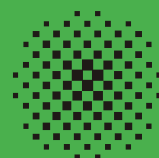




avaNTi

Save space. Cut costs.
Broaden your network.

AccessNET



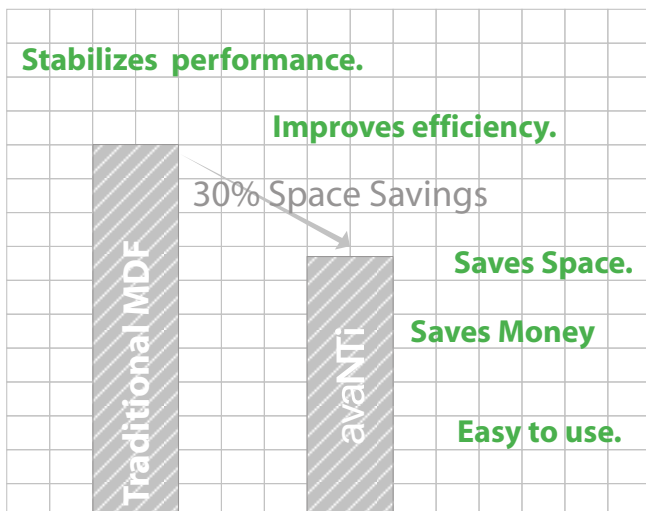
KRONE

Improve your competitiveness

Networks are on the rise in almost every field of communication: cellular phone networks, third generation mobile phone networks (3G, UMTS) and of course, the access and transmission networks for the Internet. Undoubtedly, this calls for the extension of already existing hubs as well as the installation of new hubs. As a future-oriented telecom service provider, one of your prime concerns is the optimum performance of your own connection network. Of course, you need a connection system that meets future needs and equips you with a clear competitive edge in the telecom sector.

As a service provider, one of your prime concerns is to enhance your connection density. And as you work towards achieving your goals with more connections, you must equip yourself with a connection system that meets the needs of the future. In short, you need a clear competitive edge to set you apart in the telecom sector.

What better place to start than with the basic building block - a smart, future-packed disconnection module - The avaNTi.



A necessary telecom performance booster

The avaNTi is an easy-to-use disconnection module for all telecommunication distributors. It features a high connection density and requires only the traditional LSA-PLUS insertion tool to get it connected. Well protected against crises such as accidental access, the avaNTi assures quick and reliable performance with no connection errors owing to its unique, modular design.

- The system side is situated at the back at a right angle - *no accidental access.*



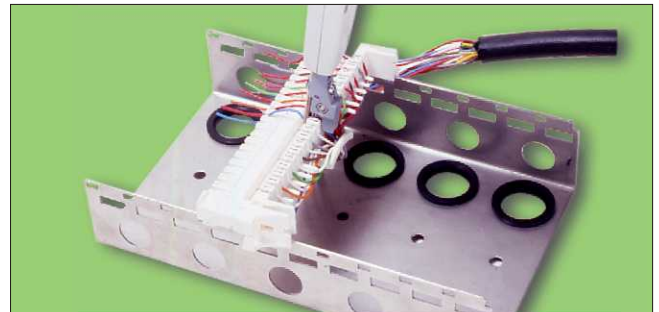
- The test access and the jumper contacts are accessible from the front and very clearly arranged. *User-friendly activation*



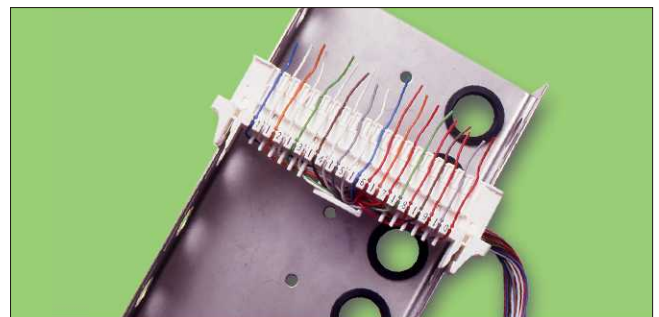
Unique design, custom-built for ease-of-use

The avaNTi module features a superior design. The distinguishing features are as follows

- The modules are designed for mounting onto back-mount frames
- Compact MDF Tag blocks



- The cable wires are fed in from the back or from the side so that when the module has been installed, only the jumper wires are directly accessible.



- For any work on the cable side, the module can always be released from its installed position so that new wiring work can be done.
- The jumper space between the modules is just large enough to accommodate the cable and jumper sides in different planes.
- Despite the generous jumper channels, the modules are mounted with a bare minimum pitch of 17.5mm.

The avaNTi tag block for 100/64/128 pair comprises 10/8 pair modules, set of side mount label holders, number plugs, stainless steel back-mount frame and fixing elements. The modules are mounted on to the back mount frame and can be installed on the MDF verticals or cross connection cabinets/pillars. The module pitch is 17.5mm which contributes to a space saving of about 30%.

The avaNTi offers 4-pole cords, special cords with over voltage protection for test purposes. On one end is a plug designated for the avaNTi module, equipped with a snap-in element. On the other end are 2 or 4 sockets for 4mm plugs (banana plugs). The 4-pole cord has

been especially designed to measure the incoming or outgoing signals in the avaNTi disconnection modules.

The avaNTi is equipped with single pair protection plug fitted with 3-pole GD tube and PTC resistors for over voltage and over current protection. This acts as a complete protection component, which, when inserted into the avaNTi disconnection module, achieves complete protection meeting ITU K.12 and K.20 standards.

Back-mount frame options

Two forms of back-mount frames are available: (1) The customizable frame of arbitrary length, specified by you for individual solutions (2) The customary frame for the 100 pair block-10way, 64 pair block-8 way and 128 pair block-16 way.

Various Identification and Marking Possibilities

The side label holders fixed on the right hand side jumper guide of the module fitted with plug numbers serves to identify cable pairs as well as the block. The top label holder is in black in colour and bottom most in red. The rest are in gray colour for easy identification of block in a 1600/1000 pair MDF verticals. Red coloured marking caps are available for marking important jumper pairs wherever required. Dummy plugs are available to prevent accidental disconnection of important lines. Disconnection plugs are available to disconnect lines from the active network.

Enhance your efficiency with better convenience

The avaNTi can be used to enhance your efficiency levels manifold. The various areas of its application are:

At sites where many copper wires have to be distributed

- In high density MDF's (1600 pairs in 3.5 meters or 1000 pairs in 2.2 meters)
- At sites where active components also have to be installed and space becomes premium For eg. DLC's, ONU's
- In cross connection cabinets
- In co-location rooms where there is very little space available
- Where access to the module's cable side needs to be restricted.
- In co-location rooms, individual access for operators required for switching work, without access to cabling of other operators

Security features for stronger protection

- It protects your cable wiring from accidental access during jumper work.
- It provides you with a secure investment for the future
- 30% less mounting pitch (17.5mm) than that of traditional Series 2 modules for cross connection cabinets, without any loss in robustness.
- High degree of clarity in arrangement
- Connection errors completely avoided

TECHNICAL DATA

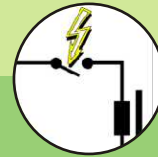
Module Specifications

Contact Resistance	≤2.5 mΩ
Insulation Resistance	>50000 MΩ
Plastic	PBTP UL94 Rated VO (Resistant to chemicals, alcohol and cleaning agents)
Contact Material	Brass Alloy
Contact Reterminations	0.4mm (26 AWG) 1 conductor per contact ≥200 reterminations
	0.5mm (24 AWG) 1 conductor per contact ≥200 reterminations
	0.63mm(22 AWG) 1 conductor per contact ≥200 reterminations
	0.8mm(20 AWG) 1 conductor per contact ≥200 reterminations
Conductor Diameter Range	0.4 to 0.8mm (26 to 20AWG), Stranded wires can also be connected
Insulation Diameter Range	0.7 to 1.5mm
Operational Temperature	-20 to +80 °C
Mounting Pitch	17.5mm
Contact Stability	satisfying IEC 352 Part 4
Electrical safety	satisfying EN 60950, Conforms to CE low-voltage guidelines

TECHNICAL DATA

Product Dimensions (in mm)

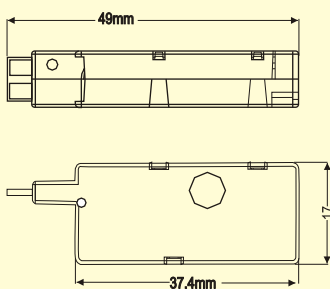
Product	Width	Height	Depth
avaNTi module	130	17.5	40.0
100 pair MDF tagblock	130	180	70.0
100 pair MDF tagblock with protection	130	180	105
64 pair MDF tagblock	130	145	70.0
128 pair MDF tagblock	130	285	70.0



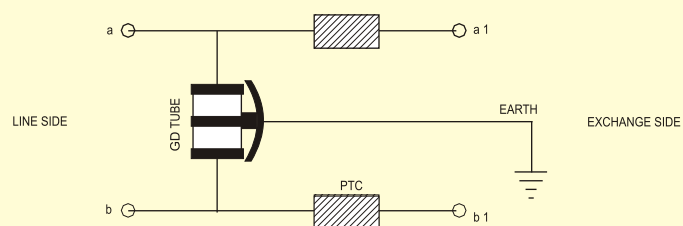
Single Pair Protection Plug for avaNTi MDF (1600 pairs Per vertical)

Max Operating voltage (a/b-e, a-b) $V_{max,e}$	180 V
Nominal DC spark-overvoltage V_{sdcn}	180-300 V
Impulse spark-over voltage @1 kV/ μ s (a/b-e)	<900 V
Impulse life time (300*10/1000 μ s ,alternating polarity)	100 A
Nominal arrester surge current (8/20 μ s; a/b-e)	5 kA
Nominal arrester alt. discharge current (50hz,1s; a/b-e)	5 A(rms)
Fail safe response time @ 5 Arms	<5 secs
Max. Operating current (a-a'/b-b') @ 25°C	120 mA
Rated line resistance (a-a'/b-b') @ 145mA,25°C	6-25 Ω
Resistance balance	<0.5 Ω
Max.switching current of PTC @ $V_{max}=230Vms$	3 A(rms)
Max.switching time PTC @ 1A(rms)	2.5 secs
Capacitance(1MHz/1Vms;a/b-e,a-b)	<1.50 pF
Insulation resistance @ 100V(a-b,a-e,b-e)	>1000 MW
Operating temperature	-20°...+60°C
Storage temperature	-40°...+80°C
Electrical characteristics	1acc.To ITU-T K.12
Mechanical characteristics	sinusoidal wave acc.To IEC 68-2-6
Climatic characteristics	DIN IEC 68 part 2-2/3 (thermal resistivity)
	DIN IEC 68 part 2-1(cold resistivity)

Dimensions



Circuit Diagram

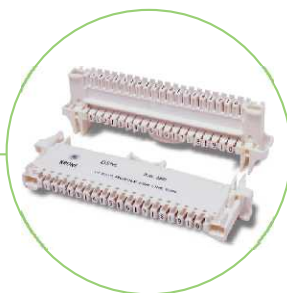


avaNTi- The Space Saver

Modules

Description	Part No.	PackQuantity
avaNTi Disconnection Module 2/10	6904 2 501-01	1
avaNTi Disconnection Module 2/8	6904 2 502-01	1

Disconnection Module for 8 or 10 pairs with disconnection contact for opening the circuit, testing possible in both the directions or insertion of over voltage protection magazine or Integrated Protection Module (IPM).



MDF Tag Blocks

Description	Part No.	PackQuantity
avaNTi MDF Tag Block 100pair	6901 1 103-11	1

MDF Tag Blocks 2/10 for 100 pair with 10 avaNTi disconnection modules for use on "Line Side" (subscriber) of MDF's



Description	Part No.	PackQuantity
avaNTi MDF Tag Block 64 pair	6901 1 103-12	1
avaNTi MDF Tag Block 128 pair	6901 1 103-13	1

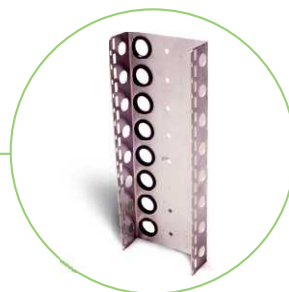
MDF Tag Blocks 2/ 8 for 64/128 pair with 8 avaNTi disconnection modules for use on "Exchange Side" (Switch) of MDF's.



Back Mount Frame

Description	Part No.	PackQuantity
Back Mount Frame, 3 way	6905 3 436-03	1
Back Mount Frame, 8 way	6908 3 436-08	1
Back Mount Frame, 10 way	6908 3 436-10	1
Back Mount Frame, 16 way	6908 3 436-16	1

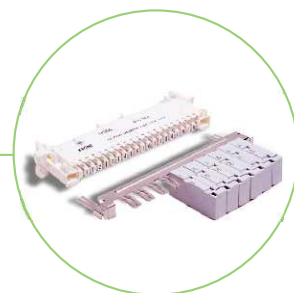
Back Mount Frame to mount avaNTi modules 2/8 or 2/10. For indoor use directly on MDF's, Walls, Wall Mount Frames, boxes as well as weather proof out door distribution boxes.



Protection

Description	Part No.	PackQuantity
Single pair protection plug	6905 2 609-02	1
Set of 10 with earth bar	6905 1 609-02	1 set
Earth bar	6905 3 609-03	1

This provides both over voltage and over current protection for single pair on line side.



Accessories

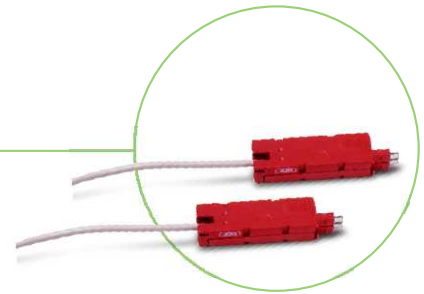
Termination Tool

Description	Part No.	PackQuantity
LSA PLUS insertion tool	6089 2 003-00	1



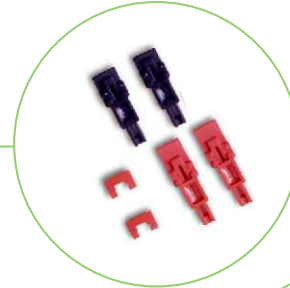
avaNTi Test Cord

Description	Part No.	PackQuantity
Test Cord 2/4 4 pole with protection - 6mtrs.	6907 2 703 - 06	1
Test Cord 2/4 4 pole with 4 banana plugs - 1.5 mtrs.	6907 2 702 - 00	1
Test Cord 2/4 4 pole with 4 banana plugs - 6 mtrs.	6907 2 702 - 06	1



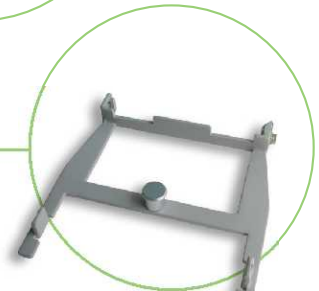
avaNTi Disconnection Plug

Description	Part No.	PackQuantity
Disconnection Plug 1 pair (red)	6904 3 501-16	1
Disconnection Plug 10 pair (gray)	6904 3 501-18	1
Marking cap 1 pair (red)	6089 3 006-00	1
Dummy plug 1 pair (black)	6904 3 501-17	1



Wiring Accessories for BMF

Description	Part No.	PackQuantity
avaNTi termination outrigger	6901 3 007-44	1



Main Distribution Frames

MDF frame to terminate
1600 pairs,(as per TEC spec.) height 3.5 meters

Description	Part No.
Set of 5 verticals (Main)	6901 2 163-05
Set of 4 verticals (Main)	6901 2 163-04
Set of 3 verticals (Expansion)	6901 2 163-03
Set of 2 verticals (Expansion)	6901 2 163-02

MDF frame to terminate
1000 pairs, (as per TEC spec.) height 3.5 meters

Description	Part No.
Set of 5 verticals (Main)	6901 2 164-05
Set of 4 verticals (Main)	6901 2 164-04
Set of 3 verticals (Expansion)	6901 2 164-03
Set of 2 vertical (Expansion)	6901 2 164-02

MDF frame to terminate
1000 pairs, height 2.2 meters

Description	Part No.
Set of 5 verticals (Main)	6901 2 162-05
Set of 4 verticals (Main)	6901 2 162-04
Set of 3 verticals (Expansion)	6901 2 162-03
Set of 2 vertical (Expansion)	6901 2 162-02

