four wire test access.

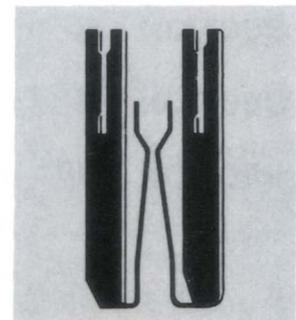


Fig E

SWITCHING MODULES have two piece contacts (Fig E) normally open to allow connection by one of the KRONE range of 4 pole Bridging Plugs, Test Leads or Patch Cords.

APPLICATIONS AND ADVANTAGES

APPLICATIONS

BUILDING WIRING, TELECOMMUNICATIONS, SECURITY AND DATA

in European and Tropical climates (Test according to climate 40/92 DIN 50015)

in corrosive industrial or salt laden air (Reliability Test to DIN 40046)

in high vibration environments, tested to BS 2011 Part 2.

ADVANTAGES

- Insulation displacement contacts
- Gas tight connection
- Two wires per contact
- Individual pair disconnection structure
- One push wire insertion
- Wire-stripping free
- Screw free
- Solder free
- No wire wrapping
- Front administered
- Only one inexpensive tool
- No electrical, pneumatic or hydraulic power
- Quick labour saving installation
- Space saving, clearly arranged
- Ten pair and eight pair modules
- PCB mounted modules (including 3 & 4 wire)
- Protection facility
- Test and patching cords

SPECIFICATION

KRONE Products used for providing connection between a Public Telephone Operator (PTO) Network Termination Point (NTP) and approved Telecoms Apparatus comply with OfTel approval NS/G/23/L100005.

KRONE LSA-PLUS® meets the requirements of British Telecom specification D2920A for solderless terminations.

KRONE (UK) Technique Limited is a BSI Registered Firm of Assessed Capability for the manufacture of telecommunication equipment.

TECHNICAL DATA

LSA-PLUS®

KRONE LSA-PLUS® product range encompasses a large number of wire termination modules.

The following technical data represents **typical** values. Please contact KRONE UK for more detailed information on specific products.

TERMINATIONS

Solid wire diameter range

When using wire in the range of 0.4mm to 0.65mm diameter, KRONE LSA-PLUS® modules allow up to two identical wires of the same diameter to be terminated in one contact. Please contact KRONE UK for information on modules for larger diameter wire.

CONDUCTOR	WIRES PER SLOT	RETERMINATIONS
0.4 - 0.65mm	2	>99
0.7 - 0.9mm	1	>9*

* Do not reterminate with a smaller diameter wire

OVER INSULATION: 0.7.....1.4mm

Stranded wire range

No of strands	Maximum Diameter of each strand (mm)	Overall Diameter including insulation (mm)
7	0.15	1.10
7	0.20	1.20
7	0.25	1.20

Please refer to KRONE LSA-PLUS® IDC CABLE REFERENCE GUIDE for further information on suitable stranded wires.

Termination type	Insulation displacement, dry, gas tight
Wire insertion force	40-75 Newtons
Wire pull out force	10.5 Newtons
Wire retention force	75% of wire breaking force

MATERIALS

Plastic components

 PBT, self extinguishing
 VO according to UL94
 Flammability to BT SPEC. M147 Class 1
 Silver plated brass alloy

Contacts

ELECTRICAL DATA

Insulation resistance	>10 ⁵ MΩ
Dielectric strength	>2KV rms
Current carrying capacity	Capacity of conductor
Constant current	Disconnection contact 5KA 8/20μ sec
Surge current	Connection contact 10KA 8/20μ sec
Termination resistance	<1mΩ
Capacitance between adjacent contacts	<5pF

TRANSMISSION DATA

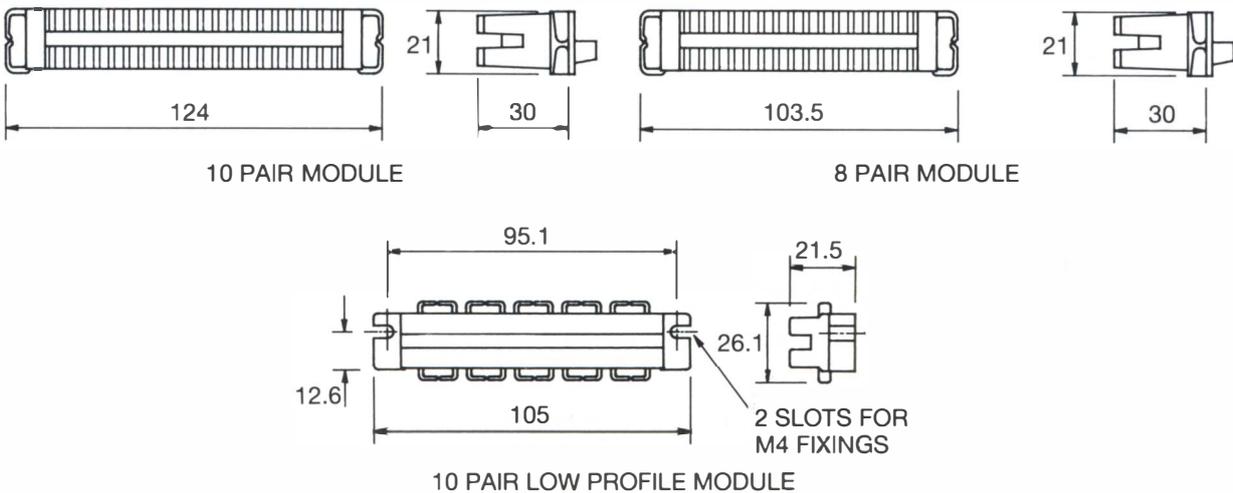
Insertion loss (@ ≤20 MHz) < 0.1dB

Crosstalk Attenuation

 KRONE LSA-PLUS® modules have been extensively tested. The crosstalk performance is affected by specific product design. e.g. 10 pair disconnection module
 Near-End crosstalk attenuation at 20 MHz: Better than -50dB Please contact KRONE UK for detailed product performance information.

ENVIRONMENTAL DATA

Storage temperature	-40°C to +90°C
Operating temperature	-20°C to +80°C
Maximum operating humidity	95% Relative Humidity

MODULE DIMENSIONS (in mm.)

RJ-K SERIES
Crosstalk Attenuation

 EIA/TIA T568B wiring scheme
 Pairs 1 and 3 (worst case) Better than -40 dB at 16 MHz

Resistive Imbalance
Minimum insertions with RJ45 plug

 EIA/TIA T568B wiring scheme Pair 4 (worst case) < 3.2 mΩ
 1000 (when using plugs conforming to ISO 8877/(1987))

RJ45 socket dimensions

Conforms to FCC 68.5, ISO 8877 (1987)

RJ45 contact material

 1.5μm gold plated over 1μm nickel
 (59μ inches over 39μ inches nickel)

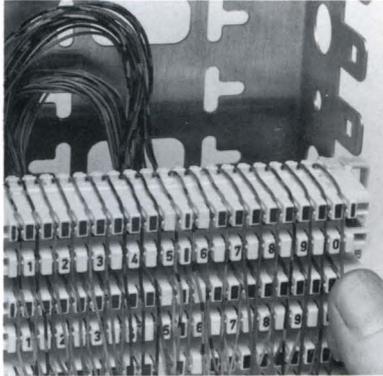
IDC contact material

Silver plated brass alloy

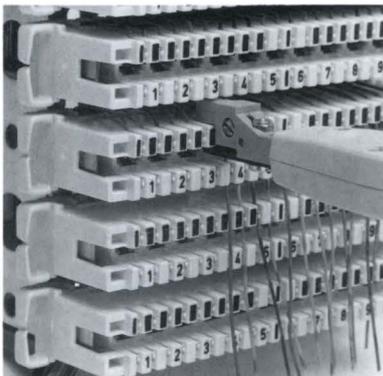
OTHER PRODUCTS

Other products featured in this catalogue for example RFI protector modules, gas discharge tubes etc have detailed specifications available. Please contact KRONE UK for further information.

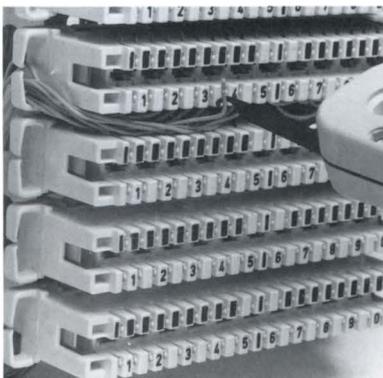
INSTALLATION INSTRUCTIONS



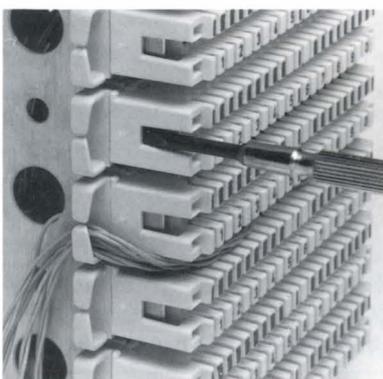
4.4



4.5



6.0



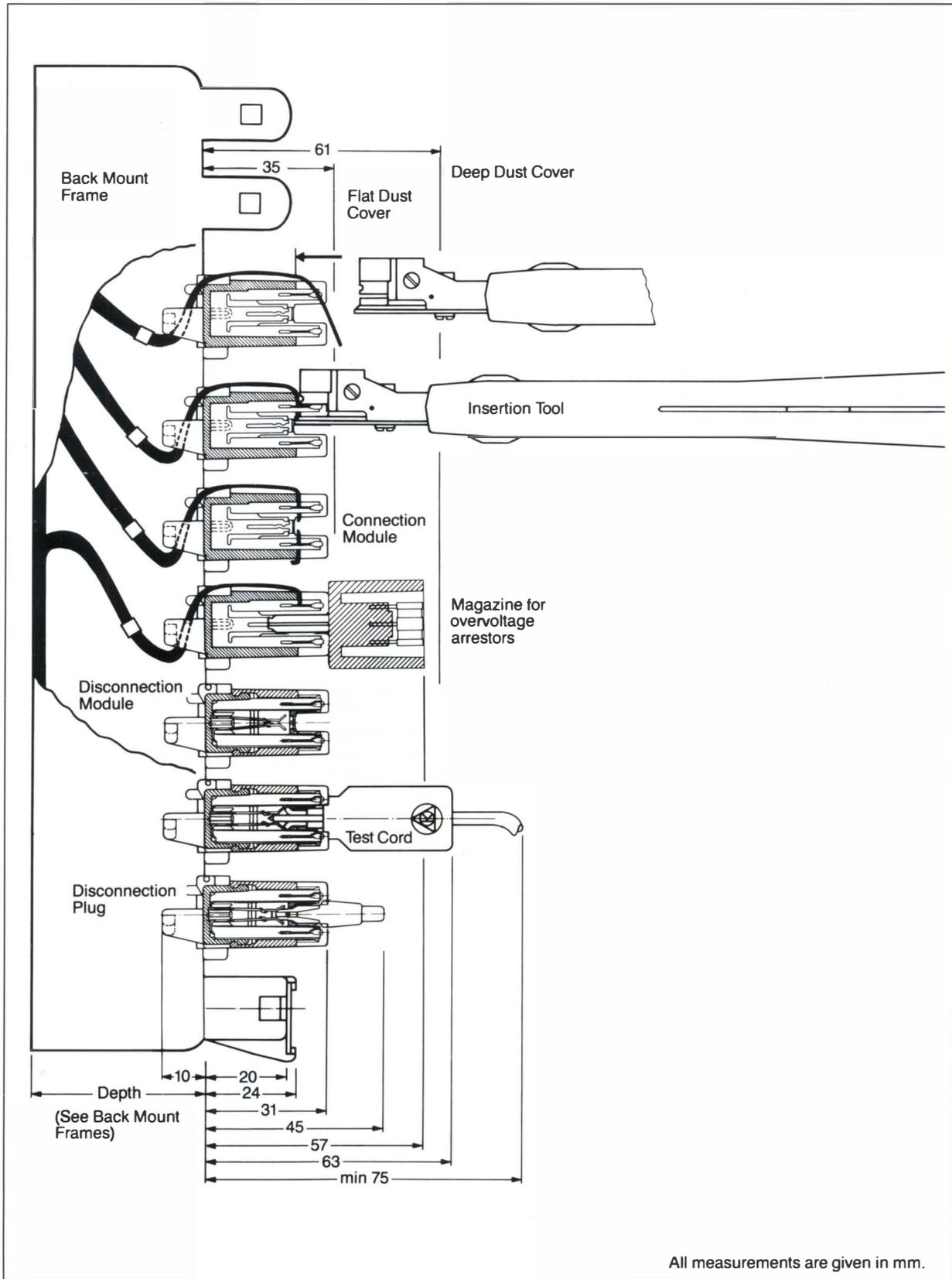
7.0

- 1.0 Fix the back mount frame and ensure a good earth connection is established.
- 2.0 Introduce cable and strip the sheath (free conductor length should equal distance of furthest module + 200mm). Secure cable.
- 3.0 Form wires into 10 pair groups for each allocated position.
- 4.0 Connection of wires.
 - 4.1 Take bottom most module and hold about 50-80mm from the allocated position on the back mount frame.
 - 4.2 Push wire bundle at least 150mm through the module guide loop in the direction of the permanent side and retain by bending wires over.
 - 4.3 Place module in allocated position (surplus wire in a loop).
 - 4.4 Pull wires over the fanning strip and lay into the contact slots.
 - 4.5 Terminate wires with the Insertion Tool.
 - 4.6 Discard the surplus wire.
- 5.0 Jumpering.
 - 5.1 Press jumper wires into the contact slot and connect with the Insertion Tool: pair 1-5 to the left side, pair 6-10 to the right side.
 - 5.2 Lead jumper wires through jumper ring on either side of the module as required.
- 6.0 Wire can be removed using hook housed in the Insertion Tool.
- 7.0 To remove the module disengage module clip with small screwdriver (pressing tags on back mount frame inwards) at both ends of module and pull the module forwards.

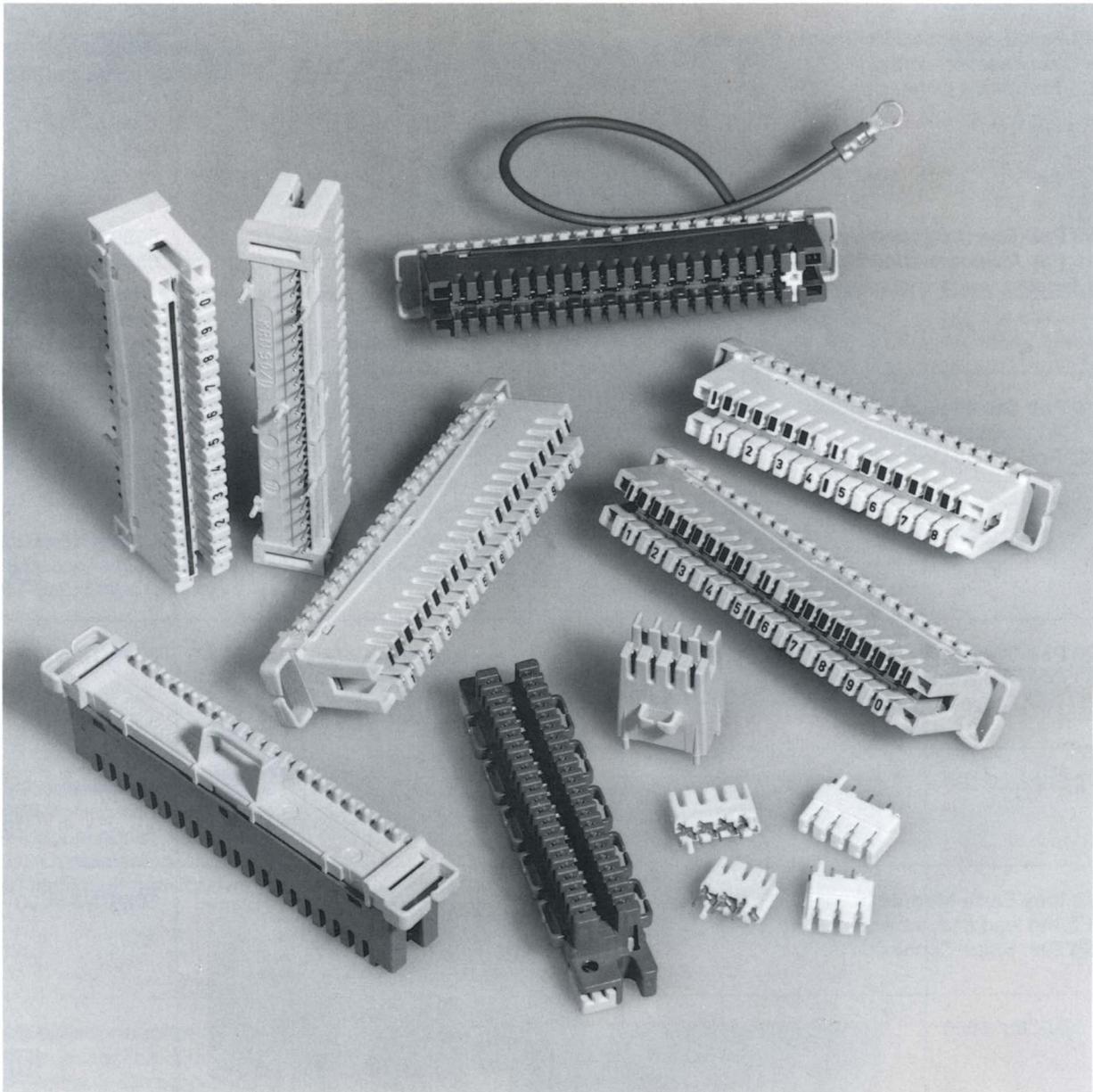
INSERTION TOOL (showing hook)



KEY DIMENSIONS



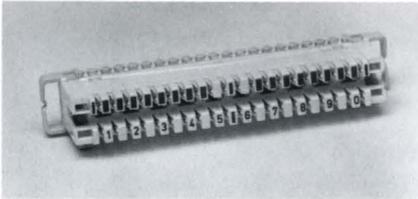
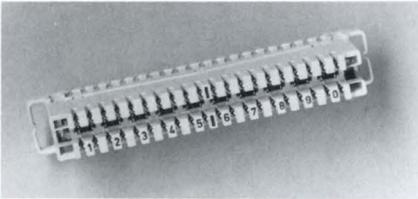
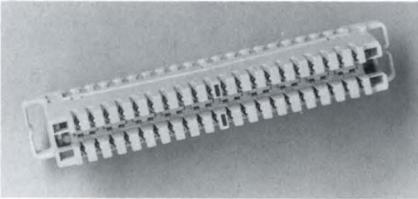
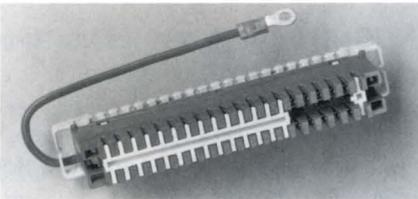
SECTION 1 MODULES



- Incorporate the KRONE LSA-PLUS® IDC technique
- Excellent crosstalk performance
- Suitable for use at high data rates
- Back Mount Frame, Surface or PCB mounted
- Simple to install using industry standard KRONE hand tool (IW2A)
- Easy “tee-in” and bi-directional “Look both ways” testing without disruption to wiring
- Each contact accepts up to 2 wires of the same diameter
- Wide range of complementary accessories available
- Fully compatible with KRONE mounting frames and subracks
- Conform to Ofcom General Approval NS/G/23/L/100005

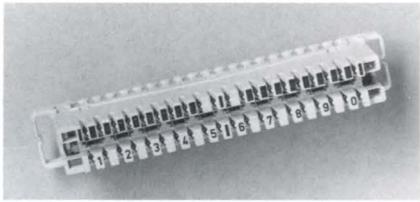
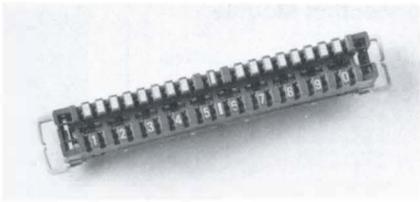
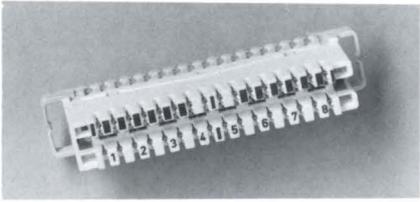
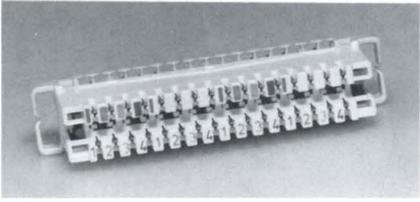
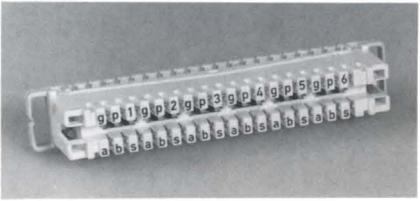
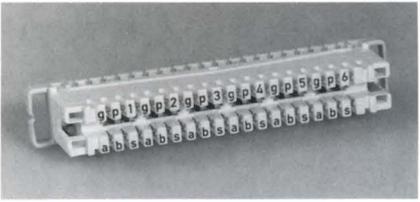
1.1 BACK MOUNT FRAME MODULES

for use with 10 pair frames

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>10 Pair Disconnection Module (Cream)</p> <ul style="list-style-type: none"> Disconnection contacts <p>BT Ref: Strips Connexion 237A</p> <p>10 Pair Disconnection Module (Green) 10 Pair Disconnection Module (Blue)</p> <ul style="list-style-type: none"> Disconnection contacts 		<p>6089/1/810/00</p> <p>6089/1/811/00 6089/1/812/00</p> <p>Pack Qty 10</p>
<p>10 Pair Connection Module</p> <ul style="list-style-type: none"> Connection contacts <p>BT Ref: Strips Connexion 237B</p>		<p>6089/1/820/00</p> <p>Pack Qty 10</p>
<p>20 Pair Connection Module</p> <ul style="list-style-type: none"> Isolated disconnection contacts <p>BT Ref: Strips Connexion 237C</p>		<p>6089/1/830/00</p> <p>Pack Qty 10</p>
<p>76 Way Earth Module (Red)</p> <ul style="list-style-type: none"> Earth lead and terminal ring <p>BT Ref: Strips Connexion 237D</p>		<p>6089/1/840/00</p> <p>Pack Qty 10</p>
<p>20 Way Earth Module (Red)</p> <ul style="list-style-type: none"> Earth lead and terminal ring <p>BT Ref: Strips Connexion 237E</p>		<p>6089/1/841/00</p> <p>Pack Qty 10</p>

1.1 BACK MOUNT FRAME MODULES

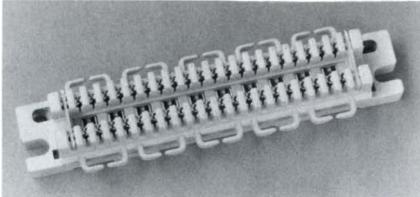
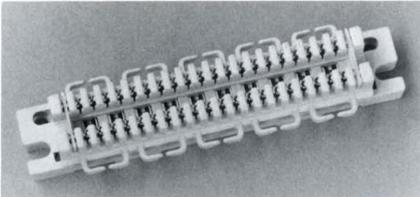
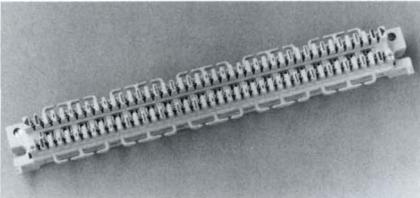
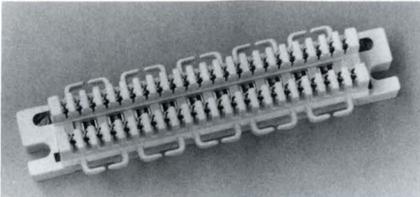
for use with 8 and 10 pair frames

DESCRIPTION	ILLUSTRATION	KRONE NO
80 Way Commoning Module BT Ref: Strips Connexion 237F		6089/1/842/00 Pack Qty 10
10 Pair Switching Module (Brown) <ul style="list-style-type: none"> • Switching contacts • Module remains disconnected until terminated via a patch plug or bridging plug • Offers a high density data patching capability 		6089/1/851/00 Pack Qty 10
8 Pair Disconnection Module <ul style="list-style-type: none"> • Disconnection contacts BT Ref: Strips Connexion 243A		6036/1/810/00 Pack Qty 10
8 Pair Switching Module <ul style="list-style-type: none"> • Switching contacts • Module remains disconnected until terminated via a patch plug • Offers high density data patching capabilities 		6036/1/850/00 Pack Qty 10
ABS Disconnection Module <ul style="list-style-type: none"> • Disconnection contacts • Configured in six groups of three contacts for one pair and screen • Provides a means of terminating screened cables for continuity 		6504/1/810/00 Pack Qty 10
ABS Switching Module <ul style="list-style-type: none"> • Switching contacts • Module remains disconnected until accessed via a patch cord 		6504/1/850/00 Pack Qty 10



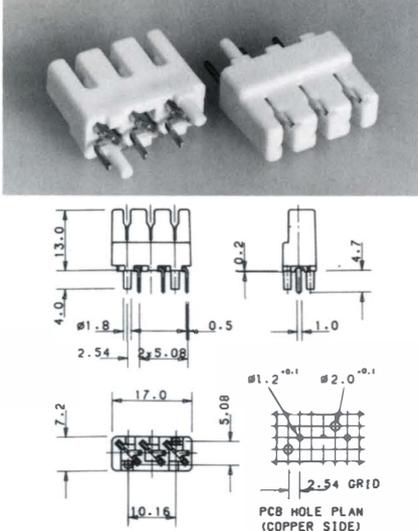
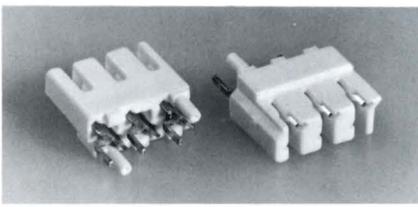
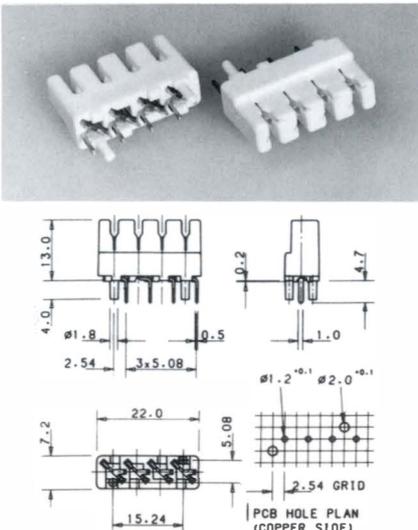
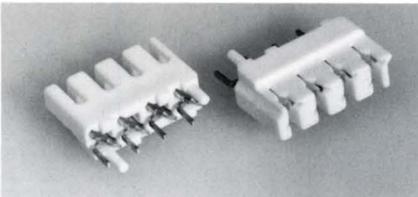
1.2 SURFACE MOUNTED MODULES

or Low Profile Modules for back plate mounting

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>10 Pair Low Profile Connection Module</p> <ul style="list-style-type: none"> • Connection contacts • Two earth contacts • Centre to centre fixing dimension 96mm <p>BT Ref: Strips Connexion 241A</p>		<p>6196/1/001/11</p> <p>Pack Qty 10</p>
<p>10 Pair Low Profile Connection Module</p> <ul style="list-style-type: none"> • Connection contacts • Centre to centre fixing dimension 96mm <p>BT Ref: Strips Connexion 241B</p>		<p>6196/1/007/11</p> <p>Pack Qty 10</p>
<p>20 Pair Low Profile Connection Module</p> <ul style="list-style-type: none"> • Connection contacts • Centre to centre fixing dimension 170mm <p>BT Ref: Strips Connexion 242A</p>		<p>6196/2/002/00</p> <p>Pack Qty 10</p>
<p>88 Way Low Profile Earth Module (Red)</p> <ul style="list-style-type: none"> • Two screw terminations • Commoned to earth terminal 		<p>6196/1/003/10</p> <p>Pack Qty 10</p>

1.3 PCB MOUNTED MODULES

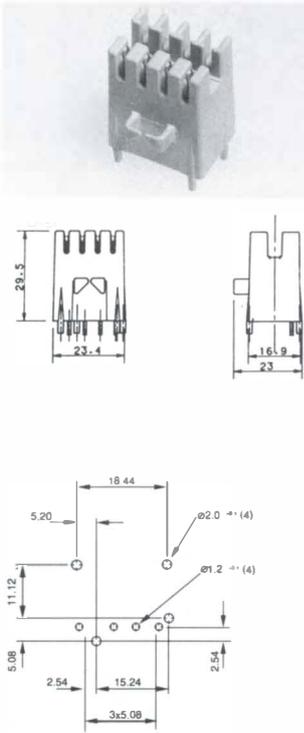
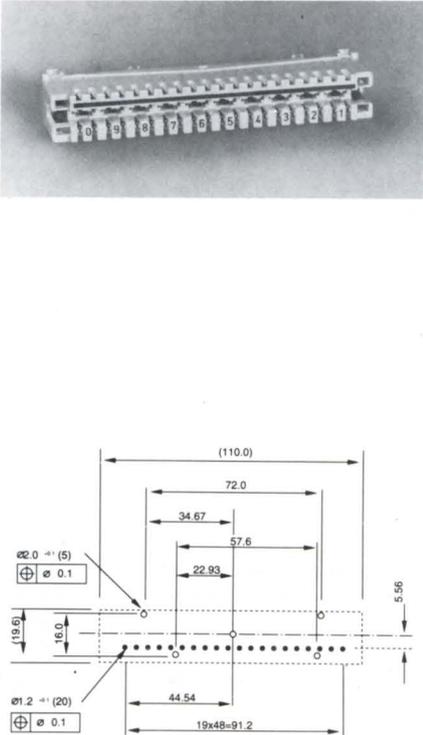
A method of connecting IDC terminations to a PCB

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>3 Way PCB Connection Module</p> <ul style="list-style-type: none"> • Connection contacts • PCB solder tails • Fixing posts for heat staking or ultrasonic welding • Castellations provide a small clearance gap between the module body and PCB facilitating flux removal etc <p>BT Ref: Strips Connexion 238A</p>		<p>6048/1/001/03</p> <p>Pack Qty 1000</p>
<p>3 Way PCB Connection Module Dovetail</p> <ul style="list-style-type: none"> • As above but for space saving applications allowing the 5.08 mm PCB pitch to be maintained between adjacent modules • Note: use only 0.4 to 0.5mm diameter wire 		<p>6048/1/003/03</p> <p>Pack Qty 1000</p>
<p>4 Way PCB Connection Module</p> <ul style="list-style-type: none"> • Connection contacts • PCB solder tails • Fixing post for heat staking or ultrasonic welding • Castellations provide a small clearance gap between the module body and PCB, facilitating flux removal etc. <p>BT Ref: Strips Connexion 239A</p>		<p>6048/1/001/04</p> <p>Pack Qty 1000</p>
<p>4 Way PCB Connection Module Dovetailed</p> <ul style="list-style-type: none"> • As above but for space saving applications allowing the 5.08mm PCB pitch to be maintained between adjacent modules • Note: use only 0.4 to 0.5mm diameter wire 		<p>6048/1/003/04</p> <p>Pack Qty 1000</p>

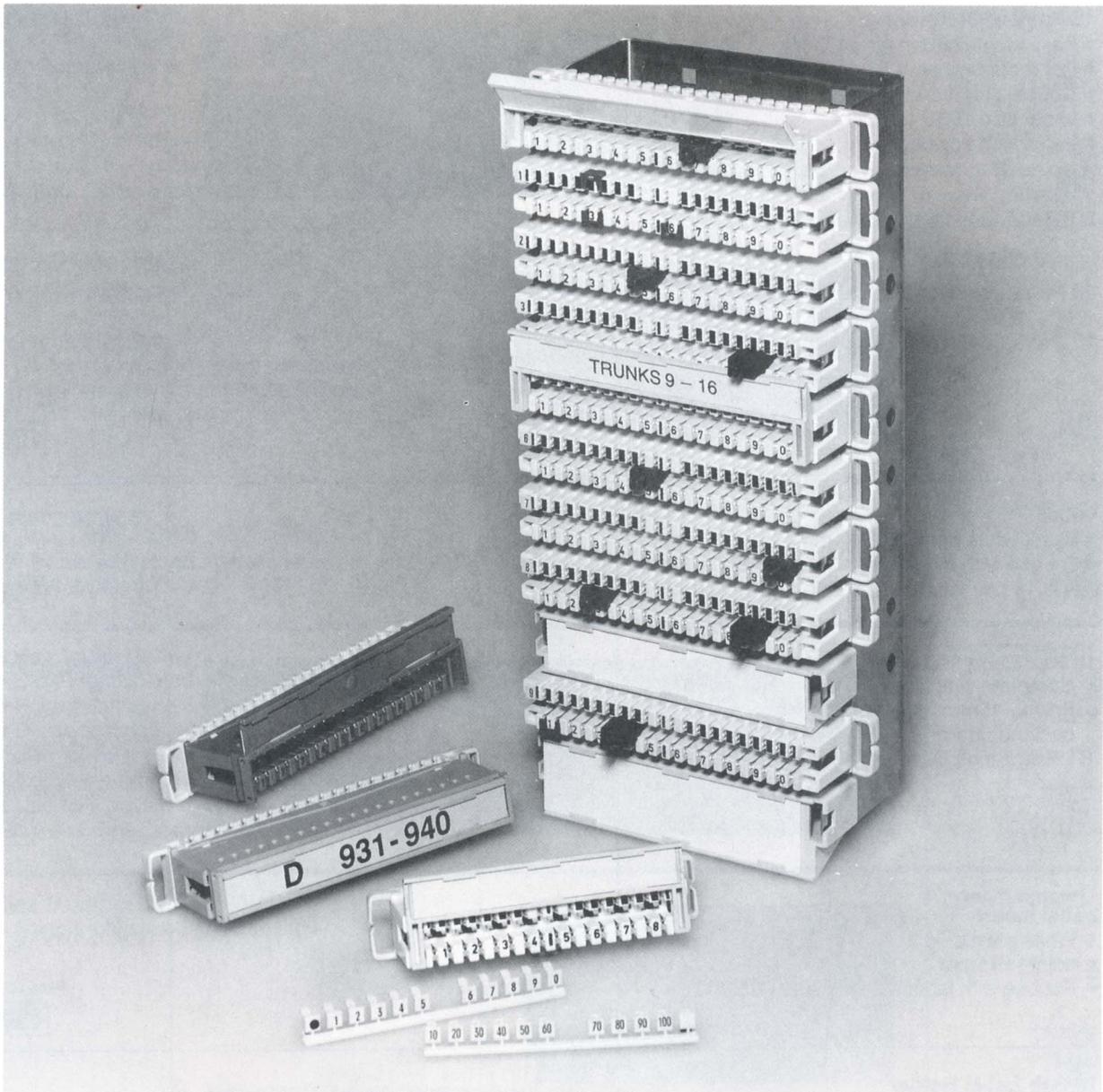


1.3 PCB MOUNTED MODULES

A method of connecting IDC terminations to a PCB

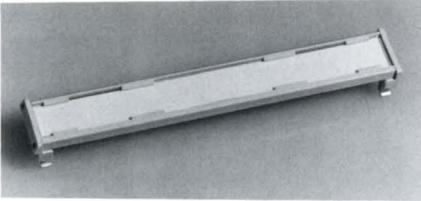
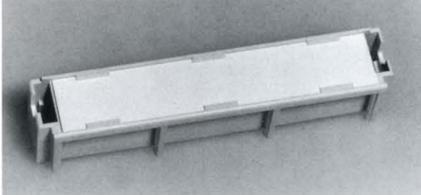
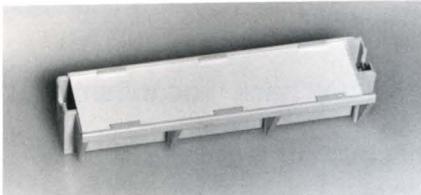
DESCRIPTION	ILLUSTRATION	KRONE NO
<p>2 Pair PCB Disconnection Module</p> <ul style="list-style-type: none"> • Disconnection contacts • With PCB to IDC disconnection contacts • PCB solder tails <p>BT Ref: Strips Connexion 244A</p>		<p>6426/1/015/00</p> <p>Pack Qty 100</p>
<p>10 Pair PCB Disconnection Module</p> <ul style="list-style-type: none"> • PCB mount with disconnection test and monitor access • PCB to IDC disconnection contacts • Printed 1-0 • Printed 0-1 		<p>6426/1/011/00 6426/1/011/01</p> <p>Pack Qty 10</p>

SECTION 2 LABELS AND DESIGNATION

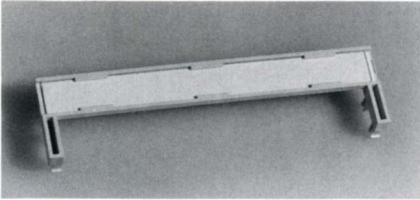
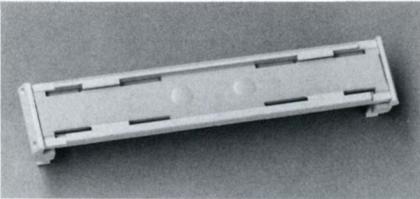
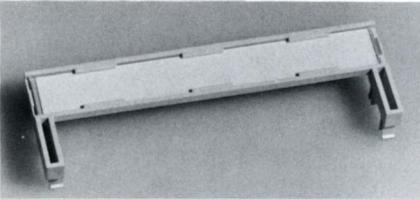
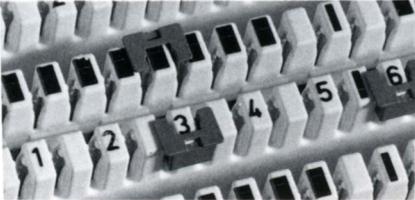


- Available for 8 or 10 pair back mount frames or 8 or 10 pair modules
- Allow easy identification of terminations
- No need to remove when using test plugs
- Range includes hinged label holders
- Labels made of strong card with protective plastic covers
- Label holders available in blue, green or grey

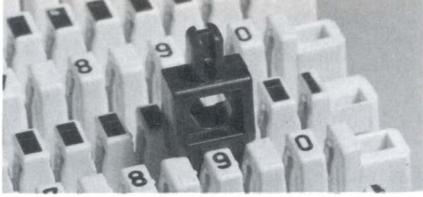
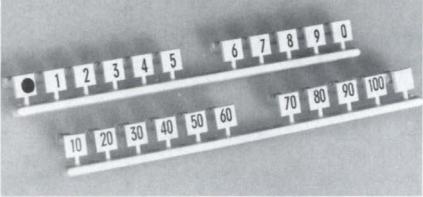
2 LABELS AND DESIGNATION

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>10 Pair Label Holder</p> <ul style="list-style-type: none"> • Easy identification of terminations • For mounting on a 10 pair module • Double sided and hinged with clear covers • Label size 103 x 11mm • Label to be ordered separately • No need to remove when using test plugs or inserting wires or jumper terminations <p>BT Ref: Strips Designation 51A</p>		<p>6092/1/810/00</p>
<p>10 Pair Label Holder (Green)</p>		<p>6092/1/811/00</p>
<p>10 Pair Label Holder (Blue)</p>		<p>6092/1/812/00</p> <p>Pack Qty 100</p>
<p>Label</p> <ul style="list-style-type: none"> • Blank white card 103 x11mm • For use with hinged label holder 6092/1/810/00 and 10 pair label holder strip 6092/1/840/00 		<p>6534/1/001/00</p> <p>Pack Qty 100</p>
<p>10 Pair Label Holder</p> <ul style="list-style-type: none"> • Complete with label • height=15mm, taking one position on backmount frame <p>BT Ref: Strips Designation 53A</p>		<p>6092/1/820/00</p> <p>Pack Qty 10</p>
<p>Label Insert</p> <ul style="list-style-type: none"> • White plastic • height =15mm • For use with label holder 6092/1/820/00 		<p>6092/3/019/02</p> <p>Pack Qty 100</p>
<p>10 Pair Label Holder</p> <ul style="list-style-type: none"> • Complete with description label • height=22mm, taking one and a half positions on backmount frame <p>BT Ref: Strips Designation 54A</p>		<p>6092/1/830/00</p> <p>Pack Qty 10</p>
<p>Label Insert</p> <ul style="list-style-type: none"> • White plastic • height =22mm • For use with label holder 6092/1/830/00 		<p>6092/3/019/00</p> <p>Pack Qty 100</p>

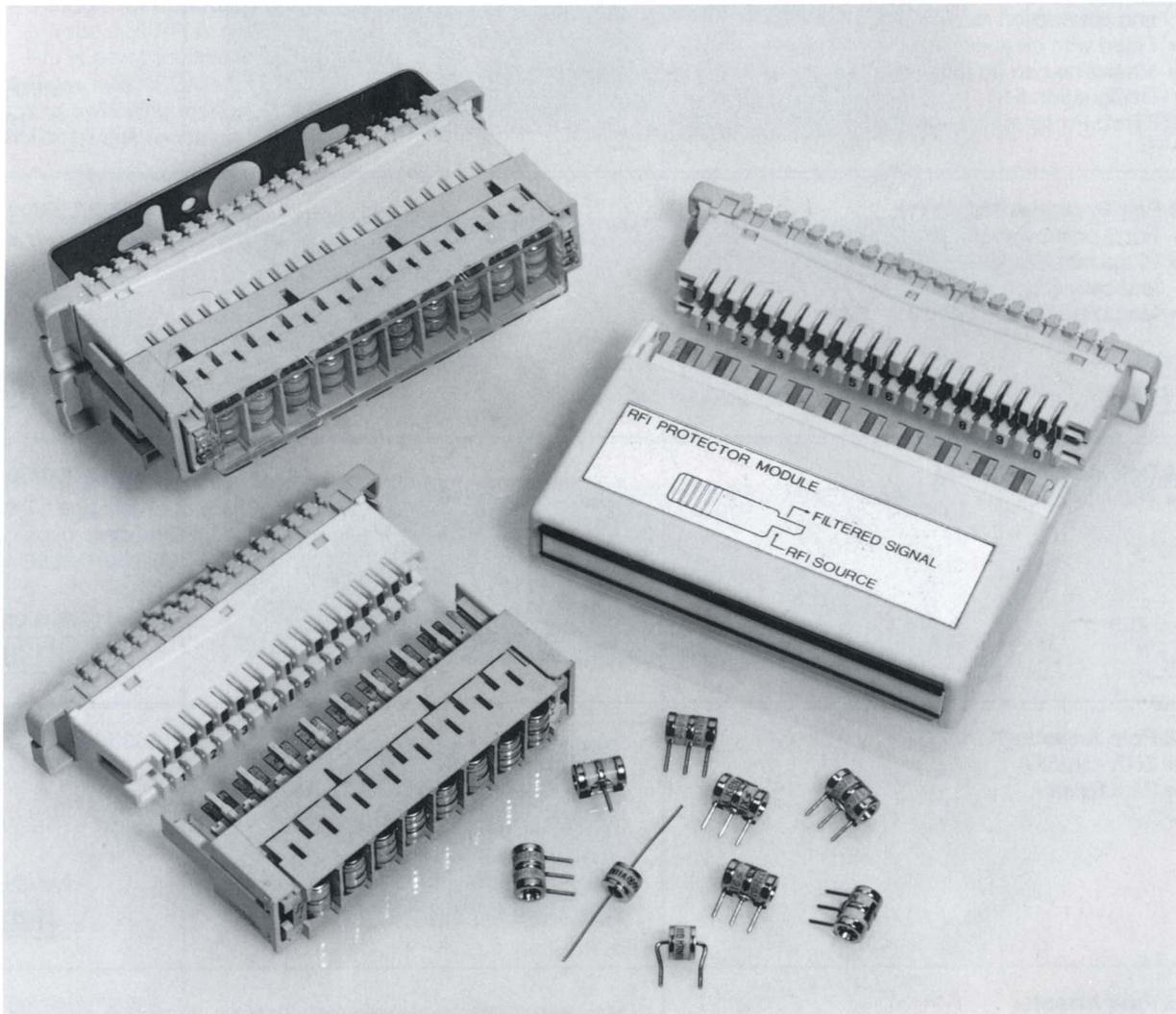
2 LABELS AND DESIGNATION

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>10 Pair Label Strip</p> <ul style="list-style-type: none"> • Easy identification of connections • Blank description label 103mmx11mm with clear cover • For mounting on a 10 pair module • Use only on 30mm pitch backmount frames • No need to remove when using test plugs <p>BT Ref: Strips Designation 56A</p>		<p>6092/1/840/00</p> <p>Pack Qty 10</p>
<p>8 Pair Label Holder</p> <ul style="list-style-type: none"> • Double sided and hinged • Clear cover • For mounting on 8 pair module • No need to remove when using test plugs or inserting wires or jumper terminations • Order label separately 		<p>6036/2/005/00</p> <p>Pack Qty 100</p>
<p>Label</p> <ul style="list-style-type: none"> • Blank white card 80mmx11mm • For use with hinged label holders 6036/2/005/00 & 6092/1/850/00 		<p>6534/1/003/00</p> <p>Pack Qty 100</p>
<p>8 Pair Label Holder</p> <ul style="list-style-type: none"> • Easy identification of connections • For mounting on 8 pair module • Blank description label 83mmx11mm with clear cover • No need to remove when using test plugs • Use only on 30mm pitch backmount frames <p>BT Ref: Strips Designation 57A</p>		<p>6092/1/850/00</p> <p>Pack Qty 10</p>
<p>Red Marking Caps</p> <ul style="list-style-type: none"> • For priority circuit identification 		<p>6089/3/006/00</p> <p>Pack Qty 100</p>

2 LABELS AND DESIGNATION

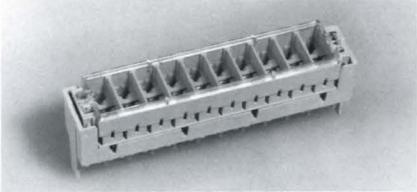
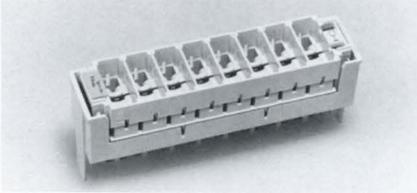
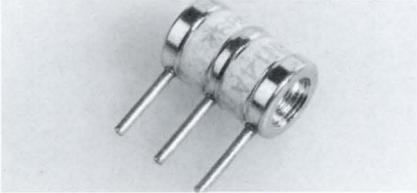
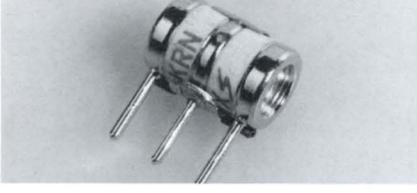
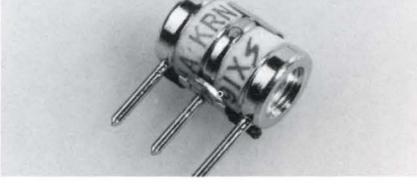
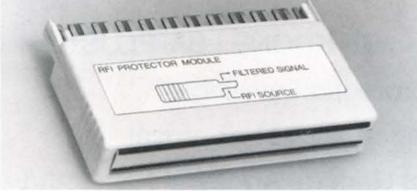
DESCRIPTION	ILLUSTRATION	KRONE NO
<p>1 Pair Disconnection Plug (Black)</p> <ul style="list-style-type: none"> • For opening disconnection contacts <p>BT Ref: Wedges Locking 23A</p>		<p>6089/3/055/05</p> <p>Pack Qty 100</p>
<p>1 Pair Blind Plug (Red)</p> <ul style="list-style-type: none"> • Prevents disconnection of particular lines • Prevents access to test points <p>BT Ref: Wedges Locking 24A</p>		<p>6089/3/056/00</p> <p>Pack Qty 100</p>
<p>Grey Plug Number Sets</p> <ul style="list-style-type: none"> • 1-9 • 10-100 		<p>6089/3/023/00 6089/3/023/01</p> <p>Pack Qty 100</p>

SECTION 3 PROTECTION

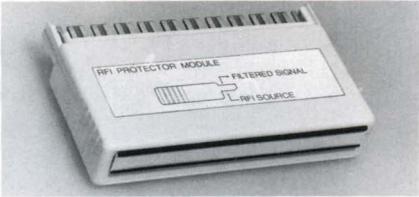
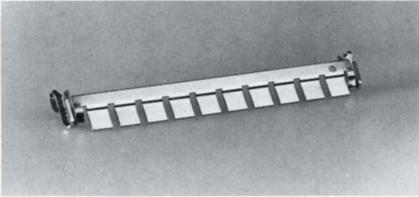
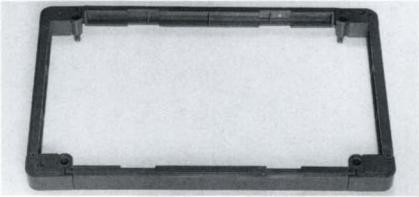


- Protection against the effects of lightning, over voltage, over current and RFI
- Fully compatible with KRONE LSA-PLUS®
- PCB mounted protection available
- CCITT conformance and BT approval
- Conform to Ofcom General Approval NS/G/23/L/100005 (where applicable)

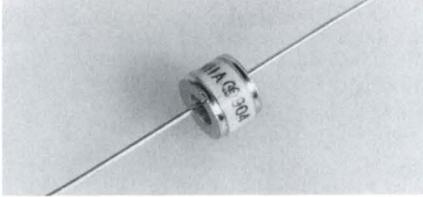
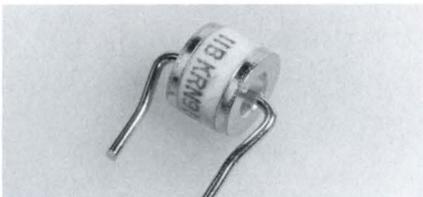
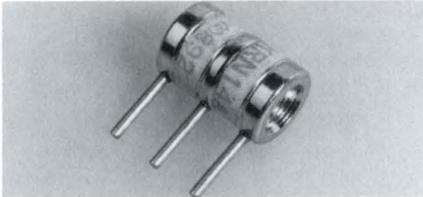
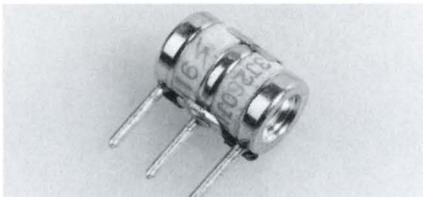
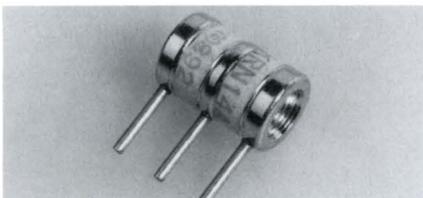
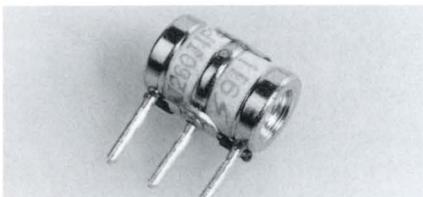
3.1 LSA-PLUS® PROTECTION

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>10 Pair Protector Magazine</p> <ul style="list-style-type: none"> • For 3 pole overvoltage arresters • Plugs into KRONE LSA-PLUS® disconnection and connection modules • Fitted with clear cover • Magazine can be fitted with Strips Designation 51A <p>BT Ref: Protector Mounting 5B</p>		<p>6535/1/010/00</p> <p>Pack Qty 10</p>
<p>8 Pair Protector Magazine</p> <ul style="list-style-type: none"> • For 3 pole overvoltage arresters • Plugs into KRONE LSA-PLUS® disconnection and connection modules • Magazine can be fitted with 8 pair label holder 		<p>6036/2/003/01</p> <p>Pack Qty 10</p>
<p>3 Pole Arrester (K14A)</p> <ul style="list-style-type: none"> • 260V-5A/5KA 		<p>6535/3/003/00</p> <p>Pack Qty 100</p>
<p>3 Pole Arrester(K14A/1)</p> <ul style="list-style-type: none"> • 260V-5A/5KA • With failsafe 		<p>6535/3/002/00</p> <p>Pack Qty 100</p>
<p>3 Pole Arrester</p> <ul style="list-style-type: none"> • 200V-5A/5KA • With failsafe <p>BT Ref: Surge Arrester 21A</p>		<p>6535/3/005/00</p> <p>Pack Qty 100</p>
<p>Plug-in RFI Protector Module</p> <ul style="list-style-type: none"> • Protects equipment from RFI in the range of 100KHz to 40 MHz (LF to VHF) • Plugs into KRONE LSA-PLUS® disconnection and switching modules • For 10 Pair modules 		<p>6535/1/001/00</p> <p>Pack Qty 1</p>

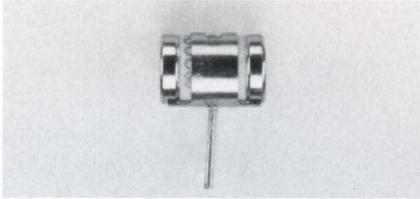
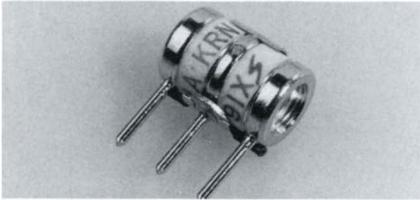
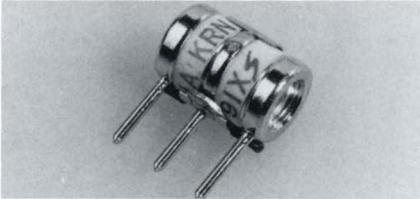
3.1 LSA-PLUS® PROTECTION

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Plug-in RFI Protector Module With Isolated Ground</p> <ul style="list-style-type: none"> • Suitable for applications where ground propagated RFI is a problem, or where RFI is being introduced via an earth lead • Plugs into KRONE LSA-PLUS® disconnection and switching modules • For 10 Pair modules 		<p>6535/1/002/00</p> <p>Pack Qty 1</p>
<p>Earthing Rail 2/10</p> <ul style="list-style-type: none"> • To fit 10 pair LSA-PLUS® modules 		<p>5909/3/041/00</p> <p>Pack Qty 1</p>
<p>Skirt For Connection Box 301A (Brown)</p> <ul style="list-style-type: none"> • To add depth to the box connection to accommodate RFI protection modules 6335/1/001/00 and 6535/1/002/00 		<p>6530/3/014/02</p> <p>Pack Qty 1</p>

3.2 GAS DISCHARGE TUBES

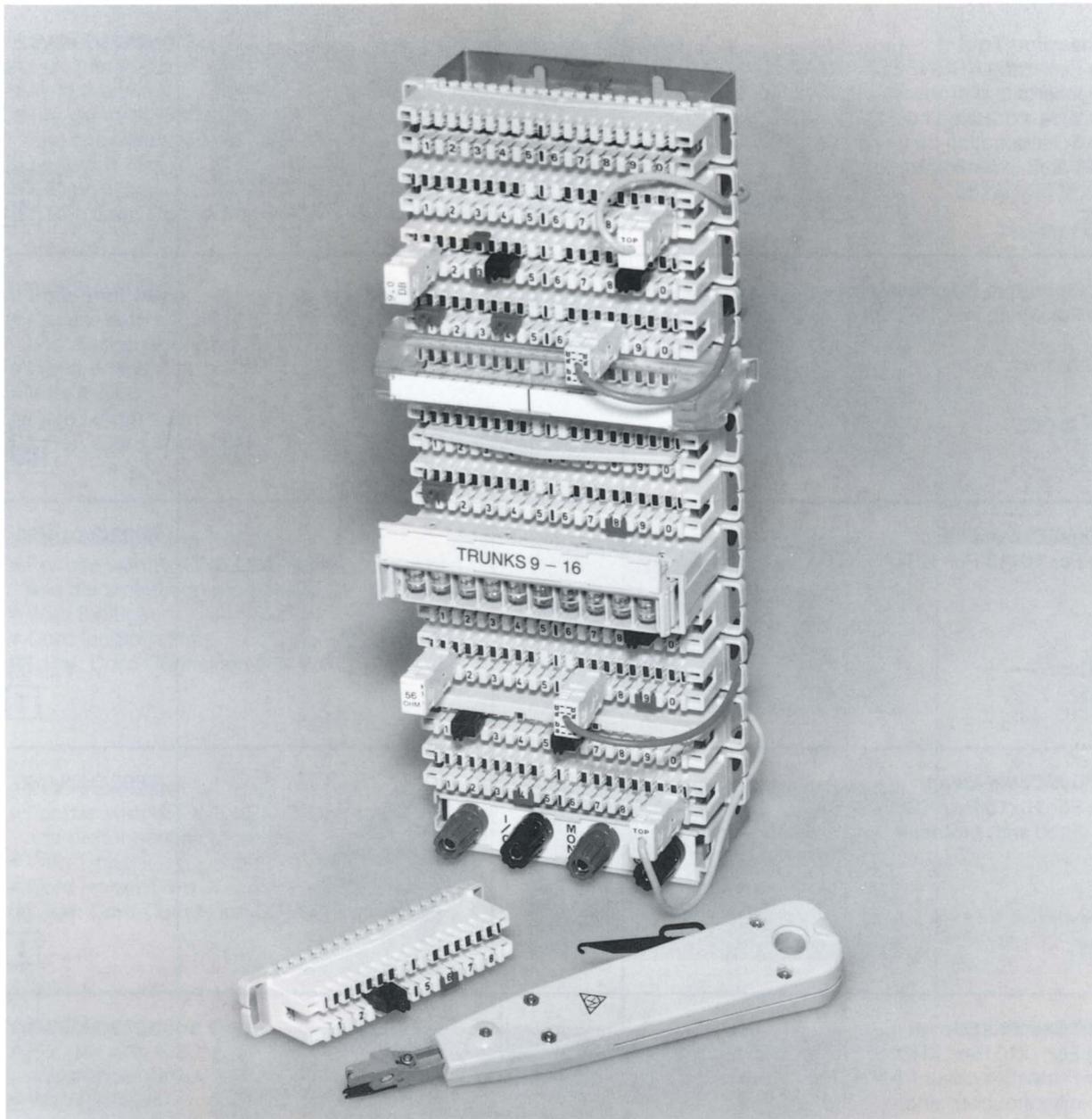
DESCRIPTION	ILLUSTRATION	KRONE NO
<p>2 Pole Arrester</p> <ul style="list-style-type: none"> • 230V-5A/5KA • With tin/lead plated leads for soldering • For PCB applications <p>BT Ref: Surge Arrester 11A</p>		<p>6535/3/001/00</p> <p>Pack Qty 100</p>
<p>2 Pole Arrester</p> <ul style="list-style-type: none"> • 230V-5A/5KA • With nickel plated leads for push fit • For PCB applications <p>BT Ref: Surge Arrester 11B</p>		<p>6535/3/001/01</p> <p>Pack Qty 100</p>
<p>3 Pole Arrester (K14A)</p> <ul style="list-style-type: none"> • 260V-5A/5KA • Nickel plated for push fit 		<p>6535/3/003/00</p> <p>Pack Qty 100</p>
<p>3 Pole Arrester (K14A/1)</p> <ul style="list-style-type: none"> • 260V-5A/5KA • With failsafe 		<p>6535/3/002/00</p> <p>Pack Qty 100</p>
<p>3 Pole Arrester (K14A PCB)</p> <ul style="list-style-type: none"> • 260V-5A/5KA • With tin/lead plated leads for soldering • For PCB applications 		<p>6535/3/008/00</p> <p>Pack Qty 100</p>
<p>3 Pole Arrester (K14A/1 PCB)</p> <ul style="list-style-type: none"> • 260V-5A/5KA • With tin/lead plated leads for soldering • With failsafe • For PCB applications 		<p>6535/3/007/00</p> <p>Pack Qty 100</p>

3.2 GAS DISCHARGE TUBES

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>3 Pole Arrester</p> <ul style="list-style-type: none"> • 200V-5A/5KA • With failsafe <p>BT Ref: Surge Arrester 20A</p>		<p>6535/3/004/00</p> <p>Pack Qty 100</p>
<p>3 Pole Arrester</p> <ul style="list-style-type: none"> • 200V-5A/5KA • With failsafe • Nickel plated for push fit <p>BT Ref: Surge Arrester 21A</p>		<p>6535/3/005/00</p> <p>Pack Qty 100</p>
<p>3 Pole Arrester (21A PCB)</p> <ul style="list-style-type: none"> • 200V-5A/5KA • With tin/lead plated leads for soldering • With failsafe • For PCB applications 		<p>6535/3/020/00</p> <p>Pack Qty 100</p>

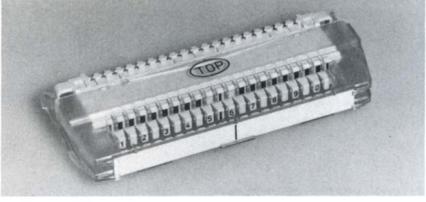
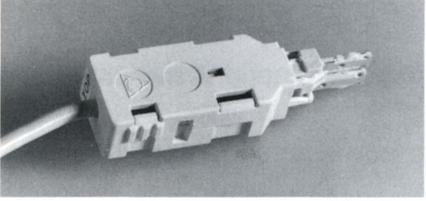
CUSTOMER NOTES

SECTION 4 MODULE ACCESSORIES

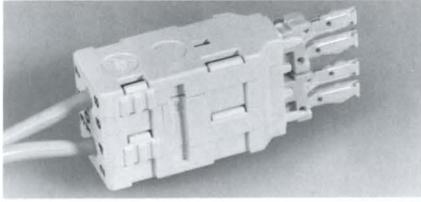
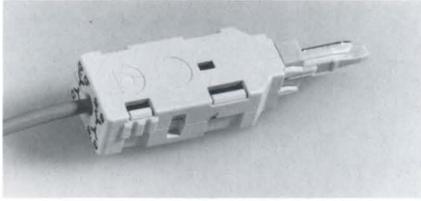
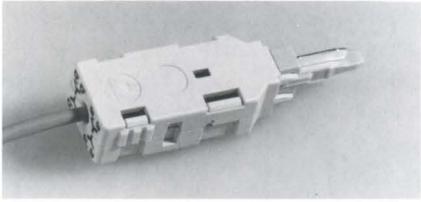
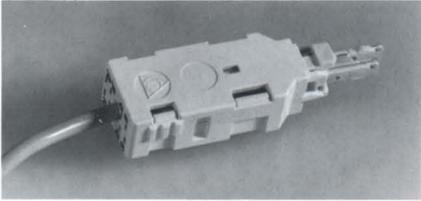
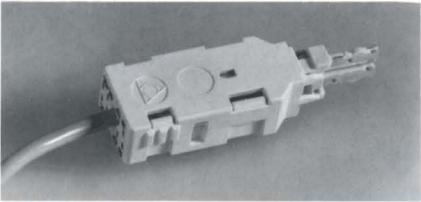
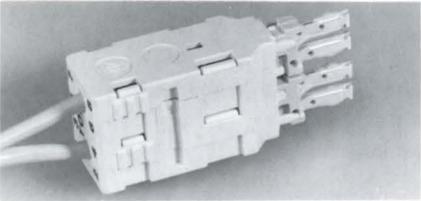


- KRONE's extensive range offers complete flexibility and choice over a wide range of applications
- Simple to use Insertion Tool inserts and crops wires simultaneously
- Dust covers protect terminations against environmental hazards
- Full range of test cords and adaptors
- No break change-over adaptors
- Line conditioning facilities

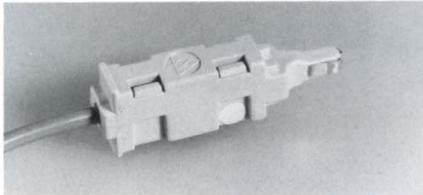
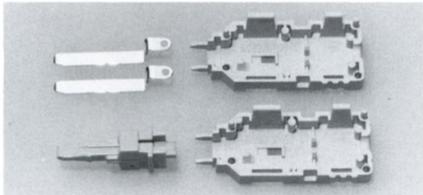
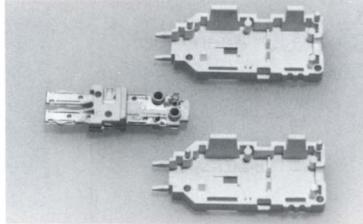
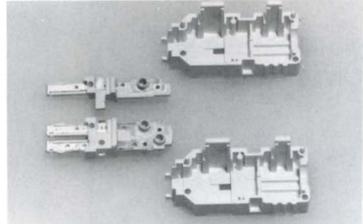
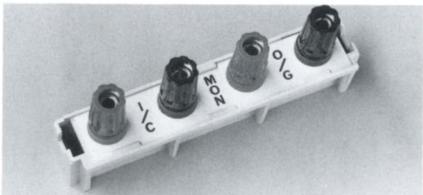
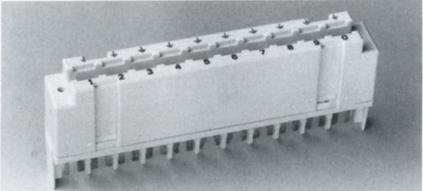
4 MODULE ACCESSORIES

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Insertion Tool</p> <ul style="list-style-type: none"> • For wiring KRONE LSA-PLUS® modules • Inserts and crops wires simultaneously • Wire extraction hook • Scissor action stop clip <p>BT Ref: Inserter Wire 2A</p>		<p>6417/1/810/02</p> <p>Pack Qty 1</p>
<p>Disposable Insertion Tool</p> <ul style="list-style-type: none"> • For wiring KRONE LSA-PLUS® modules 		<p>6417/1/830/00</p> <p>Pack Qty 100</p>
<p>Dust Cover Flat</p> <ul style="list-style-type: none"> • For 10x10 Pair KRONE LSA-PLUS® modules 		<p>6092/3/016/00</p> <p>Pack Qty 1</p>
<p>Dust Cover Deep</p> <ul style="list-style-type: none"> • For 10x10 Pair KRONE LSA-PLUS® modules fitted with protector mounting 5B 		<p>6092/3/034/00</p> <p>Pack Qty 1</p>
<p>10 Pair Dust Cover</p> <ul style="list-style-type: none"> • For 1x10 Pair KRONE LSA-PLUS® module • Protective cover for a module fitted with disconnection and/or dummy plugs • Complete with label 		<p>6089/2/097/00</p> <p>Pack Qty 1</p>
<p>4 Pole Patching Cord</p> <ul style="list-style-type: none"> • Flexible cordage • With 2 plugs • For use with KRONE LSA-PLUS® switching and disconnection modules • Length 0.75m • Length 1.5m <p>BT Ref: Cord Connexion 22A</p>		<p>6529/1/011/00 6529/1/011/01</p> <p>Pack Qty 10</p>

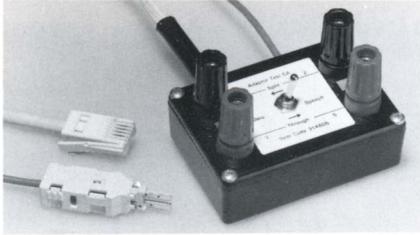
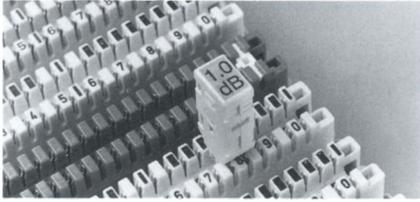
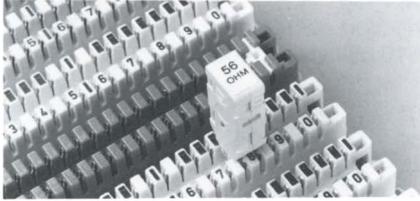
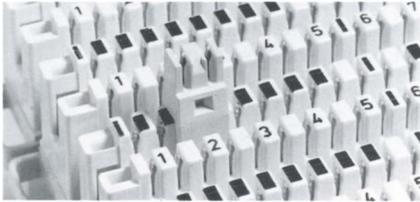
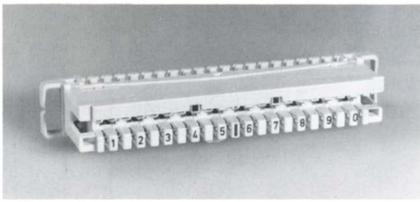
4 MODULE ACCESSORIES

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>8 Pole Patching Cord</p> <ul style="list-style-type: none"> • Flexible cordage • With 2 plugs • For use with KRONE LSA-PLUS® switching and disconnection modules • Length 0.75m • Length 1.5m <p>BT Ref: Cord Connexion 23A</p>		<p>6529/1/010/00 6529/1/010/01</p> <p>Pack Qty 10</p>
<p>2 Pole Test Cord</p> <ul style="list-style-type: none"> • For use with KRONE LSA-PLUS® connection and disconnection modules • Open ended • With 1 plug • Cord length 1.5m <p>BT Ref: Cord Connexion D94469</p>		<p>6529/1/021/01</p> <p>Pack Qty 10</p>
<p>2 Pole Connection Cord</p> <ul style="list-style-type: none"> • For use with KRONE LSA-PLUS® connection and disconnection modules • With 2 plugs • Cord length 1.5m <p>BT Ref: Cord Connexion D94470</p>		<p>6529/1/022/01</p> <p>Pack Qty 10</p>
<p>4 Pole Test Cord</p> <ul style="list-style-type: none"> • For use with KRONE LSA-PLUS® switching and disconnection modules • With 1 plug • Cord length 1.5m <p>BT Ref: Cord Connexion D94471 equivalent</p>		<p>6529/1/041/01</p> <p>Pack Qty 10</p>
<p>4 Pole Connection Cord</p> <ul style="list-style-type: none"> • For use with KRONE LSA-PLUS® switching and disconnection modules • With 2 plugs • Cord length 1.5m <p>BT Ref: Cord Connexion D94473 equivalent</p>		<p>6529/1/042/01</p> <p>Pack Qty 10</p>
<p>8 Pole Test Cord</p> <ul style="list-style-type: none"> • For use with KRONE LSA-PLUS® switching and disconnection modules • Flexible cordage • With 1 plug • 0.75m 		<p>6529/1/006/00</p> <p>Pack Qty 10</p>

4 MODULE ACCESSORIES

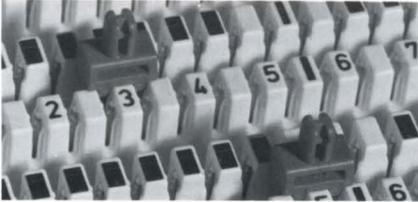
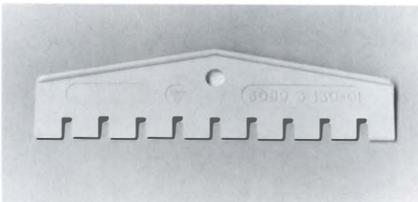
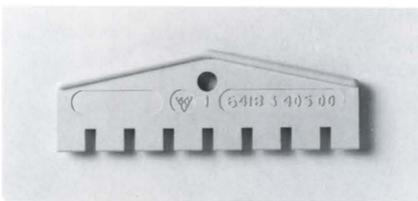
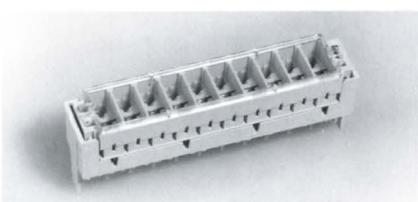
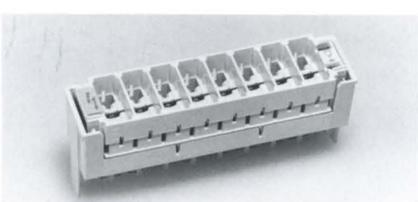
DESCRIPTION	ILLUSTRATION	KRONE NO
<p>2 Pole Test Cord</p> <ul style="list-style-type: none"> • For use with KRONE LSA-PLUS® low profile modules • With 1 plug • Cord length 1.5m <p>BT Ref: Cord Connexion D95737</p>		<p>6529/1/020/01</p> <p>Pack Qty 10</p>
<p>2 Pole Plug Set</p> <ul style="list-style-type: none"> • With 2 contacts • For use with KRONE LSA-PLUS® connection and disconnection modules <p>BT Ref: Plug No.244A</p>		<p>6624/2/201/04</p> <p>Pack Qty 50</p>
<p>4 Pole Plug Set</p> <ul style="list-style-type: none"> • For use with KRONE LSA-PLUS® switching and disconnection modules • With separate contacts <p>BT Ref: Plug No.440A equivalent</p>		<p>6418/2/401/00</p> <p>Pack Qty 50</p>
<p>6 Pole Plug Set</p> <ul style="list-style-type: none"> • For use with KRONE LSA-PLUS® ABS module • Moulded plug assembly for 6 wire circuits 		<p>6417/2/017/00</p> <p>Pack Qty 50</p>
<p>Test Module</p> <ul style="list-style-type: none"> • 4 pole test module • Accepts standard 6mm banana plugs • Located on back mount frame 		<p>6426/1/022/00</p> <p>Pack Qty 5</p>
<p>Test Adaptor</p> <ul style="list-style-type: none"> • 10 pair to earth except when accessed with a 4 pole plug • For testing each contact of a module against the rest of the contacts and earth • For connection and disconnection modules 		<p>6417/2/002/00</p> <p>Pack Qty 1</p>

4 MODULE ACCESSORIES

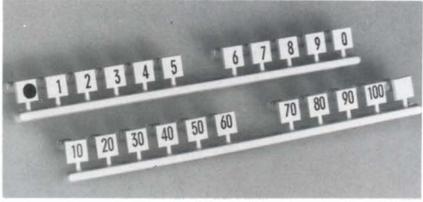
DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Test Adaptor 5A</p> <ul style="list-style-type: none"> • Two position switch marked "through" and "split" • Two red and two black banana sockets to connect appropriate test equipment • Two leads wired parallel (1xline jack plug, 1x4 pole KRONE test plug) <p>BT Ref: Test Adaptor 5A</p>		<p>6426/1/004/01</p> <p>Pack Qty 1</p>
<p>Attenuator Plugs 1.0dB-30.0dB</p> <ul style="list-style-type: none"> • Please ask for standard ratings (**) 		<p>6426/1/020/**</p> <p>Pack Qty 10</p>
<p>Line Resistor Unit 56 Ohms</p> <ul style="list-style-type: none"> • Other values available on request <p>BT Ref: LRU 1A</p>		<p>6426/1/021/00</p> <p>Pack Qty 100</p>
<p>1 Pair Change-over Adaptor</p> <ul style="list-style-type: none"> • Allows 1 pair to be replaced or changed-over when in service without a break in the circuit 		<p>6089/2/093/00</p> <p>Pack Qty 100</p>
<p>10 Pair Change-over Adaptor</p> <ul style="list-style-type: none"> • Allows a KRONE LSA-PLUS® module to be replaced or changed-over when in service without a break in any circuit 		<p>6089/2/081/00</p> <p>Pack Qty 10</p>
<p>Cover Strips</p> <ul style="list-style-type: none"> • For 10 pairs of a module • Restricts access to permanent wiring 		<p>6089/3/050/00</p> <p>Pack Qty 100</p>



4 MODULE ACCESSORIES

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>1 Pair Disconnection Plug (Black)</p> <ul style="list-style-type: none"> For opening disconnection contacts to disconnect line <p>BT Ref: Wedges Locking 23A</p>		<p>6089/3/055/05</p> <p>Pack Qty 100</p>
<p>1 Pair Blind Plug (Red)</p> <ul style="list-style-type: none"> Prevents disconnection of particular lines Prevents access to test points <p>BT Ref: Wedges Locking 24A</p>		<p>6089/3/056/00</p> <p>Pack Qty 100</p>
<p>10 Pair Disconnection Plug</p> <ul style="list-style-type: none"> For opening disconnection contacts in KRONE LSA-PLUS® 10 pair disconnection modules Cut-over applications Can be daisy chained for multiple cut-over <p>BT Ref: Wedges Locking 25A</p>		<p>6418/1/810/00</p> <p>Pack Qty 100</p>
<p>8 Pair Disconnection Plug</p> <ul style="list-style-type: none"> For opening disconnection contacts in KRONE LSA-PLUS® 8 pair disconnection modules Cut-over applications Can be daisy chained for multiple cut-over 		<p>6418/1/811/00</p> <p>Pack Qty 100</p>
<p>10 Pair Protector Magazine</p> <ul style="list-style-type: none"> For 3 pole overvoltage arresters Plugs into KRONE LSA-PLUS® disconnection and connection modules Fitted with clear cover Magazine can be fitted with strips designation 51A <p>BT Ref: Protector Mounting 5B</p>		<p>6535/1/010/00</p> <p>Pack Qty 10</p>
<p>8 Pair Protector Magazine</p> <ul style="list-style-type: none"> For 3 pole overvoltage arresters Plugs into KRONE LSA-PLUS® disconnection and connection modules Magazine can be fitted with 8 pair label holder 		<p>6036/2/003/01</p> <p>Pack Qty 10</p>

4 MODULE ACCESSORIES

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Red Marking Caps</p> <ul style="list-style-type: none"> • For priority circuit identification 		<p>6089/3/006/00</p> <p>Pack Qty 100</p>
<p>Grey Plug Number Sets</p> <ul style="list-style-type: none"> • 1-9 • 10-100 		<p>6089/3/023/00 6089/3/023/01</p> <p>Pack Qty 100</p>



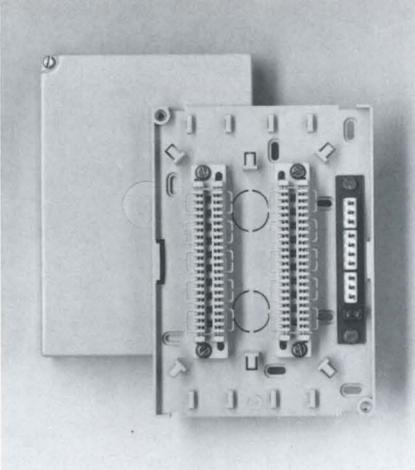
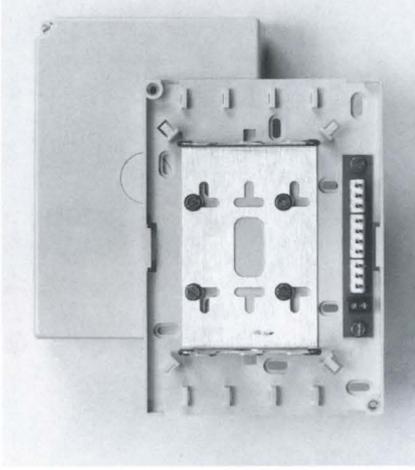
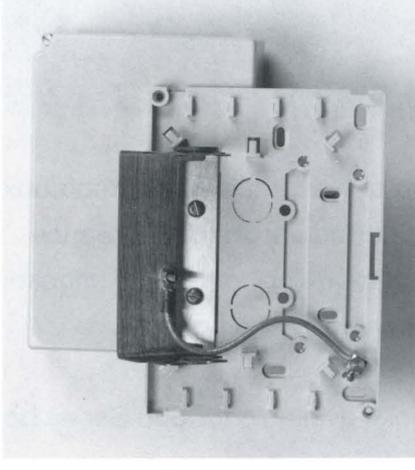
CUSTOMER NOTES

SECTION 5 INTERNAL BOXES & ACCESSORIES

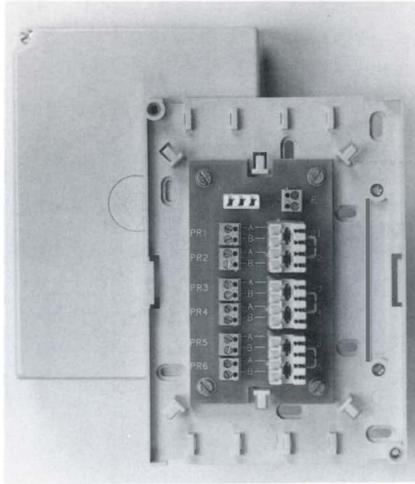
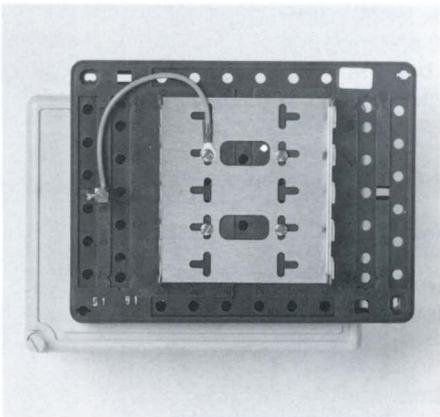
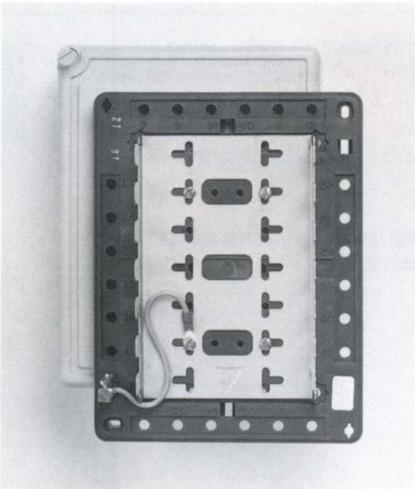


- 200 Series range of low profile connection boxes
- 220 Series deep lidded variant of 200 Series
- 250/300 Series of modular boxes with knockout lids
- 500 Series of lockable, metal boxes
- Cable tie points
- Tamper proof locks available for 300 Series boxes
- BT Approval
- Conform to OFTEL General Approval NS/G/23/L/100005

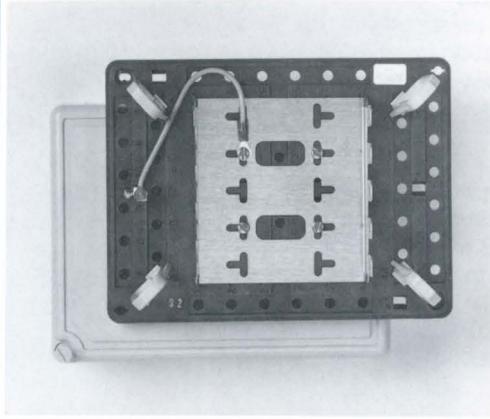
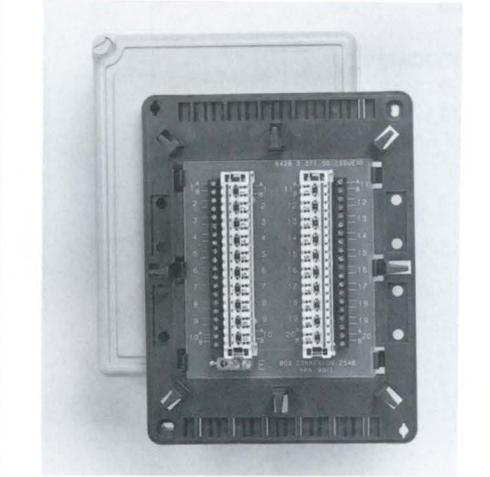
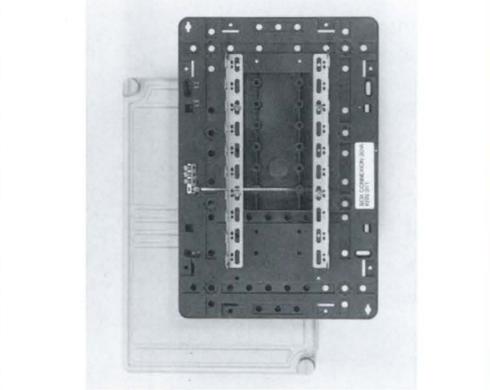
5.1 INTERNAL BOXES

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Connection Box 201C</p> <ul style="list-style-type: none"> • Low profile plastic box for 20 pairs • Specification: <ul style="list-style-type: none"> 1 base 1 lid with 2 screws 2x Strips Connexion 241B 1x 10 way PCB earth strip • Overall size: <ul style="list-style-type: none"> 170mm high x 120mm wide x 35mm deep <p>BT Ref: Box Connexion 201C</p>		<p>6429/1/016/00</p> <p>Pack Qty 1</p>
<p>Connection Box 220A With Backmount Frame</p> <ul style="list-style-type: none"> • Plastic box • Designed to accommodate 3 x 10 pairs KRONE LSA-PLUS® modules • Specification: <ul style="list-style-type: none"> 1 base 1 lid with 2 screws 1 3-way backmount frame 1 x 10 way PCB earth strip • Overall size: <ul style="list-style-type: none"> 170mm high x 120mm wide x 65mm deep 		<p>6429/1/025/00</p> <p>Pack Qty 1</p>
<p>Connection Box 220A With Swing Frame</p> <ul style="list-style-type: none"> • Deep Lidded 200 series plastic box • Designed to accommodate <ul style="list-style-type: none"> 2 Strips Connexion 237 fitted with Protector Mounting 5B • Specification: <ul style="list-style-type: none"> 1 base 1 lid with 2 screws 1 double hinged backmount frame 1 earth post • Overall size: <ul style="list-style-type: none"> 170mm high x 120mm wide x 65mm deep 		<p>6429/1/031/00</p> <p>Pack Qty 1</p>

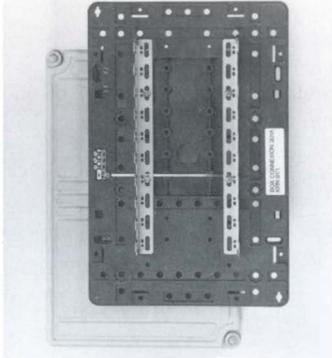
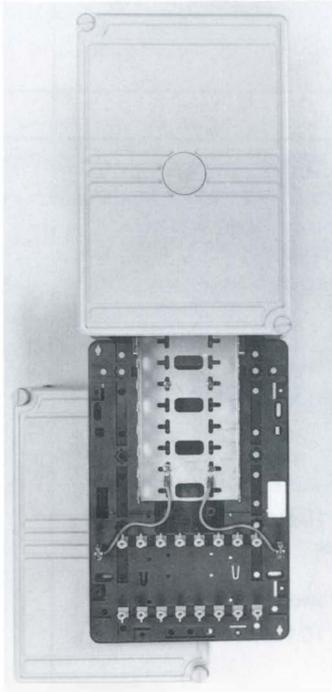
5.1 INTERNAL BOXES

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Connection Box 222</p> <ul style="list-style-type: none"> • Deep lidded 200 series plastic box for 6 pair Network Termination Point (NTP) • 6 pair IDC to screw terminals with disconnection point <p>Specification:</p> <ul style="list-style-type: none"> 1 base 1 lid with 2 screws 3 PCB mounted Strips Connexion 244A and 1 3-way PCB module, Strips Connexion 238A connected to 6 pair screw terminals <ul style="list-style-type: none"> • Overall size: 170mm high x 120mm wide x 65mm deep <p>BT Ref: Box Connexion 222</p>		<p>6429/1/036/00</p> <p>Pack Qty 1</p>
<p>Connection Box 250/5</p> <ul style="list-style-type: none"> • Plastic modular box • Designed to accommodate up to 5 KRONE LSA-PLUS® modules (typically 50 pairs) using Strips Connexion 237 • Removable side and end panels with cable knockouts <p>Specification:</p> <ul style="list-style-type: none"> 1 base and lid 1 backmount frame 5/11/5A 1 earth bar 5A <ul style="list-style-type: none"> • Overall size: 160mm high x 210mm wide x 90mm deep 		<p>6525/1/022/00</p> <p>Pack Qty 1</p>
<p>Connection Box 250/7</p> <ul style="list-style-type: none"> • Plastic modular box • Designed to accommodate up to 7 KRONE LSA-PLUS® modules (typically 70 pairs) using Strips Connexion 237 • Removable side and end panels with cable knockouts <p>Specification:</p> <ul style="list-style-type: none"> 1 base and lid 1 backmount frame 5/11/7A 1 earth bar 5A <ul style="list-style-type: none"> • Overall size: 210mm high x 160mm wide x 90mm deep 		<p>6525/1/024/00</p> <p>Pack Qty 1</p>

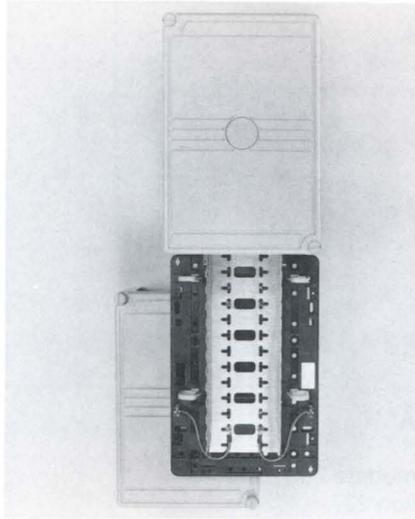
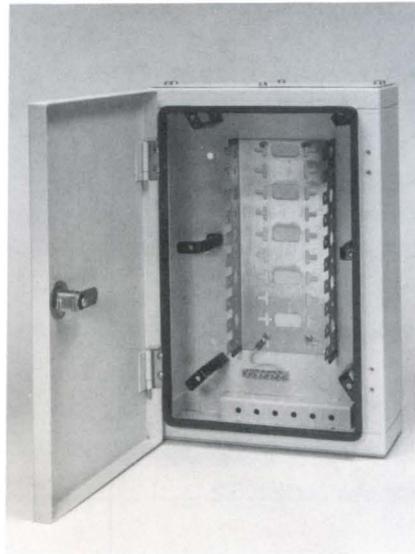
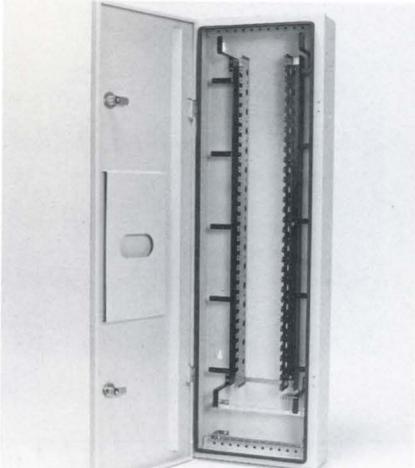
5.1 INTERNAL BOXES

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Connection Box 251</p> <ul style="list-style-type: none"> Plastic modular box Designed to accommodate up to 5 KRONE LSA-PLUS® modules (typically 50 pairs) using Strips Connexion 237 Removable side and end panels with cable knockouts <p>Specifications: 1 base and lid 1 backmount frame 5/11/5A 1 earth bar 5A 4 jumper rings</p> <ul style="list-style-type: none"> Overall size: 160mm high x 210mm wide x 90mm deep 		6525/1/027/00 Pack Qty 1
<p>Connection Box 254B</p> <ul style="list-style-type: none"> Plastic modular box for 20 pairs using 2 PCB mounted 10 pair modules Provides interface between 20 pairs IDC and 20 pairs screw terminals with disconnection (between IDC and screw terminals) Earth facility Removable side and end panels with cable knockouts Integral cable guides <p>Specification: 1 base and lid 2 x 10 pair PCB mounted modules 1 earth bar</p> <ul style="list-style-type: none"> Overall size: 210mm high x 160mm wide x 90mm deep <p>BT Ref: Box Connexion 254B</p>		6525/1/018/00 Pack Qty 1
<p>Connection Box 301A</p> <ul style="list-style-type: none"> Plastic modular box Designed to accommodate 100 pairs using Strips Connexion 237 <p>Specification: 1 base and lid 1 backmount frame 5/30/10A equivalent 1 earth bar</p> <ul style="list-style-type: none"> Overall size: 320mm high x 210mm wide x 120mm deep <p>BT Ref: Box Connexion 301A</p>		6530/1/017/00 Pack Qty 1

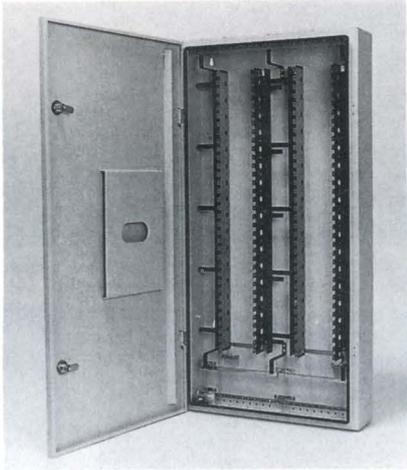
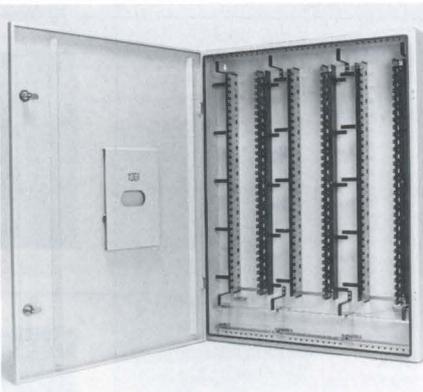
5.1 INTERNAL BOXES

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Connection Box 301A With Tamper Proof Lock</p> <ul style="list-style-type: none"> ● Details as Box 301A but with tooled lock for extra security ● Lock opens with a M4 (7mm) nutspinner (RS P/No. 544-768) 		<p>6530/1/017/30</p> <p>Pack Qty 1</p>
<p>Connection Box 304A</p> <ul style="list-style-type: none"> ● Plastic modular box ● Designed to accommodate 200 pairs using Strips Connexion 237 <p>Specification:</p> <ul style="list-style-type: none"> 2 bases 2 lids 1 backmount frame 5/30/20A 2 earth bars 16 fixing posts 1/DPO/163 for 8 x 226 connectors 2 base clamps <ul style="list-style-type: none"> ● Overall size: 640mm high x 210mm wide x 120mm deep <p>BT Ref: Box Connexion 304A</p>		<p>6530/1/055/00</p> <p>Pack Qty 1</p>
<p>Accessories for 300 Series boxes:</p> <p>For each 226 connector:-</p> <ul style="list-style-type: none"> 1 fixing screw 1/DPO/166 1 M3 (6mm) long screw 1 plate cable fixing 1D 1 cable tie <p>For ordering information see section 5.2</p>		

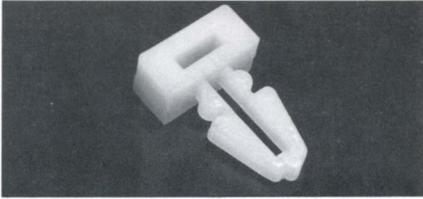
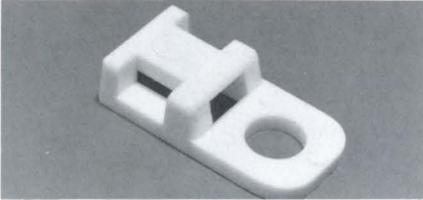
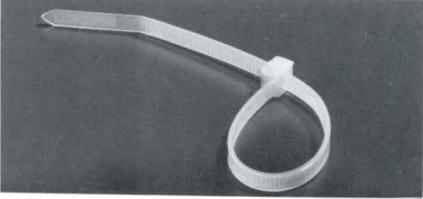
5.1 INTERNAL BOXES

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Connection Box 300 Series (2 base)</p> <ul style="list-style-type: none"> • Plastic modular box • Designed to accommodate 250 pairs using Strips Connexion 237 <p>Specification:</p> <ul style="list-style-type: none"> • 2 bases • 2 lids • 1 backmount frame 5/30/25A • 2 earth bars 5A <ul style="list-style-type: none"> • Overall size: 640mm high x 210mm wide x 120mm deep 		<p>6428/1/290/00</p> <p>Pack Qty 1</p>
<p>Connection Boxes 500 Series</p> <ul style="list-style-type: none"> • Lightweight steel box for 8 and 10 Pair modules • With removable/reversible hinged doors • Jumper guides and earth clamps <p>100 Pair Version using 10 Pair modules</p> <ul style="list-style-type: none"> • One backmount frame (as shown) • Overall size: 350mm high x 240mm wide x 110mm deep. <p>200 Pair Version using 10 Pair modules</p> <ul style="list-style-type: none"> • One backmount frame • Overall size: 700mm high x 240mm wide x 110mm deep <p>200 Pair Version using 10 Pair modules</p> <ul style="list-style-type: none"> • Two backmount frames • Overall size: 350mm high x 420mm wide x 110mm deep <p>400 Pair Version using 10 Pair modules</p> <ul style="list-style-type: none"> • Two backmount frames • Overall size: 700mm high x 420mm wide x 110mm deep 		<p>6428/2/417/00</p> <p>6428/2/404/00</p> <p>6428/2/397/00</p> <p>6428/2/403/00</p> <p>Pack Qty 1</p>
<p>Connection Box 510</p> <ul style="list-style-type: none"> • Lightweight steel box for 8 and 10 Pair modules • Equipped to accommodate 340 pairs using 10 Pair modules or 272 pairs using 8 Pair modules <p>Specification:</p> <ul style="list-style-type: none"> • 1 box with removable/reversible hinged door • 34 way backmount frame • 2 mounting rails for 12 x 226 connectors • Jumper Guides and rings • 2 earth clamps <ul style="list-style-type: none"> • Overall size: 1000mm high x 300mm wide x 130mm deep <p>BT Ref: Box Connexion 510</p>		<p>6532/2/009/00</p> <p>Pack Qty 1</p>

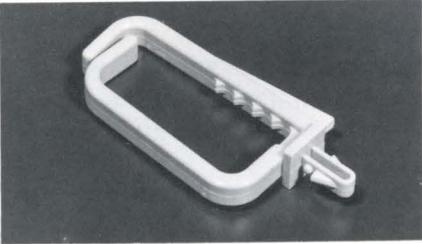
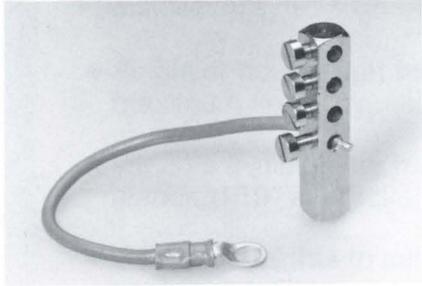
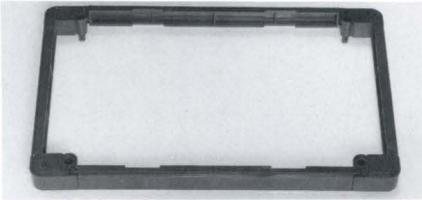
5.1 INTERNAL BOXES

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Connection Box 520</p> <ul style="list-style-type: none"> • Lightweight steel box for 8 and 10 Pair modules • Equipped to accommodate 680 pairs using 10 Pair modules or 544 pairs using 8 Pair modules <p>Specifications:</p> <ul style="list-style-type: none"> 1 box with removable/reversible hinged door 2 x 34 way backmount frames 2 mounting rails for 24 x 226 connectors Jumper guides 2 earth clamps 12 x 500 series jumper rings <ul style="list-style-type: none"> • Overall size: 1000mm high x 500mm wide x 130mm deep <p>BT Ref: Box Connexion 520</p>		<p>6532/2/010/00</p> <p>Pack Qty 1</p>
<p>Connection Box 530</p> <ul style="list-style-type: none"> • Lightweight steel box for 8 and 10 Pair modules • Designed to accommodate 1020 pairs using 10 Pair modules or 816 pairs using 8 Pair modules <p>Specification:</p> <ul style="list-style-type: none"> 1 box with removable/reversible hinged door 3 x 34 way backmount frames 3 backmount frames 5/50/34A 2 mounting rails for 36 x 226 connectors Jumper guides 2 earth clamps 24 x 500 series jumper rings <ul style="list-style-type: none"> • Overall size: 1000mm high x 750mm wide x 130mm deep <p>BT Ref: Box Connexion 530</p>		<p>6532/2/011/00</p>
<p>Accessories for 500 Series Boxes</p> <p>For each connector:-</p> <ul style="list-style-type: none"> 1 fixing screw 1/DPO/166 1 M3 (6mm) long screw 1 plate cable fixing 1B 1 cable tie <p>For ordering information see section 5.2</p>		<p>Pack Qty 1</p>
<p>19" Wall Mounting Cabinet</p> <ul style="list-style-type: none"> • Designed to mount patch panels or subracks at floor distribution levels <p>12U</p> <ul style="list-style-type: none"> • Overall size 627mm high x 630mm wide x 218mm deep <p>16U</p> <ul style="list-style-type: none"> • Overall size 804mm high x 630mm wide x 218mm deep <p>24U</p> <ul style="list-style-type: none"> • Overall size 1160mm high x 630mm wide x 218mm deep 		<p>6527/1/009/12</p> <p>6527/1/009/16</p> <p>6527/1/009/24</p> <p>Pack Qty 1</p>

5.2 INTERNAL BOX ACCESSORIES

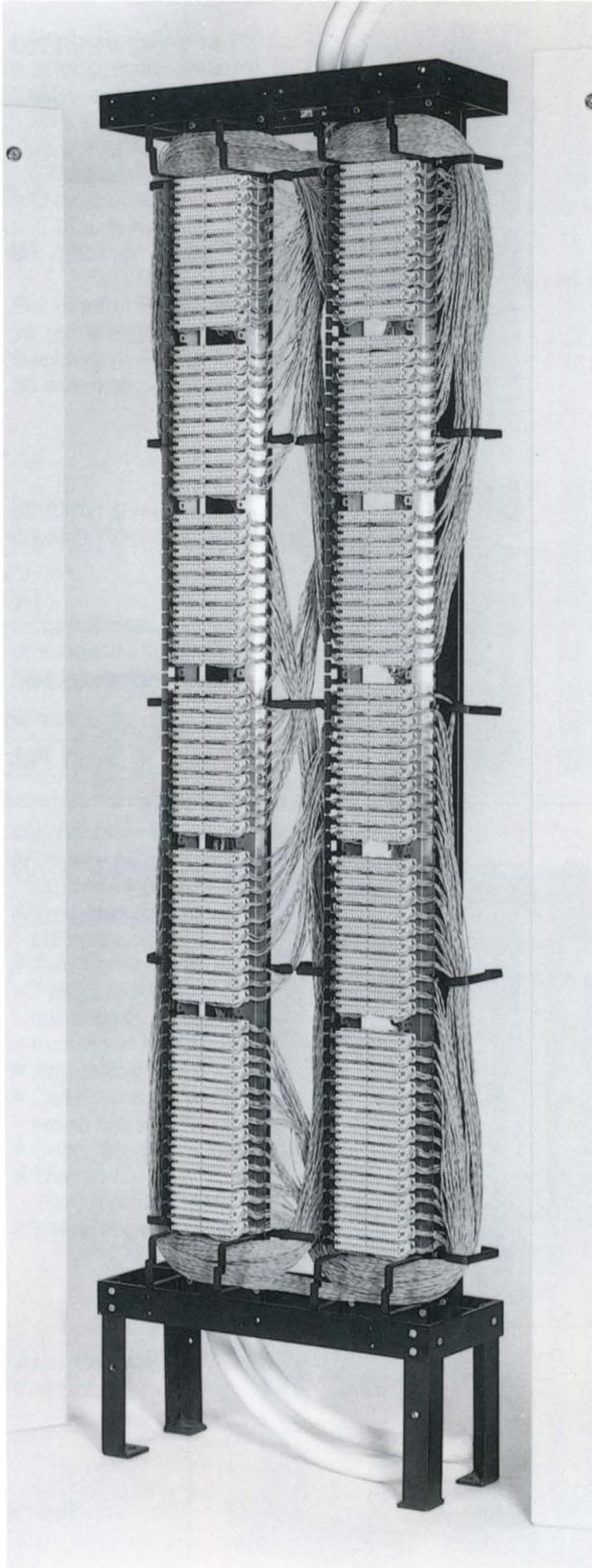
DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Plate Cable</p> <ul style="list-style-type: none"> • For 250/300 Series box • Base mounting <p>BT Ref: Plate Cable Fixing 1C</p>		<p>6428/3/003/02</p> <p>Pack Qty 100</p>
<p>Plate Cable Fixing</p> <ul style="list-style-type: none"> • Bracket mounting <p>BT Ref: Plate Cable Fixing 1B</p>		<p>6428/3/003/01</p> <p>Pack Qty 100</p>
<p>160mm Cable Tie</p> <ul style="list-style-type: none"> • Releasable <p>BT Ref: Strap cable fixing 4A</p>		<p>6428/3/006/00</p> <p>Pack Qty 100</p>
<p>226 Fixing Post</p> <ul style="list-style-type: none"> • For 200/300 Series box <p>BT Ref: Fixing Post 1/DPO/163</p>		<p>6428/3/001/00</p> <p>Pack Qty 100</p>
<p>Base Clamp And Screws</p> <ul style="list-style-type: none"> • For 300 Series box • Complete with 2 screws <p>BT Ref: Base Clamp 1/DCL/183</p>		<p>6428/3/037/01</p> <p>Pack Qty 10 Pairs</p>
<p>226 Fixing Screw</p> <p>BT Ref: Fixing Screw 1/DPO/166</p>		<p>6428/3/007/01</p> <p>Pack Qty 100</p>

5.2 INTERNAL BOX ACCESSORIES

DESCRIPTION	ILLUSTRATION	KRONE NO
Jumper Ring 300 Series BT Ref: Jumper Ring 37B		6428/3/002/00 Pack Qty 100
Earth Post And Lead BT Ref: Earth Post 5A		6530/1/070/00 Pack Qty 1
Jumper Ring 500 Series		6428/3/078/00 Pack Qty 100
Skirt For 300 Series Connection Boxes (Brown) <ul style="list-style-type: none"> To add depth to the box connection to accommodate RFI protection modules 6535/1/001/00 and 6535/1/002/00 		6530/3/014/02 Pack Qty 1

CUSTOMER NOTES

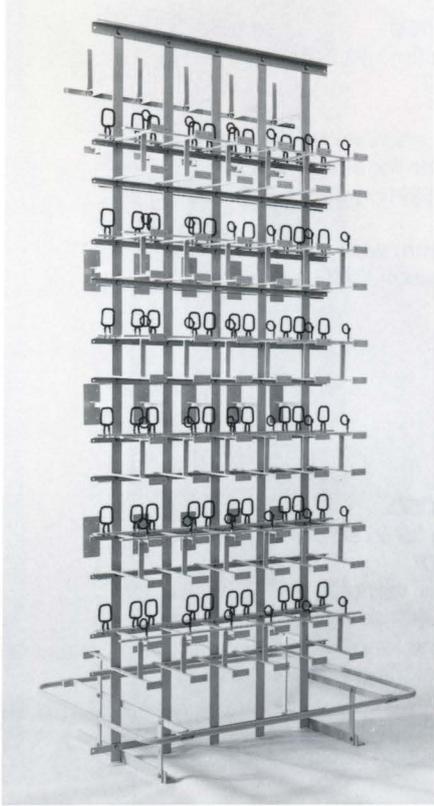
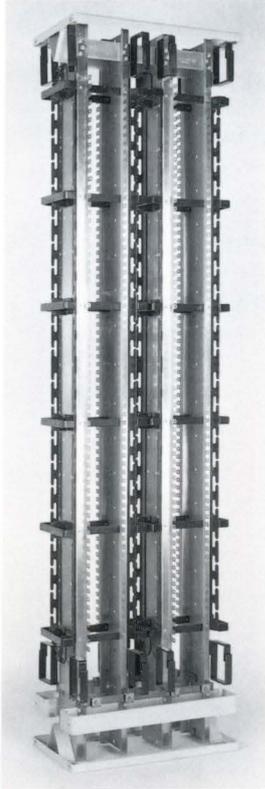
SECTION 6 FRAMES, SUBRACKS AND BACK MOUNT FRAMES



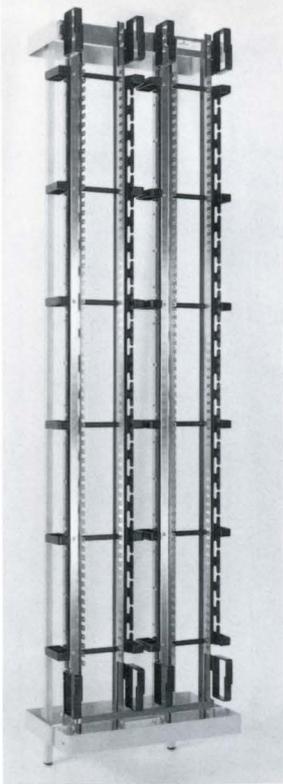
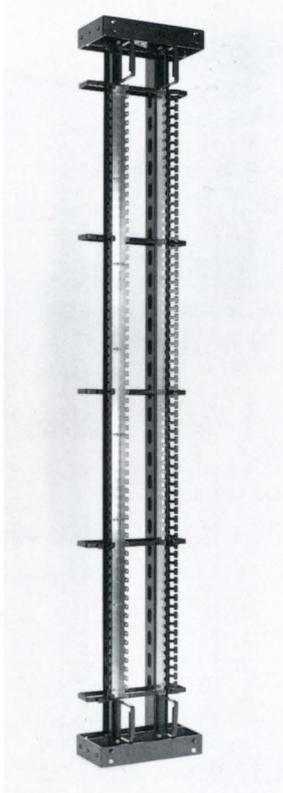
- Complete range for maximum choice
- Modular Frames allow free standing, back to back or wall mounting side by side
- Most frames are adjustable for 8 or 10 pair modules
- Space saving design for high volume installations
- Single or double vert frames for maximum flexibility
- Variants available for recessed or standard 19" subracks
- Variety of heights to suit individual applications

PLEASE NOTE: Modules and connectors are not included, please see relevant sections for ordering information. Larger frames may be delivered for site assembly.

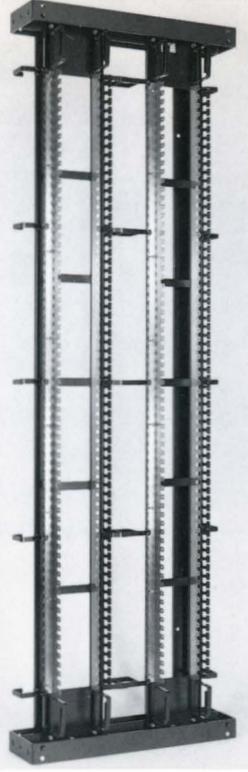
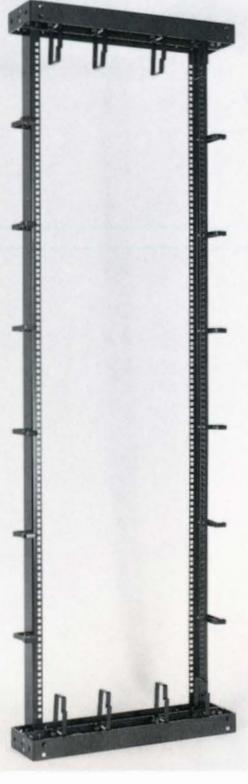
6.1 FRAMES, SUBRACKS AND BACK MOUNT FRAMES

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Distribution Frame 100A</p> <ul style="list-style-type: none"> Strong, rigid frame for 7600 pairs using Strips Connexion 237 Specification: <ul style="list-style-type: none"> 5 verticals-4000 pairs line side 6 horizontals-3600 pairs equipment side Overall size: <ul style="list-style-type: none"> 2600mm high x 1050mm wide x 650mm deep <p>BT Ref: Frames Distribution 100A</p> <p>Backmount Frame for 200 pairs 20 required per frame</p> <p>Backmount Frame for 100 pairs 36 required per frame</p> <p>Accessories: Joining Kit End Protection kit</p>		<p>6425/1/001/00</p> <p>6425/2/001/00</p> <p>6425/2/003/00</p> <p>6425/1/001/02 6425/1/001/01</p> <p>Pack Qty 1</p>
<p>Distribution Frame 105D</p> <ul style="list-style-type: none"> Double sided frame for 2760 pairs using Strips Connexion 237 Free standing, double sided frame or side by side mounting Two connection columns on front and rear Twelve additional holes in each section for cable ties Increased horizontal jumpering capacity Adjustable top and bottom sub-frames Covers available to fully enclose frames for stand alone applications (single or multiple) Order Strips Connexion separately Overall size: <ul style="list-style-type: none"> 2000mm high x 500mm wide x 300 deep <p>BT Ref: Frame Distribution 105D</p> <p>Accessories: Full Set Frame Covers</p>		<p>6420/1/005/00</p> <p>6420/2/014/00</p> <p>Pack Qty 1</p>

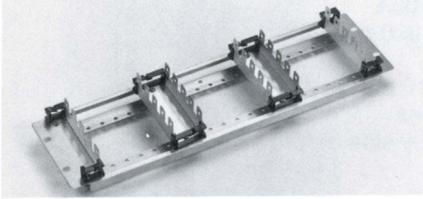
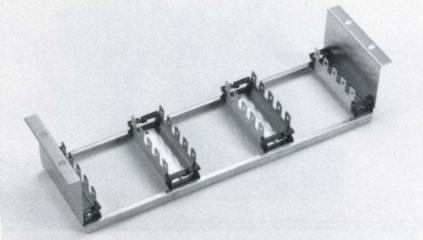
6.1 FRAMES, SUBRACKS AND BACK MOUNT FRAMES

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Distribution Frame 106D</p> <ul style="list-style-type: none"> • Wall mounted frame for 1380 pairs using Strips connexion 237 • Vertical, single sided • 2 additional holes in each section for cable ties • Detachable rear frame for easy installation • Rubber spacers for skirting board clearance • Overall size: 2000mm high x 500mm wide x 277mm deep <p>BT Ref: Frame Distribution 106D</p>		<p>6420/1/004/00</p> <p>Pack Qty 1</p>
<p>Distribution Frame 205D</p> <ul style="list-style-type: none"> • Wall mounted frame for 2760 pairs using Strips Connexion 237 • Single sided with four verticals • Additional holes in each section for cable ties • Detachable rear frame for easy installation • Rubber spacers for skirting board clearance • Overall size: 2000mm high x 1000mm wide x 277mm deep <p>BT Ref: Frame Distribution 205D</p>		<p>6420/1/006/00</p> <p>Pack Qty 1</p>
<p>Single Vert Frame 108A Type</p> <ul style="list-style-type: none"> • Compact frame for 690 pairs, using 10 pair modules • Adjustable for 8 or 10 pair KRONE LSA-PLUS® modules • Wall mounted side by side or free standing back to back • Adjusted vertically • Detachable legs • Compatible with Distribution Frame 108A • Overall size: 2004mm high x 285mm wide x 150mm deep 		<p>6420/1/050/00</p> <p>Pack Qty 1</p>
<p>Accessories: Additional legs</p>		<p>6420/1/035/30</p> <p>Pack Qty 1 Pair</p>

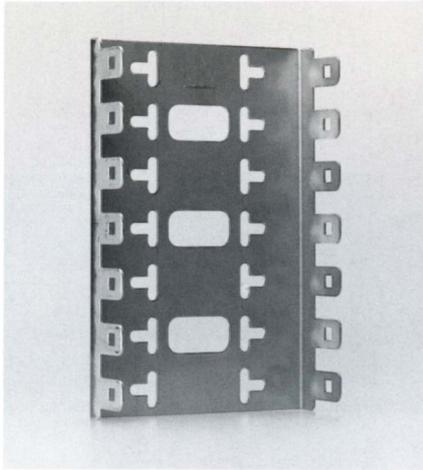
6.1 FRAMES, SUBRACKS AND BACK MOUNT FRAMES

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Distribution Frame 108A</p> <ul style="list-style-type: none"> • Modular frame for 1380 pairs, using 10 pair modules • Adjustable for 8 or 10 pair KRONE LSA- PLUS® modules • Wall mounted side by side or free standing back to back • Detachable legs • Installation instructions supplied • Fanning strip enhances jumper management • Overall size: 2004mm high x 560mm wide x 150mm deep <p>BT Ref: Frame Distribution 108A</p>		<p>6420/1/013/00</p> <p>Pack Qty 1</p>
<p>19" Frame 108 Type</p> <ul style="list-style-type: none"> • Wall mounted side by side or free standing back to back • For mounting 19" subracks or patch panels • Detachable legs • Overall size: 2004mm high x 560mm wide x 150 deep 		<p>6420/1/025/01</p> <p>Pack Qty 1</p>

6.1 FRAMES, SUBRACKS AND BACK MOUNT FRAMES

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>19" Subrack (Standard) size 3U:150 pairs BT Ref: Frames Distribution 8B</p> <p>19" Subrack (Standard) size 3U:150 pairs ● With mounting rails for up to 18 x 226 connectors</p> <p>19" Subrack (Standard) size 4U:180 pairs</p> <p>19" Subrack (Standard) size 4U 180 pairs ● With mounting rails for up to 18 x 226 connector</p>		<p>6427/1/001/01</p> <p>6427/1/001/00</p> <p>6427/1/016/01</p> <p>6427/1/016/00</p> <p>Pack Qty 1</p>
<p>19" Subrack (Recessed) size 3U:150 pairs</p> <p>19" Subrack (Recessed) size 3U:150 pairs ● With mounting rails for up to 18 x 226 connectors</p> <p>19" Subrack (Recessed) size 4U:180 pairs</p> <p>19" Subrack (Recessed) size 4U:180 pairs ● with mounting rails for up to 18 x 226 connectors</p>		<p>6427/1/017/01</p> <p>6427/1/017/00</p> <p>6427/1/007/00</p> <p>6427/1/007/01</p> <p>Pack Qty 1</p>

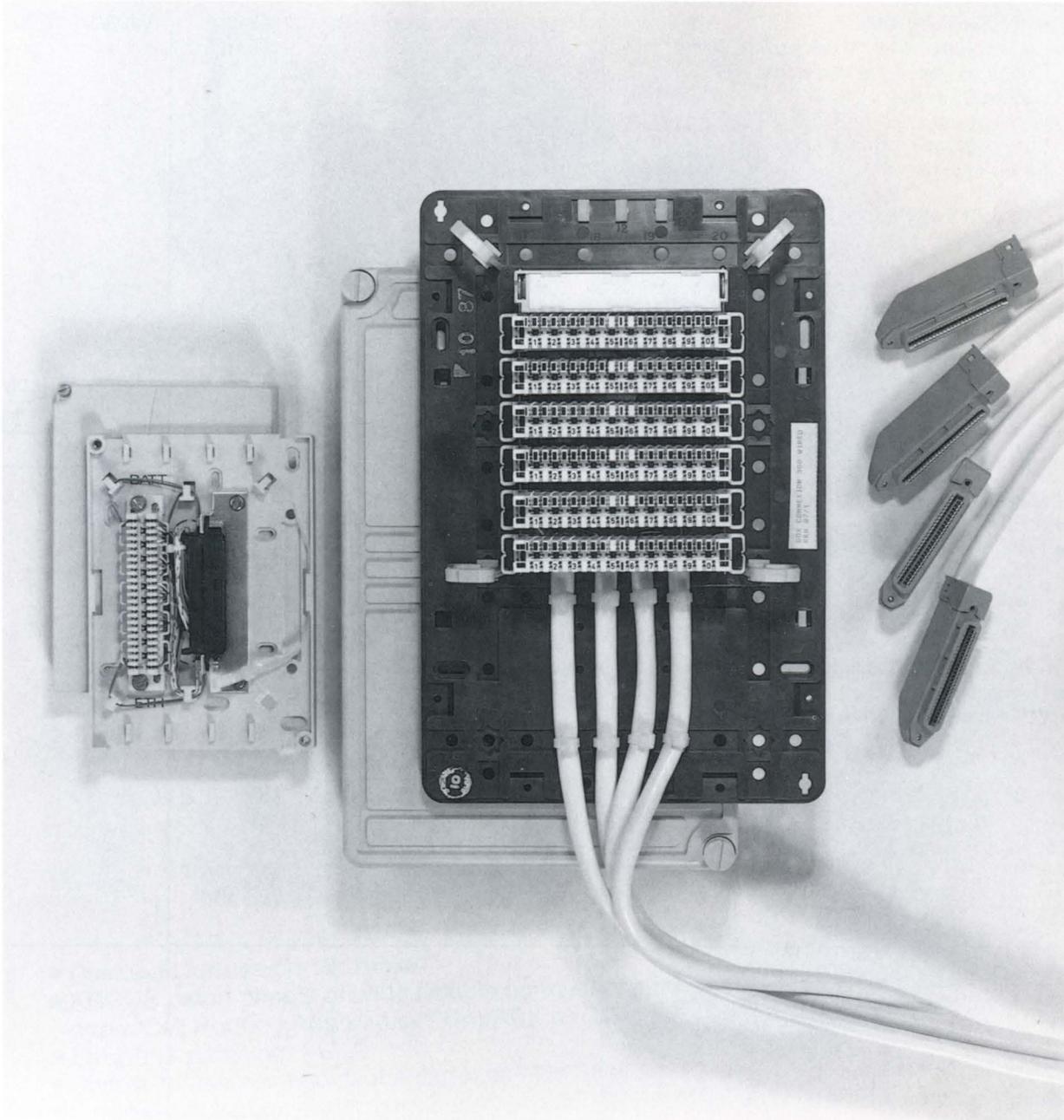
6.1 FRAMES, SUBRACKS AND BACK MOUNT FRAMES

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Backmount Frame For 10 Pair Modules</p> <ul style="list-style-type: none"> Designed for use with KRONE LSA-PLUS® Strips Connexion 237 Specify 5/D/NA D=depth of wiring(mm) N=number of modules Standard pitch=22.5mm <p>Examples Of Ordering Codes</p> <p>5/11/1A (11mm deep/1 module)</p> <p>5/11/2A</p> <p>5/11/3A</p> <p>5/11/5A</p> <p>5/11/7A</p> <p>5/30/10A</p> <p>5/30/13A</p> <p>5/30/15A</p> <p>5/30/20A</p> <p>5/50/30A</p> <p>5/60/34A (60mm deep/34 modules)</p> <ul style="list-style-type: none"> Other lengths & depths available on request <p>BT Ref: Mounting Frame 5/-/-A</p>	 <p>5/11/7A Shown</p>	<p>6424/3/005/01</p> <p>6424/3/005/02</p> <p>6424/3/005/03</p> <p>6424/3/005/05</p> <p>6424/3/005/07</p> <p>6424/3/007/10</p> <p>6424/3/007/13</p> <p>6424/3/007/15</p> <p>6424/3/007/20</p> <p>6424/3/009/30</p> <p>6424/3/010/34</p> <p>Pack Qty</p> <p style="border: 1px solid black; padding: 2px; display: inline-block;">1</p>
<p>Backmount Frame For 8 Pair Modules</p> <p>Backmount Frame For 10 Pair Modules-30mm Pitch</p> <p>Please contact KRONE UK for further details</p>		



CUSTOMER NOTES

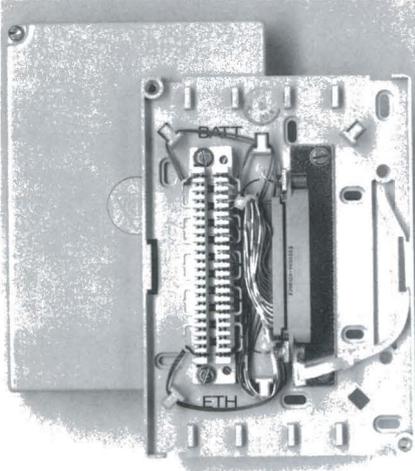
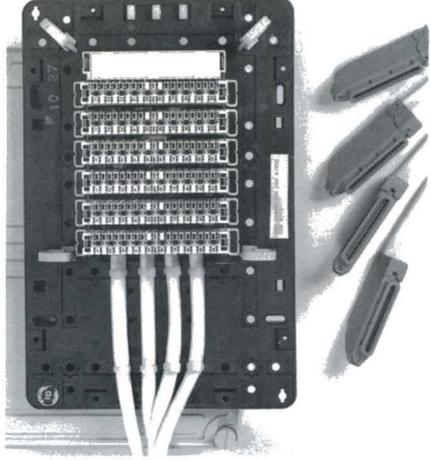
SECTION 7 PRE-WIRED ASSEMBLIES



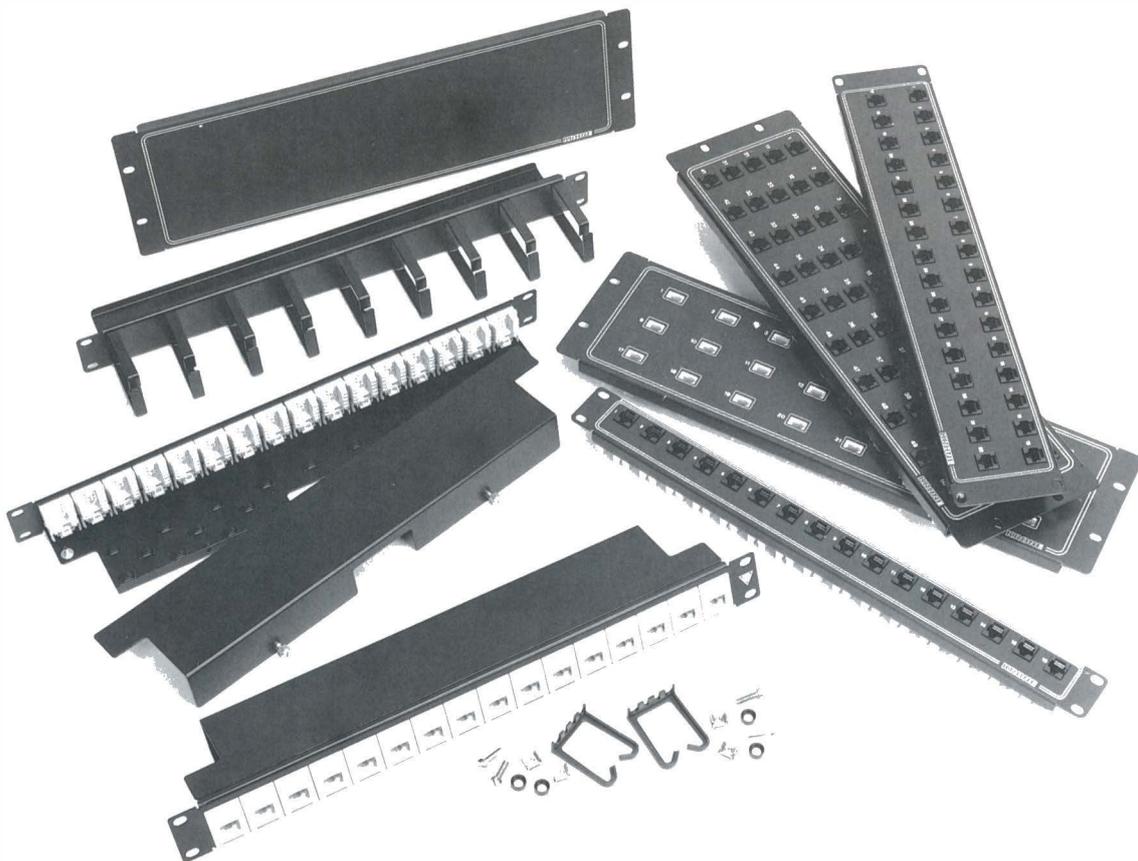
- Pre-wiring to customer specification, typically Strips Connexion 237's terminated to 226 connectors
- Combines the advantages of wiring under controlled conditions with factory testing
- Reduces on site installation time
- For connection between a PBX and customer terminals

7.1 PRE-WIRED ASSEMBLIES

to customer requirements

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Connection Box 203C</p> <ul style="list-style-type: none"> ● Low profile box for 10 pairs using Strips Connexion 241A pre-wired to a 226 connector (male) Wired to drawing no 6429/2/005/00 or to customer requirements Specification: <ul style="list-style-type: none"> 1 base 1 lid with 2 screws 1 Strips Connexion 241A ● Overall size: <ul style="list-style-type: none"> 170mm high x 120mm wide x 35mm deep <p>BT Ref: Box Connexion 203C</p>		<p>6429/1/017/00</p> <p>Pack Qty 1</p>
<p>Connection Box 300 Series Example</p> <ul style="list-style-type: none"> ● Plastic modular box ● Designed to accommodate 60 pairs using Strips Connexion 237 Specification: <ul style="list-style-type: none"> 1 base 1 lid 1 backmount frame 5/11/7A ● Overall size: <ul style="list-style-type: none"> 320mm high x 210mm wide x 120mm deep 		
<p>250 SERIES CONNECTION BOXES</p> <p>Pre-wired to customer specification using Strips Connexion 237 with 226 connectors etc.</p> <p>Recessed Subrack</p> <p>Wiring harnesses pre-wired to customer requirements</p> <p>Please contact KRONE UK for further details</p>		

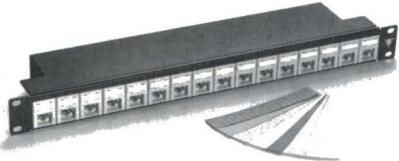
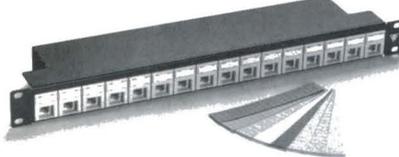
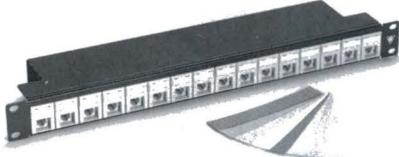
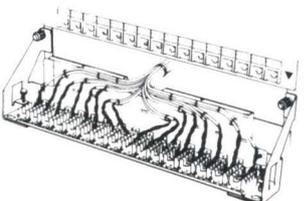
SECTION 8 MODULAR PATCHING



- Designed for use on 19" racks
- KRONE patch panels provide flexible connections between telephone or data terminals and a Call Routing Apparatus (CRA)/PBX or Central Processor
- Error free patching
- Simple to use and avoids the expense of re-wiring
- Excellent crosstalk performance at high data rates
- Enhanced cable management
- Excellent reliability
- RJ-K Series patch panels feature durable reusable labelling (see also Section 9)
- Conform to EIA/TIA 568 specification
- Conform to Oftel General approval NS/G/23/L/100005
- Designed in accordance with industry standards including FCC 68.5, ISO 8877 (1987), CENELEC ENV 41001
- Available with RJ11/45, DEC MMJ and VOICE (BT line jack) ports
- An alternative method of patching can be achieved using KRONE LSA-PLUS® 8 and 10 pair switching modules (please refer to section titled "Modules") with patch cords or using direct jumpering. Please contact KRONE UK for further information on patching methods.

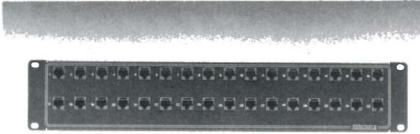
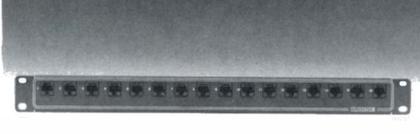
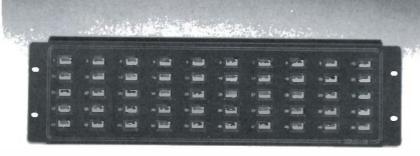
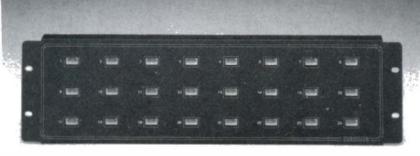
8 MODULAR PATCHING

KRONE RJ-K Series and PCB Patch Panels

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>16 Way RJ-K Series RJ45 Patch Panels 1U</p> <ul style="list-style-type: none"> • Modular design allows a jack to be easily replaced (see Section 9 RJ-K mounting adaptor & modules) • 19' x 1U fitting • Integral cable management • Optional outrigger leaves both hands free for front wiring • Integral reusable label holders • Colour coded labels • Complete with back cover and jumper rings 		<p>6533/1/100/16</p>
<p>16 Way RJ-K Series DEC MMJ Patch Panel</p>		<p>6533/1/300/16</p>
<p>16 Way RJ-K Series RJ11 Patch Panel</p>		<p>6533/1/200/16</p> <p>Pack Qty 1</p>
<p>RJ-K Series Outrigger</p> <ul style="list-style-type: none"> • Support patch panels leaving both hands free for wiring the equipment rack 		<p>6527/1/010/00</p> <p>Pack Qty 1 Pair</p>
<p>50 Way 3U RJ45 Patch Panel</p> <ul style="list-style-type: none"> • Combining RJ45 interface with IDC terminations 		<p>6527/1/600/50</p> <p>Pack Qty 1</p>

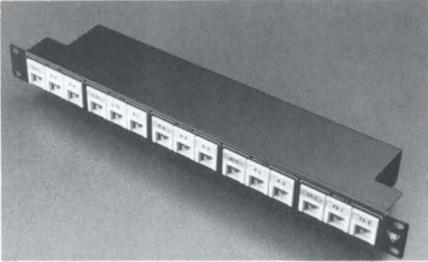
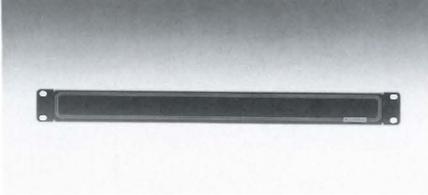
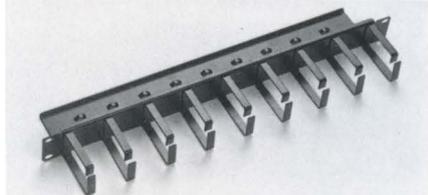
8 MODULAR PATCHING

KRONE RJ-K Series and PCB Patch Panels

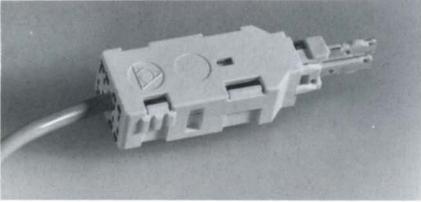
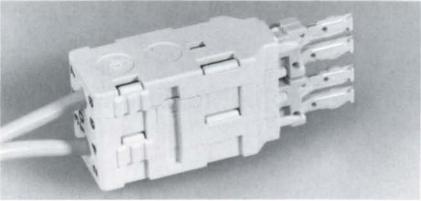
DESCRIPTION	ILLUSTRATION	KRONE NO
<p>32 Way 2U RJ45 Patch Panel</p> <ul style="list-style-type: none"> Combining RJ45 interface with KRONE LSA PLUS IDC terminations 		<p>6527/1/600/32</p> <p>Pack Qty 1</p>
<p>16 Way 1U RJ45 Patch Panel</p> <ul style="list-style-type: none"> For 8 wire circuits, combining RJ45 interface with KRONE LSA PLUS IDC terminations 		<p>6527/1/600/16</p> <p>Pack Qty 1</p>
<p>50 Way 3U Voice Patch Panel</p> <ul style="list-style-type: none"> Combining secondary BT line jack sockets with KRONE LSA PLUS IDC terminations 		<p>6527/1/200/50</p> <p>Pack Qty 1</p>
<p>24 Way 3U Voice Patch Panel</p> <ul style="list-style-type: none"> Combining secondary BT line jack sockets with KRONE LSA PLUS IDC terminations 		<p>6527/1/200/24</p> <p>Pack Qty 1</p>
<p>24 Way 3U Voice Master Patch Panel</p> <ul style="list-style-type: none"> Combining master BT line jack sockets with KRONE LSA PLUS IDC terminations 		<p>6527/1/400/24</p> <p>Pack Qty 1</p>



8 MODULAR PATCHING

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>5x3 Port RJ-K Series Shared Service Patch Panel</p> <ul style="list-style-type: none"> • Share voice lines between remote users by patching at the cross connect • Pre-wired means no on-site cable terminations required 		<p>6533/1/500/15</p> <p>Pack Qty 1</p>
<p>Blank Panel 1U</p>		<p>6527/1/007/01</p> <p>Pack Qty 1</p>
<p>Blank Panel 2U</p>		<p>6527/1/007/02</p> <p>Pack Qty 1</p>
<p>Blank Panel 3U</p>		<p>6527/1/007/03</p> <p>Pack Qty 1</p>
<p>Jumper Bar 1U</p>		<p>6527/1/006/00</p> <p>Pack Qty 1</p>

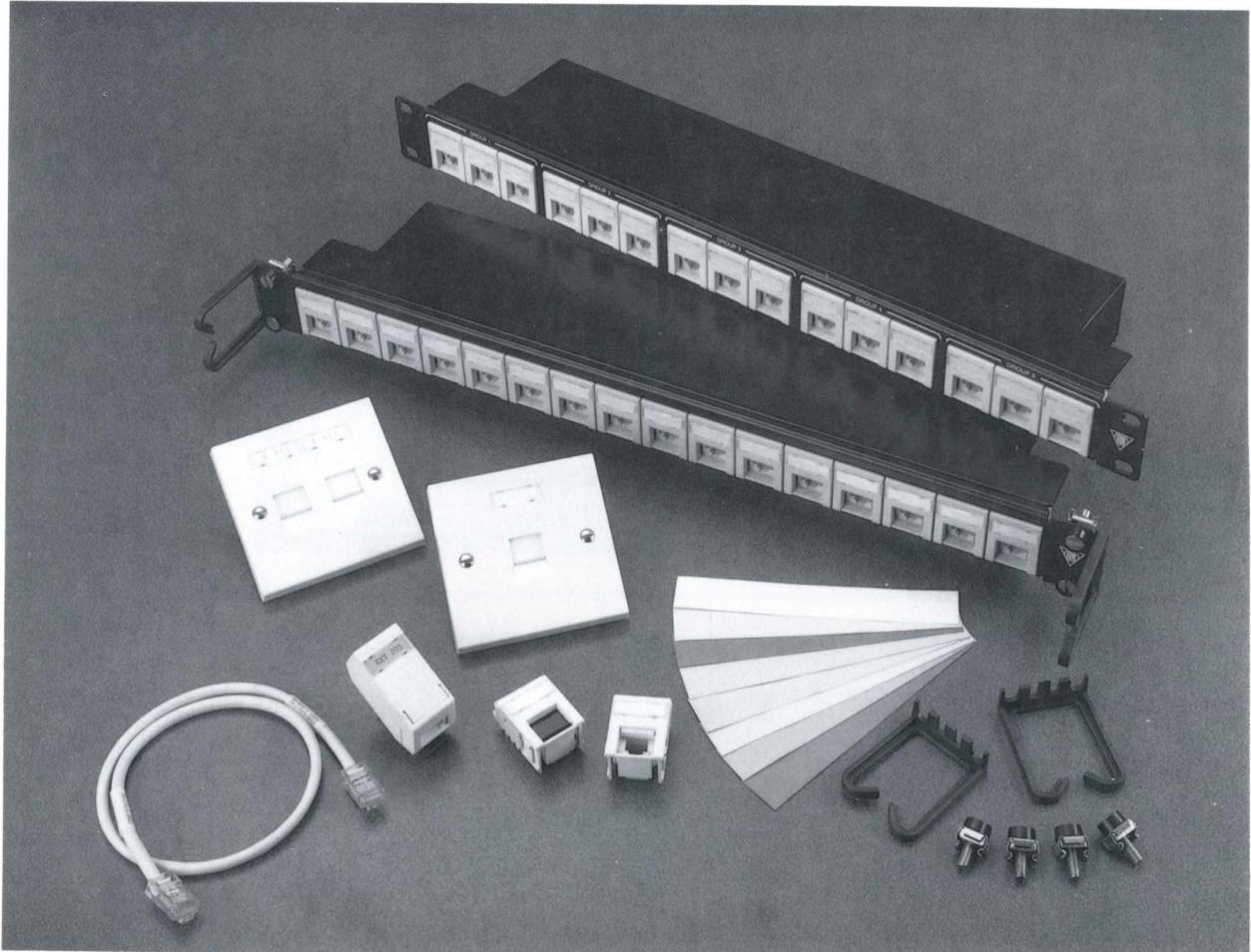
8 MODULAR PATCHING

DESCRIPTION	ILLUSTRATION	KRONE NO																		
<p>RJ45 Patch Cord</p> <ul style="list-style-type: none"> • Designed specifically for high performance, round flexible data grade cable • Conforms to USOC or EIA/TIA 568A & 568B standards • Length from 0.5m to 10metres <ul style="list-style-type: none"> • Length 0.5m • Length 1.0m • Length 1.5m • Length 2.0m • Length 2.5m • Length 3.0m • Length 5.0m • Length 10.0m 	 <table border="0"> <thead> <tr> <th data-bbox="730 698 938 725">USOC</th> <th data-bbox="954 698 1193 725">EIA/TIA 568A & 568B</th> </tr> </thead> <tbody> <tr> <td data-bbox="730 741 938 768">6529/1/016/00</td> <td data-bbox="954 741 1193 768">6529/1/015/00</td> </tr> <tr> <td data-bbox="730 781 938 808">6529/1/016/01</td> <td data-bbox="954 781 1193 808">6529/1/015/01</td> </tr> <tr> <td data-bbox="730 822 938 848">6529/1/016/02</td> <td data-bbox="954 822 1193 848">6529/1/015/02</td> </tr> <tr> <td data-bbox="730 862 938 889">6529/1/016/03</td> <td data-bbox="954 862 1193 889">6529/1/015/03</td> </tr> <tr> <td data-bbox="730 902 938 929">6529/1/016/04</td> <td data-bbox="954 902 1193 929">6529/1/015/04</td> </tr> <tr> <td data-bbox="730 943 938 969">6529/1/016/05</td> <td data-bbox="954 943 1193 969">6529/1/015/05</td> </tr> <tr> <td data-bbox="730 983 938 1010">6529/1/016/06</td> <td data-bbox="954 983 1193 1010">6529/1/015/06</td> </tr> <tr> <td data-bbox="730 1023 938 1050">6529/1/016/07</td> <td data-bbox="954 1023 1193 1050">6529/1/015/07</td> </tr> </tbody> </table>	USOC	EIA/TIA 568A & 568B	6529/1/016/00	6529/1/015/00	6529/1/016/01	6529/1/015/01	6529/1/016/02	6529/1/015/02	6529/1/016/03	6529/1/015/03	6529/1/016/04	6529/1/015/04	6529/1/016/05	6529/1/015/05	6529/1/016/06	6529/1/015/06	6529/1/016/07	6529/1/015/07	<p>Pack Qty</p> <p>10</p>
USOC	EIA/TIA 568A & 568B																			
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<p>4 Pole Patching Cord</p> <ul style="list-style-type: none"> • For use with KRONE LSA-PLUS® switching and disconnection modules • Flexible cordage • Length 0.75m • Length 1.5m <p>BT Ref: Cord Connexion 22A</p>		<p>6529/1/011/00 6529/1/011/01</p> <p>Pack Qty</p> <p>10</p>																		
<p>8 Pole Patching Cord</p> <ul style="list-style-type: none"> • For use with KRONE LSA-PLUS® switching and disconnection modules • Flexible cordage • Length 0.75m • Length 1.5m <p>BT Ref: Cord Connexion 23A</p>		<p>6529/1/010/00 6529/1/010/01</p> <p>Pack Qty</p> <p>10</p>																		



CUSTOMER NOTES

SECTION 9 KRONE RJ-K MODULAR JACKS

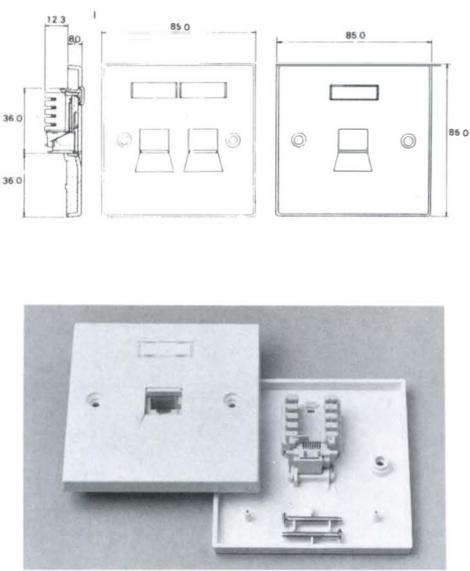
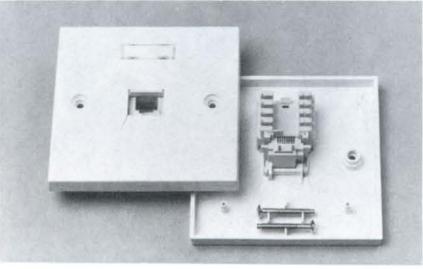
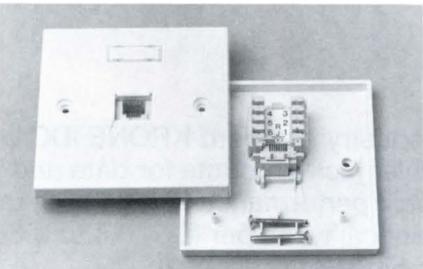
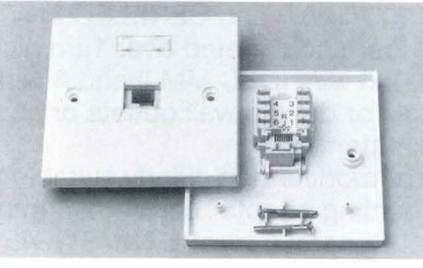


- Combines the industry standard KRONE IDC with the popular RJ jack
- A range of modular jack products for data and voice
- Excellent crosstalk performance at high data rates
- Accepts two identical wires per IDC, 0.4 to 0.65mm stranded or solid
- Suitable for bus type applications (ISDN)
- Excellent reliability
- Guaranteed for at least 1000 insertions when used with plugs conforming to standards FCC 68.5, ISO 8877(1987) and CENELEC ENV 41001
- RJ45 contacts 1.5µm gold plated over 1µm nickel
- 4 or 6 wire (RJ11), 6 wire (DEC MMJ) and 8 wire (RJ45) applications
- Available as single or double wall outlets or as mounting adaptor module
- Black or white shutters
- Mounting adaptor module particularly suitable for use in trunking and under floor applications (Mounting adaptor cut-out 24.1mm x 16.1mm, template supplied)
- Conform to Oftel General Approval NS/G/23/L/100005

PLEASE NOTE: All RJ jacks require plugs to be correctly terminated.

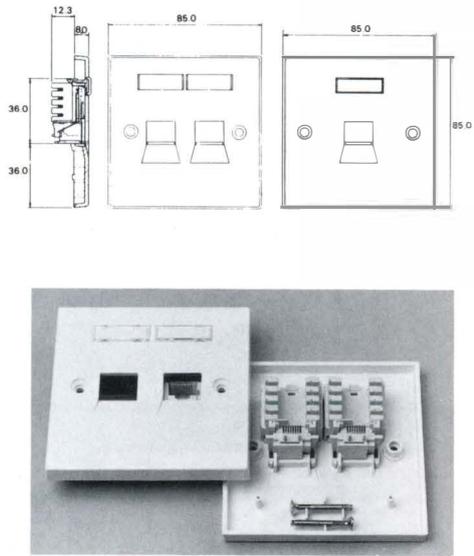
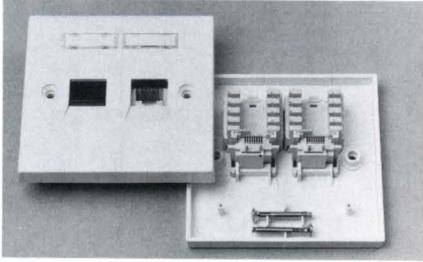
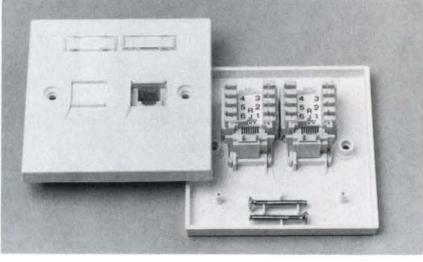
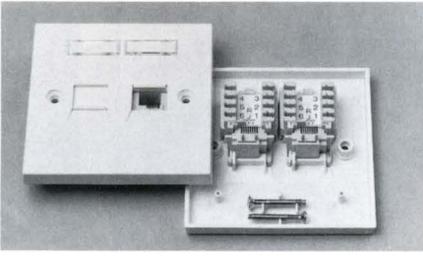
9 KRONE RJ-K MODULAR JACKS

Combining the benefits of industry standard KRONE IDC with the popular RJ Jack

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Single Wall Outlet</p> <ul style="list-style-type: none"> • Spring loaded shutter • Incorporates KRONE LSA-PLUS® IDC technique • Excellent reliability • Installer friendly • Durable reusable labelling • Wires terminated using industry standard KRONE tool • No flying leads <p>White or Black Shutter</p> <ul style="list-style-type: none"> • 8 wire (RJ45) keyed <p>White shutter</p> <p>Black shutter</p>		<p>6536/1/201/00</p> <p>6536/1/211/00</p> <p>Pack Qty 10</p>
<ul style="list-style-type: none"> • 8 wire (RJ45) unkeyed <p>White shutter</p> <p>Black shutter</p>		<p>6536/1/101/00</p> <p>6536/1/111/00</p> <p>Pack Qty 10</p>
<ul style="list-style-type: none"> • 6 wire (RJ11) <p>White shutter</p> <p>Black shutter</p>		<p>6536/1/301/00</p> <p>6536/1/311/00</p> <p>Pack Qty 10</p>
<ul style="list-style-type: none"> • 6 wire (DEC MMJ) <p>White shutter</p> <p>Black shutter</p>		<p>6536/1/401/00</p> <p>6536/1/411/00</p> <p>Pack Qty 10</p>

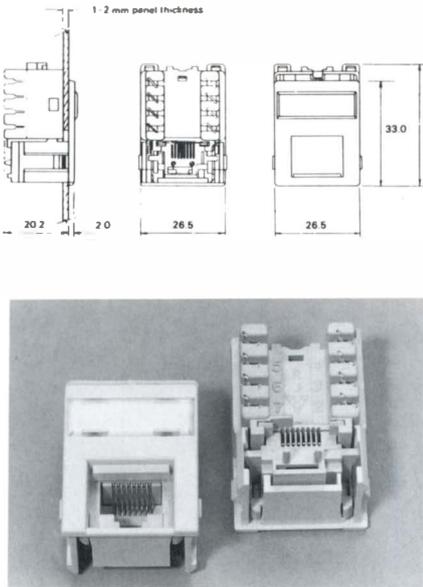
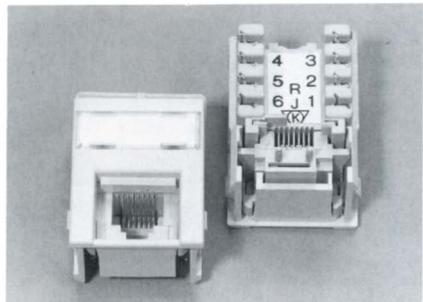
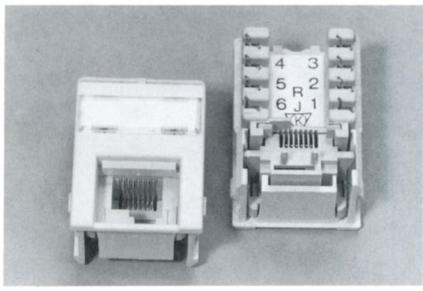
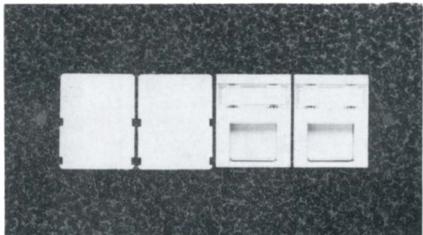
9 KRONE RJ-K MODULAR JACKS

Combining the benefits of industry standard KRONE IDC with the popular RJ Jack

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Double Wall Outlet</p> <ul style="list-style-type: none"> • Spring loaded shutter • Incorporates KRONE LSA-PLUS® IDC technique • Excellent reliability • Installer friendly • Durable reusable labelling • Wires terminated using industry standard KRONE tool • No flying leads <p>White or Black Shutters</p> <ul style="list-style-type: none"> • 8 wire (RJ45) keyed <p>White shutter</p> <p>Black shutter</p>		<p>6536/1/202/00</p> <p>6536/1/212/00</p> <p>Pack Qty 10</p>
<ul style="list-style-type: none"> • 8 wire (RJ45) unkeyed <p>White shutter</p> <p>Black shutter</p>		<p>6536/1/102/00</p> <p>6536/1/112/00</p> <p>Pack Qty 10</p>
<p>White shutter</p> <ul style="list-style-type: none"> • 6 wire (RJ11) <p>White shutter</p> <p>Black shutter</p>		<p>6536/1/302/00</p> <p>6536/1/312/00</p> <p>Pack Qty 10</p>
<ul style="list-style-type: none"> • 6 wire (DEC MMJ) <p>White shutter</p> <p>Black shutter</p>		<p>6536/1/402/00</p> <p>6536/1/412/00</p> <p>Pack Qty 10</p>

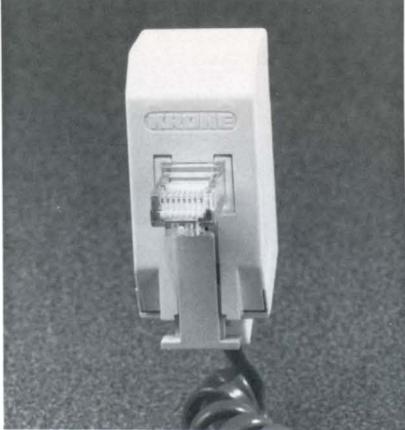
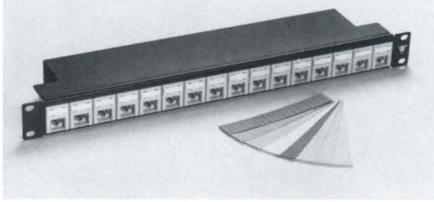
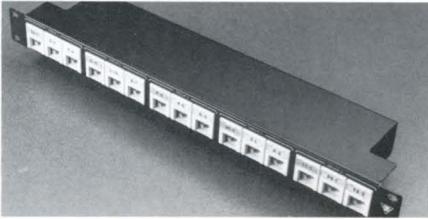
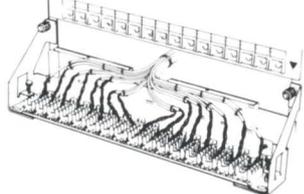
9 KRONE RJ-K MODULAR JACKS

Combining the benefits of industry standard KRONE IDC with the popular RJ Jack

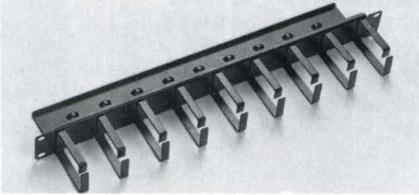
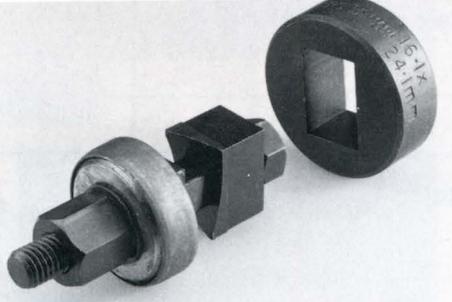
DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Mounting Adaptor Module</p> <ul style="list-style-type: none"> • Spring loaded shutter • Incorporates KRONE LSA-PLUS® IDC technique • Durable reusable labelling • Wires terminated using industry standard KRONE tool • No flying leads • Particularly suitable for underfloor applications <p>• 8 wire (RJ45) keyed (shown)</p> <p>White shutter Black shutter</p> <p>• 8 wire (RJ45) unkeyed</p> <p>White shutter Black shutter</p>		<p>6536/1/200/00 6536/1/210/00</p> <p>6536/1/100/00 6536/1/110/00 Pack Qty 10</p>
<p>White shutter only</p> <p>• 6 wire (RJ11)</p> <p>White shutter</p> <p>Black shutter</p>		<p>6536/1/300/00 6536/1/310/00</p> <p>Pack Qty 10</p>
<p>• 6 wire (DEC MMJ)</p> <p>White shutter</p> <p>Black shutter</p>		<p>6536/1/400/00 6536/1/410/00</p> <p>Pack Qty 10</p>
<p>Mounting Plates</p> <ul style="list-style-type: none"> • Designed for use in floor boxes • Unloaded metal plate to accept up to four mounting adaptor modules • To fit BS4662 mounting box (shown) • To fit Ackermann mounting box 		<p>6536/3/035/00 6536/3/035/01</p> <p>Pack Qty 1</p>

9 KRONE RJ-K MODULAR JACKS

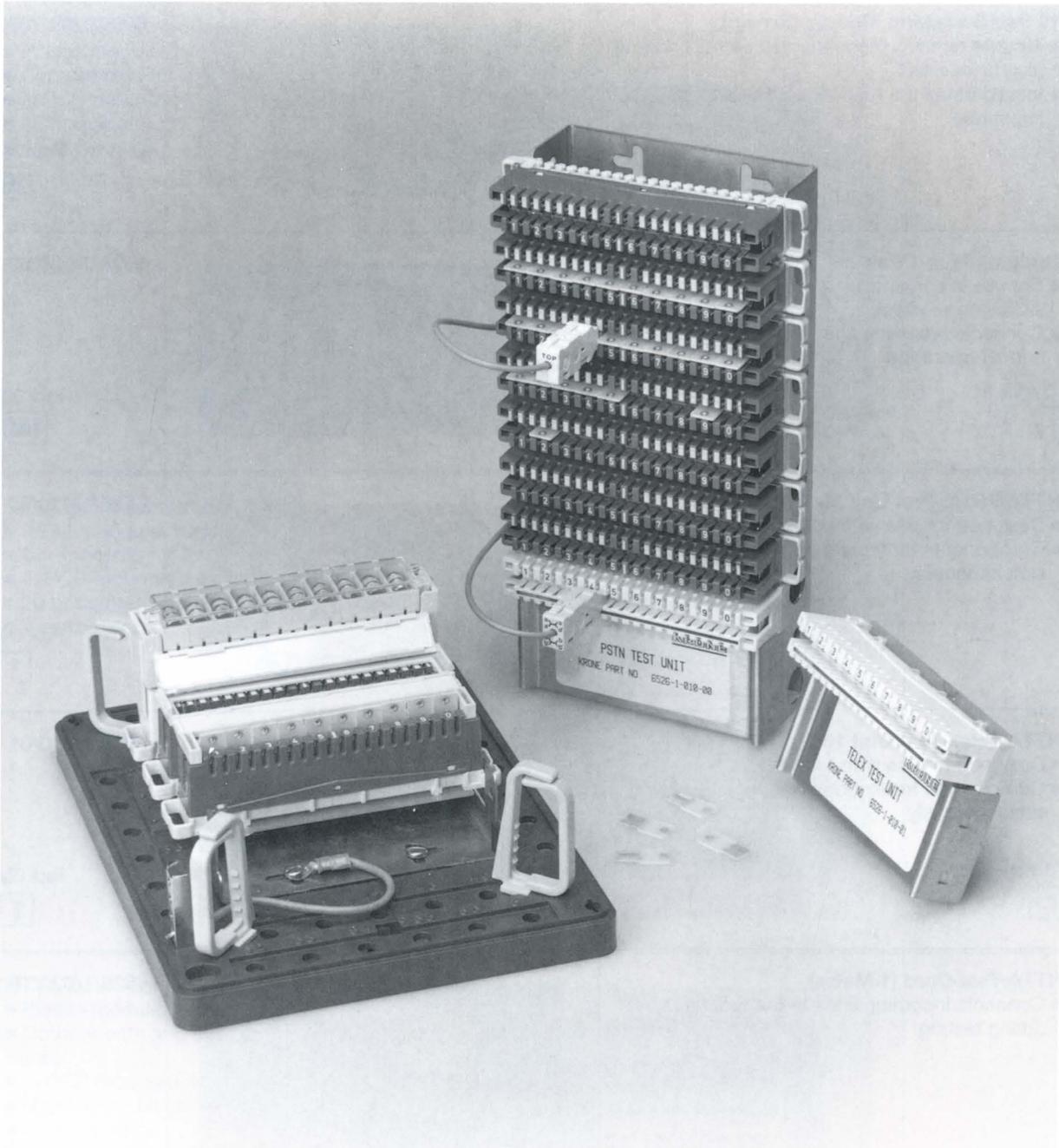
Combining the benefits of industry standard KRONE IDC with the popular RJ Jack

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>RJ-K Series Outlet Converter: BT to RJ45</p> <ul style="list-style-type: none"> • Quick conversion for using BT plugs with a structured wiring system • Plugs directly into all leading RJ45 outlet • Compact design without flying leads — ideal for floor boxes • Reusable labelling <p>Full master (grey latch release) — for direct line not routed via the PABX</p> <p>PABX master (white latch release) — for office extensions routed via the PABX</p> <p>Secondary (black latch release) - for a second phone sharing a PABX extension number or for use on a digital PABX</p>		<p>6536/1/601/11</p> <p>6536/1/601/10</p> <p>6536/1/601/12 Pack Qty</p> <p>10</p>
<p>16 Way RJ-K Series Patch Panels 1U</p> <ul style="list-style-type: none"> • Modular design allows a jack to be easily replaced • Integral cable management • Optional outrigger leaves both hands free for front wiring • Integral reusable label holders • Colour coded labels. • Complete with back cover <p>16 Way RJ-K Series RJ45 Patch Panel</p> <p>16 Way RJ-K Series DEC MMJ Patch Panel</p> <p>16 Way RJ-K Series RJ11 Patch Panel</p>		<p>6533/1/100/16</p> <p>6533/1/300/16</p> <p>6533/1/200/16</p> <p>Pack Qty</p> <p>1</p>
<p>RJ-K Series Shared Service Patch Panel</p> <ul style="list-style-type: none"> • Share lines between remote users by patching at the cross connect • pre-wired guarantees easy installation and reliability 		<p>6533/1/500/15</p> <p>Pack Qty</p> <p>1</p>
<p>RJ-K Series Outrigger</p>		<p>6527/1/010/00</p> <p>Pack Qty</p> <p>1 Pair</p>

9 KRONE RJ-K MODULAR JACKS

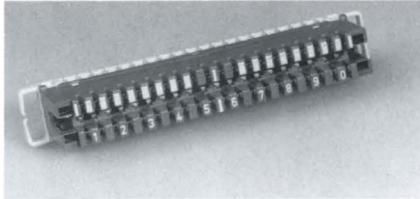
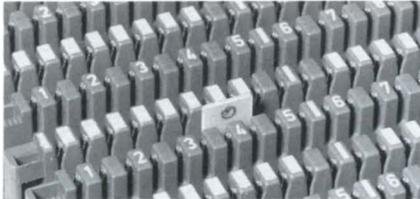
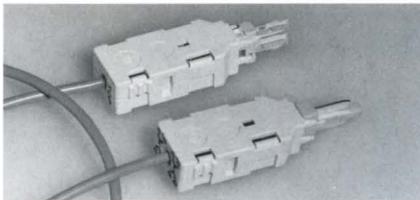
DESCRIPTION	ILLUSTRATION	KRONE NO																											
<p>Jumper Bar</p>		<p>6527/1/006/00</p> <p>Pack Qty 1</p>																											
<p>RJ45 Patch Cord</p> <ul style="list-style-type: none"> • Designed specifically for high performance, round flexible data grade cable • Conforms to USOC or EIA/TIA 568A & 568B standards • Length from 0.5m to 10metres 	 <table border="0" data-bbox="722 1077 1187 1435"> <thead> <tr> <th></th> <th>USOC</th> <th>EIA/TIA 568A & 568B</th> </tr> </thead> <tbody> <tr> <td>• Length 0.5m</td> <td>6529/1/016/00</td> <td>6529/1/015/00</td> </tr> <tr> <td>• Length 1.0m</td> <td>6529/1/016/01</td> <td>6529/1/015/01</td> </tr> <tr> <td>• Length 1.5m</td> <td>6529/1/016/02</td> <td>6529/1/015/02</td> </tr> <tr> <td>• Length 2.0m</td> <td>6529/1/016/03</td> <td>6529/1/015/03</td> </tr> <tr> <td>• Length 2.5m</td> <td>6529/1/016/04</td> <td>6529/1/015/04</td> </tr> <tr> <td>• Length 3.0m</td> <td>6529/1/016/05</td> <td>6529/1/015/05</td> </tr> <tr> <td>• Length 5.0m</td> <td>6529/1/016/06</td> <td>6529/1/015/06</td> </tr> <tr> <td>• Length 10.0m</td> <td>6529/1/016/07</td> <td>6529/1/015/07</td> </tr> </tbody> </table>		USOC	EIA/TIA 568A & 568B	• Length 0.5m	6529/1/016/00	6529/1/015/00	• Length 1.0m	6529/1/016/01	6529/1/015/01	• Length 1.5m	6529/1/016/02	6529/1/015/02	• Length 2.0m	6529/1/016/03	6529/1/015/03	• Length 2.5m	6529/1/016/04	6529/1/015/04	• Length 3.0m	6529/1/016/05	6529/1/015/05	• Length 5.0m	6529/1/016/06	6529/1/015/06	• Length 10.0m	6529/1/016/07	6529/1/015/07	<p>Pack Qty 10</p>
	USOC	EIA/TIA 568A & 568B																											
• Length 0.5m	6529/1/016/00	6529/1/015/00																											
• Length 1.0m	6529/1/016/01	6529/1/015/01																											
• Length 1.5m	6529/1/016/02	6529/1/015/02																											
• Length 2.0m	6529/1/016/03	6529/1/015/03																											
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• Length 5.0m	6529/1/016/06	6529/1/015/06																											
• Length 10.0m	6529/1/016/07	6529/1/015/07																											
<p>Accessories</p> <p>Mounting Adaptor Cutter for use with RJ-K mounting adaptors shown on page 60</p> <ul style="list-style-type: none"> • Suitable for use with both plastic and metal trunking • Instruction sheet supplied (Positioning template supplied with Mounting Adaptor Module) 		<p>6536/3/100/00</p> <p>Pack Qty 1</p>																											

SECTION 10 NETWORK TEST AND TERMINATION APPARATUS

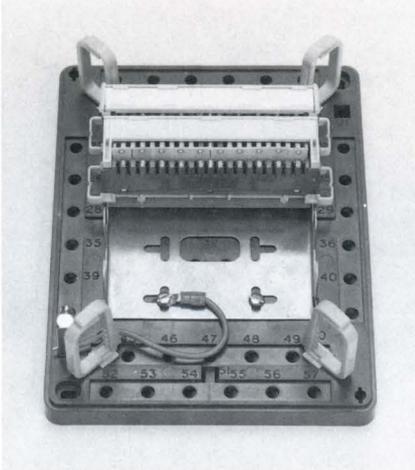
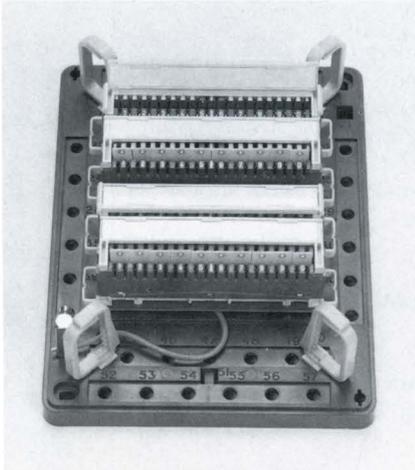
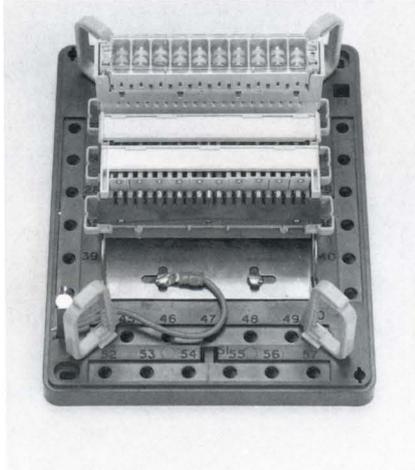


- Network Test and Termination Apparatus (NTTA) provide a clear demarcation between customer premises wiring and the Public Telephone Operators network
- Allows users control of their own wiring and PTO's remote test access so reducing call out costs
- Available with unlimited capacity fitted onto backmount frames (see section 10.1) or up to 20 voice pairs housed in KRONE Connection Boxes (see section 10.2)

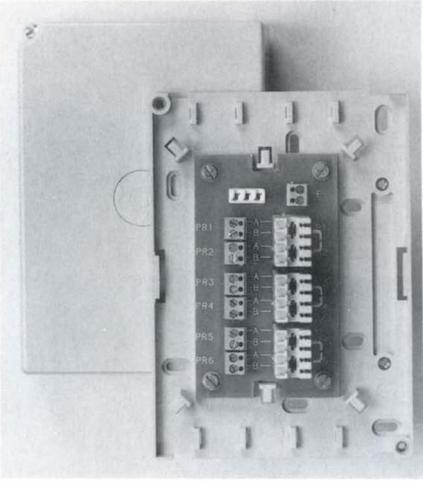
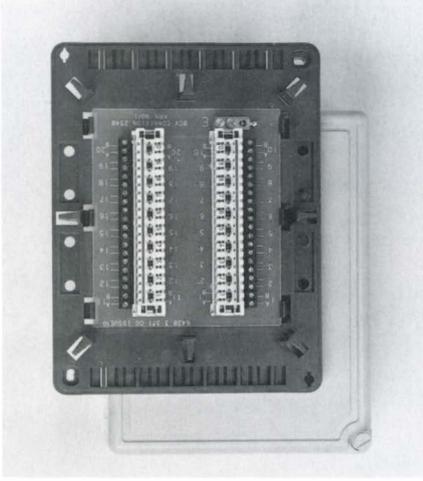
10.1 NTTA FOR LARGER INSTALLATIONS

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>10 Pair Switching Module (Brown)</p> <ul style="list-style-type: none"> Module remains disconnected until a bridging plug is inserted Incorporates the KRONE LSA-PLUS® IDC technique 		<p>6089/1/851/00</p> <p>Pack Qty 10</p>
<p>Bridging Plug 1 Pair</p> <ul style="list-style-type: none"> For use in conjunction with brown 10 pair switching modules Connects incoming lines to user lines during normal operation 		<p>6526/1/009/00</p> <p>Pack Qty 100</p>
<p>NTTA PSTN Test Unit 10 Pair</p> <ul style="list-style-type: none"> Designed for use with backmount frames Components for testing up to 10 voice pairs simultaneously 		<p>6526/1/010/00</p> <p>Pack Qty 1</p>
<p>NTTA Telex Test Unit 10 Pair</p> <ul style="list-style-type: none"> Designed for use with backmount frames Components for testing up to 10 telex pairs simultaneously 		<p>6526/1/010/01</p> <p>Pack Qty 1</p>
<p>NTTA Test Cord (1 Metre)</p> <ul style="list-style-type: none"> Connects incoming lines to the test units during testing 		<p>6529/1/024/10</p> <p>Pack Qty 10</p>

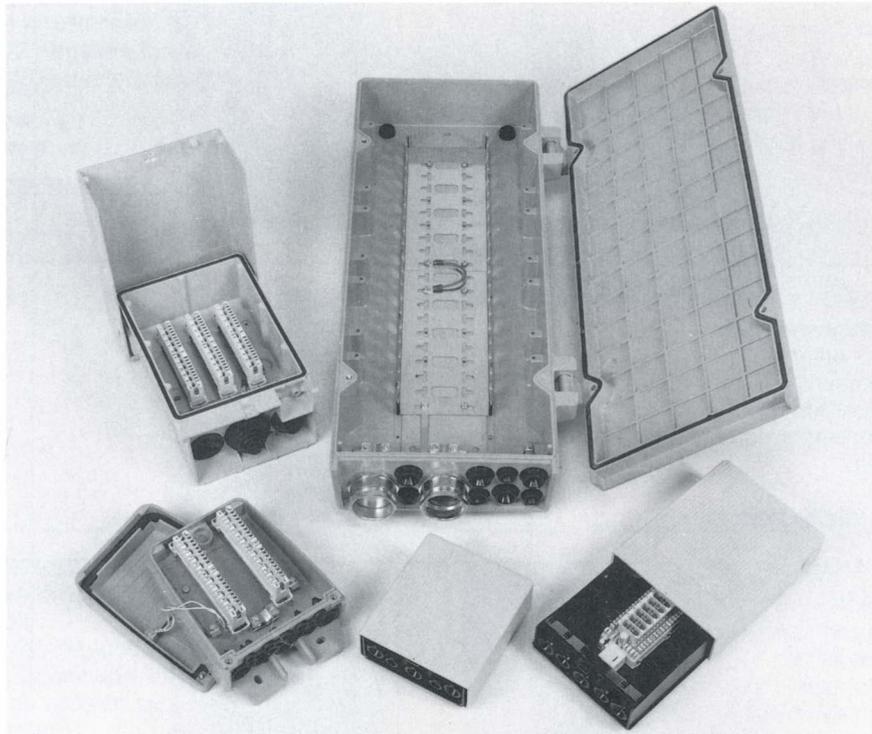
10.2 NTTA FOR UP TO 20 INCOMING LINES

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>NTTA Box Connection 251/10</p> <ul style="list-style-type: none"> • Plastic modular box • Components for testing 10 incoming lines • 2xPCB mounted switching modules • 10 bridging plugs • 4 jumper rings 		<p>6525/1/032/10</p> <p>Pack Qty 1</p>
<p>NTTA Box Connection 251/20</p> <ul style="list-style-type: none"> • Plastic modular box • Components for testing 20 incoming lines • 4xPCB mounted switching modules • 20 bridging plugs • 4 jumper rings 		<p>6525/1/032/20</p> <p>Pack Qty 1</p>
<p>NTTA Box Connection 251/10VP Pairs</p> <ul style="list-style-type: none"> • Plastic modular box • Components and protection for 10 incoming lines • 2xPCB mounted switching modules • 10 bridging plugs • 4 jumper rings • 1 disconnection module • 1 protector magazine • 10 gas discharge tubes • Earth facility 		<p>6525/1/033/10</p> <p>Pack Qty 1</p>

10.2 NTTA FOR UP TO 20 INCOMING LINES

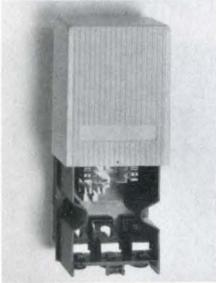
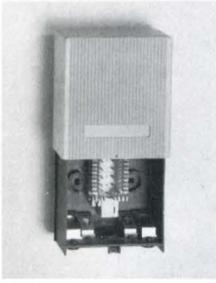
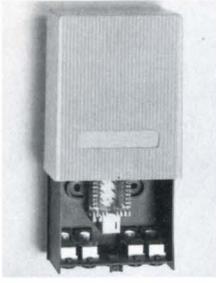
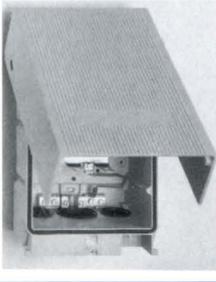
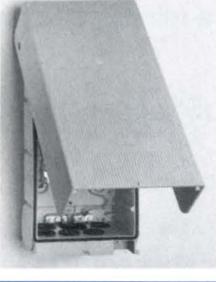
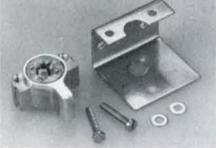
DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Connection Box 222</p> <ul style="list-style-type: none"> • Plastic box • Deep lidded 200 series box for 6 pair Network Termination Point (NTP) <p>Specification:</p> <ul style="list-style-type: none"> 1 base 1 lid with 2 screws 3 PCB mounted Strips Connexion 244A and One 3 way PCB module Strips Connexion 238 connected to 6 pair screw terminals <ul style="list-style-type: none"> • Overall size: 170mm high x 120mm wide x 65mm deep <p>BT Ref: Box Connexion 222</p>		<p>6429/1/036/00</p> <p>Pack Qty 1</p>
<p>Connection Box 254B</p> <ul style="list-style-type: none"> • Plastic modular box • Designed to accommodate 20 pairs using 2 PCB mounted 10 pair modules • Provides interface between 20 pairs IDC and 20 pairs screw terminals with disconnection • Earth facility • Removeable side panels with cable knockouts • Integral cable guides <p>Specification:</p> <ul style="list-style-type: none"> 1 base and lid 2 x 10 pair PCB mounted modules 1 earth bar <ul style="list-style-type: none"> • Overall size: 210mm high x 160mm wide x 90mm deep <p>BT Ref: Box Connexion 254B</p>		<p>6525/1/018/00</p> <p>Pack Qty 1</p>

SECTION 11 EXTERNAL PLANT

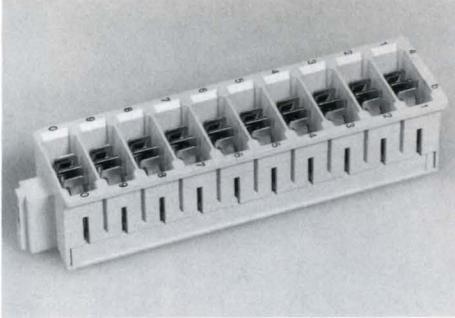
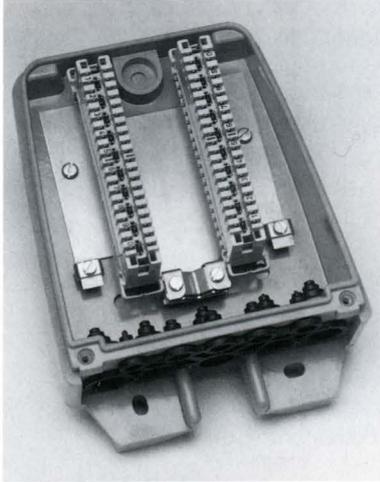
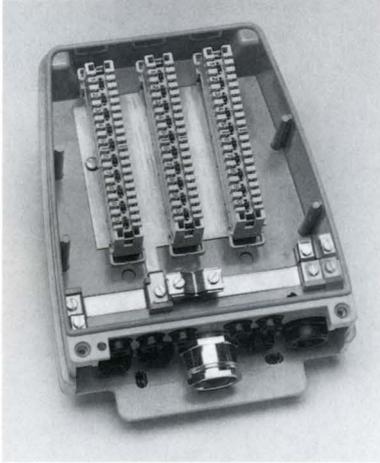


- **Cabinets**
- Weatherproof, offering thermal insulation and pressure equalisation
- Optimum security obtained by use of high impact resistant materials and tamper proof locking
- Full compatibility with KRONE LSA-PLUS® range which was originally designed for external use.
- **External Distribution Boxes**
- Weatherproof, glass fibre reinforced polyester box
- To IP54 standard
- Uses standard LSA-PLUS® connectors and tooling
- **A-Series Boxes**
- Pole or wall mounted
- Environmentally sealed cable entry point, suitable for internal and external use
- Mini-boxes (A 2, 6 & 10) complete with integral module and protection option
- Larger boxes fully compatible with LSA-PLUS® range
- Uses standard LSA-PLUS® tools

11.1 EXTERNAL PLANT

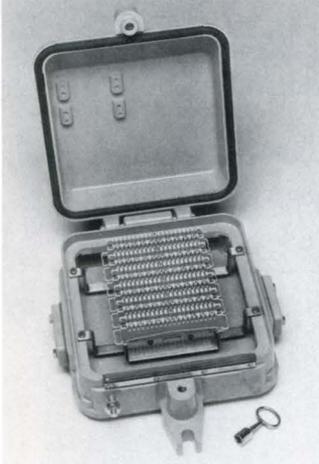
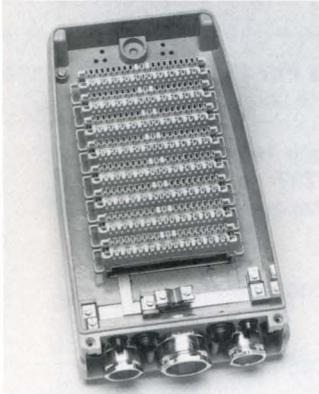
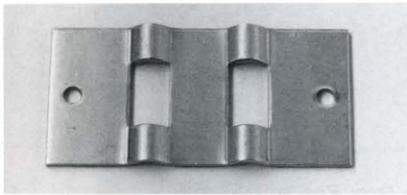
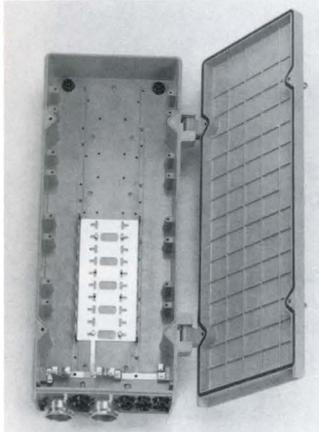
DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Kronection Box A2</p> <ul style="list-style-type: none"> • Designed for 2 pair connection • Self sealing cable entry • Integral cable restraint • Environmentally sealed box • Facilities for mounting arrester magazine • Integral test facility <p>Length=109mm Width=79mm Depth=46.5mm</p>		<p>6430/1/002/00</p> <p>Pack Qty 10</p>
<p>Kronection Box A6</p> <ul style="list-style-type: none"> • Designed for 6 pair connection • Self sealing cable entry • Integral cable restraint • Environmentally sealed box • Facilities for mounting arrester magazine • Integral test facility <p>Length=141mm Width=125mm Depth=54.5mm</p>		<p>6431/1/002/00</p> <p>Pack Qty 1</p>
<p>Kronection Box A10</p> <ul style="list-style-type: none"> • Designed for 10 pair connection • Self sealing cable entry • Integral cable restraint • Environmentally sealed box • Facilities for mounting arrester magazine • Integral test facility <p>Length=181mm Width=139mm Depth=54.5mm</p>		<p>6432/1/002/00</p> <p>Pack Qty 1</p>
<p>Kronection Box A30</p> <ul style="list-style-type: none"> • Designed to accommodate 3 x 10 Pair KRONE LSA-PLUS® modules • Modules to be ordered separately <p>Length=242mm Width=169mm Depth=100mm</p>		<p>6541/1/003/00</p> <p>Pack Qty 1</p>
<p>Kronection Box A100</p> <ul style="list-style-type: none"> • Designed to accommodate 10 x 10 Pair KRONE LSA-PLUS® modules • Modules to be ordered separately <p>Length=377mm Width=193mm Depth=110mm</p>		<p>6542/1/003/00</p> <p>Pack Qty 1</p>
<p>Safety Lock</p> <ul style="list-style-type: none"> • Designed for use with boxes A30 and A100 		<p>6541/2/006/00</p> <p>Pack Qty 1</p>

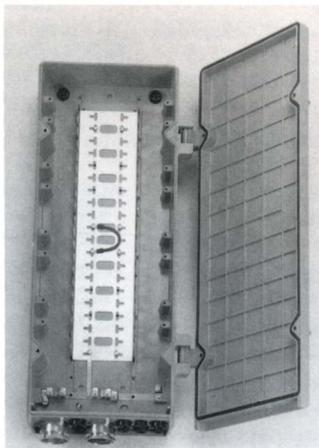
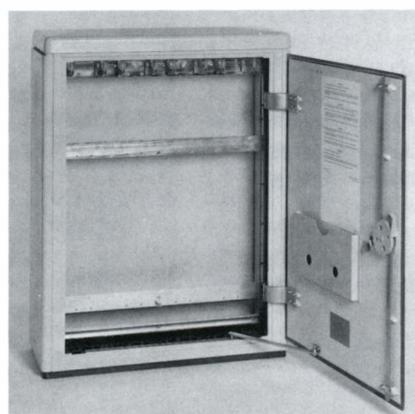
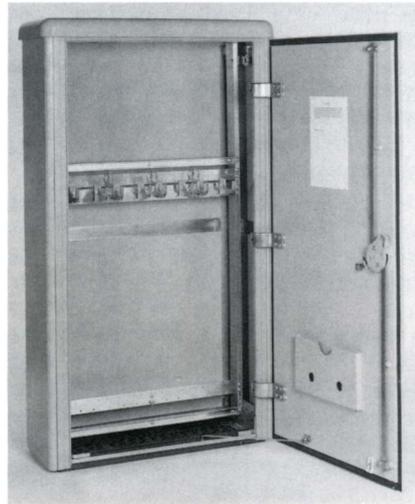
11.1 EXTERNAL PLANT

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Arrester Magazines</p> <ul style="list-style-type: none"> • For 2 pair (4 arresters for A2) • For 6 pair (12 arresters for A6) • For 10 pair (20 arresters for A10) <p>2 pole Arrester</p> <ul style="list-style-type: none"> • 230V dc sparkover (20A/15KV) <p>PLEASE NOTE: See section 3 for full range of arresters</p>		<p>6430/2/001/00 6431/2/001/00 6432/2/001/00</p> <p>6535/3/012/00</p> <p>Pack Qty 1</p>
<p>External Distribution Box For 10 & 20 Pairs</p> <ul style="list-style-type: none"> • Grey, weatherproof, glass fibre reinforced polyester box • Designed to accommodate 10 and 20 pairs using Strips Connexion 237 • Modules to be ordered separately • To IP54 standard • With flat cover • With deep cover to accommodate overvoltage protection <p>Length=198mm Width=145mm Depth=72mm (flat cover) Length=198mm Width=145mm Depth=95mm (deep cover)</p>		<p>5993/1/003/10 5993/1/013/10</p> <p>Pack Qty 1</p>
<p>External Distribution Box For 30 Pairs</p> <ul style="list-style-type: none"> • Grey, weatherproof, glass fibre reinforced polyester box • Designed to accommodate 30 pairs using Strips Connexion 237 • Modules to be ordered separately • To IP54 standard • With flat cover • With flat cover and bracket • With deep cover to accommodate overvoltage protection <p>Length=222.5mm Width=168mm Depth=77.5mm (flat cover) Length=222.5mm Width=168mm Depth=95.5mm (deep cover)</p>		<p>6276/1/002/10 6423/1/043/00 6423/1/043/01</p> <p>Pack Qty 1</p>



11.1 EXTERNAL PLANT

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>External Distribution Box For 60 Pairs</p> <ul style="list-style-type: none"> • Grey, weatherproof, glass fibre reinforced polyester box • Hinged lid • Designed to accommodate 60 pairs using Strips Connexion 237 • Modules to be ordered separately • To IP54 standard <p>Length=322mm Width=239mm Depth=120mm</p>		<p>6423/1/023/00</p> <p>Pack Qty 1</p>
<p>External Distribution Box For 80 Pairs</p> <ul style="list-style-type: none"> • Grey, weatherproof, glass fibre reinforced polyester box • Designed to accommodate 80 pairs using Strips Connexion 237 • Modules to be ordered separately • To IP54 standard <p>Length=313.5mm Width=172mm Depth=55mm</p>		<p>6423/1/008/00</p> <p>Pack Qty 1</p>
<p>Adaptor Plate</p> <ul style="list-style-type: none"> • Designed to mount KRONE LSA-PLUS® external distribution boxes onto poles 		<p>5993/2/033/10</p> <p>Pack Qty 1</p>
<p>Vaga 100</p> <ul style="list-style-type: none"> • Grey, weatherproof, glass fibre reinforced polyester box • Hinged lid • Designed to accommodate 100 pairs using Strips Connexion 237 • Modules to be ordered separately • To IP54 standard <p>Length=590mm Width=190mm Depth=10mm</p>		<p>6423/1/001/00</p> <p>Pack Qty 1</p>

DESCRIPTION	ILLUSTRATION	KRONE NO
<p>Vaga 200</p> <ul style="list-style-type: none"> • Grey, weatherproof, glass fibre reinforced polyester box • Hinged lid • Designed to accommodate 200 pairs using Strips Connexion 237 • Modules to be ordered separately • To IP54 standard <p>Length=590mm Width=190mm Depth=10mm</p>		<p>6423/1/002/00</p> <p>Pack Qty 1</p>
<p>KRONE 1.0m Cabinet</p> <p>Heat pressure moulded, glass fibre reinforced polyester, single door cabinet</p> <p>Complete with four backmount frames designed to accommodate 1200 pairs KRONE LSA-PLUS® modules</p> <p>Also available as a double door version for 2400 pairs</p> <p>Overall size: 1000mm high x 754mm wide x 322mm deep</p>		<p>5267/1/604/02</p> <p>6423/1/021/00</p> <p>5267/1/601/02</p> <p>Pack Qty 1</p>
<p>KRONE 1.4m Cabinet</p> <ul style="list-style-type: none"> • Heat pressure moulded glass fibre reinforced polyester, single door cabinet • Designed to accommodate 1200 pairs KRONE LSA-PLUS® modules and ancillary equipment • Overall size: 1400mm high x 754mm wide x 322mm deep <p>Specification: 4 x (30+1) backmount frames</p> <p>Backmount Frame 10 + 1 (for Cross Connection Cabinets)</p> <p>Locking options available Conversion locking kits Please contact KRONE for further details</p>		<p>6423/1/022/00</p> <p>Pack Qty 1</p> <p>5267/3/585/02</p> <p>Pack Qty 1</p>



12 EASY REFERENCE GUIDE

KRONE DRAWING No.	DESCRIPTION	PAGE	KRONE DRAWING No.	DESCRIPTION	PAGE
5267/1/601/02	KRONE 1.0m Cabinet, double door	71	6420/1/004/00	Distribution Frame 106D	44
5267/1/604/02	KRONE 1.0m Cabinet	71	6420/1/005/00	Distribution Frame 105D	43
5267/3/585/02	Back Mount Frame 10 + 1	71	6420/1/006/00	Distribution Frame 205D	44
5909/3/041/00	Earthing Rail 2/10	19	6420/1/013/00	Distribution Frame 108A	45
5993/1/003/10	External Distribution Box For 10 & 20 Pairs With flat cover	69	6420/1/025/01	19" Frame 108 Type	45
5993/1/013/10	External Distribution Box For 10 & 20 Pairs With deep cover	69	6420/1/032/00	City 80 Frame	42
5993/2/033/10	Adaptor Plate	70	6420/1/035/30	City 80 Frame - Additional legs	42
6036/1/810/00	8 Pair Disconnection Module	9	6420/1/040/00	"V" Series Frame (V1000)	42
6036/1/850/00	8 Pair Switching Module	9	6420/1/041/00	"V" Series Frame (V820)	42
6036/2/003/01	8 Pair Protector Magazine	18, 28	6420/1/043/00	City 80 Frame - Lockable side panel	42
6036/2/005/00	8 Pair Label Holder	15	6420/1/044/00	City 80 Frame - Lockable front panel	42
6048/1/001/03	3 Way PCB Connection Module	11	6420/1/045/00	Lockable front panel V820	42
6048/1/001/04	4 Way PCB Disconnection Module	11	6420/1/046/00	Lockable side panel V820	42
6048/1/003/03	3 Way PCB Connection Module Dovetail	11	6420/1/047/00	Lockable front panel V1000	42
6048/1/003/04	4 Way PCB Connection Module Dovetailed	11	6420/1/048/00	Lockable side panel V1000	42
6089/1/810/00	10 Pair Disconnection Module (Cream)	8	6420/1/049/00	Dust cover for V820 or V1000	42
6089/1/811/00	10 Pair Disconnection Module (Green)	8	6420/1/050/00	Single Vert Frame 108A Type	44
6089/1/812/00	10 Pair Disconnection Module (Blue)	8	6420/2/014/00	Frame Covers - Frame 105D	43
6089/1/820/00	10 Pair Connection Module	8	6423/1/001/00	Vaga 100	70
6089/1/830/00	20 Pair Connection Module	8	6423/1/002/00	Vaga 200	71
6089/1/840/00	76 Way Earth Module (Red)	8	6423/1/008/00	External Distribution Box For 80 Pairs	70
6089/1/841/00	20 Way Earth Module (Red)	8	6423/1/021/00	KRONE 1.0m Cabinet 1200 pairs	71
6089/1/842/00	80 Way Commoning Module	9	6423/1/022/00	KRONE 1.4m Cabinet	71
6089/1/851/00	10 Pair Switching Module (Brown)	9, 64	6423/1/023/00	External Distribution Box For 60 Pairs	70
6089/2/081/00	10 Pair Change-over Adaptor	27	6423/1/043/00	External Distribution Box For 30 Pairs With flat cover and bracket	69
6089/2/093/00	1 Pair Change-over Adaptor	27	6424/3/005/01	External Distribution Box For 30 Pairs With deep cover	69
6089/2/097/00	10 Pair Dust Cover	24	6424/3/005/02	Backmount Frame 5/11/1A	47
6089/3/006/00	Red Marking Caps	15, 29	6424/3/005/03	Backmount Frame 5/11/2A	47
6089/3/023/00	Grey Plug Number Sets 1-9	16, 29	6424/3/005/05	Backmount Frame 5/11/3A	47
6089/3/023/01	Grey Plug Number Sets 10-100	16, 29	6424/3/005/07	Backmount Frame 5/11/5A	47
6089/3/050/00	Cover Strips	27	6424/3/007/10	Backmount Frame 5/11/7A	47
6089/3/055/05	1 Pair Disconnection Plug (Black)	16, 28	6424/3/007/13	Backmount Frame 5/30/10A	47
6089/3/056/00	1 Pair Blind Plug (Red)	16, 28	6424/3/007/15	Backmount Frame 5/30/13A	47
6092/1/810/00	10 Pair Label Holder	14	6424/3/007/20	Backmount Frame 5/30/15A	47
6092/1/811/00	10 Pair Label Holder (Green)	14	6424/3/009/30	Backmount Frame 5/30/20A	47
6092/1/812/00	10 Pair Label Holder (Blue)	14	6424/3/010/34	Backmount Frame 5/50/30A	47
6092/1/840/00	10 Pair Label Strip	15	6425/1/001/00	Backmount Frame 5/60/34A	47
6092/1/850/00	8 Pair Label Holder	15	6425/2/001/00	Distribution Frame 100A	43
6092/1/820/00	10 Pair Label Holder	14	6425/2/003/00	Backmount Frame for 200 pairs	43
6092/1/830/00	10 Pair Label Holder	14	6426/1/004/01	Backmount Frame for 100 pairs	43
6092/3/016/00	Dust Cover Flat	24	6426/1/011/00	Test Adaptor 5A	27
6092/3/019/00	Label Insert	14	6426/1/015/00	10 Pair PCB Disconnection Module Printed 1-0	12
6092/3/019/02	Label Insert	14	6426/1/020/**	10 Pair PCB Disconnection Module Printed 0-1	12
6092/3/034/00	Dust Cover Deep	24	6426/1/021/00	2 Pair PCB Disconnection Module	12
6196/1/001/11	10 Pair Low Profile Connection Module	10	6426/1/022/00	Attenuator Plugs 1.0dB-30.0dB	27
6196/1/003/10	88 Way Low Profile Earth Module	10	6427/1/001/00	Line Resistor Unit 56 Ohms	27
6196/1/007/11	10 Pair Low Profile Connection Module	10	6427/1/007/00	Test Module	26
6196/2/002/00	20 Pair Low Profile Connection Module	10	6427/1/001/01	19" Subrack (Standard) size 3U:150 pairs	46
6276/1/002/10	External Distribution Box For 30 Pairs	69	6427/1/007/01	19" Subrack (Standard) size 3U:150 pairs	46
6417/1/810/02	Insertion Tool	24	6427/1/007/00	19" Subrack (Recessed) size 4U:180 pairs	46
6417/1/830/00	Disposable Insertion Tool	24	6427/1/007/01	19" Subrack (Recessed) size 4U:180 pairs	46
6417/2/002/00	Test Adaptor	26	6427/1/016/00	19" Subrack (Standard) size 4U:180 pairs	46
6417/2/017/00	6 Pole Plug Set	26	6427/1/016/01	19" Subrack (Standard) size 4U:180 pairs	46
6418/1/810/00	10 Pair Disconnection Plug	28	6427/1/017/00	19" Subrack (Recessed) size 3U:150 pairs	46
6418/1/811/00	8 Pair Disconnection Plug	28			
6418/2/401/00	4 Pole Plug Set	26			

12 EASY REFERENCE GUIDE

KRONE	PAGE	KRONE	PAGE
DRAWING No.	DESCRIPTION	DRAWING No.	DESCRIPTION
6427/1/017/01	19" Subrack (Recessed) size 3U:150 pairs	6529/1/006/00	8 Pole Test Cord
6428/1/290/00	Connection Box 300 Series (2 base)	6529/1/010/00	8 Pole Patching Cord
6428/2/397/00	Connection Box 500 200 Pair	6529/1/010/01	8 Pole Patching Cord
6428/2/403/00	Connection Box 500 400 Pair	6529/1/011/00	4 Pole Patching Cord
6428/2/404/00	Connection Box 500 200 Pair	6529/1/011/01	4 Pole Patching Cord
6428/2/417/00	Connection Box 500 100 Pair	6529/1/015/00	RJ45 Patch Cord Length 0.5m
6428/3/001/00	226 Fixing Post	6529/1/015/01	RJ45 Patch Cord Length 1.0m
6428/3/002/00	Jumper Ring 300 Series	6529/1/015/02	RJ45 Patch Cord Length 1.5m
6428/3/003/01	Plate Cable Fixing	6529/1/015/03	RJ45 Patch Cord Length 2.0m
6428/3/003/02	Plate Cable	6529/1/015/04	RJ45 Patch Cord Length 2.5m
6428/3/006/00	160mm Cable Tie	6529/1/015/05	RJ45 Patch Cord Length 3.0m
6428/3/007/01	226 Fixing Screw	6529/1/015/06	RJ45 Patch Cord Length 5.0m
6428/3/037/01	Base Clamp and Screws	6529/1/015/07	RJ45 Patch Cord Length 10.0m
6428/3/078/00	Jumper Ring 500 Series	6529/1/016/00	RJ45 Patch Cord Length 0.5m
6429/1/016/00	Connection Box 201C	6529/1/016/01	RJ45 Patch Cord Length 1.0m
6429/1/017/00	Connection Box 203C	6529/1/016/02	RJ45 Patch Cord Length 1.5m
6429/1/025/00	Connection Box 220A	6529/1/016/03	RJ45 Patch Cord Length 2.0m
	With Backmount Frame	6529/1/016/04	RJ45 Patch Cord Length 2.5m
6429/1/031/00	Connection Box 220A	6529/1/016/05	RJ45 Patch Cord Length 3.0m
	With Swing Frame	6529/1/016/06	RJ45 Patch Cord Length 5.0m
6429/1/036/00	Connection Box 222	6529/1/016/07	RJ45 Patch Cord Length 10.0m
6430/1/002/00	Kronection Box A2	6529/1/020/01	2 Pole Test Cord
6430/2/001/00	Arrester Magazines For 2 pair	6529/1/021/01	2 Pole Test Cord
	(4 arresters for A2)	6529/1/022/01	2 Pole Connection Cord
6431/1/002/00	Kronection Box A6	6529/1/024/10	NTTA Test Cord (1 Metre)
6431/2/001/00	Arrester Magazines For 6 pair	6529/1/041/01	4 Pole Test Cord
	(12 arresters for A6)	6529/1/042/01	4 Pole Connection Cord
6432/1/002/00	Kronection Box A10	6530/1/017/00	Connection Box 301A
6432/2/001/00	Arrester Magazines For 10 pair	6530/1/017/30	Connection Box 301A
	(20 arresters for A10)		With Tamper Proof Lock
6504/1/810/00	ABS Disconnection Module	6530/1/055/00	Connection Box 304A
6504/1/850/00	ABS Switching Module	6530/1/070/00	Earth Post And Lead
6521/1/001/00	The Comprehensive Guide to	6530/3/014/02	Skirt For Connection Box 301A (Brown)
	Telecommunication Engineering Practice	6532/2/009/00	Connection Box 510
6525/1/018/00	Connection Box 254B	6532/2/010/00	Connection Box 520
6525/1/022/00	Connection Box 250/5	6532/2/011/00	Connection Box 530
6525/1/024/00	Connection Box 250/7	6533/1/100/16	16 Way RJ-K Series RJ45 Patch Panel
6525/1/027/00	Connection Box 251	6533/1/200/10	16 Way RJ-K Series RJ11 Patch Panel
6525/1/032/10	NTTA Box Connection 251/10	6533/1/300/16	16 Way RJ-K Series DEC MMJ Patch Panel
6525/1/032/20	NTTA Box Connection 251/20	6533/1/500/15	RJ-K Shared Service Patch Panel
6525/1/033/10	NTTA Box Connection 251/10VP Pairs	6534/1/001/00	Label
6526/1/009/00	Bridging Plug 1 Pair	6534/1/003/00	Label
6526/1/010/00	NTTA PSTN Test Unit 10 Pair	6535/1/001/00	Plug-in RFI Protector Module
6526/1/010/01	NTTA Telex Test Unit 10 Pair	6535/1/002/00	Plug-in RFI Protector Module
6527/1/006/00	Jumper Bar 1U		With Isolated Ground
6527/1/007/01	Blank Panel 1U	6535/1/010/00	10 Pair Protector Magazine
6527/1/007/02	Blank Panel 2U	6535/3/001/00	2 Pole Arrester
6527/1/007/03	Blank Panel 3U	6535/3/001/01	2 Pole Arrester
6527/1/009/12	19" Wall Mounting Cabinet 12U	6535/3/002/00	3 Pole Arrester (K14A/1)
6527/1/009/16	19" Wall Mounting Cabinet 16U	6535/3/003/00	3 Pole Arrester (K14A)
6527/1/009/24	19" Wall Mounting Cabinet 24U	6535/3/004/00	3 Pole Arrester
6527/1/010/00	RJ-K Series Outrigger	6535/3/005/00	3 Pole Arrester
6527/1/200/24	24 Way 3U Voice Patch Panel	6535/3/007/00	3 Pole Arrester (K14A/1 PCB)
6527/1/200/50	50 Way 3U Voice Patch Panel	6535/3/008/00	3 Pole Arrester (K14A PCB)
6527/1/400/24	24 Way 3U Voice Master Patch Panel	6535/3/012/00	2 Pole Arrester
6527/1/600/16	16 Way 1U RJ45 Patch Panel	6535/3/020/00	3 Pole Arrester (21A PCB)
6527/1/600/32	32 Way 2U RJ45 Patch Panel	6536/1/100/00	Mounting Adaptor Module White Shutter
6527/1/600/50	50 Way 3U RJ45 Patch Panel		8 Wire (RJ45)

12 EASY REFERENCE GUIDE

KRONE		PAGE	KRONE		PAGE
DRAWING No.	DESCRIPTION		DRAWING No.	DESCRIPTION	
6536/1/101/00	Single Wall Outlet White Shutter 8 wire (RJ45)	58	6536/1/310/00	Mounting Adaptor Module Black Shutter 6 wire (RJ11)	60
6536/1/102/00	Double Wall Outlet White Shutter 8 wire (RJ45)	59	6536/1/311/00	Single Wall Outlet Black Shutter 6 wire (RJ11)	58
6536/1/110/00	Mounting Adaptor Module Black Shutter 8 wire (RJ45)	60	6536/1/312/00	Double Wall Outlet Black Shutter 6 wire (RJ11)	59
6536/1/111/00	Single Wall Outlet Black Shutter 8 wire (RJ45)	58	6536/1/400/00	Mounting Adaptor Module White Shutter 6 wire (DEC MMJ)	60
6536/1/112/00	Double Wall Outlet White Shutter 8 wire (RJ45)	59	6536/1/401/00	Single Wall Outlet White Shutter 6 wire (DEC MMJ)	58
6536/1/200/00	Mounting Adaptor Module White Shutter 8 wire (RJ45) keyed	60	6536/1/402/00	Double Wall Outlet White Shutter 6 wire (DEC MMJ)	59
6536/1/201/00	Single Wall Outlet White Shutter 8 wire (RJ45) keyed	58	6536/1/410/00	Mounting Adaptor Module Black Shutter 6 wire (DEC MMJ)	60
6536/1/202/00	Double Wall Outlet White Shutter 8 wire (RJ45) keyed	59	6536/1/411/00	Single Wall Outlet Black Shutter 6 wire (DEC MMJ)	58
6536/1/210/00	Mounting Adaptor Module Black Shutter 8 wire (RJ45) keyed	60	6536/1/412/00	Double Wall Outlet Black Shutter 6 wire (DEC MMJ)	59
6536/1/211/00	Single Wall Outlet Black Shutter 8 wire (RJ45) keyed	58	6536/1/601/10	RJ-K Outlet Converter PABX Master	61
6536/1/212/00	Double Wall Outlet Black Shutter 8 wire (RJ45) keyed	59	6536/1/601/11	RJ-K Outlet Converter Full Master	61
6536/1/300/00	Mounting Adaptor Module White Shutter 6 wire (RJ11)	60	6536/1/601/12	RJ-K Outlet Converter Secondary	61
6536/1/301/00	Single Wall Outlet White Shutter 6 wire (RJ11)	58	6536/3/035/00	Mounting Plate for BS4662 Box	60
6536/1/302/00	Double Wall Outlet White Shutter 6 wire (RJ11)	59	6536/3/035/01	Mounting Plate for Ackermann Box	60
			6536/3/100/00	Mounting Adaptor Cutter	62
			6541/1/003/00	Kronection Box A30	68
			6541/2/006/00	Safety Lock	68
			6542/1/003/00	Kronection Box A100	68
			6624/2/201/04	2 Pole Plug Set	26

SECTION 13 GENERAL INFORMATION

Terms and Conditions of Sale

New Accounts

Customers have the option of:

1. Sending a cheque with order inclusive of VAT at the appropriate rate
2. Requesting a 30 day trading account

Customers should allow a period of 3-4 weeks between requesting a trading account and confirmation from KRONE that an account has been opened for them. Granting of an account is at KRONE'S discretion.

Requests can either be made on:

- a) an official KRONE request form available from our Accounts Department or
- b) a letter on a customer's company letterhead quoting two trading and a bankers reference stating level required and details of product volumes.

Order Processing

Orders placed on KRONE of (currently) up to £500 value may be processed through our distributors for prompt service.

Orders over this amount can be dealt with by KRONE directly.

Help and advice for every size order is available from KRONE'S Sales Office.

KRONE cannot accept verbal orders. All orders should be placed by post, fax or telex.

When ordering, please quote the KRONE Number in the right margin of the catalogue. This number refers to the single unit described, packed in standard quantities, for example:

20 x 6089/1/810/00 (10 Pair Disconnection Module, page 8) means a total order of 20 modules in two packs of 10.

Please order in multiples of pack quantities as unfortunately packs cannot be subdivided; contact the Sales Hotline for minimum order quantities - 0242 264444.

ADDITIONAL LITERATURE

KRONE LSA-PLUS® (IDC) Cable Reference Guide



The Industry Guide to Telecommunications Engineering Practice

The Industry's definitive engineering guide to the telecommunications equipment installation process in the UK. Produced and published by the Telecommunications Industry Association (TIA), the guide clearly defines installation methods, materials and regulations (such as BS 6701) in practical applications, as well as prescribing '**good engineering practice**' for telecommunications staff at all levels.

Contents Include:

- **Safety**
- **Planning/Surveys**
- **Installation and Standards**
- **Structured Cabling**
- **Fibre Optic Cabling**
- **Tests and Acceptance**
- **Statutory/Regulatory Requirements**
- **Engineering Practice**

KRONE NO. 6521/1/001/00

Pack Qty

1

CONDITIONS OF SALE

1. DEFINITIONS

1.1 In these conditions:-

- "the Seller" means Krone (U.K.) Technique Limited;
- "Goods" means all or, where the context so admits, any part of the equipment, appliances, products, materials and articles supplied by the Seller including, except where otherwise stated, Software;
- "the Buyer" means the person who buys or has agreed to buy Goods;
- "Quotation" means any quotation or tender issued by the Seller;
- "Contract" means any contract between the Seller and the Buyer for the sale and purchase of goods;
- "Software" means all or any part of the computer programs supplied by the Seller, including the media on which they are recorded and all operating manuals, technical literature and user instructions supplied in connection therewith.

2. GENERAL

- 2.1 These Conditions shall apply to every Quotation and Contract. The Seller shall not be bound by any terms or conditions which may be inconsistent with these Conditions, no variation of, or addition to which, shall be effective unless in writing and signed by the Seller.
- 2.2 Any illegality or invalidity of these Conditions or any part of any Condition shall not affect the legality, validity or enforceability of the remainder of these Conditions or the other parts of such Condition as the case may be.
- 2.3 Unless previously withdrawn, a Quotation is open for acceptance within either the period stated therein, or, if none is stated, 30 days from its issue. Any such acceptance by the Buyer shall not create a Contract but shall be deemed to be an order request placed by the Buyer.
- 2.4 Orders of a value deemed appropriate by Krone will be referred to the discretion of Krone to a Distributor of Krone Products.

3. DESCRIPTIONS AND SPECIFICATIONS

- 3.1 All programs, manuals, specifications, descriptions, drawings, illustrations, measures or other information provided by or on behalf of the Seller in relation to Goods are approximate, however provided, shall not form part of a Contract and, with respect thereto, the Seller reserves the right to supply Goods incorporating modifications, or amendments.

4. PRICES AND TERMS OF PAYMENT

- 4.1 Unless otherwise indicated or agreed in writing by the Seller:-

- 4.1.1 all prices and charges, wheresoever appearing, are exclusive of VAT and, where applicable, any additional or substitute taxes, duties, fees or charges whatsoever, all of which shall be paid by the Buyer.
- 4.2 all prices, wheresoever appearing, including delivery of Goods in standard packing to the mainland premises of the Buyer in the United Kingdom.

4.3 The Seller may, at its discretion, revise Contract prices:-

- 4.3.1 at any time before delivery to take account of alteration or modification as provided in Condition 3, variations in the cost of labour, services, overheads, materials, purchased components or finished goods used in fulfilment of the Contract, freight, insurance and also variations due to legislation, governmental orders, changes in any national agreement covering wages and conditions and in regulations or guidelines applying directly or indirectly to Goods including, but without any limitation, changes in currency exchange rates;
- 4.3.2 at any time before payment to take account of any variation in the rate at which the Seller is able to purchase for sterling in the Official London Inter Bank Foreign Exchange Market for immediate delivery the currency of the country from which the Seller obtains Goods.

4.4 PAYMENT

- 4.4.1 Unless otherwise agreed, payment is due within 30 days following despatch of Goods or notification by the Seller to the Buyer that the Goods are available "Ex-Works", whichever first occurs.
- 4.4.2 Interest shall accrue on overdue payments at the rate of 2% per annum above the Barclays Bank Plc base lending rate current at the date any payment becomes overdue.
- 4.4.3 In the event of the Buyer refusing to accept delivery of the Goods then it is agreed that the Seller shall be able to claim a minimum sum of 10% of the price of the Goods as liquidated and ascertainable damages due from the Buyer for neglecting or refusing to perform its part of the Contract, but so that this Condition shall not prevent the Seller claiming a greater amount of damages where the Seller's loss or damage exceeds such percentage.

5. DELIVERY

- 5.1 Unless otherwise indicated in writing by the Seller, Goods will be delivered loaded at the Buyer's premises on the mainland of the United Kingdom and the Buyer hereby undertakes that he will at all times be able to accept delivery during normal business hours without prior notice.
- 5.2 Risk in Goods shall pass to the Buyer on delivery.
- 5.3 The Seller shall be entitled to make partial deliveries or deliveries by instalments and these Conditions shall apply to each such delivery.
- 5.4 All delivery and performance dates or periods are approximate and in no circumstances will they form part of a Contract. The Seller will use all reasonable endeavours to deliver and perform by the date(s) or within the period(s) specified or, if no date(s) is/are specified, within a reasonable time; however no liability will be accepted for any expense, loss or damage, whether direct or consequential, occasioned by delay in delivery or performance whatsoever caused.
- 5.5 Without prejudice to the rest of the Condition, or to the Seller's other rights, if the Buyer does not, for any reason, accept delivery of Goods the Seller shall be entitled to deliver such Goods by storing them or procuring their storage. The cost of storage being added to the price of the stored Goods on a daily basis.
- 5.6 In no circumstances shall the Seller be obliged to give the notices specified in Section 32(3) of the Sale of Goods Act 1979.

6. INSTALLATION

- 6.1 Unless expressly agreed in writing (which agreement shall specify the charge for such work) the Seller will not undertake the installation and/or testing at the Buyer's premises of Goods (such work being hereinafter referred to as "Services") but if the Seller does agree to supply Services then these Conditions shall apply in full to the supply of Services. "Contract" shall be interpreted as meaning any contract between the Seller and Buyer for the sale and purchase of Goods and/or the supply of Services to the Buyer and "Goods" shall where the context so admits, mean Goods and/or Services. The Buyer shall grant the Seller's employees free access to the Buyer's premises during normal business hours for the purpose of supplying the Services. If the Buyer wishes the Seller's employees to work outside normal business hours in connection with the supply of Services, and the Seller agrees, then the Buyer shall pay to the Seller such additional charges as the Seller shall make from time to time. The Buyer will at his sole risk and expense arrange for and provide all equipment and personnel required for all handling and lifting required in connection with the Services and all such handling and lifting will

be at the Buyer's sole risk.

7. RETENTION OF TITLE

- 7.1 Property in Goods supplied under a Contract shall not pass until the first of the following occurs:-
 - 7.1.1 payment by the Buyer of all sums due under the Contract under which the Goods were delivered; and
 - 7.1.2 the Buyer in the ordinary course of its business incorporating Goods into a new product so that such incorporated Goods cannot be severed from such product or cannot be severed without materially damaging the component parts of such product, whereupon property in such incorporated Goods only shall forthwith pass to the Buyer; and
 - 7.1.3 the Seller waiving its rights under this Condition in respect of such Goods as shall be specified.
- 7.2 Until property in Goods passes, the Buyer shall hold Goods as bailee for the Seller.
- 7.3 Notwithstanding that property in Goods has not passed to the Buyer the Buyer may nevertheless sell, use or consume Goods in the ordinary course of its business and incorporate Goods in new products manufactured or assembled by the Buyer in the ordinary course of its business.
- 7.4 Where the Buyer sells:-
 - 7.4.1 Goods before property in such Goods has passed to the Buyer; and/or
 - 7.4.2 any new products incorporating Goods where property in such Goods has not passed to the Buyer; and/or
 - 7.4.3 any new products incorporating Goods where property in such Goods has passed to the Buyer in accordance with Condition 7.1.2 above

the Buyer shall effect such sale as fiduciary agent of the Seller. The Buyer shall pay all proceeds of such sales into a separate bank account opened for such purpose, full details of which shall be disclosed to the Seller. Such proceeds shall belong to the Seller save that the Buyer shall be under no obligation to account to the Seller in such manner for any sum that exceeds the total sums due under the Contract under which the Goods were delivered and under any other contract after deduction of any monies received by the Seller in relation thereto.

7.5 Until property in Goods has passed to the Buyer:-

- 7.5.1 any Goods remaining in the possession of the Buyer shall be stored separately from all other property of the Buyer and/or of any third party so as to be clearly identifiable as belonging to the Seller and, where new products incorporate Goods, the Buyer shall maintain sufficient records to enable such products to be identified and for such goods to be quantified and identified as belonging to the Seller; and
- 7.5.2 any sale by the Buyer of Goods or of new products incorporating Goods shall be made pursuant to a written agreement which shall expressly state that the Buyer sells as sole principal. This shall in no way derogate from the relationship of principal and fiduciary agent between the Seller and the Buyer that is strictly limited to the express power granted to the Buyer pursuant to this Condition; and
- 7.5.3 the Buyer shall keep Goods insured against all usual risks in their full invoice value. In the event of loss or damage to Goods the Buyer shall promptly claim upon such insurance. Any insurance proceeds shall belong to the Seller and shall be paid to the Seller immediately upon receipt by the Buyer save that the Buyer shall be under no obligation to account to the Seller in such manner for any amount that exceeds the total sums due under the Contract under which the Goods were delivered after deduction of any monies received by the Seller in relation thereto.

7.6 The Seller may at any time revoke the powers of the Buyer referred to in Condition 7.3 above by notice to the Buyer:-

- 7.6.1 if any payment remains outstanding after due date under the Contract under which the Goods were delivered; and/or
- 7.6.2 if the Seller has bona fide doubts as to the solvency of the Buyer.

7.7 The powers of the Buyer referred to in Condition 7.3 above shall automatically cease if the Buyer:-

- 7.7.1 is the subject of a petition for a bankruptcy order or of an application for an interim order under Part VIII of the Insolvency Act 1986; and/or
- 7.7.2 compounds with its creditors or has a receiver or manager appointed in respect of all or any part of its assets or is the subject of an application for an administration order or of any proposal for a voluntary arrangement under Part I of the Insolvency Act 1986 or enters into liquidation whether compulsorily or voluntarily otherwise than for the purpose of amalgamation or reconstruction and in such a manner that the company resulting from such amalgamation or reconstruction shall (if a different legal entity) effectively agree to be bound by and assume the obligations on the part of the Buyer under the Contract; and/or
- 7.7.3 undergoes any analogous act or proceedings under foreign law.

7.8 Upon termination of the powers of the Buyer pursuant to Conditions 7.6 and 7.7 above the Buyer shall place Goods in its possession or under its control and unsold at the disposal of the Seller and the Seller shall be entitled to enter upon any premises of the Buyer for the purpose of removing such Goods. The Buyer's obligation to place such Goods at the disposal of the Seller shall extend to any Goods which have been incorporated into new products provided that their severance from such new products is possible without materially damaging the components thereof.

8. WARRANTY

- 8.1 The Seller warrants that if, within 12 months of the delivery of Goods, the Buyer gives notice that it considers them to be defective, providing a full description of the respects in which they are allegedly defective, then, if the Seller is satisfied, after inspection or otherwise, that such Goods are in fact defective, they will be repaired (at the Buyer's premises (in which case the Buyer shall allow the Seller free access to its premises for such purpose) or at the Seller's works, as necessary) or exchanged for new Goods at the Seller's discretion PROVIDED THAT the Seller shall not be obliged to incur costs (excluding any subsequent forwarding costs) in so doing exceeding the invoice value of the defective Goods. No Goods shall be returned, for whatever reason, without the Seller's prior written authorisation, and then only at the Buyer's expense, and properly packed and clearly marked. Further, if so requested the Buyer will allow the Seller free access to its premises for initial inspection purposes and reimburse the Seller for all its expenses incurred in connection with such visit and initial inspection unless repair work is undertaken during such visit. This warranty shall constitute the Buyer's sole remedy in respect of the supply of defective Goods and shall only be applicable if:-
 - 8.1.1 the defect was due solely to defective materials or defective workmanship; and
 - 8.1.2 no alterations or repairs have been made to the Goods except with the written consent of the Seller; and
 - 8.1.3 the defect was not caused by incorrect or negligent handling, disregard of instructions, abnormal use, overloading, unsuitable work, faulty installation or any other default by the Buyer, its servants or agents; and
 - 8.1.4 the defect was not caused by any other matter beyond the

Seller's control occurring after delivery.

8.2 The Seller shall bear any costs of forwarding repaired or exchange Goods to the Buyer. Where the Seller notifies the Buyer that returned Goods are not defective then:-

- 8.2.1 the Buyer shall collect them within 4 weeks of such notice, failing which the Seller shall be entitled to sell them as second hand and remit the proceeds to the Buyer after deducting the expenses of the sale; and
- 8.2.2 the Seller shall be entitled to invoice the Buyer for administrative and inspection costs in respect of returned Goods, a minimum of £50 and a maximum of 10% of the invoiced price of the returned Goods.

8.3 The benefit of this warranty shall not be assignable.

9. SELLER'S LIABILITY

9.1 The warranty contained in Condition 8 extends to neither second-hand and reconditioned Goods nor to Goods not manufactured by the Seller which carry only the warranty, if any, of their manufacturer, to the benefit of which the Buyer is entitled insofar as the Seller has power to transfer it.

9.2 The terms of Condition 8 are in lieu of all conditions, warranties and statements of whatever nature in respect of Goods whether expressed or implied by statute, trade, custom or otherwise (including but without limitation any such conditions, warranty or statement as to the quality or description of Goods or their fitness for a particular purpose) and any such condition, warranty or statement is hereby excluded.

9.3 Without prejudice to the terms of Conditions 5.4, 9.2, 9.4 and 9.6, the Seller will accept liability for any loss or damage sustained by the Buyer as a direct result of any breach of Contract, or of any other liability of the Seller (including negligence) in respect of the manufacture and/or supply of Goods for, or under, a Contract, provided that such liability shall be limited to payment of damages not exceeding the invoiced value of such Contract.

9.4 Subject to the terms of Condition 9.6, the Seller shall not be liable for the following loss or damage whatsoever caused (even if foreseeable or in the Seller's contemplation):-

- 9.4.1 loss of profits, business or revenue whether sustained by the Buyer or any other person; and
- 9.4.2 special, indirect or consequential loss or damage, whether sustained by the Buyer or any other person; and
- 9.4.3 any loss arising from any claim made against the Buyer by any other person.

9.5 The Buyer shall indemnify the Seller against all claims, actions, costs, expenses (including court costs and legal fees) or other liabilities whatsoever in respect of:-

- 9.5.1 any liability arising under the Consumer Protection Act 1987 unless such liability is caused by the negligent act or omission of the Seller in the manufacture and/or supply of Goods; and
- 9.5.2 any negligent or willful act or omission of the Buyer in relation to the receipt, use, sale or supply of Goods.

9.6 Nothing contained in these Conditions shall purport to exclude or restrict any liability the exclusion or restriction of which is prohibited by Section 2(1) and Section 6(1) of the Unfair Contract Terms Act 1977 provided however that this condition 9.6 shall not apply to a Contract which is as described in Section 26(3) of that Act and there is hereby excluded from any such Contract any condition, warranty or statement whether expressed or implied by statute, trade, custom or otherwise that the ownership use or sale of Goods by the Buyer does not infringe the rights of any third party.

NOTHING IN THESE CONDITIONS SHALL AFFECT THE STATUTORY RIGHTS OF A CONSUMER

10. TERMINATION

On the occurrence of any of the events mentioned in Condition 7.7 or if the Buyer for any reason fails to pay any sum, from time to time due under a Contract, the Seller shall thereupon be entitled, without prejudice to its other rights, immediately and at any time thereafter to terminate forthwith any Contract or any unfulfilled part thereof.

11. FORCE MAJEURE

The Seller shall be entitled, without liability on its part and without prejudice to its other rights, to terminate a Contract or any unfulfilled part thereof, or, at its option, to suspend or make partial delivery, if the supply of Goods by the Seller or by its suppliers is prevented, hindered or delayed whether directly or indirectly by reason of any cause whatsoever beyond the Seller's or its suppliers' reasonable control, whether such cause existed on the date when the Contract was made or not.

12. COPYRIGHT AND CONFIDENTIALITY

- 12.1 The Seller shall retain the property, copyright and all other intellectual property rights in software, specifications, drawings, designs, technical descriptions or information supplied by it.
- 12.2 The Buyer shall ensure that its employees shall, keep confidential, and not without the Seller's prior written consent, disclose to any third party any software, specifications, drawings, designs, technical descriptions or information, whether of a commercial or technical nature, obtained from the Seller, and whatsoever acquired, and shall use the same only for the purpose of the installation, use, operation and maintenance of Goods.

12.3 The Buyer will not, without the prior written consent of the Seller, copy, or enable others to copy, Goods or any part thereof.

13. SOFTWARE

Where a contract involves the supply of software the Seller grants and the Buyer accepts a non-exclusive and non-transferable licence to use the software in accordance with the terms of these Conditions. The Buyer agrees to use the software for its own internal purposes and shall not permit any third party to use the software or use the software on behalf of or for the benefit of any third party in any way whatsoever. The Buyer shall not copy or duplicate the software or any part or parts thereof, nor, by any means or of any purpose whatsoever, modify, enhance, update, reverse assemble or reverse compile the software without the prior written consent of the Seller.

14. HEALTH AND SAFETY AT WORK

The Buyer's attention is drawn to the provisions of Section 6 of the Health and Safety at Work Act 1974, in the context of which the Seller will make available, on request, information relating to the design, construction and installation of Goods. The Buyer hereby undertakes to take such steps as are necessary to ensure that Goods are safe and without risk to health, and to make available to its employees, and to any person to whom it supplies Goods, appropriate information about them.

15. GOVERNING LAW AND JURISDICTION

The construction, validity and performances of a Contract shall be governed in all respects by the laws of England, to the non-exclusive jurisdiction of whose courts the parties hereby submit.

For technical assistance and further information ring our Hotline – 0242 264444

KRONE (UK) TECHNIQUE LTD*
Runnings Road
Kingsditch Trading Estate
Cheltenham, Glos. GL51 9NQ
UNITED KINGDOM
Tel: (0242) 264400
Telex: 43350 KRONE G
Fax: (0242) 264488
Fax: (0242) 264466
(Sales only)

KRONE AG
Beeskowdamm 3-11,
D-1000 Berlin 37
GERMANY
Tel: (030) 88530
Telex: 18205-0 KRB D
Cable address: Kronetechnik
Fax: (030) 8853 1703

KRONE GESELLSCHAFT mbH
Kroneplatz 1, A-2521 Trumau/NÖ
AUSTRIA
Tel: (02253) 7521
Telex: 014442 KRONE A
Fax: (02253) 752160

KRONE AG
Liaison Office
Avenue des Arts 19
1040 Brussels
BELGIUM
Tel: (32) 22 19 45 03
Fax: (32) 22 19 91 25

KRONE FRANCE S.A.R.L.
30-32, Rue du Vieil Abreuvoir
78100 Saint Germain en Laye
FRANCE
Tel: (1) 345 13300
Fax: (1) 345 13336

KRONE ITALIA SRL
Zona Industriale Noghere Muggia
Via Petronio 11
34015 Muggia
ITALY
Tel: (040) 232346
Telex: 460832 KRONITI
Fax: (040) 231 931

KRONE AS
Frysjaveien 40
P.O. Box 5
Korsvoll
N0808 Oslo 8
NORWAY
Tel: (02) 950 980
Fax: (02) 950 828

KRONE COMUNICACIONES SA
Poligono Industrial Las Arenas
c/ Arenas No 8
28320 Pinto-Madrid
SPAIN
Tel: (34) 1 322 0600
Fax: (34) 1 322 0617

KRONE A.S.
Esentepe Gazeteciler Sitesi
Harberler Sokak No 7
Mecidiyekoy - Istanbul
TURKEY
Tel: (90) 1 274 1282
Fax: (90) 1 273 2627

**KRONE (AUSTRALIA)
TECHNIQUE PTY LTD**
2 Hereford Street, Berkeley Vale
New South Wales 2259
AUSTRALIA
Tel: (043) 884422
Telex: 171651 KRNAUS
Fax: (043) 884499

**KRONE TELECOMUNICACOES
INDUSTRIA E COMERCIO S.A.**
Rua Antonio das Chagas,1330
04714-002 Sao Paulo - SP
BRAZIL
Tel: 00 55 (11) 548-6033
Fax: 00 55 (11) 521-5213

KRONE CHILE LTDA.
Eleuterio Ramirez 967
Casilla 4105
Santiago de Chile
CHILE
Tel: (0056) 2 633 3276
Fax: (0056) 2 633 2175

KRONE COMMUNICATIONS LTD
1001 Harcourt House
39 Gloucester Rd
Wanchai
HONG KONG
Tel: (852) 8654 888
Telex: 89030 KRONE HX
Fax: (852) 8611 444

KRONE COMMUNICATIONS LTD
30(c) II Phase
Peenya
Bangalore 560 058
INDIA
Tel: (0812) 396101
Fax: (0812) 396104
Telex: (0845) 5074 KRIBIN

**KRONE COMUNICACIONES,
S.A. de C.V.**
Lote 7, Manzana 2
Parque Industrial Exportec 1
Toluca, 50200 Estado de Mexico
MEXICO
Apartado Postal 1133
Toluca, 50000 Estado de Mexico
MEXICO
Tel: (52-72) 110777
Fax: (52-72) 110113

KRONE (NZ) TECHNIQUE LTD
5 King Charles Drive
PO Box 40-203
Upper Hutt
Wellington
NEW ZEALAND
Tel: (04) 526 4299
Fax: (04) 526 4286

KRONE COMMUNICATIONS LTD
7500A Beach Road
#10-301 The Plaza
SINGAPORE 0719
Tel: (65) 299 3612
Fax: (65) 299 3625

KRONE (AFRICA) (PTY) LTD
P.O. Box 66
Wendywood 2144
212 Dartfield Road
Eastgate Ext. 13
Sandton 2199
SOUTH AFRICA
Tel: (011) 444
2715/16/17/18/19
Fax: (011) 444 2416
Telex: 45-1256 KRONE

KRONE INCORPORATED
6950 South Tucson Way, Suite R
Englewood, Colorado 80112
UNITED STATES OF AMERICA
Tel: (303) 790 2619
Telex: 62376510 KRONE UD
Fax: (303) 790 2117

KRONE HELLAS S.A.
Vas. Georgiou 41 & Kalvou 5
152 33 Halandri - Athens
GREECE
Tel: (0030) 1 68 41412/13
Fax: (0030) 1 68 33516

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KRONE