For all your cabling needs

iDaC Solutions

Why iDaC Solutions?

At iDaC Solutions we offer customers all the benefits of dealing directly with an industry leading cable manufacturer (project support, on-site technical expertise, training and system warranties), plus the ability to bring together complementary products for a no compromise, best-in-class cabling system.

With superior products for structured cabling networks, fire safety, lift cabling, building automation, special environments & industrial applications; we have a solution for all your cabling needs.
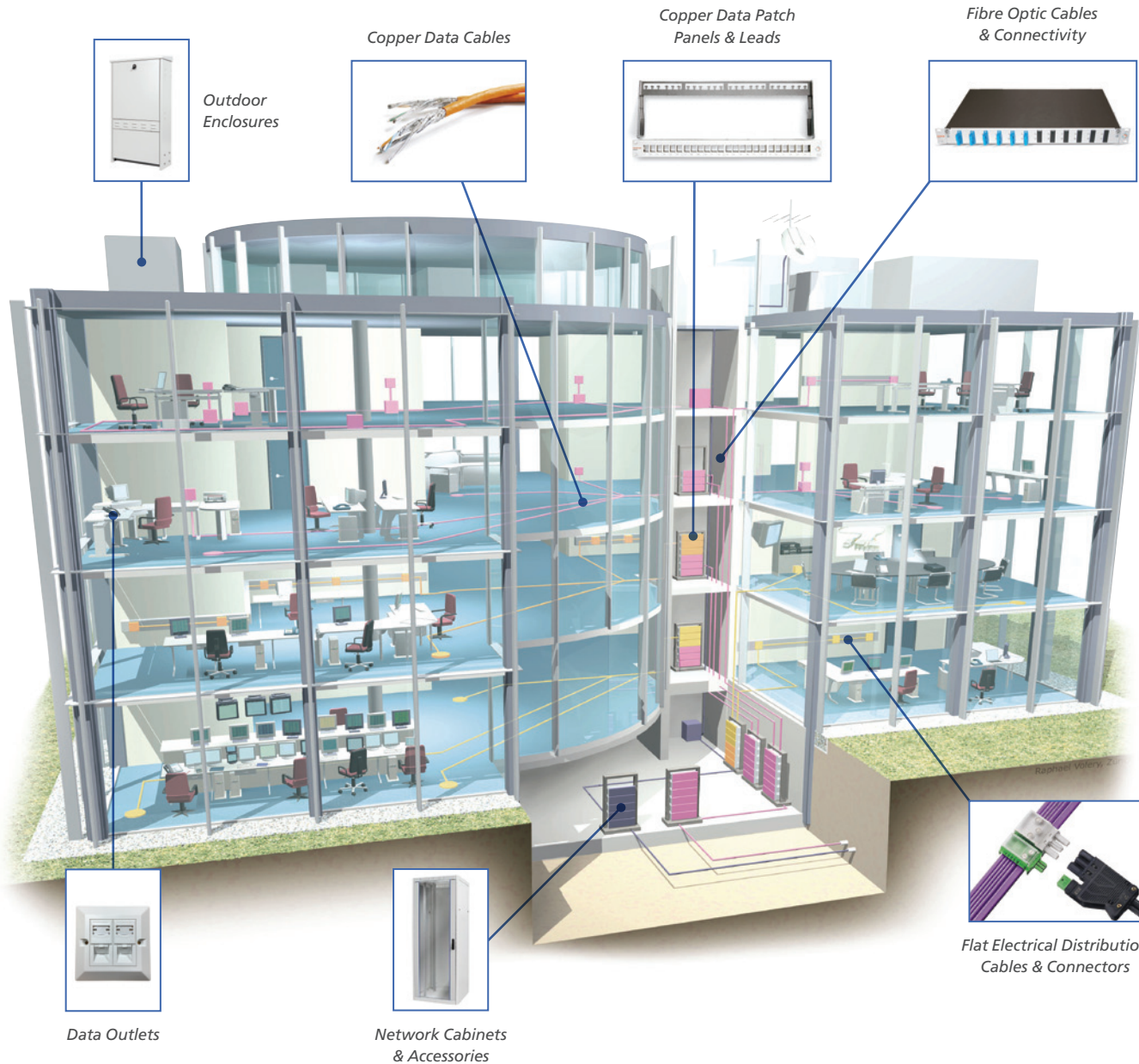
iDaC Solutions

The exclusive source of

DATWYLER

cabling solutions in the UK & Ireland

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Product Overview

Copper Data Cables

Copper Data Patch
Panels & Leads

Fibre Optic Cables
& Connectivity

Outdoor
Enclosures

At iDaC Solutions (iDaCs), we offer a wide range of high performance cabling solutions; designed to provide a reliable, fully integrated infrastructure for any building.

- **Network Data Cabling**
- **Fire Safety Cabling**
- **Lift Cables**
- **Building Automation Systems**

Suspension Devices

Fire Safety
Cables &
Accessories

Travelling
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Data Outlets

Network Cabinets
& Accessories
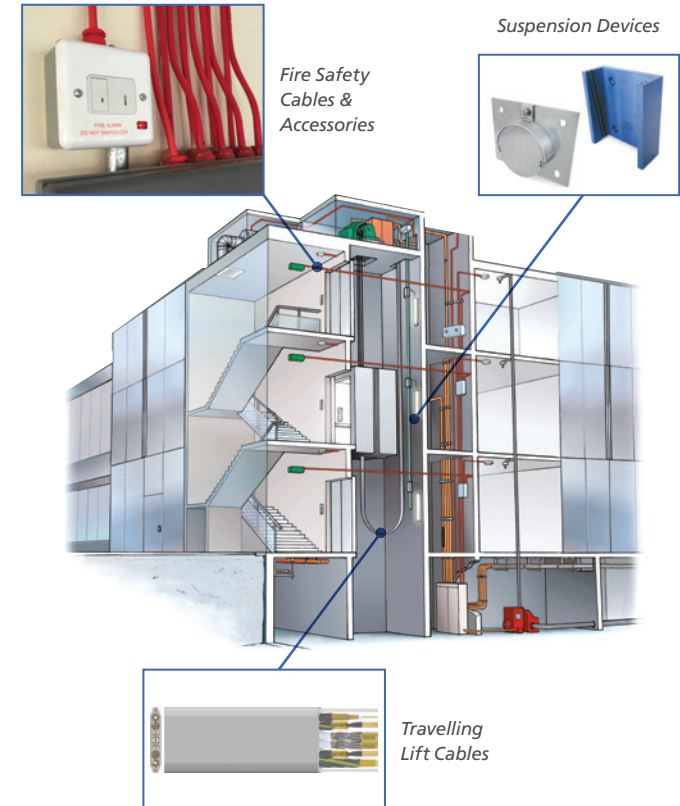
We also have other specialised products for industrial applications, marine environments and clean-room areas (see pages 12 & 13) - contact us to find out more.

Datwyler S/STP Cable

Office LANs

Food & Beverage

Pharmaceutical

Data Centres

Network Cabling (Copper)

Swiss based cable manufacturer, Datwyler (est. 1915), is the specialist in copper cabling systems for network infrastructures. With over 100 years experience our customers are guaranteed a high quality, highly reliable cabling system to support their business - no matter what the application.

Datwyler Cable Categories*

- **Cat 5e** (U/UTP, F/UTP, SF/UTP)
- **Cat6** (U/UTP, U/FTP, SF/UTP & F/FTP)
- **Cat6A** (U/FTP, F/FTP & S/FTP)
- **Cat7** (F/FTP & S/FTP)
- **Cat7A** (S/FTP)
- **Cat 8** (S/FTP)

Some cables are also available in Industrial & outdoor versions - contact us for more details.
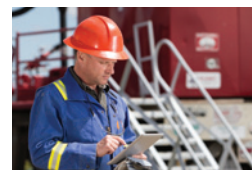
DATWYLER

We also supply flexible cables, in a variety of colours, for patch lead assembly as well as ready-made Datwyler Patch Leads.

Manufacturing

Education

Marine / Petrochem

Home Automation

Datwyler Cabling Components

Datwyler has a wide variety of products for structured cabling network systems. Our core items are shown below, but there's a much wider range available. Let us know the category of cabling required and application and we'll find the best product fit.

Tool-less RJ45 Modules (UTP & STP)*

Patch Panels (UTP & STP)

Faceplates & Shuttered Outlets

*Qualifying products are eligible for Datwyler's 25 year system warranty (see page 14)

Reference Project: **Rathbones, London**

"I was happy with the continued support offered by Datwyler and the assistance in overcoming various challenges on site''.
Visit www.idacs.uk.com/rathbones for more details

Network Cabling (Fibre)

Datwyler manufactures a comprehensive range of fibre-optic cables and connectivity solutions to suit a wide range of applications:

- **Structured premises / Local Area Network (LAN) cabling**
- **High-density, high-speed Data Centres**
- **Fibre-to-the-home (FTTx) outdoor and in-house**
- **Metropolitan Area Networks (MAN)**
- **Long distance / Wide Area Networks (WAN)**

Fibre Optic Cables

Our fibre optic cables are made to the highest quality standards to ensure high performance and reliability. They are manufactured using 'bend insensitive' fibre to make installation easier and are available in single mode (OS2) & multimode (OM3 & OM4) versions;
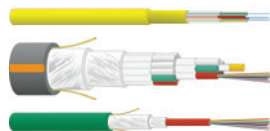
- **Loose Tube (Indoor/Outdoor & Universal)**
- **Tight Buffered (Indoor/Outdoor & Universal)**
- **Patch Cable**
- **Distribution Cable**
- **Blown Fibre**

Cabling Components

Datwyler has a wide variety of fibre optic products for a range of cabling applications. If you'd like to find out more about our FO products, or the new Datwyler 25 Year Fibre Optic System Warranty, please call or email us today.

Internal, External & Universal Cables

FO Patch Leads

FO Outlets & Accessories

Data Centre Solutions

Reference Project: **Al Reem Island, UAE**

• *200,000 Users* • *Covering over 7 million square metres*
• *430km Cat6A copper data cable* • *75km single mode fibre*
Visit **www.idacs.uk.com/al-reem** ***for more details***

Cabinets & Enclosures

Through our partnerships with leading cabinet manufacturers, we offer a full line of racks, enclosures, accessories and PDU's for Local Area Networks, Data Centres and harsh environment applications.

Leading Brands

We supply standard 19" network racks, cabinets and wall mounted boxes from BKT and Eaton; as well as cable management accessories and PDUs.

Network Racks

Security & Protection

The brand new and exclusive 'DC IT Safe', from Datwyler, offers up to 62U of 19" rack space in just 2m^2. It's secure and protects against all physical hazards; and is ideal as a micro data centre, for harsh environments or public access areas e.g. hospitals.

DC IT Safe

Outdoor Environments

BKT also specialize in enclosures for outdoor use and other harsh environments (e.g. manufacturing, marine, etc). They are available from us in standard and custom-built versions. Heating and cooling systems, as well as sensors to monitor moisture levels can be purchased separately.

Let us know your what your requirements are and we'll find a solution to suit your needs. If you're interested in Containerised Mobile Data Centres - see page 13.

Outdoor Enclosures

Fire Safety

Datwyler Fire Safety cables, from iDaCs, provide continuous power and data transmission for fire alarm systems and emergency lighting in the event of a fire.

Fire Safety Cables

Fire Safety Cables

- Standard in 2,3 & 4 core
- Enhanced in 2 & 4 core
- Available in red or white

Installation Accessories

We also supply 'P' clips, new LINIAN Fire Clips and glands.

LINIAN
FIRE CLIP | FASTER. SAFER. SIMPLER.

Fire Safety Systems

- 70% faster to install than traditional methods
- Fire Rated Cable Fixings BS7671 Amendment 3
- Dramatically reduces labour costs
- Unique design enables tidy finishes

Reference Project: The Allianz Arena, Munich

Communication network, media facilities and award winning fire safety system - all running over Datwyler integrated cabling. Visit www.idacs.uk.com/allianz-arena for more details

Security Alarm Systems

Lift Cabling Systems

As buildings are getting higher, the physical demands on the lift cabling are also increasing. Datwyler lift cables are designed to withstand great mechanical stress, and are trusted in some of the World's highest and fastest elevators.

With a range of cables, harness assemblies, accessories, suspension devices and tooling, we provide lift manufacturers (and maintenance companies) with a convenient end-to-end cabling solution.

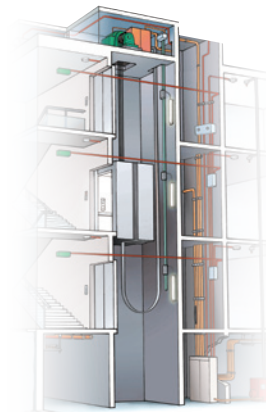*Travelling Lift Cables*

Flat Travelling Cables

- Low Rise - up to 80m
- Medium Rise - up to 150m
- High Rise - up to 400m
- PVC or LSOH
- Many combinations available (select from range of Copper & FO elements)
- Pre-assembled cable harnesses (available on request)

Multi-media options

Suspension Devices

Our travelling lift cable suspension devices come in a wide variety of styles; to accommodate different cable widths, cable combinations and travelling height. Our Technical Sales Team are on hand to help you select the appropriate device - and relevant tools - for your installation.

Suspension Devices

Reference Project: New World Trade Centre, New York

Landmark high-rise, The Freedom Tower, utilises Datwyler lift cables - as well as other buildings in the WTC development. Visit www.idacs.uk.com/wtc for more details
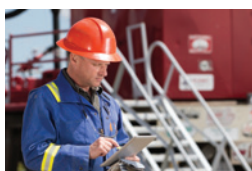
Products for Special Environments

At iDaC Solutions we offer a wide range of specialised high performance cabling products and accessories - designed for a variety of applications - and built to last.

Clean Room Products

Cables for Robotics

Biochemical Resistant

*Automation Cabling*

Industrial Grade Network Cabling

Our high performance network cabling range includes IP67 outlets for wash-down areas, PUR cables (which can operate at -30°C to $+60^{\circ}$C), outdoor & marine grade cables and fibre optic cables from Swiss-based manufacturer Datwyler. Datwyler's high quality screened cables and components are ideal for use in factories, food processing plants, pharmaceutical facilities, etc.

Flexible Control Cables

iDaCs also offer a wide range of **screened control cables for automation and robotics;** including flexible cables for drag chains, motor servo & feedback cables, trailing cables, heat-resistant cables and other specialised products. With options available with bio-oil and microbial resistance, they are ideal for processing areas and oil & gas applications.

Tailor-made MDCs
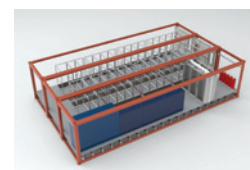
Modular Design

Quick & Easy to Install

Built to last

Smart Building Solutions

Containerised Modular Data Centres

If you're looking to extend or re-house your IT network, need a segregated data centre or want a fully operational disaster recovery solution; iDaCs' Containerised Modular Data Centre's (MDCs) and new DC IT-Safe Micro Data Centres (see page 9) provide a flexible and economic alternative to a traditional construction project.

They offer a resilient and secure option for your IT network. They're quick and simple to deploy with minimal planning requirements and site preparation; plus they can be re-located easily on a standard container truck – making the most of your Investment.

Electrical Distribution Cabling Systems

iDaC Solutions also supplies Woertz Swiss-made cabling solutions for building automation. Woertz is a leading provider of flat-form electrical distribution cables - ideal for use in offices and production areas. The cabling system – which also includes plug-and-play IDC junction boxes & taps – offers faster, lower cost installation (up to 75% labour saving versus conventional cabling solutions), plus it allows simple modifications and additions.

> **Reference Project: Sofitel, London**
>
> • *3000 Connections* • *605 Bedrooms*
> *Visit www.idacs.uk.com/sofitel for more details*

Other Special Applications

We also offer other specialised products for less challenging environments e.g. Home Automation Cabling Systems, Lift Cabling (see page 11), 'Smart' Building Automation systems and cable routing systems.

Contact us for more details.

Warranties, Training & Services

Tested & Verified

Certified Installers

Here to help

Warranties

Datwyler has two 25 year network cabling system warranties available:

• **Copper Network Link System Warranty**
• **Fibre Optic Link System Warranty**

iDaC Solutions provides support for all Datwyler system and product warranties in the UK and Ireland; including on-site visits, installer certification training*, technical assistance and warranty sign-off.

To find out more about the systems covered, our over-length warranty, or the Datwyler Installation Partner Program please give us a call or email info@idacs.uk.com

On completion of the training program , Certified installer's (and their companies) receive official certificates and are eligible to offer Datwyler system warranties (see example on left).

Training & Services

We offer a range of bespoke design services and training sessions, run by our Technical Director Paul Hunter RCDD.

Whether you're a data installer looking for warranty certification, an end user who needs assistance with their cabling infrastructure or are new to the industry and would like an introduction to cabling technology, we have a service to suit you.

info@idacs.uk.com / +44 (0)2380 279 999 / www.idacs.uk.com

Useful Information

Maximum Fibre Optic Link Lengths *(in metres) for IEEE 802.3 Series /Ethernet#*					
Application Standard	Nominal Speed	OM3 @850nm	OM4 @850nm	OS2 @1310nm	@1550nm
1000BASE-SX	1 Gb/s	860 / **1000**	860 / **1100**		
10GBASE-S	10 Gb/s	300	400 / **550**		
10GBASE-L	10 Gb/s			10000	
10GBASE-E	10 Gb/s				30000 / 40000(2)
40GBASE-SR4	40 Gb/s	100 / **140**	150(1) / **170**		
40GBASE-LR4	40 Gb/s			10000	
100GBASE-SR10	100 Gb/s	100 / **140**	150(1) / **170**		
100GBASE-LR4	100 Gb/s			10000	
100GBASE-ER4	100 Gb/s				30000 / 40000(2)

#Figures available for other applications on request. 1) 1dB allocated for connection & splice loss. 2) When using fibre with enhanced values. Figures in red show typical max link lengths possible using Datwyler fibre links.

Table of Wire Gauge Sizes according to UL 444 as of 11 July 2008		
AWG	Dia. of solid conductor minimum [mm]	Cross-sectional area of stranded conductor, minimum [mm2]
18	1.013	0.807
19	0.866*	0.641
20	0.772*	0.509
21	0.688*	0.404
22	0.610*	0.318
23	0.546*	0.254
24	0.485*	0.201
25	0.432*	0.159
26	0.384*	0.126
27	0.358	0.100
28	0.318	0.079

Network Cabling Categories Copper as defined in ISO11801 & EN50173		
Category	Class	Frequency
8		2000MHz
7$_A$	F$_A$	1000MHz
7	F	600MHz
6$_A$	E$_A$	500MHz
6	E	250MHz
5e	D	100MHz

* Minimum acceptable diameter (0.95 x nominal) of a solid conductor of this size

How to buy

Contact our Sales Office today

Tel: 02380 279 999

Email: info@idacs.uk.com

Take advantage of our introductory offer
Receive 5% off your first order when you quote 'Brochure16'

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