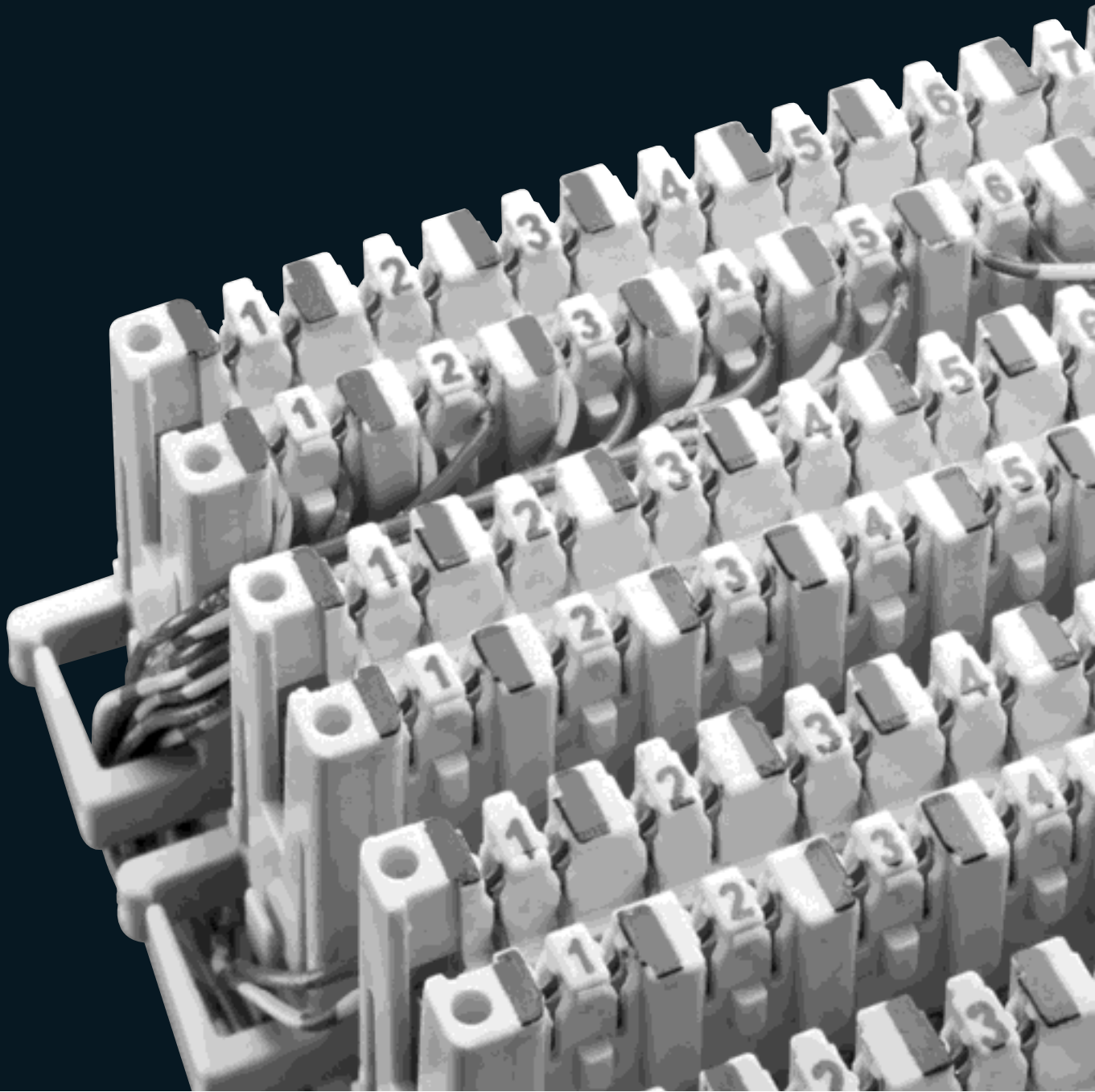




CHANNELL

Disconnection modules for
communication cable networks



SPECIFICATIONS

Channell KLA disconnection module

Electrical	
Dielectric strength	2.0kVrms @ 60Hz
Resistance	
- insulation	> 100M Ω m at 500VDC
- termination	typically < 1m Ω m
Termination type	Gas tight, 4-point insulation displacement contact
Termination life	Greater than 200 re-terminations depending on the wire gauge
Mechanical	
Wire insertion force (\varnothing 0.6mm)	The maximum insertion force is 90N for 0.4mm (26 AWG), 120N for 0.64mm (24 AWG), and 230N for 0.81mm (20 AWG)
Wire pull out force (\varnothing 0.6mm)	20N for 0.4 mm (26 AWG), 25N for 0.64mm (24 AWG) and 40N for 0.81mm (20 AWG)
Conductor size	Accepts 0.4 – 0.9mm
Insulation diameter	Up to max. 1.60mm UTP
Insulation type	All plastic insulations including: PVC, irradiated PVC, Polyethylene, Polypropylene, PTFE, Polyurethane, Nylon, Teflon and AFUMEX
Construction	
Housing	Engineering thermoplastic, UL 94 V-0
IDC material	High strength phosphor bronze
IDC plating	95/5 tin-lead
Ground contacts	High strength phosphor bronze, 95/5 tin-lead plating.
Temperature	
Storage	-40°C to +90°C
Operational	-20°C to +80°C
Humidity	95%

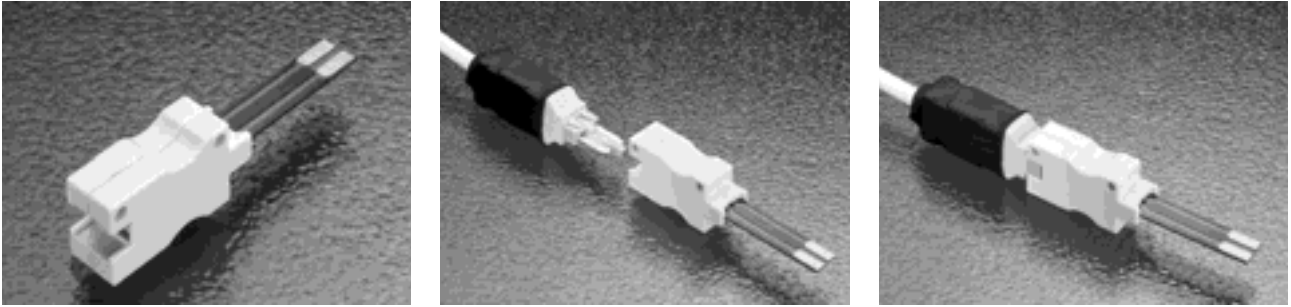
Actual test results and defined test procedures are available from Channell on request.

Channell KLA over-voltage protection module

Electrical	3-point over-voltage protector
DC breakdown	150-250 V @ 100V/Sec
Impulse breakdown	< 450V 10/700 μ Sec
Surge discharge current	5kA, 8/20 μ Sec
Capacitance	< 5pF
Fail-safe operation (240Vrms 0.2 to 6.0A)	Shall fail to a permanent short circuit
Mechanical	
Housing material	UL 94 V-0
Printed circuit board	4 oz. copper circuitry

Other gas discharge tubes are available to special request. Please contact your Channell sales office.

Channell KLA test adaptor

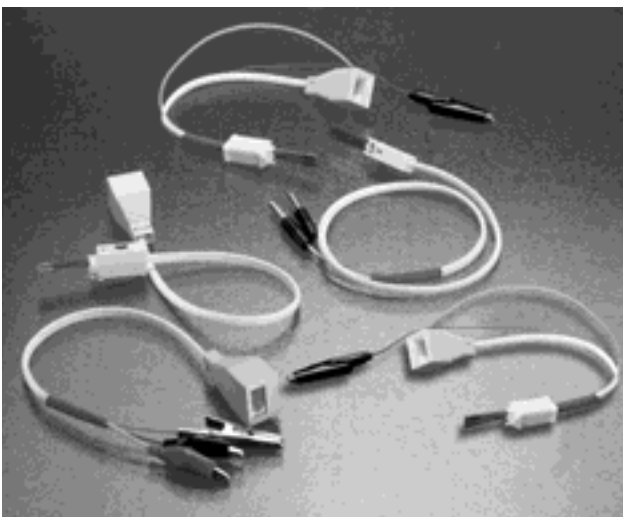


The Channell test adaptor allows connection of a Krone™ - style test or patching plug to any KLA disconnection module.

Ordering information

Ordering reference	Description	Pack quantity
KLA 9250	Test adaptor plug	10

Channell KLA test telephone cords

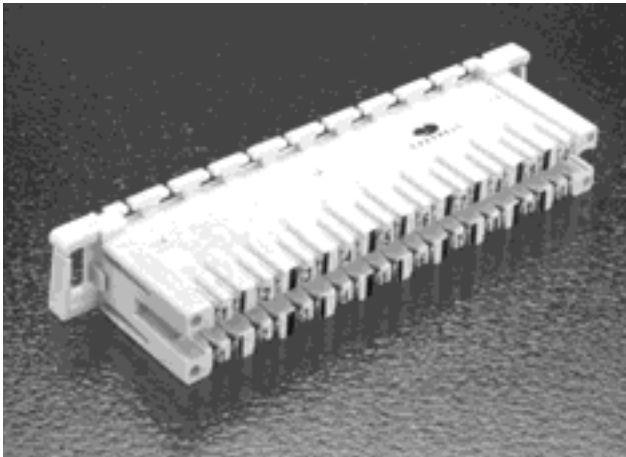


Telephone test cord sets cords provide connection from any KLA disconnection module to a test telephone.

Ordering information

Ordering reference	Description
KLA 9290	2-pole test plug terminated with a plug at one end and a BT 608 socket with earth lead at the other
KLA 9291	2-pole test plug terminated with a plug at one end and a BT 608 socket at the other
KLA 9292	4-pole test plug terminated with a plug at one end and a BT 608 socket with earth lead at the other
KLA 9293	4-pole test plug terminated with a plug at one end and a BT 608 socket at the other
KLA 9294	Cord set terminated with a BT 608 socket at one end and 3 crocodile clips at the other

Channell KLA 10-pair disconnection module

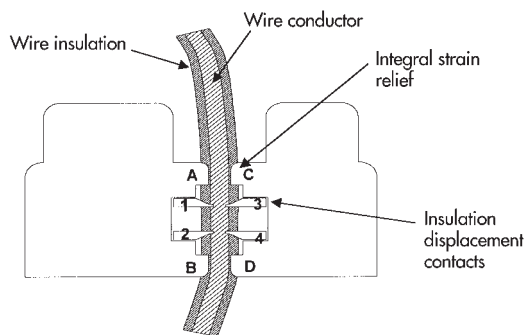


The Channell KLA disconnection module is designed for interconnection or cross connection applications and, when used in conjunction with an over-voltage protection module, provides line protection.

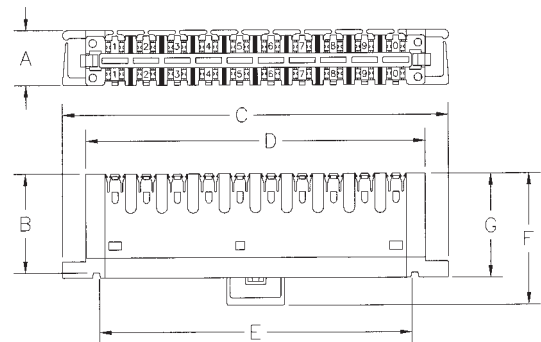
Ordering information and dimensions

Ordering reference	Description	Colour	Dimensions (mm)						
			A	B	C	D	E	F	G
KLA 9200	10-pair disconnection module (box of 10)	White	17.8	32.3	126.7	110.0	101.0	42.6	34.0
KLA 9210	10-pair disconnection module (box of 10)	Green	17.8	32.3	126.7	110.0	101.0	42.6	34.0
KLA 9220	10-pair disconnection module (box of 10)	Blue	17.8	32.3	126.7	110.0	101.0	42.6	34.0

Four-point wire strain relief and termination



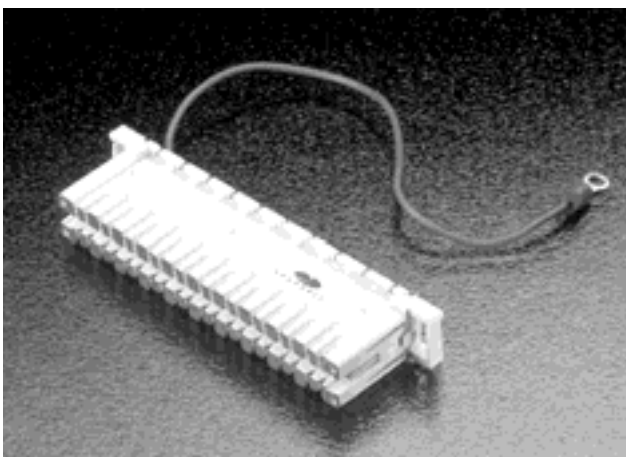
The KLA disconnection module offers an unprecedented four points of wire strain relief (A-D) and termination (1-4), for high reliability in the field.



When the module is installed onto a back-mount frame, the earth clips from the protection module make permanent contact with the earth path from the frame.

The modules are available only in ten-pair configurations.

Channell KLA 60-way IDC earth module

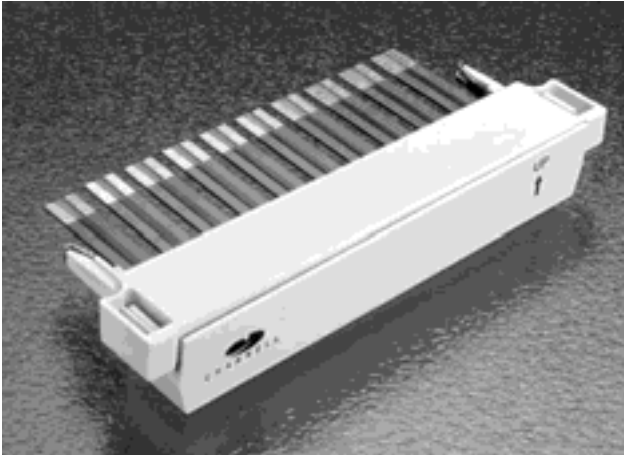


The Channell KLA IDC earth module is used to terminate and bond all earth connections. A total of 60 terminations is achievable by double jumpering. When two-wire jumpering is being terminated, the maximum conductor size should not exceed 0.981mm (20 AWG). The module is supplied with an earth lead and ring terminal.

Ordering information

Ordering reference	Description	Designation colour
KLA 9230	60 Way IDC earth module (box of 10)	Red

Channell KLA over-voltage protection module



Channell's gas tube protector module offers a flexible, low cost solution for primary over-voltage protection in telecom networks. A three-terminal 150-250V DC spark-over gas arrester, mounted on a printed circuit board, the GTPM module can be easily inserted into any of the Channell KLA disconnection modules to provide over-voltage protection.

The plug-in arrester mounts directly onto the printed circuit board (PCB). A removable cover facilitates easy access to and protection for each of the arrestors. The PCB is designed and manufactured to comply with the most stringent surge discharge current testing. An adhesive label can be applied to the front face of the module for designation purposes. When the over-voltage module is inserted into the connector an earthing connection is established through the back-mount frame.

Modules are currently available in ten-pair configurations. Single pair modules are available to special request.

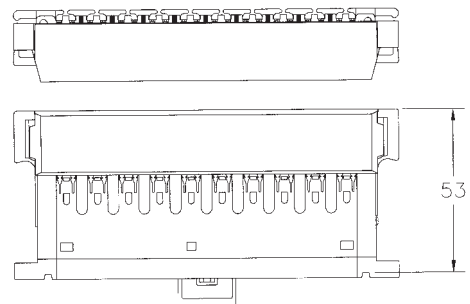
Features

- Removable non-radioactive gas tube
- Three-point protection with fail safe

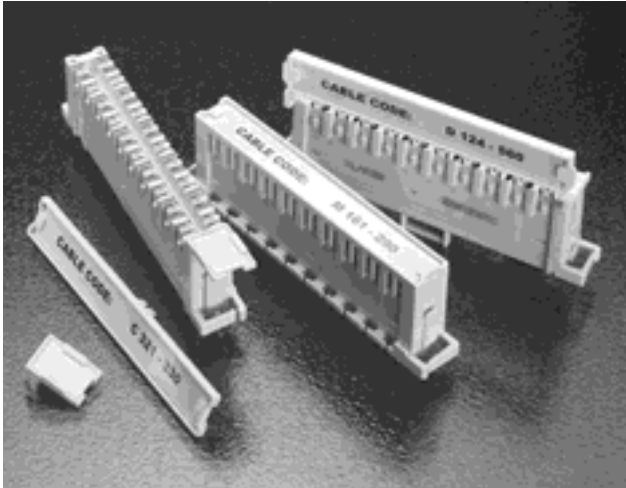
Ordering information

Ordering reference	Description
KLA 9260	10-pair gas protection module (without GDTs installed)
RBX 6141	Surge arrester (standard); 3-pole with fail safe 230 volt +/- 20% (14A/1) (box of 10)

Other GDTs with different firing characteristics are available. 2-pole protection modules are available to special order. Please specify prior to ordering.



Channell KLA circuit designation accessories

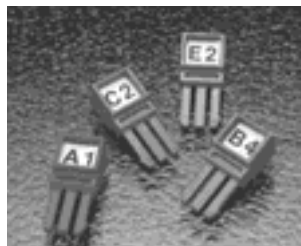


A range of circuit designation accessories is available for convenient, clear labelling of KLA disconnection modules. Designation plates are designed to fit across the front of the module and are available in several versions. The end-plate holder fits on the end of the module for circuit identification. Both incorporate a paper marking-label with a removable vinyl cover window.

Ordering information

Ordering reference	Description	Pack quantity
KLA 9350	10-pair designation plate carrier with labels	10
KLA 9351	Spare labels for 10-pair designation plate carrier	100
KLA 9360	Flip-top 10-pair designation plate carrier with labels	10
KLA 9365	10-pair label holders for backmount frames with labels	10
KLA 9370	Designation end-plate carrier with labels	10
KLA 9371	Spare labels for designation end-plate carrier	100

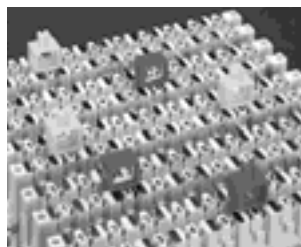
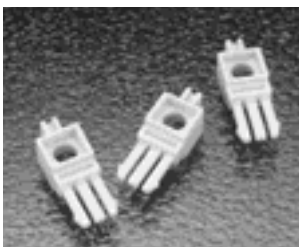
Channell KLA circuit management plugs



A range of plugs is available for use with KLA disconnections modules, for single circuit management functions including disconnection, blocking and labelling.

Ordering information

Ordering reference	Description	Colour	Pack quantity
KLA 9380	Single circuit disconnection plug	Red	100
KLA 9381	Single circuit disconnection plug	Yellow	100
KLA 9382	Single circuit disconnection plug	Green	100
KLA 9390	Single circuit blocking plug	Red	100
KLA 9391	Single circuit label plug (includes labels)	Red	100



KLA DISCONNECTION MODULES

Channell KLA disconnection modules are robust and reliable, for quick and safe circuit isolation, patching and testing in a wide range of communications network applications. The standard design is available in a ten-pair configuration, front accessed and clearly marked for easy identification of each circuit. The Channell KLA connector uses a tin/lead alloy plating on the contacts in order to avoid silver-associated problems. The exclusive IDC design features work-hardened teeth for a robust and wear-resistant contact. Moulded wire guides ensure the correct routing of pairs and enable the connector to be installed onto shallow back-mount frames.

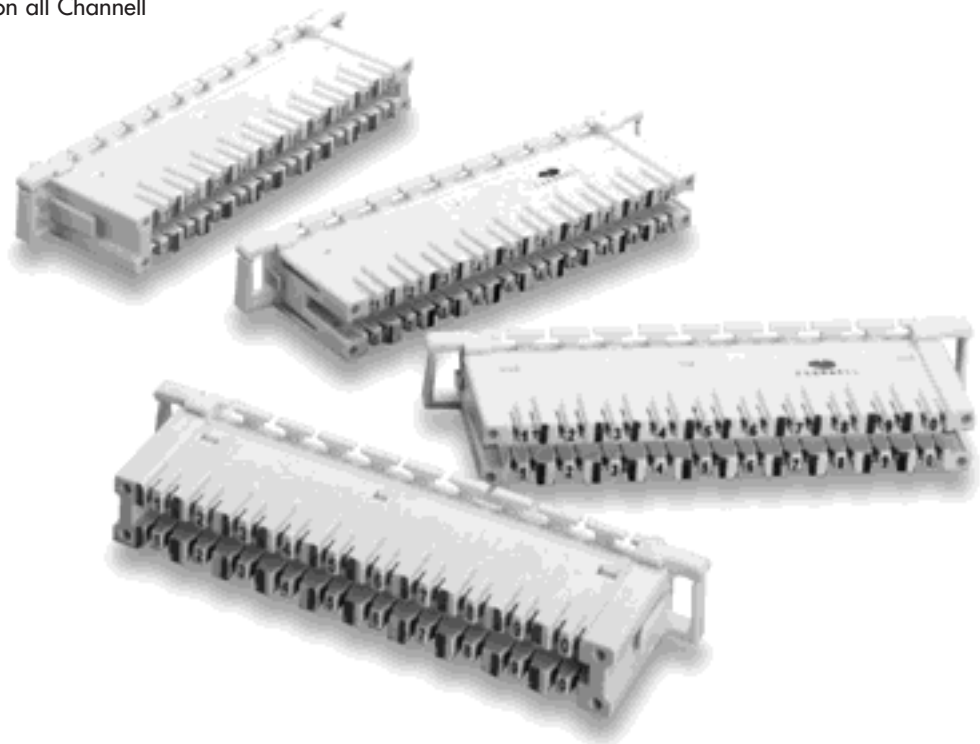
A wide range of KLA accessories, including over-voltage protection, patch and test cords, designation devices, back-mount frames and distribution boxes, completes the Channell KLA range.

Features

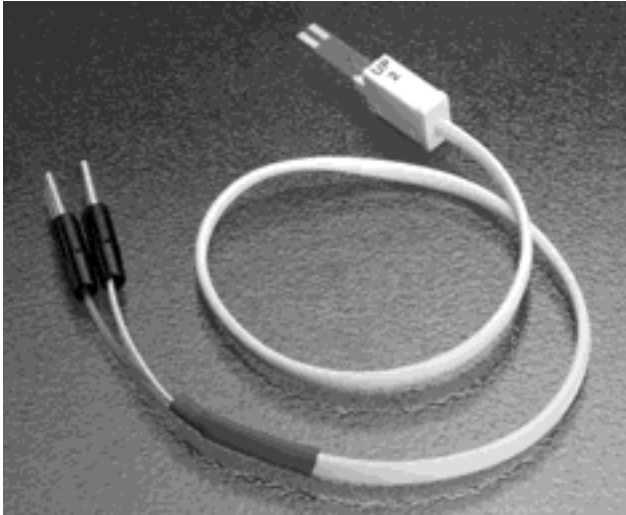
- Next generation technology
- Improved crosstalk
- Improved reliability
- Compatible with industry standard tools and hardware
- Accepts conductors from 0.4 to 0.9mm diameter
- Low contact resistance; virtually electrically transparent
- Four-point wire strain relief and termination
- Integrated wire management system
- Each pair count is marked and easily identified
- Disconnect contacts for *look-both-ways* testing
- Easy removal from the back-mount frame using the attachment provided on all Channell wire insertion tools

Accessories

- Over-voltage protection
- Patch and test cords
- Disconnect plugs
- Blocking plugs
- Wire insertion tools
- Mounting frames
- Labelling accessories



Channell KLA test cords



Test cords are used to access each side of the circuit independently, for testing and monitoring of telecom circuits. Cords are available in two-pole and four-pole versions, with a test plug fitted at one end for insertion directly into any of the Channell KLA disconnection modules. The other end of the test cord is optionally terminated with a number of different configurations, as detailed below.

Ordering information

Ordering reference	Description	Length (m)
KLA 9300	2-pole test plug kit	
KLA 9301	4-pole test plug kit	
KLA 9302	2-pole test plug terminated with a plug at one end and tinned wires (un-terminated) at the other	1.5
KLA 9303	2-pole test plug terminated with a plug at one end and banana plugs at the other	1.5
KLA 9304	2-pole test plug terminated with a plug at one end and crocodile clips at the other	1.5
KLA 9305	4-pole test plug terminated with a plug at one end and tinned wires (un-terminated) at the other	1.5
KLA 9306	4-pole test plug terminated with a plug at one end and banana plugs at the other	1.5
KLA 9307	2-pole test plug terminated with a plug at one end and crocodile clips at the other	1.5

Channell KLA patch cords



Patch cords are used to provide quick, easy and reliable connection between disconnection modules or from one disconnection module to other equipment. Cords are available in two-pole and four-pole versions with a plug fitted at each end for insertion directly into any of the Channell KLA disconnection modules.

Ordering information

Ordering reference	Description	Length (m)
KLA 9310	2-pole patch cord	1.5
KLA 9315	4-pole patch cord	1.5

Channell KLA wire insertion tool

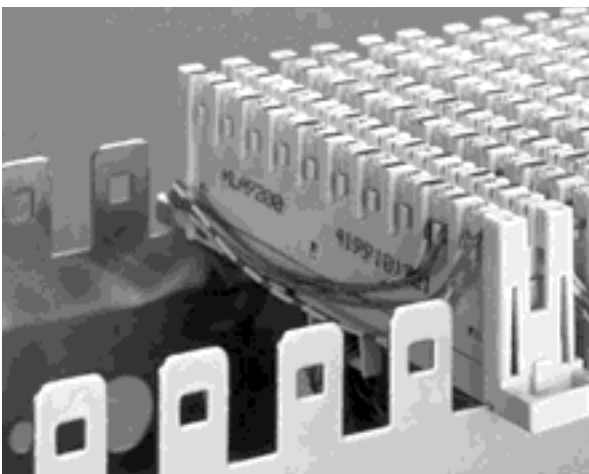


Channell's innovative wire insertion tools provide quick and easy termination of wire onto any of the KLA disconnection modules. The tip of the tool inserts the wire into the contact slot to effect immediate connection. Excess wire is cut off automatically.

Ordering information

Ordering reference	Description
KLA 9400	Standard wire insertion tool
KLA 9410	Wire insertion tool with wire sensor

Channell KLA back-mount frames



A wide range of back-mount frames and support bars is available for convenient mounting of multiple KLA disconnection modules. All frames are made from non-magnetic corrosion-resistant stainless steel with a standard installation pitch of 22.5mm.

Ordering information

Ordering reference	Description	Capacity (number of modules)	Depth of frame A (mm)
KLA 9500	2 way back-mount frame	2	11
KLA 9510	5 way back-mount frame	5	11
KLA 9520	7 way back-mount frame	7	11
KLA 9530	5 way back-mount frame	5	30
KLA 9535	10 way back-mount frame	10	30
KLA 9540	20 way back-mount frame	20	30
KLA 9550	30 way back-mount frame	30	50
KLA 9555	34 way back-mount frame	34	50

For other size frames, please contact your Channell sales office.

For more information or to order,
contact the Channell sales office nearest you:

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