

Infrastructure Solutions

for the Education Sector

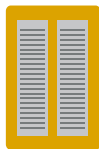


KRONE

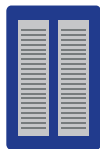


Infrastructure Diagram

Key



Yellow
Active panels



Blue
Passive panels



Purple
Traditional fibre



Red
Blown fibre



Green
Copper



To the desk



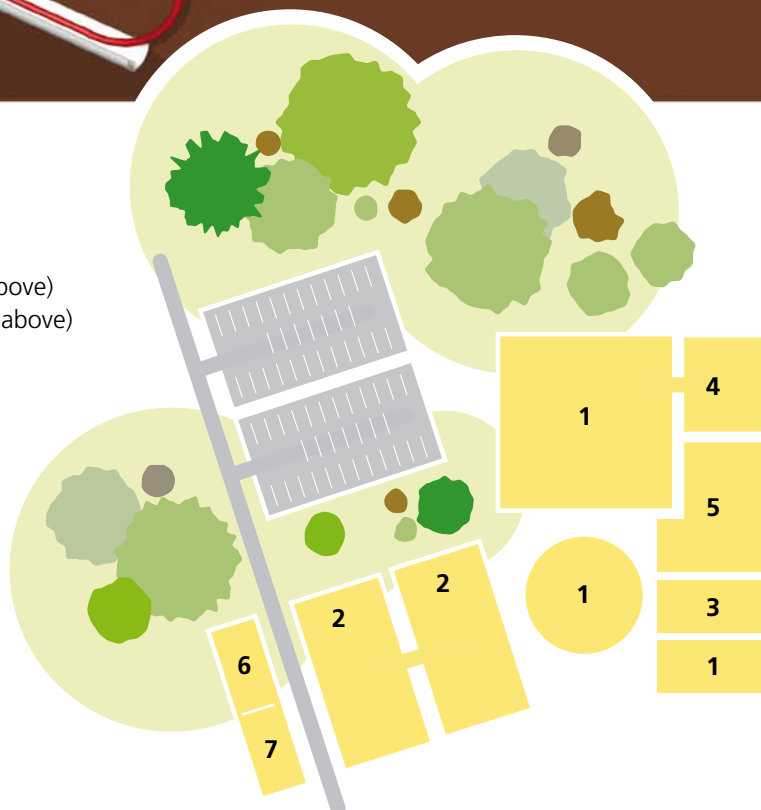
Building to building



Campus Plan

Key

- 1 Faculty building (see illustration above)
- 2 Halls of residence (see illustration above)
- 3 Gymnasium
- 4 Library
- 5 Union building
- 6 Shop
- 7 Café



TrueNet® Solutions for Education

Whether the network is for a school, college or university, bandwidth is becoming a very important issue – as video services are used more and more by education professionals to support their seminars and lectures.

Increasingly, remote-teaching and distance-learning use streamed and on-demand video-casting which can place massive bandwidth demands on the network as lessons and lectures need to be delivered in near-broadcast quality video formats.

Schools are spread-out, and universities occupy immense campuses – often spread over several sites around a city. This type of topology brings its own challenges where correct planning of backbone capacity and future flexibility are key to the success of the network in years to come.

This is where network planners need an infrastructure partner with the experience of ADC KRONE that has designed network solutions for hundreds of educational institutions around the globe. ADC KRONE can offer all of the available technologies and so our engineers will offer you totally impartial advice – to ensure that your specific solution is ideal for your project in terms of capital cost, operating cost, flexibility, futureproofing and planned upgrade paths.

Most colleges and universities, and indeed many schools, have grown over the years and now have a wide range of buildings from very old to ultra-modern. Frequently, there is a serious lack of ducting between buildings – but the cost of digging-in new ducting is prohibitive. With solutions like TrueNet blown fibre ADC KRONE engineers can help solve these problems now and provide a solution that gives all the upgrade/flexibility the organisation's network is likely to need over the next 15 to 20 years.

We normally recommend a minimum of TrueNet Category 6 for educational networks, since its 250MHz bandwidth gives far better scope for video services. TrueNet CopperTen is already highly popular in educational installations because it allows Ethernet at 10

Gigabit/s and video up to 500MHz. All TrueNet copper cabling solutions are available in both unshielded (UTP) and shielded (STP/FSTP) formats to ensure you have the best and most appropriate solution for your individual project.

Solutions

TrueNet blown fibre allows maximisation of limited ducting. Once the miniature ducts are installed within the existing ducting, additional bandwidth can be installed – without disruption – often in a matter of hours. Lower capacity fibre bundles can be removed and re-used improving cost efficiency and eco-friendliness.

TrueNet Category 5e and Category 6 offer zero bit-error warranties essential for full Gigabit data-rate operation at all times. TrueNet CopperTen increases the data-rate ten-fold to 10 Gigabit/s and is ideal for high video bandwidths and low latency for digital video and voice (VoIP).

TrueNet Blown Fibre provides Gigabit and 10 Gigabit solutions with the option to blow in more capacity at any time, while TrueNet CWDM-ready fibre will enable 10 Gigabit/s now futureproofed to deliver up to 80 Gigabit/s per fibre pair in the future using Coarse Wave Division Multiplexing technology.

TrueNet Power-over-Ethernet technology enables VoIP phones, IP CCTV cameras, access security and other devices to be powered directly through the RJ-45 jack removing the need for a.c. power sockets and unreliable external power supply units.

TrueNet PLM physical layer management enables the structured cabling system to be fully managed from the network operations centre (NOC) and can massively cut network downtime as well as improving network utilisation by up to 40%.

Cover Photo: "The Hub" Courtesy of Doncaster College



KRONE



Web Site: www.adckrone.com/en

UK Office: ADC Communications (UK) Ltd., Runnings Road, Kingsditch Trading Estate, Cheltenham, Gloucestershire GL51 9NQ, United Kingdom • Phone: +44 (0) 1242 264 400 Fax: +44 (0) 1242 264 488 Email: contactuk@adckrone.com

South African Office: ADC Telecommunications (Africa) PTY Ltd., 16 Brand Hatch Close, Kyalami Business Park, Midrand, 1685 Johannesburg, South Africa • Phone: +27 11 466 3333 Fax: +27 11 466 3300 Email: infos@adckrone.com

EMEA Office: ADC GmbH, Beeskowdamm, 3-11, 14167 Berlin, Germany • Phone: +49 30 8453 1818 Fax: +49 30 8453 1703. For a listing of all ADC KRONE's global sales office locations, please refer to our web site.

Specifications published here are current as of the date of publication of this document. Because we are continuously improving our products, ADC KRONE reserves the right to change specifications without prior notice. At any time, you may verify product specifications by contacting ADC GmbH headquarters in Berlin. ADC Telecommunications, Inc. views its patent portfolio as an important corporate asset and vigorously enforces its patents.

Part Number 200068BE Mar 07 Revision © 2007 ADC Communications (UK) Ltd. All Rights Reserved