DATA SOLUTIONS PRODUCT GUIDE

2023

DÄTWYLER

CONTENTS

DATWYLER

Datwyler IT Infra is an international company with its headquarters in Switzerland and affiliates in Europe, the Middle East and Asia. Datwyler enables organizations around the world to run their IT/OT infrastructures seamlessly and scale their business with ease. The well-established company which was founded more than 100 years ago has successfully acted as a supplier of innovative system solutions and products for data centres, fibre networks, and intelligent buildings as well as the lead or main contractor who covers the whole value chain in these markets.

MILESTONES

1915   Adolf Dätwyler founded the company and began producing electrical conductors using aluminium.

1926   The production of telephone cables began.

1944   The production of high-frequency cables began.

1973   Kaved Ltd. was acquired. The value chain was extended by adding cable harnessing. Datwyler produced the first flat cable for lifts with up to 400 metre shaft height.

1986   The production of fibre optic cables began.

1987   "Uninet" (today: "Datwyler CU") data cables and the future-proof concept for structured building cabling were introduced

1991   Datwyler safety cable became the first fire safety cable in the world to successfully pass E90 testing as per DIN 4102-12.

1998   International expansion: Datwyler entered the Chinese market.

2002   Optofil Safety (today: "Datwyler FO Universal … Safety") became the first metal-free fibre optic cable with E30 circuit integrity as per DIN 4102-12.

2005   Datwyler significantly expanded its international distribution network, e.g. in Eastern Europe and the Middle East.

2008   Datwyler introduced pre-assembled trunk (multiple) cables and high-density systems that specifically address the demand for efficient data centre cabling.

2009   Datwyler started to offer complete turnkey solutions for data networks, data centres and FTTx networks.

2010   Datwyler became full service general contractor for several FTTx projects in Switzerland. Introduction of FTTH special cables and wall outlets.

2011   Datwyler opened a branch in Dubai.

2012   Introduction of the "Datwyler Data Centre Solution". Renaming to "Datwyler Cabling Solutions AG" in Switzerland (1 Nov 2012).

2013   Acquisition by Pema Holding AG. Introduction of the first Category 8 data cable "CU 8203 4P".

2015   Datwyler introduced "FO Outdoor wbKT Micro Combi", the first mini hybrid cable for NGN and NGA networks.

2016   The Cat.7 data cable "CU 7000 4P Home" with a diameter of only 5.8 mm and the "FO Outdoor wbKT S-Micro 12×24" with a diameter of only 10.4 mm were introduced.

2018   Datwyler opened a branch in Italy.

2019   Datwyler opened a branch in the Czech Republic. Introduction of the "High-Density Data Centre Solution" (HD-DCS) and the Micro and Mini Data Centres.

2020   The "FO Universal DLTS" cable family was introduced. Rebranding: "Datwyler Cabling Solutions" became "Datwyler IT Infra".

QUALITY

QUALITY SERVICE

At Datwyler, we keep all the major components for our system solutions in stock at all times, and can therefore guarantee fast delivery. We can answer any query promptly and efficiently, with careful consideration towards the current and future requirements of our clients. Our engineering teams deliver projects on time and within budget, and to the correct specification.

STATE OF THE ART TECHNOLOGY

Datwyler invests year-on-year in improved material and process technologies, production equipment and test methods. This is why our system solutions regularly exceed industry expectations. We set new standards.

QUALITY AS A CONSTANT MISSION – WITHOUT COMPROMISE

In practice, the important functions that our system solutions provide, demand the highest levels of safety and reliability. We therefore test and validate every product and system solution using the most stringent quality-control. Quality without compromise is a constant expectation for all of our employees. It is also our guarantee to our customers.

QUALITY ASSURANCE

Our management system is ISO 9001, ISO 14001 and BS 18001 certified.

WE SURPASS ALL INDUSTRY STANDARDS

Within the development phase of every product, Datwyler defines quality specifications that go beyond the usual industry standards. In addition to general quality-control inspections, our products undergo application-specific testing. With the help of qualified specialists, Datwyler has developed a series of sophisticated test machines specifically for this purpose. We use these to measure every type of cable and every system component against our own rigorous quality specifications. Such extreme testing procedures ensure that all Datwyler's systems and solutions will maintain their integrity, even under the most demanding conditions.

TURN-KEY PROJECTS

Datwyler serves as your single global contact for IT infrastructure projects. We will ensure quality standards adhered to, and that projects are delivered on time and on budget. Through our certified partner network we are able to efficiently roll-out complete solutions and multi-site projects all over the world. Our transparent project reporting provides our clients with the ability to know the exact status of the project at any time. Comprehensive documentation further ensures the quality of the work.

Material logistics plays an important part in multi-site projects. Together with our logistics partners we ensure that all materials are on-site precisely on schedule, in order that projects can be delivered on time.

SERVICES

Datwyler offers a comprehensive range of services that cover the whole life-cycle of your cabling and IT infrastructure solution. These services that we offer in close cooperation with our certified partners include consulting, engineering, implementation and maintenance:

BESPOKE PRODUCT DESIGN

DEVELOPMENT & PRODUCTION SERVICE

CERTIFIED PARTNER NETWORK

NETWORK DESIGN ASSISTANCE

SITE ASSESSMENTS & CERTIFICATIONS

SERVICES YOU NEED

TENDER DOCUMENT TEXTS

25 YEARS SYSTEM WARRANTY

PROJECT LOGISTICS

PROJECT DOCUMENTATION

SITE VISITS, WARRANTY AUDITS

TURNKEY IMPLEMENTATION
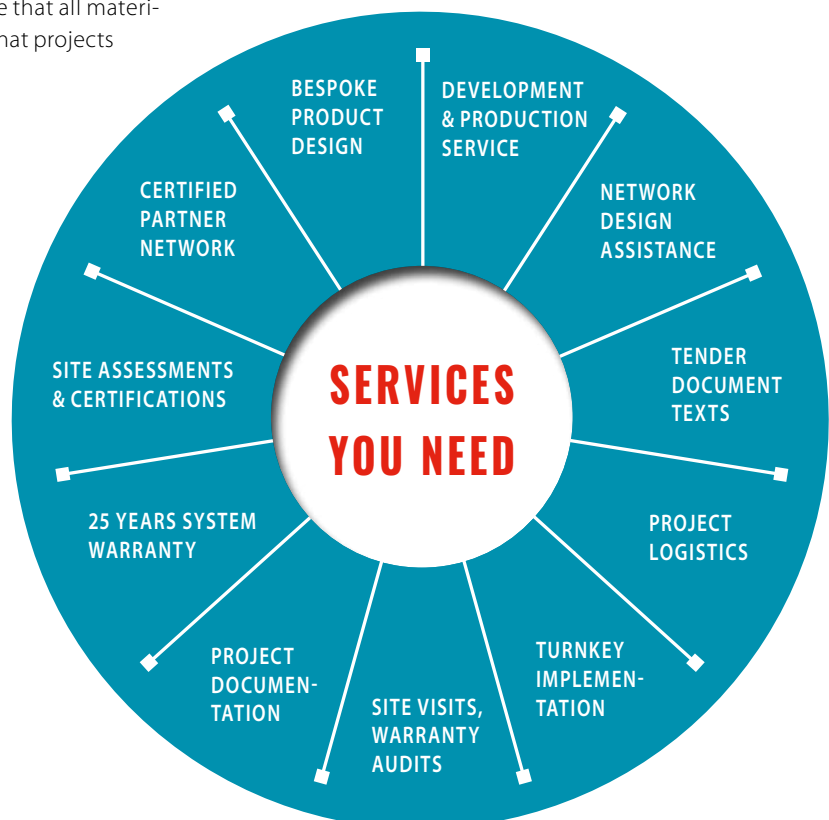
THE EUROPEAN CONSTRUCTION PRODUCTS REGULATION (CPR) EU 305/2011

Since 1st July 2017 cable manufacturers have been obliged to test power cables and lines as well as control and communication cables permanently incorporated in construction works (fixed installation) for reaction to fire performance requirements in accordance with the new harmonised Standard EN 50575, and to classify and market them with a Declaration of Performances (DoP). The import of products from countries outside Europe makes the importer - according to the CPR - a manufacturer who is responsible for the correct product certification and for putting it on the market.

The EU Commission has approved European test laboratories as notified bodies to test and evaluate the reaction to fire performance of cables for this additional task. The product characteristics of a "construction product" cable must be determined and confirmed by a notified body. By the same token the manufacturer's production facility must be subject to ongoing production control by the notified body.

Following product assessment and production monitoring the notified body authorises the manufacturer to deliver his products with the CE mark and to issue a DoP.

The following criteria are evaluated when testing is carried out in compliance with EN 50575:
- Heat of combustion
- Thermal release
- Vertical flame propagation
- Smoke generation
- Flaming droplets/particles of plastics materials which can contribute to fire propagation
- Acidity

The results of this test should be assigned to the following seven cable classes (Euroclasses):

Main class	Description
A_{ca}	Non-flammable, no contribution to fire; products such as mineral-insulated cables and lines
$B1_{ca}$	Low flammability, very limited contribution to fire
$B2_{ca},C_{ca}$	Very limited or limited contribution to fire; cables/ lines without continuous flame propagation; limited fire development and thermal release rate
D_{ca}	Acceptable contribution to fire; products with continuous fire propagation; moderate fire development and thermal release rate
E_{ca}	Normally flammable; cables and lines with acceptable fire behaviour which have flame-retardant characteristics when exposed to a small pilot flame
F_{ca}	Easily flammable; this cable can ignite when exposed to a small flame

Additional classifications are to be determined for classes $B1_{ca}$ to D_{ca}. The fire-critical parameters have been identified as smoke generation, flaming droplets of cable material and the acidity of the combustion gases:

You will find up-to-date information on the classification of our relevant cables and lines in the product data sheets. Declarations of Performance have been provided with the delivery documentation since 1st July 2017. If a copy of the Declaration of Performances is needed it can be requested via the Datwyler contact address of the relevant country. Declarations of Performance are also available for downloading on the Datwyler website.

Additional classes for smoke generation in cables:	
s1	slight smoke generation
s1a	s1 with visibility over 80%
s1b	s1 with visibility between 60% to 80%
s2	moderate smoke generation
s3	severe smoke generation

Additional classes for flaming droplets/particles in cables:	
d0	no flaming droplets
d1	short-lived flaming droplets
d2	persistent flaming droplets

Additional classes for acidity in cables:	
a1	slightly corrosive flue gases
a2	moderately corrosive flue gases
a3	severely corrosive flue gases

The European Construction Products Regulation (CPR) regulates the placing of construction products on the European market – but not their use in construction work. The selection and use of construction products are the responsibility of the European Member States. The requirements governing which fire protection class is specified for which location therefore differ from country to country. Installers and specialist planners must check and comply with the relevant local regulations.

In many countries there were still no mandatory requirements governing the use of fire classes in buildings at 1st July 2017. Where there are still no minimum mandatory legal requirements, there are generally recommendations by the CPR professional associations for application in the relevant countries.

Cables without "CPR classification" may still be installed and used providing there are no national requirements relating to the use of classified cables under Construction Products Regulation. If there already are national requirements relating to application, the use of such cables should be clarified with the authorities responsible.

Cables covered by the CPR but placed on the European market before 1st July 2017 and bearing the CE mark in accordance with the Low Voltage Directive (LVD) may continue to be sold on for an indefinite period.
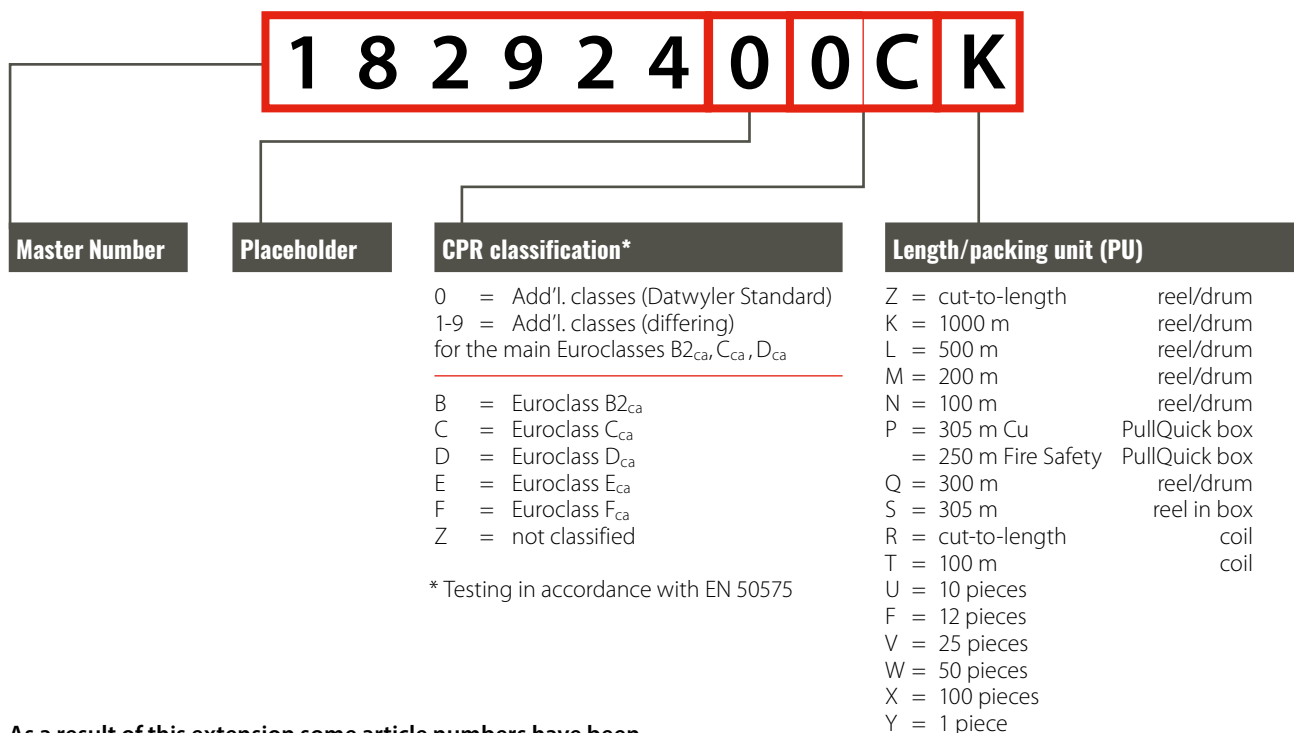
EXTENDED ARTICLE NUMBERS

In 2017, Datwyler began to gradually extend the article numbers of its cables and other products from 6 to 10 digits. This extension provides our customers with important additional information. The first 6 digits show the "master number" of the articles.

The 9th letter indicates the main Euroclass ("reaction to fire" according to the CPR, European Construction Products Regulation No. 305/2011). The 8th digit stands for the additional classes. The 10th letter shows the packaging (cable length or packing unit).

The key to the 10-digit article number:

$$1\ 8\ 2\ 9\ 2\ 4\ \boxed{0}\ \boxed{0}\ \boxed{C}\ \boxed{K}$$

Master Number   **Placeholder**   **CPR classification***

0   = Add'l. classes (Datwyler Standard)
1-9 = Add'l. classes (differing)
for the main Euroclasses $B2_{ca}$, C_{ca}, D_{ca}

B   = Euroclass $B2_{ca}$
C   = Euroclass C_{ca}
D   = Euroclass D_{ca}
E   = Euroclass E_{ca}
F   = Euroclass F_{ca}
Z   = not classified

* Testing in accordance with EN 50575

Length/packing unit (PU)

Z =	cut-to-length	reel/drum
K =	1000 m	reel/drum
L =	500 m	reel/drum
M =	200 m	reel/drum
N =	100 m	reel/drum
P =	305 m Cu	PullQuick box
=	250 m Fire Safety	PullQuick box
Q =	300 m	reel/drum
S =	305 m	reel in box
R =	cut-to-length	coil
T =	100 m	coil
U =	10 pieces	
F =	12 pieces	
V =	25 pieces	
W =	50 pieces	
X =	100 pieces	
Y =	1 piece	

As a result of this extension some article numbers have been integrated into the new ones and some totally replaced.

Note:
Our cables are not available in _any_ CPR classification and _any_ length or packing unit (PU) mentioned above. Please refer to our website for the different versions on offer. Here you can also find the Declarations of Performances (DoP) as PDF files for download.

STATEMENT FROM DATWYLER

As an environmentally conscious manufacturer and supplier of cabling solutions it is our concern not to use any environmentally harmful substances in our products.

Based on current information, the hereinmentioned regulations and directives for substances are fully complied with wherever applicable.

ROHS

DIRECTIVE 2011/65/EU

OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment

DELEGATED DIRECTIVE (EU) 2015/863

OF THE COMMISSION

of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances

WEEE

DIRECTIVE 2012/19/EU

OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE)

REACH

REGULATION (EC) No 1907/2006

OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

SMART MODULAR DATA CENTRE

Cutting edge solutions for small and decentralised data centres

Our world is becoming increasingly digital, interlinked and intelligent. IoT, automation, 5G, robotics and artificial intelligence are opening up many new applications and business models.

To capitalise the opportunities which come with digitalisation, your organisation must rely on a smart and strategic IT infrastructure.
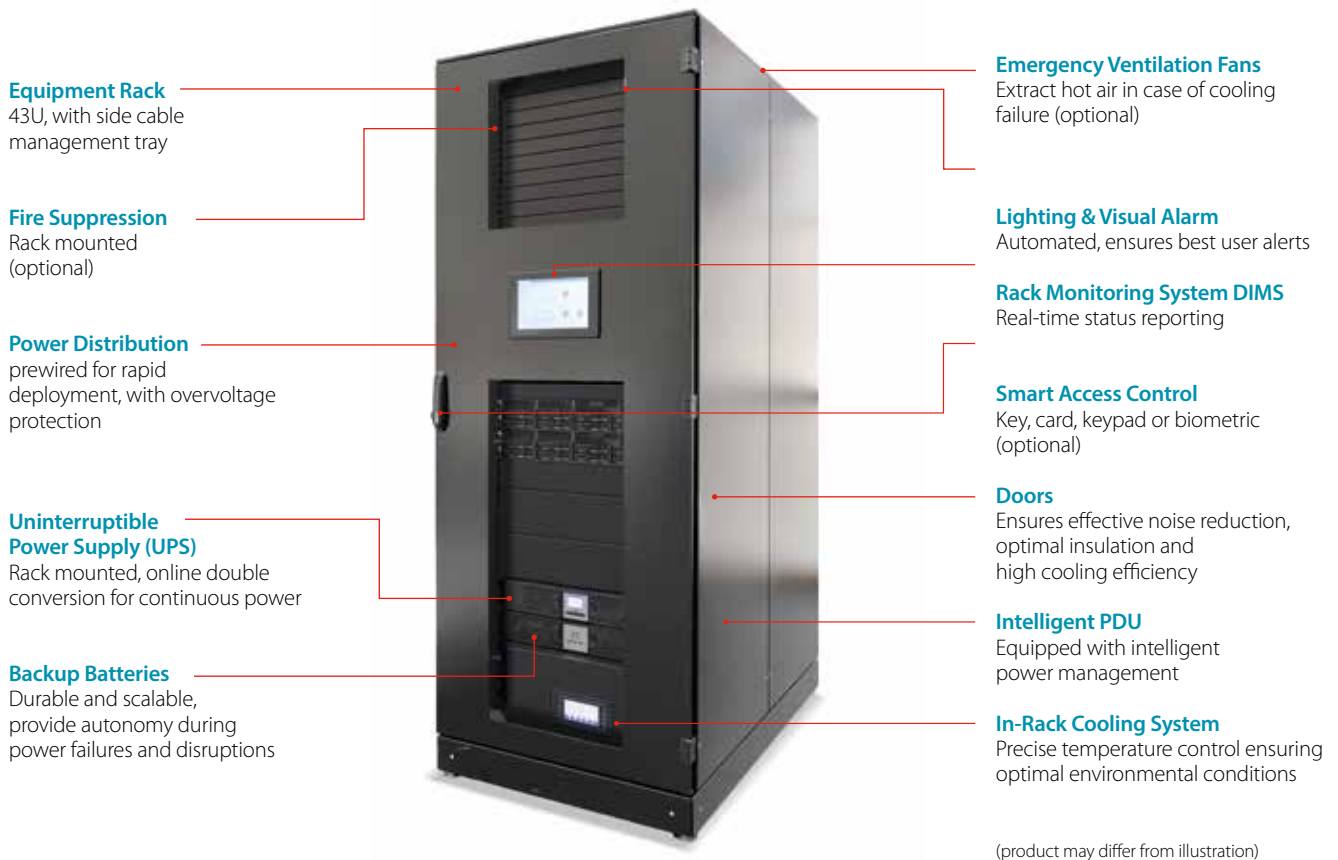
The amount of data produced will continue to grow exponentially. These data volumes have to be processed close to their source (Edge Computing) due to, among other factors, efficiency and latency times. A lot of micro and mini data centres are needed to do this.

Datwyler is a global player that helps organizations to stay at the forefront of progress, elevating their core business. While you focus on developing your business, we take care of your data centre infrastructure – with a comprehensive of customised product solutions and one-stop service solutions tailored to your needs.

DATWYLER MICRO DATA CENTRE

Datwyler´s modular Micro Data Centre is a compact, preassembled, plug-and-play, quick to deploy, fully monitored and managed, low maintenance onsite IT infrastructure solution. It is a standalone data centre that integrates the elements of cooling, power supply, monitoring and security into a single solution.

Unlike maintaining onsite data centres and server rooms which need extensive maintenance, planning, cost and space, the Datwyler Micro Data Centre is a compact solution that enables businesses to run applications on-premise or at the "Edge". The infrastructure can be customised according to customer needs and requirements.

Equipment Rack
43U, with side cable management tray

Fire Suppression
Rack mounted (optional)

Power Distribution
prewired for rapid deployment, with overvoltage protection

Uninterruptible Power Supply (UPS)
Rack mounted, online double conversion for continuous power

Backup Batteries
Durable and scalable, provide autonomy during power failures and disruptions

Emergency Ventilation Fans
Extract hot air in case of cooling failure (optional)

Lighting & Visual Alarm
Automated, ensures best user alerts

Rack Monitoring System DIMS
Real-time status reporting

Smart Access Control
Key, card, keypad or biometric (optional)

Doors
Ensures effective noise reduction, optimal insulation and high cooling efficiency

Intelligent PDU
Equipped with intelligent power management

In-Rack Cooling System
Precise temperature control ensuring optimal environmental conditions

(product may differ from illustration)

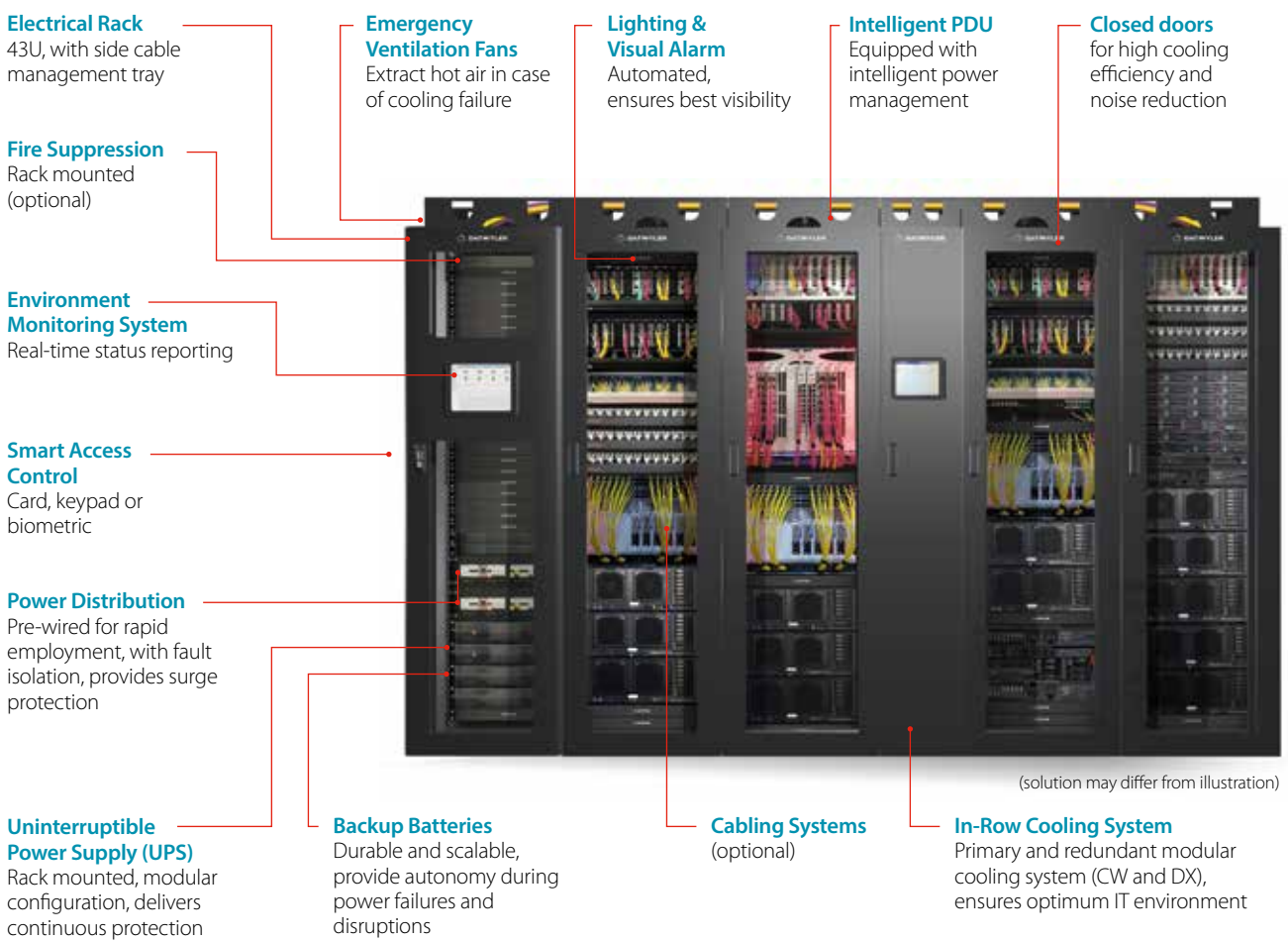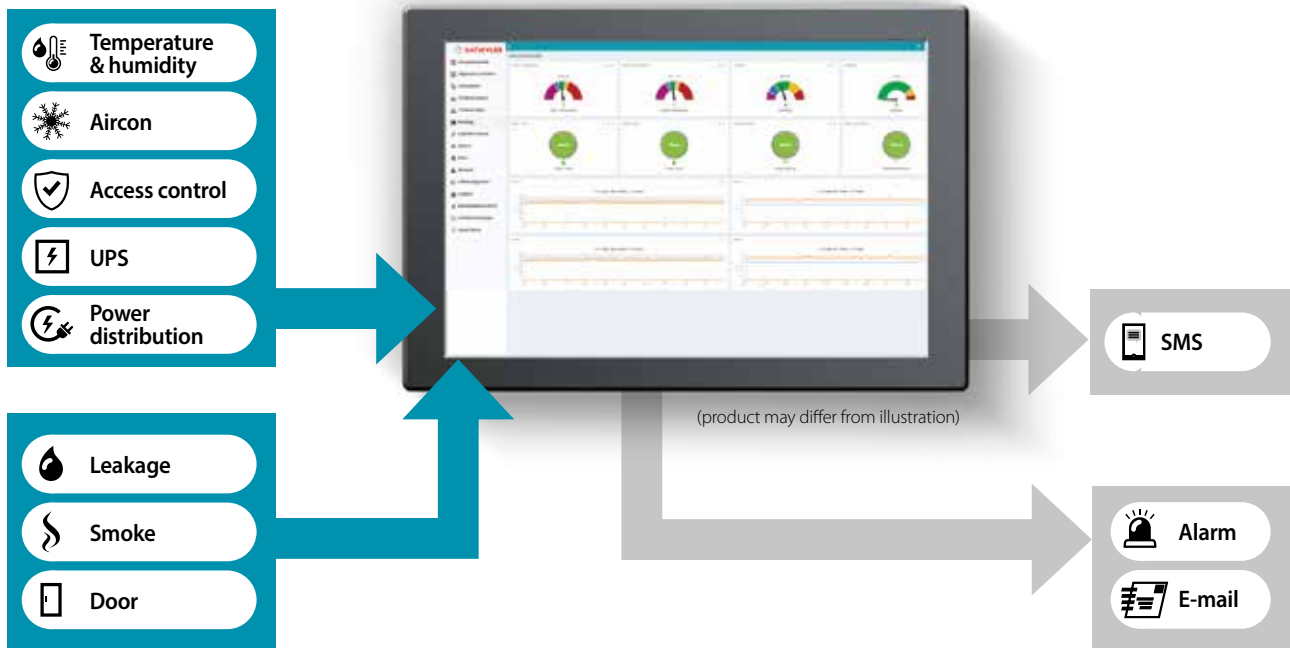| Specifications	MDC 100	MDC 200	MDC 300
Height units	43 U	43 U	43 U
Available space	**42 U**	**39 U**	**33 U**
Dimensions (HxWxD)	2134 x 798 x 809 mm	2134 x 798 x 1209 mm	2134 x 798 x 1209 mm
Doors	Closed (glas front and metal back)	Perforated	Closed (glas front and metal back)
Access control	EK333	EK333	EK333
UPS Capacity	-	up to 3 kVA	up to 3 kVA
Back-up time	-	13 / 28 min @ 100% / 50% load	13 / 28 min @ 100% / 50% load
Cooling capacity	-	-	3.6 kW
User interface	Touch screen, web browser	Web browser	Touch screen, web browser
Monitoring	Temperature, humidity, door status	Temperature, humidity, door status	Temperature, humidity, smoke, door status, leakage, vibration
Alarm	Sound/light alarm, email notification	Sound/light alarm, email/SMS notification	Sound/light alarm, email/SMS notification
Options	Cabling and cable management	Cabling and cable management, scalable backup batteries	Cabling and cable management, ventilation fans, fire extinction system, scalable backup batteries

Versions

The Datwyler Micro Data Centre is a tailor-made and customised solution to fulfil the customers' specific needs and requirements

DATWYLER MINI DATA CENTRE

Datwyler´s modular Mini Data Centre is a state-of-the-art, pre-assembled plug-and-play IT infrastructure solution. It consists of a 43U rack with integrated power distribution, uninterruptible power supply (UPS), fire suppression system (optional), air gap sealing and environment monitoring system, as well as additional IT equipment racks and an in-row cooling system. It can be deployed within a few hours. It provides multiple ways to configure power and cooling redundancy to meet the current demand while being ready for future technology migration at low cost and with less disruption.

Datwyler´s modular Mini Data Centre is designed for applications such as edge computing, small data centre, building distributor (BD), floor distributor (FD) and "smart facilities" deploying IoT devices and running AI, AR, VR and automation.

Electrical Rack
43U, with side cable management tray

Emergency Ventilation Fans
Extract hot air in case of cooling failure

Lighting & Visual Alarm
Automated, ensures best visibility

Intelligent PDU
Equipped with intelligent power management

Closed doors
for high cooling efficiency and noise reduction

Fire Suppression
Rack mounted (optional)

Environment Monitoring System
Real-time status reporting

Smart Access Control
Card, keypad or biometric

Power Distribution
Pre-wired for rapid employment, with fault isolation, provides surge protection

(solution may differ from illustration)

Uninterruptible Power Supply (UPS)
Rack mounted, modular configuration, delivers continuous protection

Backup Batteries
Durable and scalable, provide autonomy during power failures and disruptions

Cabling Systems
(optional)

In-Row Cooling System
Primary and redundant modular cooling system (CW and DX), ensures optimum IT environment

Specifications

IT load	up to 72 kW
UPS capacity	up to 80 kVA
IT racks	up to 8 (static load 1300 kg / rack)
Backup time	up to 15 min
Sensible cooling capacity	up to 75.3 kW (CW or DX)
Dimensions (W x D x H)	800 x 1200 x 2200 mm
Mounting	Direct on floor or on raised floor
Cable entry	Top / bottom access
Emergency ventilation	Top of the rack and front door

Remote management	Cooling system, UPS, access control, iPDU, environment setpoint and alarm notification
Remote monitoring	Cooling system, UPS, access control, iPDU, environmental monitoring system
User interface	Remote web interface
Alarm	Sound/light alarm, email notification

Versions

The Datwyler Mini Data Centre is a tailor-made and customised solution to fulfil the customers' specific needs and requirements

DIMS - DATWYLER INFRASTRUCTURE MONITORING SYSTEM

The Datwyler Infrastructure Monitoring System (DIMS) provides a top level as well as a detailed overview of the status of IT infrastructure housed within a Micro and Mini Data Centre. The system is characterized by real time remote monitoring of environmental conditions, access and energy consumption of IT infrastructure devices and systems. In case of faults or emergencies the system is capable of alerting the user to take timely and necessary action to protect the mission critical IT systems.

System architecture

- Real-time monitoring
- Openness & flexibility
- Alarm notification
- Reports & graphs

- Temperature & humidity
- Aircon
- Access control
- UPS
- Power distribution

- Leakage
- Smoke
- Door

- SMS
- Alarm
- E-mail

(product may differ from illustration)

DIMS features

. Multilingual Web GUI with integrated logic
. Autosensing ports for the automatic detection of sensors
. User access management
. Integrated interfaces: Ethernet, USB, CAN, analog & digital
. SNMP-compatible
. Provides notifications and alerts such as e-mail, SMS and SNMP traps
. Extensive range of sensors for environmental monitoring, security control and power monitoring
. USB interface for video camera
. SD card slot for optional SD card (max. 64 GB)
. SIM card slot for optional LTE modem
. Alarms for maintenance and critical events
. Graphical representation of environmental data

RACK MONITORING SYSTEM

DIMS 300	Article no.	Description	PU
	41847300ZY	DIMS 300 is a tried and tested monitoring system which can be used in all branches of industry for the continuous measurement, recording and reporting of performance-critical environmental factors in a rack. It combines the most advanced hardware and software. Robust metal housing in 19 inch format. Internal 230 volt power supply. 8 auto-sensing RJ12 ports for attaching sensors. Can be extended with additional sensor ports or digital inputs via CAN port. Alarm messages possible via bistable relays. Can be integrated into SNMP-compatible management software on request.	1 pc.

Further features:
- 1x CAN port for extensions or CAN sensors
- 12x bistable relay ports (dry contact)
- 2x 12V DC / 0.25A relays
- 2x bistable relays with status LEDs, max. 250V AC / 10A
- 1x 12V DC connection for backup battery
- 1x 2.0 HS mini USB slot for USB video camera or USB memory stick
- 1x internal temperature sensor for controlling excessive temperature
- 100 MBit Ethernet port
- External earthing point
- LEDs: power, relays, alarm, CAN
- Front restart button
- Network protocols: DHCP, HTTP, HTTPS, SSL, SNMP, SNMP Get, SMTP, SSL, FTP, Syslog, Radius, TLS
- Functions: timer, ping, trigger, alarm filter, virtual sensors via SNMP Get
- Types of alarm: FTP, Syslog, SMTP, SNMP Trap
- Multilingual Web interface

DIMS 200	Article no.	Description	PU
	41847200ZY	DIMS 200 is a tried and tested monitoring system which can be used in all branches of industry for the continuous measurement, recording and reporting of performance-critical environmental factors in a rack. It combines the most advanced hardware and software. Robust metal housing. 12 volt plug-in power supply. 4 auto-sensing RJ12 ports for attaching sensors. Can be extended with additional sensor ports or digital inputs via CAN port. Alarm messages possible via bistable relays. Can be integrated into SNMP-compatible management software on request.	1 pc.

Further features:
- 1x CAN port for extensions or CAN sensors
- 4x bistable relay ports (dry contact)
- 2x 12V DC / 0.25A relays
- 1x 2.0 HS mini USB slot for optional USB video camera or USB memory stick
- 1x internal temperature sensor for controlling excessive temperature
- 100 MBit Ethernet port
- External earthing point
- LEDs: power, relays, alarm, CAN
- Front restart button
- Network protocols: DHCP, HTTP, HTTPS, SSL, SNMP, SNMP Get, SMTP, SSL, FTP, Syslog, Radius, TLS

SENSORS (SELECTION)

DIMS sensors	Article No.	Type	Description			PU
	41847900ZY	DIMS door sensor	Sensor for door monitoring in critical environments and racks. The connection is made via a free sensor port and is automatically recognized by the system.			1 pc.
			Connection:	at sensor port	Cascadable: yes	
			Auto-sense:	yes	Extendable: up to 150 m	
			Area of application:	in-house	Operating temp.: -10 to + 80 ℃ at 5% to 95% RH (relative air humidity)	
			Scope of delivery:	1x sensor, 1x connection cable (2 m), 2x 4.8 × 16 mm screw for fastening, 2x double-sided tape		
	41847700ZY	DIMS temperature sensor	Sensor for temperature monitoring in critical environments and racks. The connection is made via a free sensor port and is automatically recognized by the system.			1 pc.
			Connection:	at sensor port	Cascadable: no	
			Auto-sense:	yes	Extendable: up to 100 m	
			Measurement accuracy: ± 0.5 ℃		Operating temp.: -45 to + 105 ℃ at 5% to 95% RH	
			Scope of delivery:	1x sensor, 1x 4-wire RJ11 cable (2 m), 1x 4.8 × 16 mm screw for fastening, 1x double-sided tape		
	41847800ZY	DIMS air humidity sensor	Sensor for air humidity monitoring in critical environments and racks. The connection is made via a free sensor port and is automatically recognized by the system.			1 pc.
			Connection:	at sensor port	Cascadable: no	
			Auto-sense:	yes	Extendable: up to 50 m	
			Measurement accuracy: ± 5%		Measuring range: 10-95% RH	
			Area of application:	in-house	Operating temp.: -10 to + 80 ℃ at 5% to 95% RH	
			Scope of delivery:	1x sensor, 1x 4-wire RJ11 cable (2 m), 1x 4.8 × 16 mm screw for fastening, 1x double-sided tape		
	41848500ZY	DIMS smoke detector	Smoke detector/fire alarm for indoor installation to monitor critical environments and racks. All detectors can be connected in series. A network of up to 10 detectors can be set up.			1 pc.
			Connection:	at sensor port	Cascadable: yes (up to 10)	
			Auto-sense:	yes	Extendable: up to 150 m (smoke detector chain)	
			Area of application:	in-house	Ambient temp.: 0 to + 70 ℃ at 5% to 95% RH	
			Dimensions:	Ø 100 mm x 45 mm	Status indication: LED (red)	
			Scope of delivery:	1x smoke detector, 1x RJ11 connection cable, 1x mounting material		
	41848600ZY	DIMS vibration sensor	Sensor for vibration monitoringin critical environments and racks. The connection is made via a free sensor port and is automatically recognized by the system.			1 pc.
			Connection:	at sensor port	Cascadable: yes	
			Auto-sense:	yes	Extendable: up to 145 m (entire sensor chain)	
			Area of application:	in-house	Operating temp.: -10 to + 80 ℃ at 5% to 95% RH	
			Scope of delivery:	1x sensor, 1x RJ11 connection cable (2 m), 1x mounting material		
	41848000ZY	DIMS leakage sensor	Sensor for leakage monitoring in critical environments and racks. The connection is made via a free sensor port and is automatically recognized by the system.			1 pc.
			Connection:	at sensor port	Cascadable: no	
			Auto-sense:	yes	Extendable: up to 100 m	
			Area of application:	in-house	Response time: 1 sec	
			Reset time:	1 sec	Operating temp.: -10 to + 80 ℃ at 5% to 95% RH	
			Scope of delivery:	1x sensor, 1x connection cable (2 m), 1x mounting material		

For more versions please visit our homepage: ITinfra.datwyler.com

DATA CENTRE ONLINE CONFIGURATION

Smart Modular Data Centre configurator

The configurator for our Smart Modular Data Centres (SMDC) offers you the opportunity to easily plan and design the desired IT infrastructure solution – from small (Micro) to medium-sized (Mini) to large data centres.

It includes racks, UPS, intelligent power distribution, air conditioning, cabling, leak detection, fire alarm, fire suppression, access control and environmental monitoring – with SMS and email notification.

After entering the project requirements, the tool generates workshop drawings with technical specifications, data sheets and target prices. In addition, users are able to design Smart Modular Data Centres that comply with international standard Tier classification levels.

Configure your Smart Modular Data Centre based on your individual needs.

In addition, there are two other configurators for Europe:

IT Safe configurator / Micro Data Centre

Protect your sensitive data and servers on site with an IT Safe / Micro Data Centre against all major physical hazards such as theft, vandalism and natural forces.

Configure your IT Safe / Micro Data Centre based on your individual needs.
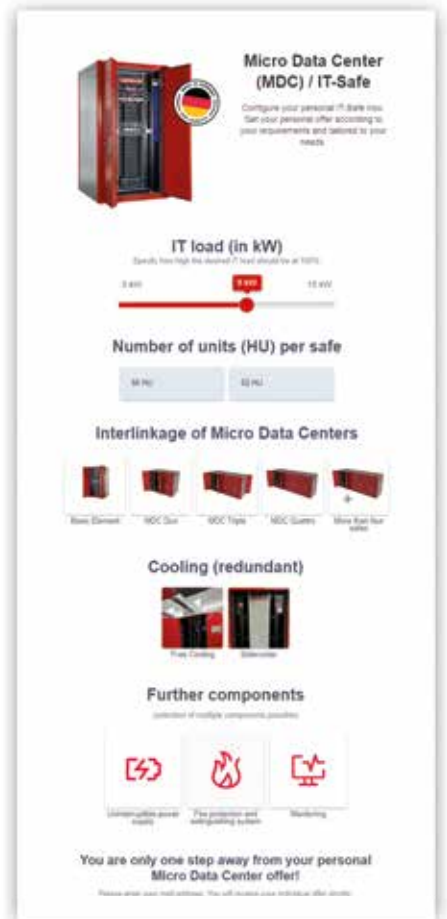
Data Centre Container configurator

Use the mobile Data Centre Container wherever critical applications, data and servers are used in your business. In addition to mobile and modular use, the Data Centre Container protects against dust, damage, fire, rain, extinguishing water and unauthorised access.

Configure your Data Centre Container based on your individual needs.

As a reliable partner, Datwyler provides advice on all aspects of secure IT infrastructure solutions. In addition, Datwyler supplies, installs, operates and maintains them in the usual high quality.

WE WILL BE HAPPY TO ADVISE YOU PERSONALLY.

Just send us an email and we will get back to you immediately:

support.itinfra.eu@datwyler.com

DATA CENTRE HEALTH CHECK

Datwyler Data Centre Health Check assessment service provides an entry-level on-site assessment of existing data centre IT infrastructures and components.

The Data Centre Health Check compares your current environment to the industrial standards and best practices for maintaining a reliable facility. We identify high priority issues, overall system risks and problem areas while providing recommendations for data centre improvements. Datwyler performs the assessment by its own certified data centre experts.

WHY DATA CENTRE HEALTH CHECK?

. Check compliancy related to defined standard
. Indicate single points of failure
. Identify weaknesses, prevent downtime and increase availability
. Analyse internal organization processes and documentation
. Provide recommendations for improvement

MEASUREMENTS

. Thermal scanning
. Temperature and humidity measurement
. Power consumption measurement
. Airflow measurement
. Cabling infrastructure performance tests
. Electrostatic potential and grounding tests

HEALTH CHECK PROCEDURES

1. Pre-visit:
Meeting with your IT and data centre operational team at the site along with completion of a questionnaire: define availability class, requested specifications and size in order to provide a detailed assessment offer.

2. Document study:
Collect and analyse your relevant documents.

3. Site assessment:
Assessment based on a pre-defined catalogue of criteria; measurements on cooling systems, power supply systems, cabling infrastructure, safety and security environment as well as staff interviews.

4. Information analysis:
Conduct a gap analysis by comparing the results from the catalogue of criteria and site assessment with data centre international standards to evaluate the current state of your data centre facility.

5. Report:
Present the results to you in a clear format that quickly addresses the issues and summarizes the risks along with recommendations to optimize performance and to improve efficiency.

DESIGN VALIDATION

We validate the design of your new or existing data centre and compare it for compliance to EN 50600 standard.

The outcome is a report which will indicate the level of compliance.

ASSESSMENT

. We perform an assessment based on the relevant European standard EN 50600.
. We use a comprehensive test catalogue covering the building environment, building construction, power supply systems, fire alarm and fire suppression systems, security systems, air conditioning, cabling, organisation and documentation.
. We conduct a gap analysis to evaluate compliance of your data centre facility.

SERVICES

Effective expert services for all our customers

Companies can optimise their resources and concentrate on their core competences by outsourcing IT tasks to specialist providers, while at the same time ensuring that their IT systems are always state-of-the-art and safe from cyber attacks.

Our services cover the whole value chain: from site surveys, conception and system engineering through installation, logistics and turnkey supply to documentation and system maintenance. The basis for this is our competence in product design, operating experience, international presence, and our globally established partner network.

Datwyler believes that individual and flexible solutions are part of a good service. First-class support and fast response times in the event of problems are a matter of course for Datwyler.

DATA CENTRE INFRASTRUCTURE AND DATA NETWORK SERVICES

The Datwyler Data Centre Infrastructure and Data Network range of services includes all the technical and site-related measures needed to ensure the successful design and project implementation of your IT infrastructures as well as their professional maintenance.

- Design and Consultancy
- Audit and Assessment
- Financing and Leasing
- Turnkey Implementation and Commissioning
- Maintenance and Repair

Further information can be found on our website under the menu item "Services".

SERVICE LEVELS FOR DATA CENTRE INFRASTRUCTURE SOLUTIONS

Datwyler's IT infrastructure solutions meet the highest quality standards.
Still, the wear of mechanical and electronic components, the aging of batteries or the pollution of filters can lead to unwanted failures.
Your systems require regular maintenance to ensure proper operation and maximum availability throughout the entire operating cycle.

Scope of services:	Data Centre SLA Basic	Data Centre SLA Premium
Yearly maintenance		
Review and functional control of all components according to the configuration	x	x
Execution of maintenance work during office hours, Mon – Fri, 08:00 a.m. – 05:00 p.m.	x	x
Execution of maintenance work outside office hours, Mon – Fri, 05:00 p.m. – 10:00 p.m.	optional	optional
Further maintenance windows, at weekends, at nights, etc.	on request	on request
Status report and entry in the maintenance log	x	x
Support and response time		
Free support hotline 5 x 8 hrs (office hours, Mon – Fri, 08:00 a.m. – 05:00 p.m.)	x	x
Ticketing account in customer portal 7 x 24 hrs	x	x
Free augmented reality support		x
Guaranteed response time until the next working day (Mon – Fri, 08:00 a.m. – 05:00 p.m.	x	x
Guaranteed response time 24 hrs / 365 days a year	optional	optional
Extended warranty service		
Guaranteed availability of spare parts and components during the contract period for a maximum of 10 years	x	x
Free spare parts and wear parts*		x
Repair costs		
Repair assignments depending on the effort*	x	
Free on-site repairs		x
Monitoring		
Remote monitoring of all components according to the configuration		x

* if not covered by guarantee or warranty

Access to these services is restricted to data centres and data networks installed by Datwyler.
Datwyler will submit maintenance alternatives on request which will be tailored to your particular requirements.

MANAGED SERVICES

Managed Network
for approx. 25 or 75 employees

System is located on site

Including switches, firewall and Wifi

Monitoring and Support
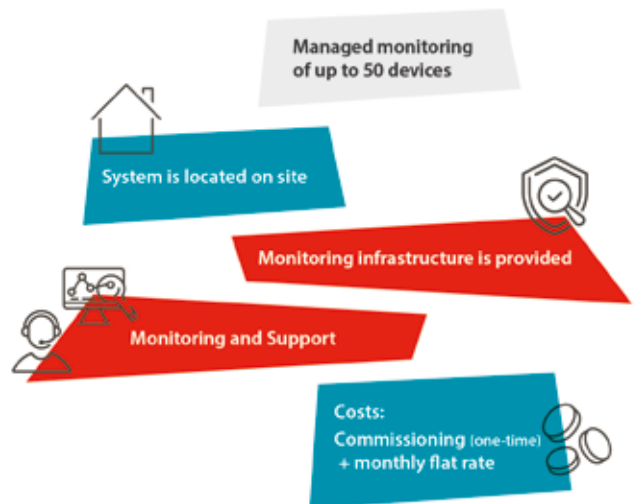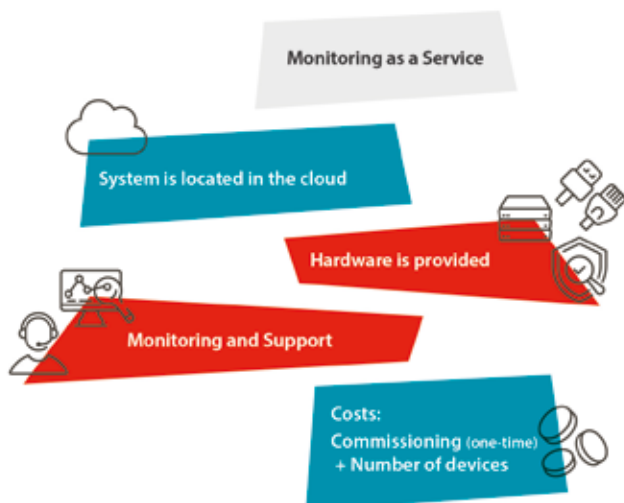
Costs:
Commissioning (one-time)
+ monthly flat rate
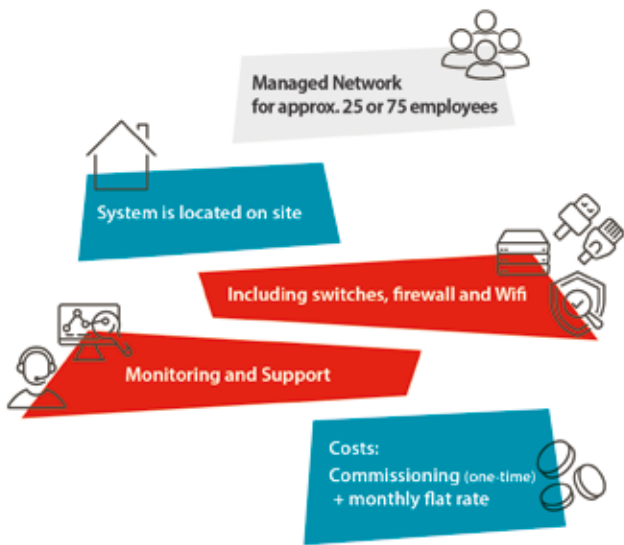
Datwyler IT Infra has established a reputation as a provider of reliable IT infrastructure solutions. By adding managed networks and managed monitoring to the portfolio Datwyler supports organisations in being able to concentrate on their core competences.
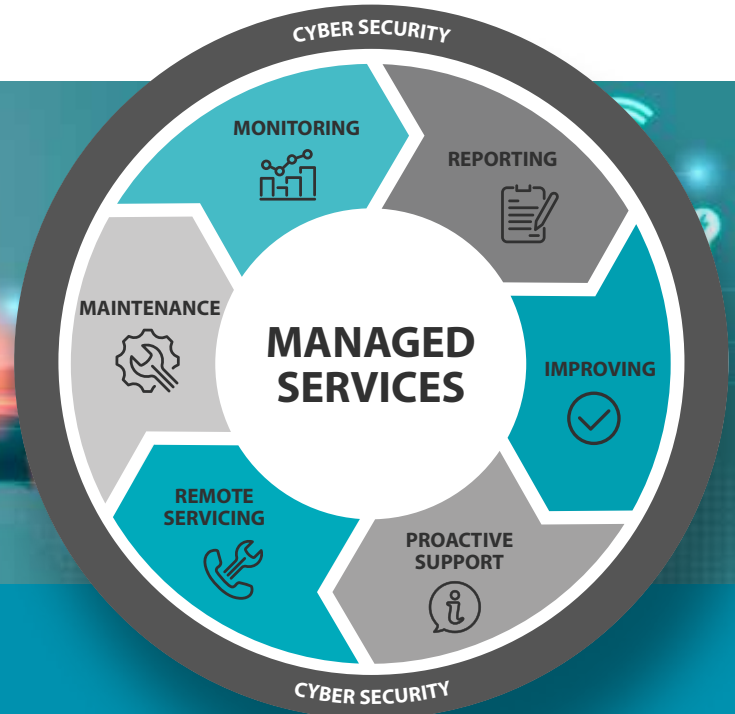
Datwyler offers standardised **Managed Network** packages adapted to customers with up to 25 or up to 75 employees. As well as this there are individualised solutions tailor-made to the customer's requirements. Datwyler attaches great importance to high performance and the greatest possible security.

These services are perfectly coordinated. They include planning, implementation and administration of the network, and they ensure that everything runs smoothly. This also includes monitoring the entire network in order to identify and rectify potential problems and attacks at an early stage. A central element of the managed networks are the integrated security solutions that protect against cyber attacks.

Datwyler's **Managed Monitoring** and **Monitoring-as-a-Service** allow companies to monitor their IT infrastructure around the clock. Data from the network, servers, applications and end devices are continuously collected and analysed, and potential problems are identified before they can cause malfunctions.

The Datwyler team of experts also supplies its customers with detailed reports which help them optimise the performance of their IT infrastructure.

Managed monitoring
of up to 50 devices

System is located on site

Monitoring infrastructure is provided

Monitoring and Support

Costs:
Commissioning (one-time)
+ monthly flat rate

Monitoring as a Service

System is located in the cloud

Hardware is provided

Monitoring and Support

Costs:
Commissioning (one-time)
+ Number of devices

MANAGED SERVICES

CYBER SECURITY

MONITORING

REPORTING

MAINTENANCE

IMPROVING

REMOTE SERVICING

PROACTIVE SUPPORT

CYBER SECURITY

SERVICE LEVELS
FOR MANAGED SERVICES

Scope of services:	Service Basic	Service Premium	Service Premium+
Maintenance of the network infrastructure			
Maintenance work at fixed agreed times/year	6x	12x	12x
Maintenance work during office hours, Mon – Fri, 08:00 a.m. – 05:00 p.m.	x	x	x
Maintenance work outside office hours Mon – Fri, 05:00 p.m. – 10:00 p.m.		x	x
Maintenance work at weekends (Sat/Sun)			x
Detailed maintenance report	x	x	x
Support and response time			
Support Hotline 5 x 9 hrs (office hours, Mon – Fri, 08:00 a.m. – 05:00 p.m.)	x	x	x
Customer Portal Ticketing System 7 x 24 hrs	x	x	x
Guaranteed response until the next business day (NBD)*	x		
Guaranteed response within 4 hrs*		x	
Guaranteed response within 1 h*			x
Extended warranty service			
Guaranteed availability of spare parts and components*	x	x	2 h
Repair and maintenance costs			
Free support (incl. free on-site support)			x
Monitoring			
Monitoring of the components agreed in the service and proactive response within the agreed response time	x	x	x
Prices			
Fixed commissioning costs	x	x	x
Monthly flat rate	x	x	x

* Office opening hours 08:00 a.m. – 05:00 p.m.

COPPER SOLUTIONS
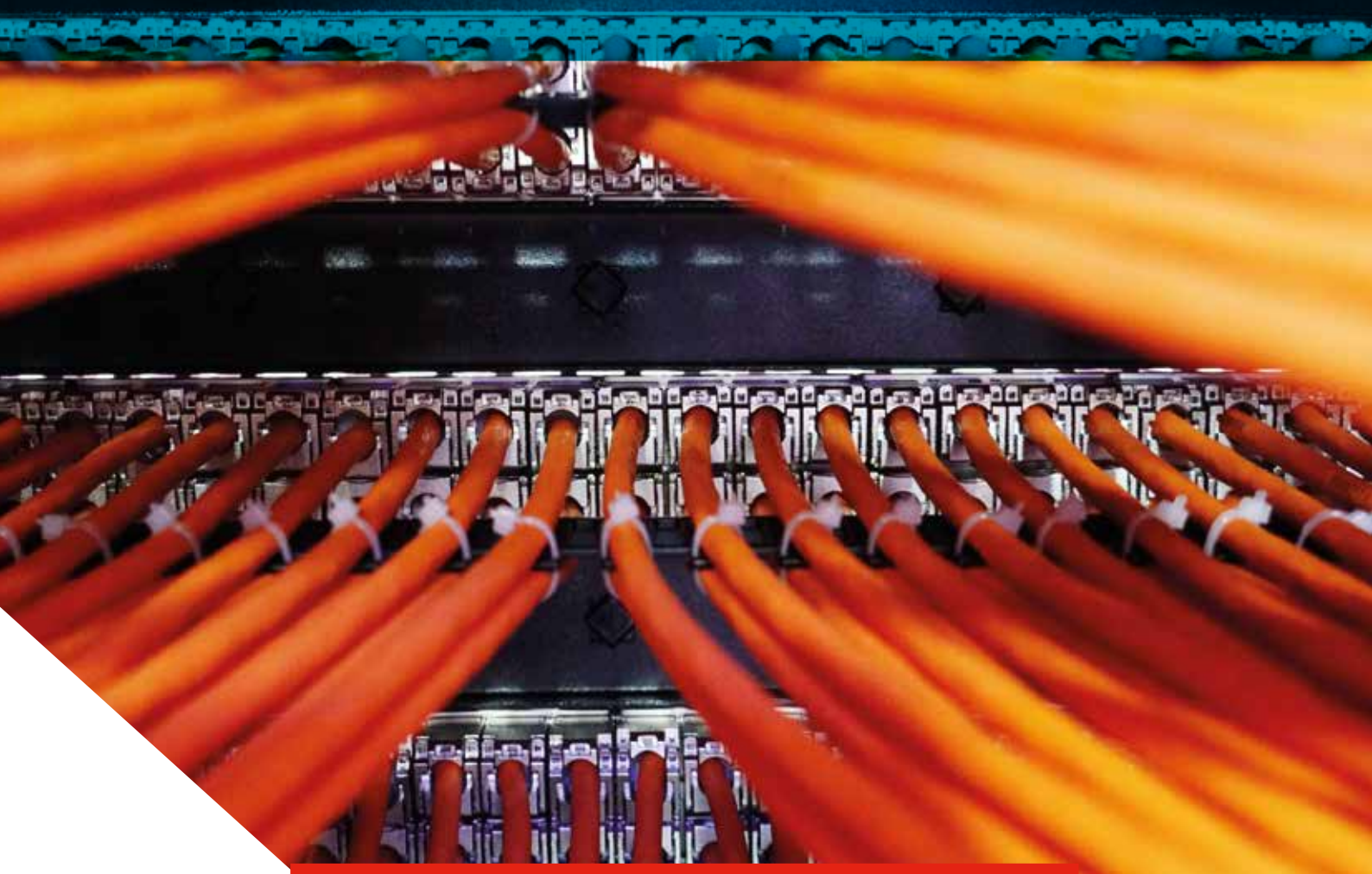
High-grade copper system solutions

Datwyler develops, manufactures and distributes high-grade and futureproof network infrastructure solutions based on copper cabling technology - from analogue telephony to 10- and 40-gigabit Ethernet. These system solutions set standards for quality, reliabilty and performance and meet all media covergence needs.

With Datwyler copper cabling systems you can always keep up with the constantly increasing transfer rates and exploit the full potential of networks. Thus, they offer high investment security for the future.

The comprehensive product range extends from single cables and components to complete end-to-end systems. The modular solutions of Datwyler are suitable for all sizes and types of Local Area Networks (LANs), comms rooms and data centres.

Subject to technical modification.

DĀTWYLER

COPPER CABLING SYSTEM

The Datwyler product portfolio includes shielded and unshielded copper technology system solutions for the transmission of analog and digital voice, image, multimedia and data signals as well as control signals and remote power (PoE to 4PPoE).

On the following pages you will find our recommendations for copper data networks with transmission speeds of 1 Gbit/s, 10 Gbit/s and more – i.e. for all your applications in office environments and data centres. Here you can also basically choose between especially future-proof "high-end" and "premium" solutions as well as cables and components which are very popular with our customers due to their cost-effectiveness or optimum price-performance ratio.

The demands on cabling systems continue to grow at a rapid pace. A shielded 10 Gbit/s copper solution from Datwyler brings such high performance to your office environment that it also equips your network infrastructure for future technologies (from page 26 onwards). These days it is vital to plan well ahead in a data centre environment as well, in order to be prepared for further technological advances (from page 75 onwards).

SHIELDED VS. UNSHIELDED

The higher the demands on data infrastructure, the greater the influence from the surrounding systems. As part of the ISO standard, new specifications have been established for coupling damping and Alien Cross Talk. These parameters demand an error-free 1GBase-T and 10GBase-T application.

An independent analysis within a third party laboratory has highlighted the problem from outside influence. A simple mobile phone within the area of a 1GBase-T application can create interference on a 1GBase-T unshielded application.

Datwyler therefore recommends shielded Channel solutions for guaranteed performance on a secure network.
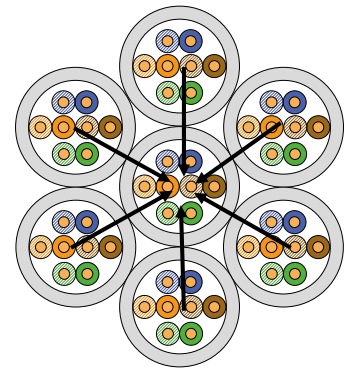
DATWYLER CABLES

+ DATWYLER COMPONENTS

+ QUALITY ENGINEERING

= 25-YEAR SYSTEM WARRANTY

The sophisticated Datwyler training and certification programme for Solution Partners guarantees the optimal installation quality of our products. Certified partners can offer a Datwyler warranty for the installed systems: normally for 25 years, but this can be extended depending on project criteria.

DATWYLER LINK RECOMMENDATIONS

High-End Link: greatest headroom, PoE++/4PPoE, future-proof

Highest bandwidth reserve capacities and power transmission to the workplace over the LAN cabling system - up to 96 W for end devices such as computers, monitors, cameras and telephones.

Premium Link: good headroom, PoE++/4PPoE, future-proof

High bandwidth reserve capacities and power transmission to the workplace over the LAN cabling system - up to 96 W for end devices such as computers, monitors, cameras and telephones.

Most Economical Link

The solution which is most commonly used by Datwyler customers for the transmission of voice, video, multimedia and data signals.

CU 7702 4P / 2x4P, Cat.7$_A$, AWG22	**CU 7080** 4P / 2x4P, Cat.7, AWG23	**CU 6552** 4P / 2x4P, Cat.6$_A$, AWG23
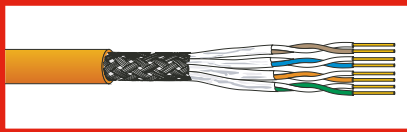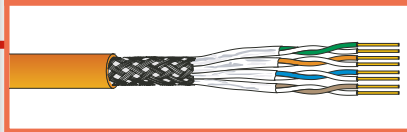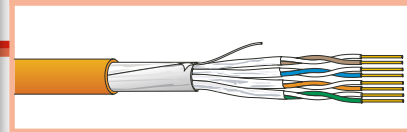
The colours indicate which cables and components are correlated.
Please find the product data sheets and link performance certificates on the Datwyler website. Besides the article numbers you will also find the respective Declarations of Performances (DoPs according to CPR) as PDF files for downloading.

This overview provides recommended cables and components which are the best fit to your current and future requirements. **Please note the recommended links on the following pages which are highlighted in different colours.**

Most Popular Link

which offers the best price-performance ratio for the transmission of digital and analogue voice, video, multimedia and data signals.

CU 7060
4P / 2x4P, Cat.6$_A$, AWG23

KS-TC Plus 1/8
tool-less, Cat.6$_A$

RJ45 patch cord*
Cat.6$_A$ (IEC)

Unshielded Link, 10GB UTP with high capacity reserves

for the transmission of digital and analogue voice, video, multimedia and data signals.

CU 692
4P, Cat.6$_A$, AWG23

KU-TC Plus 1/8
tool-less, Cat.6$_A$
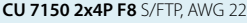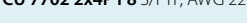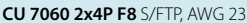
* to complete the Channel use.

COPPER CABLING SYSTEMS

Category / Class	Patch panel		
shielded			
Cat. 8 / Class I 25, 40GBit/s	**KS 24x** Keystone patch panel, unloaded	**KS 24x-a** Keystone patch panel, angled, unloaded	**KS 48x** Keystone patch panel, unloaded, black **KS 48x-a** Keystone patch panel, angled, unloaded, black
Cat. 7$_A$ / Class F$_A$ 1000 MHz	**MPS 24x** unloaded, stainless steel (PS-TERA)	**MGK 24x** unloaded, stainless steel (PS GG-45)	**MGK 48x** unloaded, stainless steel (PS GG-45)
Cat. 6$_A$ / Class E$_A$ 500 MHz	**KS 24x** Keystone patch panel, unloaded **MGK 24x** Keystone patch panel, unloaded, stainless steel and grey	**KS 48x** Keystone patch panel, unloaded, black **KS 48x-a** Keystone patch panel, angled, unloaded, black	**CSA 24/8 Cat.6$_A$** alternativ: Compact Solution with integrated RJ45 modules **KS 24x-a** Keystone patch panel, angled, unloaded
unshielded			
Cat. 6$_A$ / Class E$_A$ 500 MHz	**KU 24x-sg** Keystone patch panel, staggered, unloaded		
Cat. 6 / Class E 250 MHz	**KU 24x** Keystone patch panel, unloaded	**CUP 24/8 Cat.6** Compact Solution with integrated RJ45 modules	

Data cable		Module	Patch cord
CU 8203 4P S/FTP, AWG 23 25 and 40GBit/s **CU 7725 4P** S/FTP, AWG 22, 25GBit/s		RJ45 module **KS-T8 Class I**	**RJ45 patch cord Cat.8/Class I** CU 8206 flex
CU 7150 4P S/FTP, AWG 22 **CU 7150 2x4P F8** S/FTP, AWG 22 **CU 7702 4P** S/FTP, AWG 22 **CU 7702 2x4P F8** S/FTP, AWG 22	**CU 7120 4P** S/FTP, AWG 23 **CU 7120 2x4P F8** S/FTP, AWG 23	**PS-GG45 7$_A$ Cat.7$_A$** **PS-TERA 4P Cat.7$_A$**	**Patch cord PS-GG45 4P** **Patch cord PS-TERA 4P**
CU 7080 4P S/FTP, AWG 23, Cat.7 **CU 7080 2x4P F8** S/FTP, AWG 23, Cat.7 **CU 7060 4P** S/FTP, AWG 23 **CU 7060 2x4P F8** S/FTP, AWG 23	**CU 6552 4P** F/FTP, AWG 23 **CU 6552 2x4P F8** F/FTP, AWG 23 **CU 6502 4P** U/FTP, AWG 23 **CU 6502 2x4P F8** U/FTP, AWG 23	**RJ45 module KS-TC Plus 1/8 Cat.6$_A$** **RJ45 module KS-T Plus 1/8 Cat.6$_A$** **RJ45 module MS-C6$_A$ 1/8 Cat.6$_A$ (IEC) 180°-K**	**RJ45 patch cord Cat.6$_A$/E$_A$** CU 7702 flex
CU 692 4P U/UTP, AWG 23		**RJ45 module KU-TC Plus 1/8 Cat.6$_A$**	**RJ45 patch cord Cat.6$_A$/E$_A$** CU 7702 flex **RJ45 patch cord Cat.6$_A$ UTP**
CU 662 4P U/UTP, AWG 24		**RJ45 module KU-T 1/8 Cat.6**	**RJ45 patch cord Cat.6** CU 602 flex **RJ45 patch cord Cat.6**

DATA CABLES CATEGORY 7$_A$, 7 AND 6$_A$

Copper data cables,
up to 1000 MHz, 4 x 2 x AWG23,
for structured premises cabling.
Applicable up to 10GBase-T.
Applicable standards:
EN 50173-1:2002,
ISO/IEC 11801:2002/A2:2010.
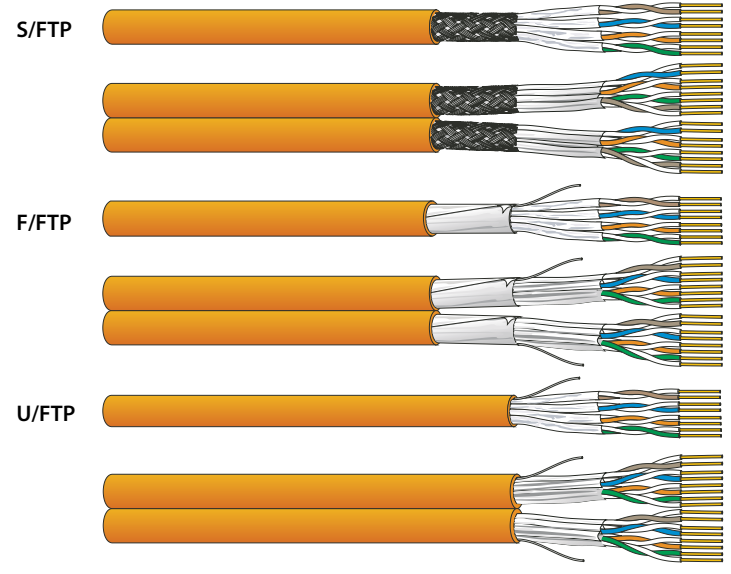
S/FTP

F/FTP

U/FTP

High-End Link: greatest headroom, PoE++/4PPoE, future-proof

Premium Link: good headroom, PoE++/4PPoE, future-proof

Most Economical Link

Most Popular Link

Article No.	Dimensions n x n x mm (AWG)	Sheath	Sheath Ø mm	Weight kg/km	Cu weight kg/km	Fire load kWh/m	MJ/m	Colour	PU	PoE
CU 7150 4P, S/FTP, AWG22, Category 7$_A$ data cable, shielded										
18292500DK	4 x 2 x 0.64 (AWG22)	FRNC/LS0H[1]	7.6	65.3	40.2	0.18	0.62	orange	1000 m drum	
18292600DL	2x (4 x 2 x 0.64 AWG22)	FRNC/LS0H[1]	7.6 x 16.0	131.4	80.4	0.36	1.24	orange	500 m drum	4PPoE
CU 7702 4P, S/FTP, AWG22, Category 7$_A$ data cable, shielded										
17740000DK	4 x 2 x 0.62 (AWG22)	FRNC/LS0H[1]	7.6	61.9	34.9	0.18	0.64	orange	1000 m drum	
17739000DL	2x (4 x 2 x 0.62 AWG22)	FRNC/LS0H[1]	7.6 x 16.2	125.7	69.8	0.36	1.29	orange	500 m drum	4PPoE
CU 7120 4P, F/FTP, AWG23, Category 7$_A$ data cable, shielded										
19146600DK	4 x 2 x 0.59 (AWG23)	FRNC/LS0H[1]	7.6	63.0	32.3	0.18	0.649	orange	1000 m drum	
19146700DL	2x (4 x 2 x 0.59 AWG 23)	FRNC/LS0H[1]	7.6 x 16.0	126.0	64.6	0.36	1.298	orange	500 m drum	4PPoE
CU 7080 4P, S/FTP, AWG23, Category 7 data cable, shielded										
18291100DK	4 x 2 x 0.57 (AWG23)	FRNC/LS0H[1]	7.2	54.8	31.1	0.16	0.57	orange	1000 m drum	
18291200DL	2x (4 x 2 x 0.57 AWG23)	FRNC/LS0H[1]	7.2 x 15.4	109.6	62.2	0.32	1.14	orange	500 m drum	PoE+
CU 7060 4P, S/FTP, AWG23, Category 6$_A$ data cable, shielded										
18292400DK	4 x 2 x 0.55 (AWG23)	FRNC/LS0H[1]	7.1	55.0	26.4	0.152	0.55	orange	1000 m drum	
18292700DL	2x (4 x 2 x 0.55 AWG23)	FRNC/LS0H[1]	7.1 x 15	110.0	52.8	0.304	1.10	orange	500 m drum	PoE
CU 6552 4P, F/FTP, AWG23, Category 6$_A$ data cable, shielded										
19145400DK	4 x 2 x 0.55 (AWG23)	FRNC/LS0H[1]	7.0	48.5	20.0	0.14	0.52	orange	1000 m drum	
19145600DL	2x (4 x 2 x 0.55 AWG 23)	FRNC/LS0H[1]	7.0 x14.3	97.0	40.0	0.28	1.04	orange	500 m drum	PoE
CU 6502 4P, U/FTP, AWG23, Category 6$_A$ data cable, shielded										
19145300DK	4 x 2 x 0.55 (AWG23)	FRNC/LS0H[1]	7.0	47.8	20.0	0.15	0.55	orange	1000 m drum	
19145500DL	2x (4 x 2 x 0.55 AWG 23)	FRNC/LS0H[1]	7.0 x 14.3	95.6	40.0	0.30	1.10	orange	500 m drum	PoE

The "D" in these article numbers stands for Euroclass D$_{ca}$. For higher fire performance requirements, Datwyler offers these cables also with Class C$_{ca}$ or even B2$_{ca}$ performance. For the available Euroclasses please refer to the online data sheets on ITinfra.datwyler.com.
[1] FRNC/LS0H = Flame Retardant Non Corrosive/Low Smoke Zero Halogen

4PPoE 4PPoE / 90W AWG22   **4PPoE** 4PPoE / 90W AWG23   **PoE+** PoE+ / 30W < AWG22   **PoE** PoE / 15W

High-End Link

Premium Link

Most Economical Link

Most Popular Link

RJ45 MODULES
shielded

KS-TC Plus 1/8 Cat.6$_A$ (IEC) KS-T Plus 1/8 Cat.6$_A$ (IEC) KS-TS 1/8 Cat.6/E$_A$ (IEC) MS-K Plus 1/8 Cat.6$_A$ (IEC)

Article No.	Description	Colour	PU
41806900ZF	RJ45 module KS-TC Plus 1/8 Cat.6$_A$, shielded, tool-less	metal	12 pcs.
41806100ZF	RJ45 module KS-T Plus 1/8, Cat.6$_A$ (IEC), shielded, tool-less, with dust shutter	metal	10 pcs.
41805400ZF	RJ45 module KS-TS 1/8, toolless slimline Cat.6/E$_A$ shielded	metal	10 pcs.
440005	RJ45 module MS-K Plus 1/8, Cat.6$_A$ (IEC), with colour code TIA 568-A and TIA 568-B	metal	10 pcs.

Accessories for RJ45 modules, Cat.6$_A$/E$_A$, shielded

418062	Dust shutters for module KS-TC Plus and KS-T Plus, Cat.6$_A$ (1 set = 10 pcs.)	white	1 set
418063	Dust shutters for module KS-TC Plus and KS-T Plus, Cat.6$_A$ (1 set = 10 pcs.)	black	1 set
418064	Dust shutters for module KS-TC Plus and KS-T Plus, Cat.6$_A$ (1 set = 10 pcs.)	yellow	1 set
418065	Dust shutters for module KS-TC Plus and KS-T Plus, Cat.6$_A$ (1 set = 10 pcs.)	blue	1 set
418066	Dust shutters for module KS-TC Plus and KS-T Plus, Cat.6$_A$ (1 set = 10 pcs.)	green	1 set
418067	Dust shutters for module KS-TC Plus and KS-T Plus, Cat.6$_A$ (1 set = 10 pcs.)	red	1 set

PATCH CORDS
RJ45, Cat.6$_A$/E$_A$, 500 MHz, shielded, wiring 1:1

with CU 7702 4P flex, Cat.7
suitable for 1GBase-T and 10GBase-T transmission

Copper patch cords, Cat.6$_A$/E$_A$ (4 x 2 x AWG26)
for structured premises cabling.
Applicable standards: EN 50173-1:2002, ISO/IEC 11801:2002/A2:2010.
Customized adjustments (bend limiting boot, termination, label) are available.

Length Datwyler patch cords, RJ45, Cat.6$_A$/E$_A$, shielded, wiring 1:1 (with CU 7702 4P flex, FRNC/LS0H[1), Cat.7)

	white	black	gey	green	yellow	red	blue	orange	violet
0,5 m	65390300DY	65380300DY	65350300DY	65355300DY	65360300DY	65365300DY	65370300DY	65375300DY	6538300DY
1,0 m	65390800DY	65380800DY	65350800DY	65355800DY	65360800DY	65365800DY	65370800DY	65375800DY	6538800DY
1,5 m	65390900DY	65380900DY	65350900DY	65355900DY	65360900DY	65365900DY	65370900DY	65375900DY	6538900DY
2,0 m	65391000DY	65381000DY	65351000DY	65356000DY	65361000DY	65366000DY	65371000DY	65376000DY	6539000DY
2,5 m	65391100DY	65381100DY	65351100DY	65356100DY	65361100DY	65366100DY	65371100DY	65376100DY	6539100DY
3,0 m	65391200DY	65381200DY	65351200DY	65356200DY	65361200DY	65366200DY	65371200DY	65376200DY	6539200DY
4,0 m	65391400DY	65381400DY	65351400DY	65356400DY	65361400DY	65366400DY	65371400DY	65376400DY	6539400DY
5,0 m	65391600DY	65381600DY	65351600DY	65356600DY	65361600DY	65366600DY	65371600DY	65376600DY	6539600DY
6,0 m	65391800DY	65381800DY	65351800DY	65356800DY	65361800DY	65366800DY	65371800DY	65376800DY	6539800DY
7,0 m	65392000DY	65382000DY	65352000DY	65357000DY	65362000DY	65367000DY	65372000DY	65377000DY	6540000DY
8,0 m	65392200DY		65352200DY	65357200DY	65362200DY	65367200DY	65372200DY	65377200DY	6540200DY
9,0 m	65392400DY	65382400DY	65352400DY	65357400DY	65362400DY	65367400DY	65372400DY	65377400DY	6540400DY
10,0 m	65392600DY	65382600DY	65352600DY	65357600DY	65362600DY	65367600DY	65372600DY	65377600DY	6540600DY
12,5 m	65392700DY	65382700DY	65352700DY	65357700DY	65362700DY	65367700DY	65372700DY	65377700DY	6540700DY
15,0 m	65392800DY		65352800DY	65357800DY	65362800DY	65367800DY	65372800DY	65377800DY	6540800DY
20,0 m	65393000DY	65383000DY	65353000DY	65358000DY	65363000DY	65368000DY	65373000DY	65378000DY	6541000DY

1) FRNC/LS0H = Flame Retardant Non Corrosive / Low Smoke Zero Halogen

COPPER SOLUTIONS - 10 Gbit/s
STP

PATCH PANELS

for RJ45 modules, Cat.6$_A$/E$_A$, shielded

KS 24x
Keystone patch panel,
unloaded, grey

KS 24x
Keystone patch panel,
unloaded, black

alternative: CSA 24/8 Cat.6$_A$
Compact Solution
with integrated RJ45 modules

KS 24x-a
Keystone patch panel,
angled, unloaded

KS 48x
Keystone patch panel,
unloaded, black

KS 48x-a
Keystone patch panel, angled,
unloaded, black
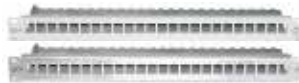
MGK 24x/16x
Keystone patch panel, unloaded,
stainless steel and grey

MS-K 24x
for MS-K modules,
unloaded, grey

MGK 48x
Keystone patch panel,
unloaded, grey

Article No.	Description	Colour (similar to)	PU
418019	Patch panel KS 24x, straight, 19"/1U, for 24x RJ45 Keystone module, FTP (without modules)	black, RAL 9005	1 pc.
418020	Patch panel KS 24x, straight, 19"/1U, for 24x RJ45 Keystone module, FTP (without modules)	grey, RAL 7035	1 pc.
417980	Patch panel CSA Plus 24/8 with 24x RJ45 jack Cat.6$_A$ (IEC)	grey, RAL 7035	1 pc.
4000099	Patch panel KS 24x-a, angled, 19"/1U, for 24x RJ45 Keystone module, FTP (without modules)	black, RAL 9005	1 pc.
400098	Top cover for patch panel KS 24x-a, angled, to seperate the warm and cold airflow	steel	1 pc.
418120	Patch panel KS 48x, straight, 19"/1U, for 48x KS-TC Plus 1/8 Keystone module (without modules)	black, RAL 9005	1 pc.
418099	Patch panel KS 48x-a, angled, 19"/1U for 48x KS-TC Plus 1/8 Keystone module (without modules)	black, RAL 9005	1 pc.
440041	Patch panel MS-K 24x, straight, 19" 1U, for 24x MS-K module (without modules)	grey, RAL 7035	1 pc.
440042	Patch panel MGK 24x, straight, 19"/1U, for 24x KS-T Plus or KS-TC Plus Keystone module (without modules)	stainless steel	1 pc.
440043	Patch panel MGK 24x, straight, 19"/1U, for 24x KS-T Plus or KS-TC Plus Keystone module (without modules)	grey, RAL 7035	1 pc.
440053	Patch panel MGK 16x, straight, 19"/1U, for 16x KS-T Plus or KS-TC Plus Keystone module (without modules)	grey, RAL 7035	1 pc.
440051	Patch panel MGK 48x, straight, 19"/1.5U, for 48x KS-T Plus or KS-TC Plus Keystone module (without modules)	grey, RAL 7035	1 pc.
1401609	LSA plus/IDC insertion tool		1 pc.

ACCESSORIES

Cable management panels

Blank plate

Blank covers for unused
Keystone openings

Article No.	Description	Colour	PU
195041	Horizontal cable management unit, 1U	black	1 pc.
195042	Horizontal cable management unit, 2U	black	1 pc.
195043	Horizontal cable management unit, 3U	black	1 pc.
195097	19" cable management panel, 1U, five 40 x 80 mm rings	black	1 pc.
195098	19" cable management panel, 2U, five 80 x 60 mm rings	black	1 pc.
195220	19" cable management panel, 1U, five 40 x 50 mm rings	black	1 pc.
195221	19" cable management panel, 2U, five 80 x 80 mm rings	black	1 pc.
195184	19" blank plate, tool-less, 1U	black, RAL 7035	1 pc.
195185	19" blank plate, tool-less, 2U	black, RAL 7035	1 pc.
195186	19" blank plate, tool-less, 3U	black, RAL 7035	1 pc.
418010	Blank covers for unused KS openings in patch panels	black	10 pcs.
418011	Blank covers for unused KS openings in patch panels	white	10 pcs.

For more accessories please visit our website

FACEPLATES for RJ45 modules

	Article No.	Description	Colour (similar to)	PU	
German standard					
1	185866	Faceplate for 1 module with Keystone snap-in fitting	white, RAL 9010	1 pc.	
2	185867	Faceplate for 2 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.	1. 1-port, angled 2. 2-port, angled 3. 3-port, angled
3	185869	Faceplate for 3 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.	Flush/duct mounted Mounting plate: 70 x 70 mm Central plate: 50 x 50 mm Cover frame: 80 x 80 mm
4	185861	Faceplate, straigth outlet, for 2x RJ45 Keystone module	white, RAL 9010	1 pc.	4. 2-port, with straight outlet Flush mounted Central plate: 50 x 50 mm Cover frame: 80 x 80 mm
5	18587200ZY	Faceplate for 2 modules with Keystone snap-in fitting compatible with all customary TAE 3-fold central plates	white, RAL 9010	1 pc.	5. 2-port, angled Flush/duct mounted Central plate: 50 x 50 mm Cover frame: 80 x 80 mm
6	18587200ZY	Mounting bracket for 2 modules with Keystone snap-in fitting compatible with all customary TAE 3-fold central plates		1 pc.	6. 2-port Flush/duct mounted and for floor box systems
French standard					
7	418030	Keystone, 1-port, 45 x 45 mm, for Module 45 system	bright white	1 pc.	7. Bezel, 1-port 8. Bezel, 2-port 9. Bezel, 1-port, slim
8	418032	Keystone, 2-port, 45 x 45 mm, for Module 45 system	bright white	1 pc.	10. Bezel, 2-port, angled
9	418031	Keystone, 1-port, slim, 45 x 22.5 mm, for Module 45 system	bright white	1 pc.	
10	418033	Keystone, 2-port, 45 x 45 mm, angled	bright white	1 pc.	Flush mounted Standard version: 45 x 45 mm Slim version: 45 x 22.5 mm
11	418029	Keystone, 1-port, 45 x 45 mm, angled	bright white	1 pc.	11. Bezel, 1-port, angled
	418034	French Standard Faceplate for 45 x 45 mm bezel	bright white	1 pc.	
British standard					
12	185862	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.	11. 1-port, angled 12. 2-port, angled
13	185863	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.	13. 1-port, with straight outlet 14. 2-port, with straight outlet
American / Italian standard (503 design)					
14	440101	503 faceplate for 2 modules with Keystone snap-in fitting	white	100 pcs.	14. 2-port faceplate
15	440102	503 faceplate for 3 modules with Keystone snap-in fitting	white	100 pcs.	18. Bticino Axolute
16	440105	Blank cover for 503 faceplate	white	100 pcs.	15. 3-port faceplate
17	440106	External wall box for 503 faceplate, depth 55 mm	white	100 pcs.	19. Bticino Living International
18	440111	RJ45 adapter for Bticino Axolute	silver	100 pcs.	16. Blank cover
19	440114	RJ45 adapter for Bticino Living International	black	100 pcs.	20. Bticino Living Light
20	440115	RJ45 adapter for Bticino Living Light	white	100 pcs.	17. External wall box
21	440120	RJ45 adapter for Bticino Matix	white	100 pcs.	21. Bticino Matix
22	440135	RJ45 adapter for Gewiss system	white	100 pcs.	22. for Gewiss system
23	440140	RJ45 adapter for Vimar Plana	white	100 pcs.	23. for Vimar Plana
Universal					
24	418035	Surface mount box for 2 Keystone modules	white, RAL 9010	1 pc.	24. Surface mount box
	418036	Surface mount box for 4 Keystone modules	white, RAL 9010	1 pc.	25. Surface mount box with dust shutters
25	418037	Surface mount box with dust shutters for 2 Keystone modules	white, RAL 9010	1 pc.	
	418038	Surface mount box with dust shutters for 4 Keystone modules	white, RAL 9010	1 pc.	for 2 modules: 68 x 65 x 30 mm for 4 modules: 118 x 85 x 30 mm
26	309234	Surface mount box for 4 Keystone modules, 85 x 43.63 x 110 mm	metal / white	1 pc.	26. Surface mount box for: 4 modules: 85 x 43.63 x 110 mm 6 modules: 125 x 43.63 x 110 mm 12 modules: 204.5 x 43.63 x 110 mm
	309235	Surface mount box for 6 Keystone modules, 125 x 43.63 x 110 mm	metal / white	1 pc.	
	309237	Surface mount box for 12 Keystone modules, 204.5 x 43.63 x 110 mm	metal / white	1 pc.	
27	309238	Adapter plate for DIN rail mounting (delivery without M4 screws)	silver	1 pc.	27. Adapter plate
28	309233	Mini adapter plate for DIN rail mounting (with M4 screw)	silver	1 pc.	28. Mini adapter plate

DATA CABLE - CATEGORY 6$_A$

U/UTP
(with cross)

Copper data cable, up to 500 MHz,
for structured premises cabling.
Applicable standards: EN 50173-1 and
EN 50288-11-1, ISO/IEC 11801.
Applicable up to 10GBase-T.

Article No.	Dimensions n x n x mm (AWG)	Sheath	Sheath Ø mm	Weight kg/km	Cu weight kg/km	Colour	PU	PoE
CU 692 4P, U/UTP, AWG23, Category 6$_A$ data cable, unshielded								PoE
19462600DL	4 x 2 x 0.57 (AWG23)	FRNC/LSOH [1]	7.9	60.0	21.64	orange	500 m drum	

The "D" in these article numbers stands for Euroclass D$_{ca}$. For higher fire performance requirements, Datwyler offers these cables also with Class C$_{ca}$ or even B2$_{ca}$ performance.
For the available Euroclasses please refer to the online data sheets on ITinfra.datwyler.com.

[1] FRNC/LS0H = Flame Retardant Non Corrosive/Low Smoke Zero Halogen

RJ45 MODULES

unshielded

PoE++

KU-TC Plus 1/8 Cat. 6$_A$ tool-less,
unshielded

Article No.	Description	Colour	PU
41807400ZF	RJ45 module KU-TC Plus Cat.6$_A$ toolless, unshielded	white	12 pcs.
41807500ZF	RJ45 module KU-TC Plus Cat.6$_A$ toolless, unshielded	black	12 pcs.
418062	Dust shutters for module KU-TC Plus Cat.6$_A$ (1 set = 10 pcs.)	white	1 set
418063	Dust shutters for moduler KU-TC Plus Cat.6$_A$ (1 set = 10 pcs.)	black	1 set
418064	Dust shutters for module KU-TC Plus Cat.6$_A$ (1 set = 10 pcs.)	yellow	1 set
418065	Dust shutters for module KU-TC Plus Cat.6$_A$ (1 set = 10 pcs.)	blue	1 set
418066	Dust shutters for module KU-TC Plus Cat.6$_A$ (1 set = 10 pcs.)	green	1 set
418067	Dust shutters for module KU-TC Plus Cat.6$_A$ (1 set = 10 pcs.)	red	1 set

PATCH CORDS

RJ45, Cat. 6_A/E_A, 500 MHz, unshielded, wiring 1:1

Length	Datwyler Patch Cord RJ45, Cat.6_A/E_A, unshielded, wiring 1:1 (FRNC/LS0H[1])
	grey
0.5 m	65547000ZY
1.0 m	65547100ZY
1.5 m	65547200ZY
2.0 m	65547300ZY
3.0 m	65547500ZY
5.0 m	65547700ZY
7.0 m	65547900ZY

[1] FRNC/LS0H = Flame Retardant Non Corrosive/Low Smoke Zero Halogen

All Patchcords are availlable up to 10m. Anti-snag boots also availlable in different colours.

PATCH PANELS

for RJ45 modules, Cat. 6$_A$, unshielded

Patch panel KU 24x-sg
staggered, unshielded

Article No.	Description	Colour (similar to)	PU
418027	Patch panel KU 24x-sg, 19"/1U , for 24x RJ45 Cat. 6$_A$ Keystone module UTP (delivery without modules)	grey, RAL 7035	1 pc.
418028	Patch panel KU 24x-sg, 19"/1U , for 24x RJ45 Cat. 6$_A$ Keystone module UTP (delivery without modules)	black, RAL 9005	1 pc.

ACCESSORIES

Cable management panels   Blank plate   Blank covers for unused Keystone openings

Article No.	Description	Colour	PU
195041	Horizontal cable management unit, 1U	black	1 pc.
195042	Horizontal cable management unit, 2U	black	1 pc.
195043	Horizontal cable management unit, 3U	black	1 pc.
195097	19" cable management panel, 1U, five 40 x 80 mm rings	black	1 pc.
195098	19" cable management panel, 2U, five 80 x 60 mm rings	black	1 pc.
195220	19" cable management panel, 1U, five 40 x 50 mm rings	black	1 pc.
195221	19" cable management panel, 2U, five 80 x 80 mm rings	black	1 pc.
195184	19" blank plate, tool-less, 1U	black, RAL 7035	1 pc.
195185	19" blank plate, tool-less, 2U	black, RAL 7035	1 pc.
195186	19" blank plate, tool-less, 3U	black, RAL 7035	1 pc.
418010	Blank covers for unused KS openings in patch panels	black	10 pcs.
418011	Blank covers for unused KS openings in patch panels	white	10 pcs.

For more accessories please visit our website

FACEPLATES for RJ45 modules

	Article No.	Description	Colour (similar to)	PU
1	185866	Faceplate for 1 module with Keystone snap-in fitting	white, RAL 9010	1 pc.
2	185867	Faceplate for 2 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.
3	185869	Faceplate for 3 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.
4	185861	Faceplate, straigh outlet, for 2x RJ45 Keystone module	white, RAL 9010	1 pc.
5	18587200ZY	Faceplate for 2 modules with Keystone snap-in fitting compatible with all customary TAE 3-fold central plates	white, RAL 9010	1 pc.
6	18587200ZY	Mounting bracket for 2 modules with Keystone snap-in fitting compatible with all customary TAE 3-fold central plates		1 pc.
7	418030	Keystone, 1-port, 45 x 45 mm, for Module 45 system	bright white	1 pc.
8	418032	Keystone, 2-port, 45 x 45 mm, for Module 45 system	bright white	1 pc.
9	418031	Keystone, 1-port, slim, 45 x 22.5 mm, for Module 45 system	bright white	1 pc.
10	418033	Keystone, 2-port, 45 x 45 mm, angled	bright white	1 pc.
11	418029	Keystone, 1-port, 45 x 45 mm, angled	bright white	1 pc.
	418034	French Standard Faceplate for 45 x 45 mm bezel	bright white	1 pc.
12	185862	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.
13	185863	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.
14	440101	503 faceplate for 2 modules with Keystone snap-in fitting	white	100 pcs.
15	440102	503 faceplate for 3 modules with Keystone snap-in fitting	white	100 pcs.
16	440105	Blank cover for 503 faceplate	white	100 pcs.
17	440106	External wall box for 503 faceplate, depth 55 mm	white	100 pcs.
18	440111	RJ45 adapter for Bticino Axolute	silver	100 pcs.
19	440114	RJ45 adapter for Bticino Living International	black	100 pcs.
20	440115	RJ45 adapter for Bticino Living Light	white	100 pcs.
21	440120	RJ45 adapter for Bticino Matix	white	100 pcs.
22	440135	RJ45 adapter for Gewiss system	white	100 pcs.
23	440140	RJ45 adapter for Vimar Plana	white	100 pcs.
24	418035	Surface mount box for 2 Keystone modules	white, RAL 9010	1 pc.
	418036	Surface mount box for 4 Keystone modules	white, RAL 9010	1 pc.
25	418037	Surface mount box with dust shutters for 2 Keystone modules	white, RAL 9010	1 pc.
	418038	Surface mount box with dust shutters for 4 Keystone modules	white, RAL 9010	1 pc.
26	309234	Surface mount box for 4 Keystone modules, 85 x 43.63 x 110 mm	metal / white	1 pc.
	309235	Surface mount box for 6 Keystone modules, 125 x 43.63 x 110 mm	metal / white	1 pc.
	309237	Surface mount box for 12 Keystone modules, 204.5 x 43.63 x 110 mm	metal / white	1 pc.
27	309238	Adapter plate for DIN rail mounting (delivery without M4 screws)	silver	1 pc.
28	309233	Mini adapter plate for DIN rail mounting (with M4 screw)	silver	1 pc.

DATA CABLE - CATEGORY 8

Copper data cables, up to 2000 MHz, 4 x 2 x AWG23,
for data centre and structured premises cabling.
Applicable standards: EN 50173-1:2002, ISO/IEC 11801:2002/A2:2010.
Application up to 40GBase-T, reserves for future applications.
Developed for 40GBase-T and a transmission distance of 30 m.
Optimized for broadband video signals, e.g. analogue and digital TV signals.
PoE+ and PoE++/4PPoE-ready (max. 100 W).
Particularly suitable for Class I and Class II networks.

S/FTP

CU 8203 4P, S/FTP, AWG 23, shielded

Article No.	Dimensions	Sheath	Sheath Ø	Weight	Cu weight	Fire load		Colour	PU	PoE
	n x n x mm (AWG)		mm	kg/km	kg/km	kWh/m	MJ/m			
19200900DK	4 x 2 x 0.59 (AWG23)	FRNC/LS0H[1]	8.1	67.3	33.2	0.18	0.65	orange	1000 m drum	4PPoE

DATA CABLE - 25 GBIT/S

Copper data cable, up to 2000 MHz, 4 x 2 x AWG22,
for data centre and structured premises cabling.
Applicable standards: EN 50173-1:2002, ISO/IEC 11801:2002/A2:2010.
Application up to 25GBase-T, reserves for future applications.
Developed for 25GBase-T and a transmission distance of 50 m.
Optimized for broadband video signals, e.g. analogue and digital TV signals.
PoE+ and PoE++/4PPoE-ready (max. 100 W).

S/FTP

CU 7725 4P, S/FTP, AWG22, shielded, 25GBase-T

Article No.	Dimensions	Sheath	Sheath Ø	Weight	Cu weight	Fire load		Colour	PU	PoE
	n x n x mm (AWG)		mm	kg/km	kg/km	kWh/m	MJ/m			
19434900DK	4 x 2 x 0.62 (AWG22)	FRNC/LS0H	7.6	62	34.9	0.18	0.64 MJ/m	orange	1000 m drum	4PPoE
19435000DL	2 x (4 x 2 x 0.62 (AWG22))	FRNC/LS0H	7.6 x 16.2	125	69.8	0.36	2.18 MJ/m	orange	500 m drum	4PPoE

The "D" in these article numbers stands for Euroclass D_{ca}. For higher fire performance requirements, Datwyler offers these cables also with Class C_{ca} or even $B2_{ca}$ performance.
For the available Euroclasses please refer to the online data sheets on ITinfra.datwyler.com..
[1] FRNC/LS0H = Flame Retardant Non Corrosive/Low Smoke Zero Halogen

MODULES

KS-T8 Class I, tool-less , shielded

RJ45 Keystone module.
Developed for 25/40GBase-T.

KS-T8 Class I, toolless

Article No.	Description	Colour	PU
440071	RJ45 module KS-T8 Class I, tool-less, shielded, with dust shutter (grey)	metal	12 pcs.

PS-GG45 and PS-TERA, Cat.7$_A$, shielded

Speziell für Anwendungen über 10GBase-T hinaus entwickelt.
PS-GG45: das „Two-in-One"-Modul hat 12 Kontakte, die in zwei verschiedenen
Übertragungsmodi genutzt werden können: Standard = RJ45 und High-Speed = GG45.
PS-TERA™: für PS-TERA-Patchkabel.

PS-GG45 7$_A$, Cat. 7$_A$ PS-TERA 4P, Cat. 7$_A$

Article No.	Description	Colour	PU
400102	Module PS-GG45 7$_A$, 1000 MHz, 4P, Two-in-One, shielded	metal	10 pcs.
400103	Module PS-GG45 7$_A$, 1000 MHz, 4P, Two-in-One, shielded, for stranded wires	metal	10 pcs.
1408502	Module PS-TERA 4P, Cat.7$_A$/F$_A$, 1000 MHz, shielded	black	1 pc.

PATCH CORDS

RJ45, 2000 MHz,
shielded, wiring 1:1

with CU 8206 4P flex, Cat. 8
suitable for 25GBase-T and 40GBase-T transmission

Article No.	Patch cord	Cable	Cable colour	Wiring
available lengths on request	RJ45 patch cord, 2000 MHz	FRNC/LS0H	grey	1:1

GG45™ Connecting System
Measurement / Patch cord GG45 7$_A$, 1000 MHz, 4P, shielded
Adapter patch cord PS-GG45 / RJ45, 4P, shielded

The measurement cords PS-GG45 7$_A$, 1000 MHz, 4P, are primarily needed for acceptance measurements.
The PS-GG45 plugs are not backward compatible with RJ45 jacks. The combination of a high-performance PS-GG45 cabling system with RJ45 active devices can only be achieved with adapter patch cords (PS-GG45 to RJ45).

Measurement / patch cord   Adapter patch cord

Article No.	Length m	Description	Plug 1	Plug 2	Cable	Cable colour	Wiring
400120	2.0	Measurement/patch cord 4P, 1000 MHz	PS-GG45 7$_A$	PS-GG45 7$_A$	FRNC/LS0H	orange	1:1
400121	1.0	Adapter patch cord 4P	PS-GG45 7$_A$	RJ45	FRNC/LS0H	orange	1:1
400122	2.0	Adapter patch cord 4P	PS-GG45 7$_A$	RJ45	FRNC/LS0H	orange	1:1
400123	3.0	Adapter patch cord 4P	PS-GG45 7$_A$	RJ45	FRNC/LS0H	orange	1:1
400125	5.0	Adapter patch cord 4P	PS-GG45 7$_A$	RJ45	FRNC/LS0H	orange	1:1

PS-TERA 4P/2P to RJ45
with flex cable CU 7702 flex

Recommended especially for multimedia cabling.
Cable type: CU 7702 flex 4P (PiMF), FRNC/LS0H, up to 1000 MHz, shielded.
Applicable standards: ISO/IEC 11801 2nd Ed. Amd.2 EN 50173: 2007.
For Class F$_A$/ Cat. 7$_A$ both ends of the patchcord are wired up with a PS-TERA 4P plug.

Article No.	Length m	Boot colour PS-TERA	Boot colour RJ45	Description	Adaptation	Cable	Cable colour	Pin connection
654058	1.0	black	black	Patch cord	PS-TERA 4P to RJ45	CU 7702 4P flex FRNC/LS0H	grey	1:1
654060	2.0	black	black	Patch cord	PS-TERA 4P to RJ45	CU 7702 4P flex FRNC/LS0H	grey	1:1
654062	3.0	black	black	Patch cord	PS-TERA 4P to RJ45	CU 7702 4P flex FRNC/LS0H	grey	1:1
654066	5.0	black	black	Patch cord	PS-TERA 4P to RJ45	CU 7702 4P flex FRNC/LS0H	grey	1:1
654158	1.0	yellow	yellow	Patch cord	PS-TERA 2P to RJ45	CU 2P flex Multimedia FRNC/LS0H	grey	100BT (A)
654160	2.0	yellow	yellow	Patch cord	PS-TERA 2P to RJ45	CU 2P flex Multimedia FRNC/LS0H	grey	100BT (A)
654162	3.0	yellow	yellow	Patch cord	PS-TERA 2P to RJ45	CU 2P flex Multimedia FRNC/LS0H	grey	100BT (A)
654166	5.0	yellow	yellow	Patch cord	PS-TERA 2P to RJ45	CU 2P flex Multimedia FRNC/LS0H	grey	100BT (A)
654208	1.0	red	red	Patch cord	PS-TERA 2P to RJ45	CU 2P flex Multimedia FRNC/LS0H	grey	100BT (B) uplink
654210	2.0	red	red	Patch cord	PS-TERA 2P to RJ45	CU 2P flex Multimedia FRNC/LS0H	grey	100BT (B) uplink
654212	3.0	red	red	Patch cord	PS-TERA 2P to RJ45	CU 2P flex Multimedia FRNC/LS0H	grey	100BT (B) uplink
654216	5.0	red	red	Patch cord	PS-TERA 2P to RJ45	CU 2P flex Multimedia FRNC/LS0H	grey	100BT (B) uplink

Please note: customised patch cords (e.g. length, type) available on request

PATCH PANELS

for RJ45 module KS-T8 Class I
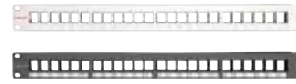
KS 24x
Keystone patch panel, unloaded

KS 24x-a, angled
Keystone patch panel, unloaded

KS 48x
Keystone patch panel,
unloaded, black

KS 48x-a, angled
Keystone patch panel,
unloaded, black

MGK 24x
Keystone patch panel,
unloaded, stainless steel

MGK 24x/16x,
Keystone patch panel,
unloaded, grey

Article No.	Description	Colour (similar to)	PU
418019	Patch panel KS 24x, straight, 19"/1U, for 24x RJ45 Keystone module, FTP (without modules)	black, RAL 9005	1 pc.
418020	Patch panel KS 24x, straight, 19"/1U, for 24x RJ45 Keystone module, FTP (without modules)	grey, RAL 7035	1 pc.
4000099	Patch panel KS 24x-a angled, 19"/1U, for 24x RJ45 Keystone module, FTP (without modules)	black, RAL 9005	1 pc.
418120	Patchpanel KS 48x, straight, 19"/1U, for 48x RJ45 Keystone module, FTP (without modules))	black, RAL 9005	1 pc.
418099	Patchpanel KS 48x-a, angled, 19"/1U for 48x RJ45 Keystone module, FTP (without modules)	black, RAL 9005	1 pc.
440042	Patchpanel MGK 24x, straight, 19"/1U, for 24x RJ45 Keystone module, FTP (without modules)	stainless steel	1 pc.
440043	Patchpanel MGK 24x, straight, 19"/1U, for 24x RJ45 Keystone module, FTP (without modules)	grey, RAL 7035	1 pc.

for PS-GG45 7$_A$ and PS-TERA 4P modules

MPS 24x for PS-TERA 4P

MGK 24x for PS-GG45

MGK 48x for PS-GG45 7$_A$

Article No.	Description	Colour/Material	PU
185840	Patch panel MPS 24x, 19"/1U, for 24x PS-TERA 4P modules (without modules)	grey, RAL 7035	1 pc.
185841	Patch panel MPS 24x, 19"/1U, for 24x PS-TERA 4P modules (without modules)	stainless steel, blank	1 pc.
440042	Patch panel MGK 24x, 19"/1U, for 24x RJ45 Keystone modules, FTP (without modules) especially for PS-GG45 7$_A$ modules	stainless steel, blank	1 pc.
440043	Patch panel MGK 24x, 19"/1U, for 24x RJ45 Keystone modules, FTP (without modules) especially for PS-GG45 7$_A$ modules	grey, RAL 7035	1 pc.
440051	Patch panel MGK 48x 19"/1,5U, for 48x RJ45 Keystone modules, FTP (without modules) especially for PS-GG45 7$_A$ modules	grey, RAL7035	1 pc.

ACCESSORIES

Cable management panels

Blank plate

Blank covers for unused
Keystone openings

Article No.	Description	Colour (similar to)	PU
195041	Horizontal cable management unit, 1U	black	1 pc.
195042	Horizontal cable management unit, 2U	black	1 pc.
195043	Horizontal cable management unit, 3U	black	1 pc.
195097	19" cable management panel, 1U, five 40 x 80 mm rings	black	1 pc.
195098	19" cable management panel, 2U, five 80 x 60 mm rings	black	1 pc.
195220	19" cable management panel, 1U, five 40 x 50 mm rings	black	1 pc.
195221	19" cable management panel, 2U, five 80 x 80 mm rings	black	1 pc.
195184	19" blank plate, tool-less, 1U	black, RAL 7035	1 pc.
195185	19" blank plate, tool-less, 2U	black, RAL 7035	1 pc.
195186	19" blank plate, tool-less, 3U	black, RAL 7035	1 pc.
418010	Blank covers for unused KS openings in patch panels	black	10 pcs.
418011	Blank covers for unused KS openings in patch panels	white	10 pcs.
400105	Termination tool for PS-GG45	red	1 pc.
1409210	PS-TERA tool for easy cable preparation	yellow	1 pc.
1412330	Parallel pliers for termination of modules	blue	1 pc.

For more accessories please visit our website

FACEPLATES for RJ45 modules

	Article No.	Description	Colour (similar to)	PU
German standard				
1	185866	Faceplate for 1 module with Keystone snap-in fitting	white, RAL 9010	1 pc.
2	185867	Faceplate for 2 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.
3	185869	Faceplate for 3 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.
4	185861	Faceplate, straigth outlet, for 2x RJ45 Keystone module	white, RAL 9010	1 pc.
French standard				
5	418030	Keystone, 1-port, 45 x 45 mm, for Module 45 system	bright white	1 pc.
6	418032	Keystone, 2-port, 45 x 45 mm, for Module 45 system	bright white	1 pc.
7	418031	Keystone, 1-port, slim, 45 x 22.5 mm, for Module 45 system	bright white	1 pc.
8	418033	Keystone, 2-port, 45 x 45 mm, angled	bright white	1 pc.
9	418029	Keystone, 1-port, 45 x 45 mm, angled	bright white	1 pc.
	418034	French Standard Faceplate for 45 x 45 mm bezel	bright white	1 pc.
British standard				
9	185862	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.
10	185863	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.
American / Italian standard (503 design)				
13	440101	503 faceplate for 2 modules with Keystone snap-in fitting	white	100 pcs.
14	440102	503 faceplate for 3 modules with Keystone snap-in fitting	white	100 pcs.
15	440105	Blank cover for 503 faceplate	white	100 pcs.
16	440106	External wall box for 503 faceplate, depth 55 mm	white	100 pcs.
17	440111	RJ45 adapter for Bticino Axolute	silver	100 pcs.
18	440114	RJ45 adapter for Bticino Living International	black	100 pcs.
19	440115	RJ45 adapter for Bticino Living Light	white	100 pcs.
20	440120	RJ45 adapter for Bticino Matix	white	100 pcs.
21	440135	RJ45 adapter for Gewiss system	white	100 pcs.
22	440140	RJ45 adapter for Vimar Plana	white	100 pcs.
Universal				
23	418035	Surface mount box for 2 Keystone modules	white, RAL 9010	1 pc.
	418036	Surface mount box for 4 Keystone modules	white, RAL 9010	1 pc.
24	418037	Surface mount box with dust shutters for 2 Keystone modules	white, RAL 9010	1 pc.
	418038	Surface mount box with dust shutters for 4 Keystone modules	white, RAL 9010	1 pc.
25	309234	Surface mount box for 4 Keystone modules, 85 x 43,63 x 110 mm	metal / white	1 pc.
	309235	Surface mount box for 6 Keystone modules, 125 x 43,63 x 110 mm	metal / white	1 pc.
	309237	Surface mount box for 12 Keystone modules, 204,5 x 43,63 x 110 mm	metal / white	1 pc.
26	309238	Adapter plate for DIN rail mounting (delivery without M4 screws)	silver	1 pc.
27	309233	Mini adapter plate for DIN rail mounting (with M4 screw)	silver	1 pc.

1. 1-port, angled
2. 2-port, angled
3. 3-port, angled

Flush/duct mounted
Mounting plate: 70 x 70 mm
Central plate: 50 x 50 mm
Cover frame: 80 x 80 mm

4. 2-port, with straight outlet

Flush mounted
Central plate: 50 x 50 mm
Cover frame: 80 x 80 mm

5. Bezel, 1-port
6. Bezel, 2-port
7. Bezel, 1-port, slim

8. Bezel, 2-port, angled
9. Bezel, 1-port, angled

Flush mounted
Standard version: 45 x 45 mm
Slim version: 45 x 22.5 mm

9. 1-port, angled
10. 2-port, angled

Flush/duct mounted
Cover frame: 86 x 86 mm

13. 2-port faceplate
14. 3-port faceplate
15. Blank cover
16. External wall box

17. Bticino Axolute
18. Bticino Living International
19. Bticino Living Light
20. Bticino Matix
21. for Gewiss system
22. for Vimar Plana

23. Surface mount box
24. Surface mount box with dust shutters

for 2 modules: 68 x 65 x 30 mm
for 4 modules: 118 x 85 x 30 mm

25. Surface mount box for
4 modules: 85 x 43,63 x 110 mm
6 modules: 125 x 43,63 x 110 mm
12 modules: 204,5 x 43,63 x 110 mm

26. Adapter plate
27. Mini adapter plate

for PS-TERA modules

	Article No.	Description	Colour (similar to)	PU
28	185763	Flush faceplate, angled outlet, for up to 2x PS/MS module, with cover frame (without modules)	white, RAL 9010	1 pc.
29	185762	Wall mounted outlet Edizio 56 mm, angled, for up to 2x PS/MS module (without modules)	white, RAL 9010	1 pc.
30	1408505	Faceplate for 2x PS-TERA module (without cover frame and modules)	white, RAL 9010	1 pc.
	1400830	Cover frame 80 x 80 for faceplate article no. 1408505	white, RAL 9010	1 pc.

28. Faceplate 2x (flush mounted) 88 x 88 mm Swiss standard

29. Faceplate 2x (surface mounted) 88 x 88x67 mm Swiss standard

30. Faceplate angled 2x (flush duct mounted) 80 x 80 mm German standard

DATA CABLE - CATEGORY 6

Copper data cable, up to 300 MHz,
for structured premises cabling.
Applicable standards: EN 50173-1:2002,
ISO/IEC 11801:2002/A2:2010.
Applicable up to 1000Base-T.

U/UTP
(with cross)

Article No.	Dimensions n x n x mm (AWG)	Sheath	Sheath Ø mm	Weight kg/km	Cu weight kg/km	Fire load KWh/m MJ/m		Colour	PU	PoE
CU 662 4P, U/UTP, AWG24 (with cross), unshielded										
24013910ES	4 x 2 x 0.55 (AWG24)	FR/PVC [1]	6.0	49	19.4	0.20	0.72	grey	305 m reel in box	
24014100ES	4 x 2 x 0.55 (AWG24)	FRNC/LSOH [2]	6.0	49	19.4	0.17	0.60	orange	305m PullQuick Box	PoE
24014100EP	4 x 2 x 0.55 (AWG24)	FRNC/LSOH [2]	6.0	49	19.4	0.17	0.60	orange	305 m reel in box	

The "E" in these article numbers stands for Euroclass E_{ca}. For higher fire performance requirements, Datwyler offers these cables also with Class D_{ca}, C_{ca} or even B2$_{ca}$ performance.
For the available Euroclasses please refer to the online data sheets on ITinfra.datwyler.com.
[1] FRNC/LS0H = Flame Retardant Non Corrosive/Low Smoke Zero Halogen

RJ45 MODULES

unshielded

KU-T 1/8 Cat.6, unshielded,
tool-less

Article No.	Description	Colour	PU
41807000ZF	RJ45 module KU-T 1/8 Cat.6, unshielded, tool-less	white	12 pcs.
41807100ZF	RJ45 module KU-T 1/8 Cat.6, unshielded, tool-less	black	12 pcs.

PATCH CORDS

RJ45, Cat. 6, 250 MHz, unshielded, 4P, wiring 1:1

Patch cords, U/UTP, with FR/PVC[1)]

or FRNC/LS0H[2)] sheath

Length				FRNC/LS0H[2)]			
	grey	green	yellow	red	blue	white	black
1.0 m	309321	65185800ZY	65170800ZY	65180800ZY	65175800ZY	65165800ZY	65160800ZY
1.5 m	309322	65186000ZY	65171000ZY	65181000ZY	65176000ZY	65166000ZY	65161000ZY
2.0 m	309323	65186100ZY	65171100ZY	65181100ZY	65176100ZY	65166100ZY	65161100ZY
3.0 m	309325	65186200ZY	65171200ZY	65181200ZY	65176200ZY	65166200ZY	65161200ZY
4.0 m	309326	65186400ZY	65171400ZY	65181400ZY	65176400ZY	65166400ZY	65161400ZY
5.0 m	309327	65186600ZY	65171600ZY	65181600ZY	65176600ZY	65166600ZY	65161600ZY
7.0 m	309329	65187000ZY	65172000ZY	65182000ZY	65177000ZY	65167000ZY	65162000ZY
10.0 m	309331	65187600ZY	65172600ZY	65182600ZY	65177600ZY	65167600ZY	65162600ZY

[1)] FRNC/LS0H = Flame Retardant Non Corrosive/Low Smoke Zero Halogen

COPPER SOLUTIONS - 1 Gbit/s
UTP

PATCH PANELS

for RJ45 modules, Cat. 6, unshielded
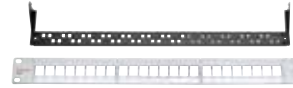
KU 24x
Keystone patch panel, unloaded

CUP 24/8 Cat.6, with integrated
RJ45 modules, unshielded

IDC termination tool 110

Article No.	Description	Colour (similar to)	PU
418021	Patch panel KU 24x, 19"/1U, for 24x RJ45 Keystone module UTP (without modules)	grey, RAL 7035	1 pc.
418022	Patch panel KU 24x, 19"/1U, for 24x RJ45 Keystone module UTP (without modules)	black, RAL 9005	1 pc.
418005	Patch panel CUP 24/8, Cat. 6, unshielded, with 24x RJ45 module	black, RAL 9005	1 pc

ACCESSORIES

Cable management panels

Blank plate

Blank covers for unused
Keystone openings

Article No.	Description	Colour (similar to)	PU
195041	Horizontal cable management unit, 1U	black	1 pc.
195042	Horizontal cable management unit, 2U	black	1 pc.
195043	Horizontal cable management unit, 3U	black	1 pc.
195097	19" cable management panel, 1U, five 40 x 80 mm rings	black	1 pc.
195098	19" cable management panel, 2U, five 80 x 60 mm rings	black	1 pc.
195220	19" cable management panel, 1U, five 40 x 50 mm rings	black	1 pc.
195221	19" cable management panel, 2U, five 80 x 80 mm rings	black	1 pc.
195184	19" blank plate, tool-less, 1U	black, RAL 7035	1 pc.
195185	19" blank plate, tool-less, 2U	black, RAL 7035	1 pc.
195186	19" blank plate, tool-less, 3U	black, RAL 7035	1 pc.
418010	Blank covers for unused KS openings in patch panels	black	10 pcs.
418011	Blank covers for unused KS openings in patch panels	white	10 pcs.

For more accessories please visit our website

FACEPLATES for RJ45 modules

	Article No.	Description	Colour (similar to)	PU
1	185866	Faceplate for 1 module with Keystone snap-in fitting	white, RAL 9010	1 pc.
2	185867	Faceplate for 2 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.
3	185869	Faceplate for 3 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.
4	185861	Faceplate, straigth outlet, for 2x RJ45 Keystone module	white, RAL 9010	1 pc.
5	18587200ZY	Faceplate for 2 modules with Keystone snap-in fitting compatible with all customary TAE 3-fold central plates design	white, RAL 9010	1 pc.
6	418030	Keystone, 1-port, 45 x 45 mm, for Module 45 system	bright white	1 pc.
7	418032	Keystone, 2-port, 45 x 45 mm, for Module 45 system	bright white	1 pc.
8	418031	Keystone, 1-port, slim, 45 x 22.5 mm, for Module 45 system	bright white	1 pc.
9	418033	Keystone, 2-port, 45 x 45 mm, angled	bright white	1 pc.
10	418029	Keystone, 1-port, 45 x 45 mm, angled	bright white	1 pc.
	418034	French Standard Faceplate for 45 x 45 mm bezel	bright white	1 pc.
11	185862	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.
12	185863	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.
15	440101	503 faceplate for 2 modules with Keystone snap-in fitting	white	100 pcs.
16	440102	503 faceplate for 3 modules with Keystone snap-in fitting	white	100 pcs.
17	440105	Blank cover for 503 faceplate	white	100 pcs.
18	440106	External wall box for 503 faceplate, depth 55 mm	white	100 pcs.
19	440111	RJ45 adapter for Bticino Axolute	silver	100 pcs.
20	440114	RJ45 adapter for Bticino Living International	black	100 pcs.
21	440115	RJ45 adapter for Bticino Living Light	white	100 pcs.
22	440120	RJ45 adapter for Bticino Matix	white	100 pcs.
23	440135	RJ45 adapter for Gewiss system	white	100 pcs.
24	440140	RJ45 adapter for Vimar Plana	white	100 pcs.
25	418037	Surface mount box with dust shutters for 2 Keystone modules	white, RAL 9010	1 pc.
	418038	Surface mount box with dust shutters for 4 Keystone modules	white, RAL 9010	1 pc.
26	309234	Surface mount box for 4 Keystone modules, 85 x 43,63 x 110 mm	metal / white	1 pc.
	309235	Surface mount box for 6 Keystone modules, 125 x 43,63 x 110 mm	metal / white	1 pc.
	309237	Surface mount box for 12 Keystone modules, 204,5 x 43,63 x 110 mm	metal / white	1 pc.
27	309238	Adapter plate for DIN rail mounting (delivery without M4 screws)	silver	1 pc.
28	309233	Mini adapter plate for DIN rail mounting (with M4 screw)	silver	1 pc.

German standard / French standard / British standard / American / Italian standard (503 design)

Subject to technical modification.

COPPER TRUNKS

Length determination & design
of pre-assembled copper trunks

Divider

Label for single cable

Connector (module)

Type of assembly (example): legs graded in length
(as required / depending on application)
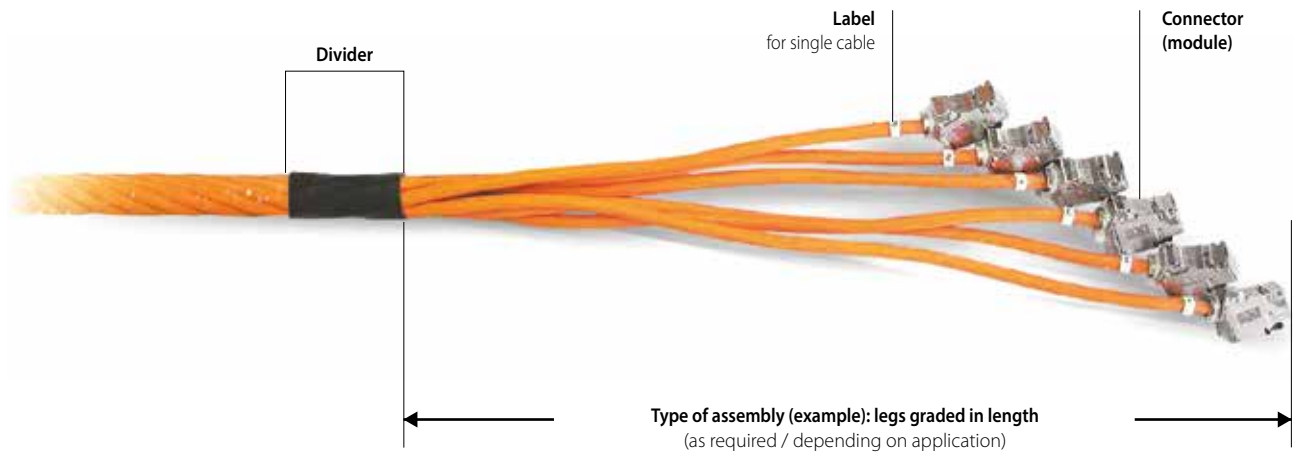
Dimensions

Flexible cable 12-fold
CU 7702 12x4P flex

22.2 mm

Single cable
CU 7702 4P flex

PP foil

5.8
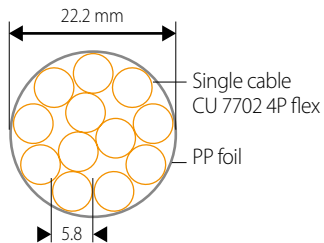
Solid cable 6-fold
CU 7002 6x4P

21.2 mm

Single cable
CU 7002 4P

PP foil
PP yarn

7.4
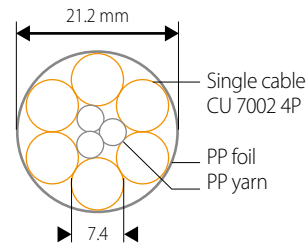
Flexible cable 6-fold
CU 7702 6x4P flex

17.6 mm

Single cable
CU 7702 4P flex

PP foil
PP yarn

5.8

Rack A   Rack B

fixing point

A   B

L
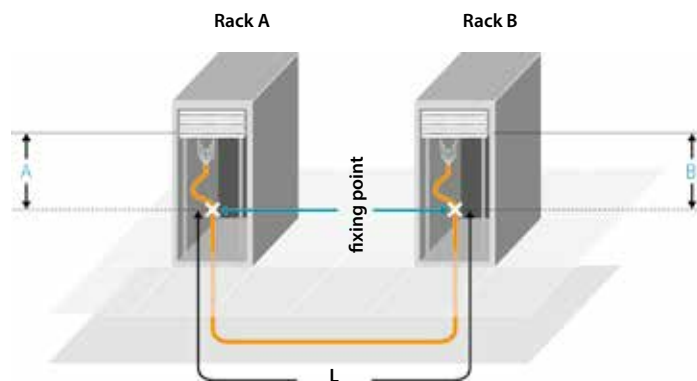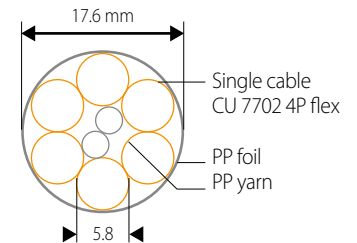
Length definition

The following criteria are decisive for all pre-assembled Datwyler copper trunks:

L = Length between dividers / fixing points
(= purchase order length)
A = Type of assembly side A:
as required / depending on application, legs graded in length or of equal length
B = Type of assembly side B:
as required / depending on application, legs graded in length or of equal length

Connectors & cable types

Pre-assembled trunk cables are fabricated using high-performance cable products which are supplied in combination with different performance levels of modules and connectors.

The products are delivered in the lengths requested by the customer and have already been tested and certified in accordance with the latest standards.

This provides installers and operators, particularly in data centers, with products which make it possible to install even extensive copper-based systems to the highest quality in a very short time.

Tailor-made pre-terminated copper trunk assemblies, in the requested lengths, with customized imprints on the single cables, with the requested modules or plugs, 100% pre-tested, with measurement reports!

Modules and plugs for trunks

	type	application	construction	compatible with cable
Category 6$_A$ modules / Class E$_A$				
	RJ45 module KS-TC Plus 1/8 Cat. 6$_A$ (IEC)	up to 10GBase-T	shielded	flex / solid
	RJ45 module KS-T Plus 1/8 Cat. 6$_A$ (IEC)	up to 10GBase-T	shielded	flex / solid
Category 6/6$_A$ plugs / Class E$_A$				
	RJ45 plug 4P Cat. 6$_A$	up to 10GBase-T	shielded	flex
	RJ45 plug 4P Cat. 6	up to 10GBase-T	shielded	flex / solid

Cable types for trunks

	type	max. Class	application	Ø [mm]	max. length [m]
Flexible tube/braid cables					
3-fold	CU 7702 3x4P flex	F	min. 10GBase-T	12	60
6-fold	CU 7702 6x4P flex	F	min. 10GBase-T	20	60
8-fold	CU 7702 8x4P flex	F	min. 10GBase-T	22	60
12-fold	CU 7702 12x4P flex	F	min. 10GBase-T	27	60
16-fold	CU 7702 16x4P flex	F	min. 10GBase-T	32	60

COPPER SOLUTIONS
Consolidation Point and Floor box inserts

CONSOLIDATION POINT BOXES

CP box for one 24-port front plate
W x H x D: 480 x 55 x 190 mm (with lock: H = 57 mm)

CP box for one 12-port front plate
W x H x D: 260 x 55 x 190 mm (with lock: H = 57 mm)

CP box for one 6-port front plate
W x H x D: 156 x 55 x 190 mm (with lock: H = 57 mm)

Application
For the termination of data cables in a Consolidation Point (CP), typically installed in raised floors.

Suitable for the following Datwyler Keystone modules:
- PS-GG45 7_A 4P shielded
- RJ45 module KS-T Plus 1/8 Cat. 6_A shielded
- RJ45 module KS-TC Plus 1/8 Cat. 6_A shielded
- RJ45 module MS-K Plus 1/8 Cat. 6_A shielded
- RJ45 module MS-C6_A 1/8 Cat. 6_A 180°-K shielded
- RJ45 module KS-T 1/8 Cat. 6/E$_A$ shielded
- RJ45 module KS-TS 1/8 Cat. 6/E$_A$ shielded
- RJ45 module KU-T 1/8 Cat. 6 / Cat. 5e unshielded
- RJ45 module KU-TC 1/8 Cat. 6 / Cat. 5e unshielded

Article No.	Description	Material	PU
417489	Consolidation Point box, 24 ports (delivery without front plate)	steel sheet, galvanized	1 pc.
417490	Front plate FP 24x MGK for 24-port CP box	steel sheet, galvanized	1 pc
417483	Consolidation Point box, 12-port (delivery without front plate)	steel sheet, galvanized	1 pc.
417484	Front plate FP 12x MGK for CP box 12-port	steel sheet, galvanized	1 pc.
417487	Consolidation Point box 6-port (delivery without front plate)	steel sheet, galvanized	1 pc.
417488	Front plate FP 6x MGK for CP box 6-port	steel sheet, galvanized	1 pc.
417485	Lock for Consolidation Point box, keyed alike	steel sheet, galvanized	1 pc.

FLOOR BOX INSERTS

Floor box inserts Economy

for Keystone modules MS-K, GG45, KS-T, KU-T

Description
Floor box inserts Economy for Keystone modules.
Modules can be clipped into the cut-outs directly
(without additional adapter plates).
Cut-out (port) dimensions: 14.8 x 19.3 mm.

Suitable for the following Datwyler Keystone modules:
- PS-GG45 7_A 4P shielded
- RJ45 module KS-T Plus 1/8 Cat. 6_A shielded
- RJ45 module KS-TC Plus 1/8 Cat. 6_A shielded
- RJ45 module MS-K Plus 1/8 Cat. 6_A shielded
- RJ45 module MS-C6_A 1/8 Cat. 6_A 180°-K shielded
- RJ45 module KS-T 1/8 Cat. 6/E$_A$ shielded
- RJ45 module KS-TS 1/8 Cat. 6/E$_A$ shielded
- RJ45 module KU-T 1/8 Cat. 6 / Cat. 5e unshielded
- RJ45 module KU-TC 1/8 Cat. 6 / Cat. 5e unshielded

Article No.	Description	PU
418400	Floor box insert Economy for OBO-Ackermann GES6, for 2x 3 Keystone modules	1 pc.
418401	Floor box insert Economy for OBO-Ackermann GES9, for 3x 3 Keystone modules	1 pc.
418402	Floor box insert Economy for Electraplan, for 2x 3 Keystone modules	1 pc.
418403	Floor box insert Economy for Electraplan, for 3x 3 Keystone modules	1 pc.
418404	Floor box insert Economy for PUK, for 3x 3 Keystone modules	1 pc.
1409559	Blank plate for unused Keystone cut-out (port)	1 pc.

ACCESSORIES

AP Surface Mount Box

for modules with Keystone fitting

Fig. 3

Fig. 8

Fig. 5

Fig. 2   Fig. 1

Fig. 4   Fig. 7

Fig. 6

Article No.	Fig.	Description	Colour/material	PU
309234	1	AP Surface Mount Box for 4x Keystone module (delivery without modules)	metal / white	1 pc.
309235	2	AP Surface Mount Box for 6x Keystone module (delivery without modules)	metal / white	1 pc.
309237	3	AP Surface Mount Box for 12x Keystone module (delivery without modules)	metal / white	1 pc.
418035	4	AP Surface Mount Box for 2x Keystone module (delivery without modules)	white	1 pc.
418036	5	AP Surface Mount Box for 4x Keystone module (delivery without modules)	white	1 pc.
418037	6	AP Surface Mount Box or 2x Keystone module with dust shutters (delivery without modules)	white	1 pc.
418038	7	AP Surface Mount Box or 4x Keystone module with dust shutters (delivery without modules)	white	1 pc.
418039	8	AP Surface Mount Box or 6x Keystone module with dust shutters (delivery without modules)	white	1 pc.

RJ45 Feed-through coupler

Application
Suitable for setting up
Consolidation Points
and Cross-Connect wirings.
For the transmission of all digital
and analogue applications
up to Cat.6$_A$/Class E$_A$.
Angled or straight.

MS-KS, 90° angled:
MS port (left side),
Keystone port (right side)

MS-KS, 180° straight:
MS port (left side),
Keystone port (right side)

Keystone, 180° straight:
Keystone ports on both sides

Field assembly plugs

IP20, Cat.6$_A$, angled or straight,
for tool-less field assembly

RJ45 plug IP20, Cat.6$_A$,
shielded

RJ45 plug IP20, Cat.6$_A$,
shielded, 90°, angled

RJ45 plug IP20, Cat.6$_A$,
shielded, 180°, straight

Blank covers

Anti-dust cover
for RJ45 plug

Anti-dust plug
for RJ45 modules

Blank cover
for Keystone cut outs

Article No.	Description	Colour/material	PU
417445	RJ45 coupler, MS-KS, Class E$_A$, shielded, 90° angled	metal	1 pc.
417446	RJ45 coupler, MS-KS, Class E$_A$, shielded, 180° straight	metal	1 pc.
418056	RJ45 coupler, Keystone, Class E$_A$, shielded, 180° straight	metal	1 pc.
418077	RJ45 plug, IP20, Cat.6$_A$, shielded, for field assembly	metal	1 pc.
418078	RJ45 plug, IP20, Cat.6$_A$, shielded, 90° angled, for field assembly	metal	1 pc.
417523	RJ45 plug, IP20, Cat.6$_A$, shielded, 180° straight, for field assembly	metal	1 pc.
400305	Anti-dust cover for RJ45 plug	black	1 pc.
1401628	Anti-dust plug for RJ45 modules	black	100 pcs.
418010	Blank cover for Keystone openings	black	10 pcs.
418011	Blank cover for Keystone openings	white	10 pcs.

ACCESSORIES

Defined Disconnect CP-Link
Adapter cable, IP20

Application
Releases the connection of patch cable and socket above a certain tensile force and thus protects circuit boards and sockets from damage.
Particularly compact adapter cable.
Meets the Channel performance requirements of ISO 11801 and EN 50173 Class E_A despite its extremely small dimensions.

In medical technology, sound studio technology and measuring technology as well as in the connection of computer systems.
Reliably separates any connection above a defined tensile force to protect the equipment.
The restraining force is set in such a way that unintentional triggering is prevented.
Pull out force 20 N +15/-10 N.

Defined Disconnect CP-Link

Article No.	Description	Colour
418089	Defined Disconnect CP-Link	grey

Cable connector

Class F_A IP67

Application
Connection of copper data cables 4 x 2 x AWG26/1 to AWG 22/1 (solid wire) and AWG26/7 to AWG22/7 (flexible wire)
IDC insulation displacement terminals, without special tools.

Cable connector Class F_A IP67

Article No.	Description	Colour/material	PU
309153	Cable connector Class F_A IP67	metal	1 pc.

Tool-less Compact IP20

Application
Connection of copper data cables 4 x 2 x AWG24/1 to AWG 22/1 (solid-wire) and AWG26/7 (flexible-wire).
IDC insulation displacement terminals, without special tools.
Housing: metal, zinc die-cast, shielded
Protection class: IP20
360° shield connection
Cable feed from two sides

Cable connector Class E_A IP20

Article No.	Description	Colour/material	PU
41548600ZY	Cable connector Class E_A toolless, IP20	metal	1 pc..

Phone panels, Cat.3

Phone panel CU 25/4   Phone panel CU 50/4

Article No.	Description	Colour	PU
418000	Phone panel CU 25/4 with 25x RJ45 jacks, Cat.3	light grey	1 pc.
418001	Phone panel CU 50/4 with 50x RJ45 jacks, Cat.3	light grey	1 pc.
418002	Phone panel CU 25/4 with 25x RJ45 jacks, Cat.3	black	1 pc.
418003	Phone panel CU 50/4 with 50x RJ45 jacks, Cat.3	black	1 pc.
1401624	Patch panel termination aid (1 set = 2 angular sheets)	grey	1 set
1401609	LSA Plus termination tool for LSA punch down contacts	grey	1 pc.
185731	Fastening kit (8 of each: screws, washers and captive nuts)		1 set
401231	Mounting kit, 50 Philipps screws, nuts and washers		1 set
401261	Mounting kit, 50 Torx M6 screws, nuts and washers		1 set

CABLE MANAGEMENT

Management panel

Management panel 1U

Management panel 2U

Blank plate

Management panel 1U,
for 5 Cable brackets

Article No.	Description	Colour/material	PU
185735	Management panel 1U (bracket 65 mm)	light grey, RAL 7035	1 pc.
185741	Management panel 1U (bracket 80 mm)	light grey, RAL 7035	1 pc.
185736	Management panel 2U	light grey, RAL 7035	1 pc.
185731	Fastening kit (8 of each: screws, washers and captive nuts)		1 set
401231	Mounting kit, 50 Philipps screws, nuts and washers		1 set
401261	Mounting kit, 50 Torx M6 screws , nuts and washers		1 set
195184	19" blank plate, tool-less, 1U	black, RAL 9005	5 pc.
195185	19" blank plate, tool-less, 2U	black, RAL 9005	5 pc.
195186	19" blank plate, tool-less, 3U	black, RAL 9005	5 pc.
195187	19" blank plate, tool-less, 1U	light grey, RAL 7035	5 pc.
195188	19" blank plate, tool-less, 2U	light grey, RAL 7035	5 pc.
195189	19" blank plate, tool-less, 3U	light grey, RAL 7035	5 pc.
1411604	Management panel 19"/1U for 5 support brackets (delivery without brackets)	light grey, RAL 7035	1 pc.
1407689	Management panel 19"/1U for 5 support brackets (delivery without brackets)	black, RAL 9005	1 pc.
418200	Management panel 19"/1U for 5 support brackets (delivery without brackets)	stainless steel	1 pc.
1411480	Support bracket, depth: 60 mm	black, RAL 9005	1 pc.
1411481	Support bracket, depth: 75 mm	metal	1 pc.
1411482	Support bracket, depth: 110 mm	metal	1 pc.
401241	19" blank plate, 1U	black, RAL 9005	1 pc.
401244	19" blank plate, 2U	black, RAL 9005	1 pc.
401240	19" blank plate, 1U	light grey, RAL 7035	1 pc.
401243	19" blank plate, 2U	light grey, RAL 7035	1 pc.
401242	19" blank plate, 1U	stainless steel	1 pc.
401245	19" blank plate, 2U	stainless steel	1 pc.
185640	Cable stripping tool Abi 62		1 pc.
400321	Cable stripping tool Abi Cat.x		1 pc.
1412330	Parallel pliers for termination of modules	blue	1 pc.

Rail adapters

Rail adapter for 1x MS-C6$_A$

Rail adapter Keystone IP20

Rail adapter Keystone

Article No.	Description	Colour/material	PU
309178	Rail adapter for 1x MS-C6A 1/8 -K (Keystone), rail mounted	light grey, RAL 7035	1 pc.
418026	Rail adapter Keystone IP20 for 1 module with Keystone fitting (delivery without module)	light grey, RAL 7035	1 pc.
418025	Rail adapter Keystone for 1x KS-T/KU-T/KS-TC (delivery without module)	metal	1 pc.

Subject to technical modification.

COPPER SOLUTIONS
Systems with IP protection class

AP Outlet IP44/IP67
surface mounted
for 1 or 2 modules

IP44 outlet for 2 Keystone modules, lockable	IP44 outlet for 2 Keystone modules	IP67 outlet for 1 RJ45 module	IP67 outlet for 2 RJ45 modules

Article No.	Description	Colour/material	PU
417503	AP outlet, IP44, surface/duct mounted, for 2 Keystone modules, lockable (delivery without modules)	light grey/polymer	1 pc.
417510	AP outlet, IP44, surface/duct mounted, for 2 Keystone modules (delivery without modules)	light grey/polymer	1 pc.
417530	AP outlet, IP67, for 2 modules (delivery without modules)	silver grey/aluminium	1 pc.
417533	AP outlet, IP67, for 1 module (delivery without modules)	silver grey/aluminium	1 pc.

Cable gland with pressure compensation
via built-in diaphragm

Description
For the operation of enclosures (IP66/IP67) in environments
with changing temperature conditions (e.g. outdoors).
Avoids condensation inside the enclosure (e. g. housing 417530, 417533)

Article No.	Description	PU
417534	Cable gland M16, IP68	1 pc.

IP67 Outlets
surface mounted & in-device installation
with 1 RJ45 module MS-C6$_A$

IP67 data outlet	IP67 coupling socket	IP767 mounting flange	RJ45 IP67 plug body to assemble patch cables

Article No.	Description	Colour	PU
309155	Data outlet, IP67, with 1 RJ45 module MS-C6$_A$	light grey, RAL 7035	1 pc.
309156	Coupling socket, IP67, with 1 RJ45 module MS-C6$_A$	light grey, RAL 7035	1 pc.
309157	Mounting flange, IP67, with 1 RJ45 module MS-C6$_A$	light grey, RAL 7035	1 pc.
417520	RJ45 plug, IP67, Cat.5/5e shielded, for field assembly	light grey, RAL 7035	1 pc.

RJ45 patch cords IP67, Cat. 6$_A$, 500 MHz
shielded , wiring 1:1

Length	Article No.	PU	Article No.	PU
	CU 7702 4P flex Industrial PUR[1] Connector type side B: anti-snag boot grey		CU 7702 4P flex Industrial FRNC/LS0H[2] Connector type side B: anti-snag boot grey	
1.0 m	664508	1 pc.	664008	1 pc.
2.0 m	664510	1 pc.	664010	1 pc.
3.0 m	664512	1 pc.	664012	1 pc.
5.0 m	664516	1 pc.	664016	1 pc.
7.0 m	664520	1 pc.	664020	1 pc.
10.0 m	664526	1 pc.	664026	1 pc.

[1] PUR = Polyurethan   [2] FRNC/LS0H = Flame Retardant Non Corrosive / Low Smoke Zero Halogen

FIBRE OPTIC SOLUTIONS
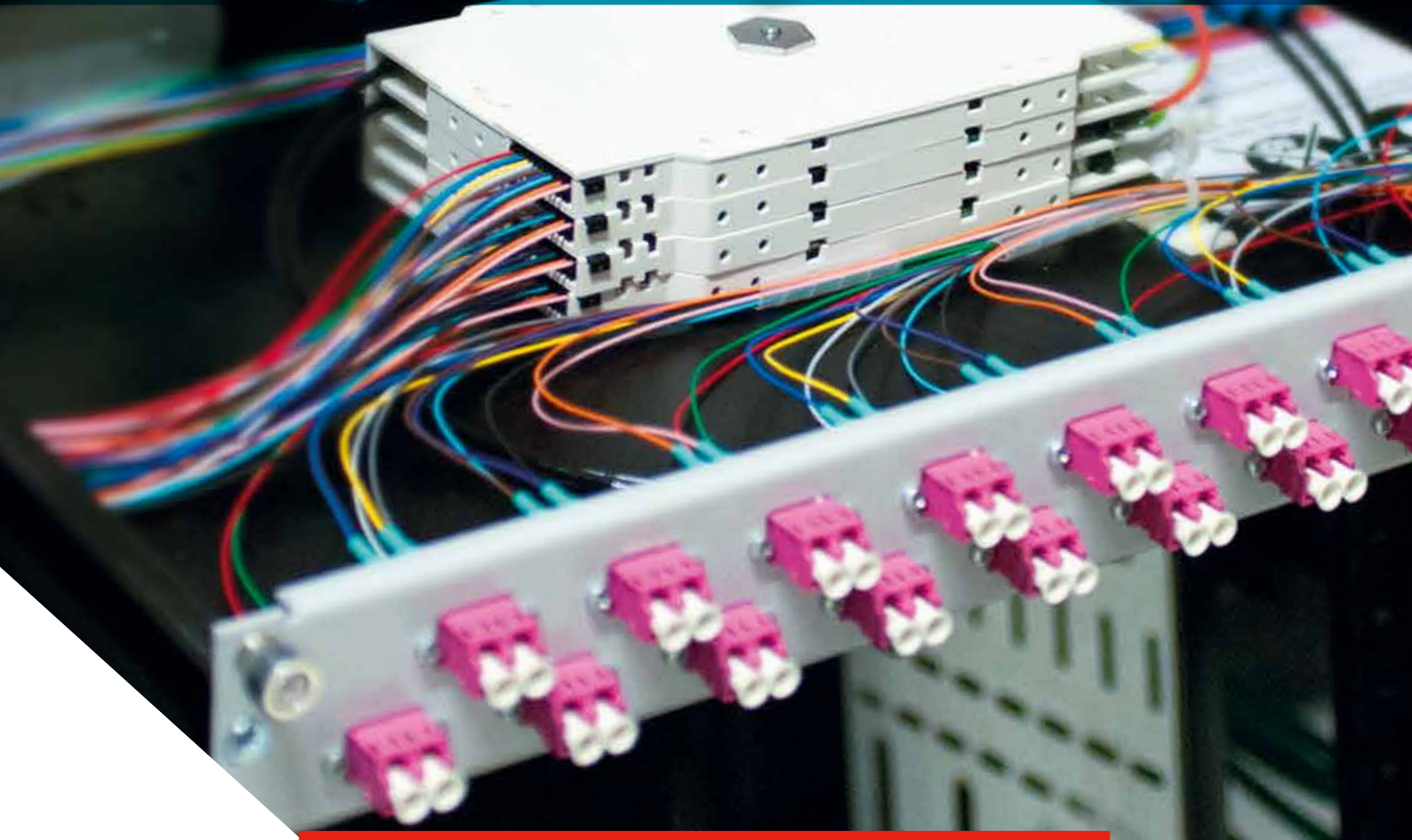
Conclusive fibre optic systems

Datwyler, as an experienced and innovative cable manufacturer, supplies complete fibre optic cabling solutions - including services and support in the areas of consultation, planning, engineering, design, development, training, installation and documentation, if requested.

Datwyler has a comprehensive offering of fibre optic cables and components for high-density, high-speed data network solutions.

Our solutions are designed, overall and in detail, to fully meet the demands of the future. They are adapted to meet customer's needs and ensure a network infrastructure that will support future applications for a long time to come.

DATWYLER

PREMISES NETWORKS
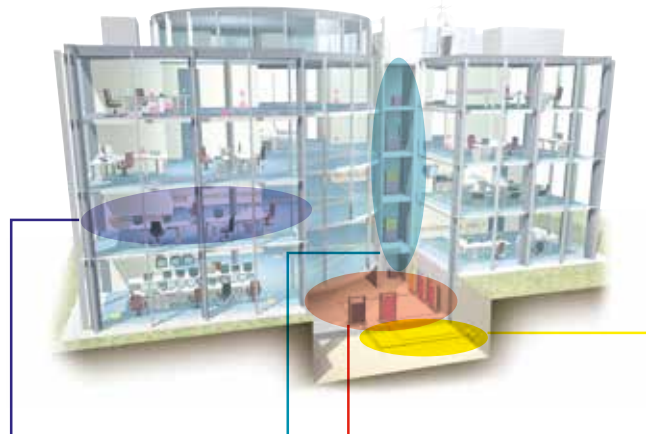
Horizontal (Desk)	Riser	Data Centre	Backbone (Campus)
The horizontal serves the desk or application workspace	The riser joins together equipment in a floor-level telecommunications closet and upper floor closets or zones.	The data centre is a facility dedicated to data-intensive applications, where racks of interconnected equipment manage large amounts of information.	The backbone is typically the longest run in a premises network, often interbuilding.

Application spaces
From a communications pathway perspective, premises networks consist of four primary sections:

Backbone (Campus)	OS2
Data Centre	OS2, OM4, OM5
Riser	OS2, OM3, OM4
Horizontal (Desk)	OM3, OM4

The premises network outlined on the right side, or portions thereof, may also be called a local area network (LAN) or enterprise network.

Top 5 design considerations
• Link length
• Application
• Future performance
• Power budget
• Environmental requirements

Two major fibre classifications
The two major classifications of optical fibre are single-mode and multimode.

SINGLE-MODE FIBRE

Single-mode fibres are best suited for longer distance applications (>1 km). Single-mode fibre is designed to carry only one mode of light, and thus does not experience modal dispersion like multimode fibre.

Coating   Cladding   Core
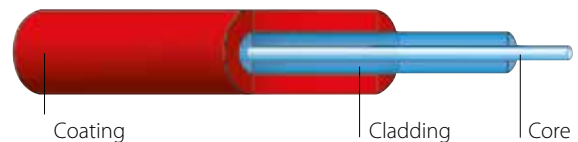
Single-mode E9/125

Optical single-mode fibre cable transmission performance parameters

Classification	Optical fibre type and cable type	Wavelenght [nm]	Modenfeld-Durchmesser [nm]	Cladding diameter [nm]	Coating diameter [nm]	Typical attenuation wired [db/km]	Maximum attenuation wired [db/km]
ITU-T G.652.D BLO	Singlemode E9/125 OS2	1310 1550 1625	9.2 +/- 0.4 10.4 +/- 0.5	125 +/- 0.7	242 +/- 5	0.34 0.21 0.23	0.4 0.3 0.3
ITU-T G.652.D / ITU-T G.657.A1	Singlemode E9/125 OS2	1310 1550 1625	9.2 +/- 0.4 10.4 +/- 0.5	125 +/- 0.7	242 +/- 5	0.34 0.21 0.23	0.4 0.3 0.3
ITU-T G.657.A2	Singlemode E9/125 OS2	1310 1550 1625	8.6 +/- 0.4 9.6 +/-0.5	125 +/- 0.7	242 +/- 5	0.36 0.22 0.25	0.4 0.3 0.32

The fibre designation (OS2) corresponds to the designation of ISO/IEC 11801 or EN 50173. OS2 is commonly referred to as "low water peak" single-mode fibre and is characterized by having a low attenuation coefficient in the vicinity of 1383 nm.

MULTIMODE FIBRE

Multimode fibres are suitable for premises applications where the links are a few hundred meters long and there are many connectors. The larger core diameter of multimode fibre allows the use of affordable 850 nm transmittor diodes as well as low-cost connectors. Multimode fibre uses a graded index profile to minimize modal dispersion. This design maximizes bandwidth while maintaining large cores for simplified system assembly and lower network costs. For multimode fibres, bandwidth is the major limiting factor in network design.

Multimode G50/125

Coating   **Cladding**   **Core**
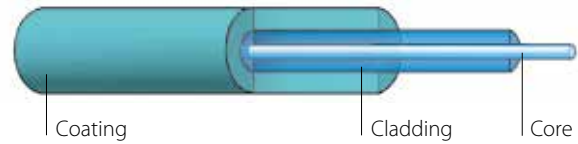
Optical multimode fibre cable transmission performance parameters

Classification	Optical fibre type and cable type	Speed	Wavelenght [nm]	Attenuation typical (cabled) [db/km]	Attenuation maximum (cabled) [db/km]	OFL bandwidth as per TIA/EIA 455-204 and IEC 60793-1-41 [MHz x km]	High-Performance EMB bandwidth as per TIA/EIA 455-220A and IEC 60793-1-49 [MHz x km]
ISO/IEC 11801/EN 50173 TIA 492AAAC OM3 bend optimized 850 nm laser-optimised	Multimode 50/125 μm	≥ 10 Gb/s	850 1300	2.5 0.5	2.7 0.7	1500 500	≥ 2000 n/a
ISO/IEC 11801/EN 50173 TIA 492AAAD OM4 bend optimized 850 nm laser-optimised	Multimode 50/125 μm	≥ 10 Gb/s	850 1300	2.5 0.5	2.7 0.7	3500 500	≥ 4700 n/a
ISO/IEC 11801/EN 50173 TIA 492AAAE OM5 bend optimized 850 nm laser-optimised	Multimode 50/125 μm	≥ 10 Gb/s	850 953 1300	2.5 1.8 0.6	2.7 1.8 1.0	3500 1850 500	≥ 4700 ≥ 2470 n/a

The fibre designation (OM3 up to OM5) corresponds to the designation of ISO/IEC 11801 or EN 50173.
Laser-optimised fibres are defined by their Effective Modal Bandwidth (minEMB, 850 nm VCSEL laser).

Multimode fibre link lenghts and data rates
Although fibre bandwidth is a critical factor in determining link length and data rate, it is not the only one. Transmitter and receiver characteristics are as important as fibre bandwidth in determining supportable link lengths at specified data rates.
At high data rates (40/100 Gbit/s) also the attenuation of the connectors limit the link length.

Bend optimized multimode fibres (G50/125)
With higher bit-rate transmissions (≥ 10 Gbit/s) the attenuation budgets are constantly decreasing.
Thus, one has to focus on high-grade products when selecting the fibre optic components.
The optical fibres should provide an enhanced transmission reliability and reduce the risks of additional losses that may arise as a result of typical faulty use and of mechanical stress.
This is the reason why Datwyler use the bend optimized G50/125 fibre for OM3 up to OM5 fibre categories:
In case that the minimum bending radius is undercut, this leads not necessarily to failure of a connection.
However, too small bending radii should be avoided to extend the lifetime of fibre optic cables (and optical fibres).
The bend optimized G50/125 fibres are fully compatible with "traditional" G50/125 fibres as described in the standard.

FIBRE OPTIC SOLUTIONS
Cables

With selected items from our wide range of fibre optic products.
For more information and products please visit ITinfra.datwyler.com

FIBRE OPTIC CABLES

FO Indoor J-B(ZN)BH
for indoor use

metal-free, dry interstices,
gel-free loose tube, rodent protection,
flame retardant
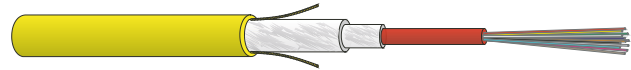
FO Indoor ZGGFR / J-B(ZN)BH
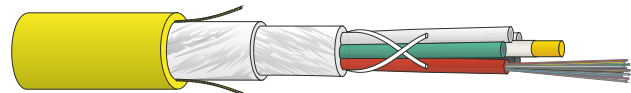
FO Indoor szGGFR / J-B(ZN)BH

FO Indoor ZGGFR, up to 12 fibres

J-B(ZN)BH Description	n x m	Fibres number	Article No. E9/125 G.652.D BLO sheath colour: yellow	Article No. G50/125 OM3 sheath colour: turquoise	Article No. G50/125 OM4 sheath colour: heather violet
FO Indoor ZGGFR	1 x 4	4	19603100DZ	19603300DZ	19603600DZ
FO Indoor ZGGFR	1 x 6	6	19605700DZ	19605800DZ	19605900DZ
FO Indoor ZGGFR	1 x 8	8	19603200DZ	19603400DZ	19603700DZ
FO Indoor ZGGFR	1 x 12	12	19456300DZ	19603500DZ	19597400DZ

The "D" in these article numbers stands for Euroclass D_{ca}. For higher fire performance requirements, Datwyler offers these cables also with Class C_{ca} or even $B2_{ca}$ performance.
For the available Euroclasses please refer to the online data sheets on ITinfra.datwyler.com.

FO Indoor szGGFR, 24-144 fibres

	n x m	Fibres number	Article No.	Article No.	Article No.
FO Indoor szGGFR	2 x 12	24	19456400DZ	19605300DZ	19602500DZ
FO Indoor szGGFR	4 x 12	48	19456600DZ	19605400DZ	19602600DZ
FO Indoor szGGFR	8 x 12	96	19602900DZ	19605500DZ	19602700DZ
FO Indoor szGGFR	12 x 12	144	19596800DZ	19605600DZ	19602800DZ

The "D" in these article numbers stands for Euroclass D_{ca}. For higher fire performance requirements, Datwyler offers these cables also with Class C_{ca} or even $B2_{ca}$ performance.

FO Indoor FTTH
2.2 mm, 2.8 mm LS0H, for indoor use

flame retardant
in accordance with IEC 60794-2-20

FO Indoor FTTH / I-M(ZN)H, 2.2mm, LS0H

FO Indoor FTTH STB / I-V(ZN)H, 2.8mm, LS0H

FO Indoor FTTH / I-M(ZN)H, up to 4 fibres, coating buffer, 2.2 mm

I-M(ZN)H Description	Fibres number	Article No. E9/125 G.652.D BLO sheath colour: yellow
FO Indoor FTTH	4	19455000DZ

FO Indoor FTTH STB / I-V(ZN)H, up to 4 fibres, semi tight buffer, 2.8 mm

FO Indoor FTTH 2.8, 4x1	4	19341000DZ	

The "D" in these article numbers stands for Euroclass D_{ca}. For higher fire performance requirements, Datwyler offers these cables also with Class C_{ca} or even $B2_{ca}$ performance.
For the available Euroclasses please refer to the online data sheets on ITinfra.datwyler.com.

FO Universal U-DQ(ZN)BH
For indoor and outdoor use

metal-free, dry interstices,
rodent protection, flame retardant, longitudinally watertight,
in accordance with IEC 60332.1and IEC 60332.3 C
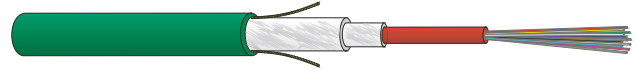
FO Universal U-DQ(ZN)BH 1 x m, ≤ 24 fibres

FO Universal U-DQ(ZN)BH 2 x 12, 24 fibres
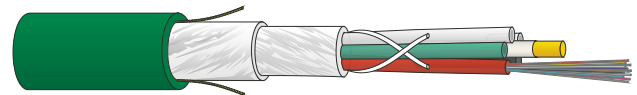
FO Universal U-DQ(ZN)BH n x m, 36-144 fibres

FO Universal ZGGFR, ≤ 24 fibres

U-DQ(ZN)BH Description	n x m	Fibres Anzahl	Article No. E9/125 G.652.D green	Article No. yellow	Article No. G50/125 OM3 green	Article No. turquoise	Article No. G50/125 OM4 green	Article No. heather violet
FO Universal ZGGFR	1 x 4	4	19020300DZ		18598900DZ		19271200DZ	
FO Universal ZGGFR	1 x 6	6	19020400DZ	19342100DZ	19011200DZ	19342500DZ	19336000DZ	19342900DZ
FO Universal ZGGFR	1 x 8	8	19020500DZ		18595900DZ		18736300DZ	19442200DZ
FO Universal ZGGFR	1 x 12	12	19007700DZ	19342200DZ	18635000DZ	19342600DZ	19125100DZ	19343000DZ
FO Universal ZGGFR	2 x 12	24	19007100DZ	19342300DZ	18643200DZ	19342700DZ	19125200DZ	19343100DZ
FO Universal ZGGFR	1 x 24	24	18735400DZ		19175500DZ		19271300DZ	
FO Universal-Hybrid ZGGFR	1x 12 E9 + 1x 12 G50*	24			19013700DZ		19012400DZ	

* 12 fibres E9 in the red tube, 12 fibres G50 in the green tube

The "D" in these article numbers stands for Euroclass D_{ca}.

FO Universal wbGGFR, 36-144 fibres

U-DQ(ZN)BH Description	n x m	Fibres Anzahl	Article No. E9/125 G.652.D green	Article No. yellow	Article No. G50/125 OM3 green	Article No. turquoise	Article No. G50/125 OM4 green	Article No. heather violet
FO Universal wbGGFR	2x12	24	19261300EZ		on request		on request	
FO Universal wbGGFR	3x12	36	19020700EZ		on request		19267800EZ	
FO Universal wbGGFR	4x12	48	19020800EZ	19342400EZ	18648600EZ	19342800EZ	19127800EZ	19343200EZ
FO Universal wbGGFR	5x12	60	19020900EZ		18664200EZ		on request	
FO Universal wbGGFR	6x12	72	19021000EZ		18653900EZ		on request	
FO Universal wbGGFR	8x12	96	18674700EZ		18654000EZ		19271400EZ	19449900EZ
FO Universal wbGGFR	10x12	120	19021100EZ		18653600EZ		auf Anfrage	
FO Universal wbGGFR	12x12	144	19021200EZ		19171000EZ		19271500EZ	

The "E" in these article numbers stands for Euroclass E_{ca}.

Also available with **sheath colour according to fibre type** (OS2 = yellow, OM3 = turquoise, OM4 = violet, OM5 = lime) on request.

FO Universal DLTS U-BQ(ZN)BH
for indoor and outdoor use

metal-free, dry interstices, gel-free loose tube,
rodent protection, flame redardant,
longitudinally watertight
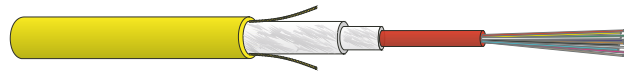
FO Universal DLTS U-BQ(ZN)BH, 1 x m, ≤ 24 fibres
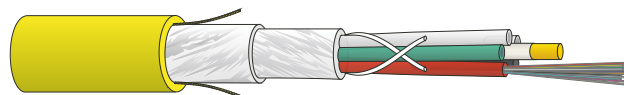
FO Universal DLTS U-BQ(ZN)BH, n x m, 12-144 fibres

FO Universal DLTS ZGGFR, ≤ 24 fibres

U-BQ(ZN)BH 1 x m Description	Fibres number	Article No. E9/125 G.652.D OS2 (sheath colour: yellow)	Article No.	Article No.	Article No. G50/125 OM3 (sheath colour: turquoise)	Article No.	Article No.
Euroclasses		D_{ca}	C_{ca}	$B2_{ca}$	D_{ca}	C_{ca}	$B2_{ca}$
FO Universal DLTS 1 x 4	4	19706600DZ	19706600CZ	19706600BZ	19708000DZ	19708000CZ	19708000BZ
FO Universal DLTS 1 x 6	6	19706700DZ	19706700BZ	19706700BZ	19708100DZ	19708100DZ	19708100BZ
FO Universal DLTS 1 x 8	8	19706800DZ	19706800CZ	19706800BZ	19708200DZ	19708200CZ	19708200BZ
FO Universal DLTS 1 x 12	12	19618100DZ	19618100CZ	19618100BZ	19708300DZ	19708300CZ	19708300BZ
FO Universal DLTS 1 x 24	24	19618200DZ	19618200CZ	19618200BZ	19708400DZ	19708400CZ	19708400BZ

Description	number	G50/125 OM4 (sheath colour: heather violet)			G50/125 OM5 (sheath colour: lime)		
Euroclasses		D_{ca}	C_{ca}	$B2_{ca}$	D_{ca}	C_{ca}	$B2_{ca}$
FO Universal DLTS 1 x 4	4	19708500DZ	19708500CZ	19708500BZ	on request	on request	on request
FO Universal DLTS 1 x 6	6	19708600DZ	19708600CZ	19708600BZ	on request	on request	on request
FO Universal DLTS 1 x 8	8	19708700DZ	19708700CZ	19708700BZ	on request	on request	on request
FO Universal DLTS 1 x 12	12	19618500DZ	19618500CZ	19618500BZ	19706400DZ	19706400CZ	19706400BZ
FO Universal DLTS 1 x 24	24	19618600DZ	19618600CZ	19618600BZ	19706500DZ	19706500CZ	19706500BZ

FO Universal DLTS wbGGFR, 12-144 fibres

U-BQ(ZN)BH n x m Description	Fibres number	Article No. E9/125 G.652.D OS2 (sheath colour: yellow)	Article No.	Article No.	Article No. G50/125 OM3 (sheath colour: turquoise)	Article No.	Article No.
Euroclasses		D_{ca}	C_{ca}	$B2_{ca}$	D_{ca}	C_{ca}	$B2_{ca}$
FO Universal DLTS 1 x 12	12	19710100DZ	19710100CZ	19710100BZ	on request	on request	on request
FO Universal DLTS 2 x 12	24	19618300DZ	19618300CZ	19618300BZ	19710600DZ	19710600CZ	19710600BZ
FO Universal DLTS 4 x 12	48	19618400DZ	19618400CZ	19618400BZ	19710700DZ	19710700CZ	19710700BZ
FO Universal DLTS 6 x 12	72	19710200DZ	19710200CZ	19710200BZ	on request	on request	on request
FO Universal DLTS 8 x 12	96	19710300DZ	19710300CZ	19710300BZ	19710800DZ	19710800CZ	19710800BZ
FO Universal DLTS10 x 12	120	19710400DZ	19710400CZ	19710400BZ	on request	on request	on request
FO Universal DLTS12 x 12	144	19710500DZ	19710500CZ	19710500BZ	19710900DZ	19710900CZ	19710900BZ

Description	number	G50/125 OM4 (sheath colour: heather violet)			G50/125 OM5 (sheath colour: lime)		
Euroclasses		D_{ca}	C_{ca}	$B2_{ca}$	D_{ca}	C_{ca}	$B2_{ca}$
FO Universal DLTS 1 x 12	12	on request	on request	on request	on request	on request	on request
FO Universal DLTS 2 x 12	24	19618700DZ	19618700CZ	19618700BZ	19706900DZ	19706900CZ	19706900BZ
FO Universal DLTS 4 x 12	48	19618800DZ	19618800CZ	19618800BZ	19707000DZ	19707000CZ	19707000BZ
FO Universal DLTS 6 x 12	72	on request	on request	on request	on request	on request	on request
FO Universal DLTS 8 x 12	96	19708800DZ	19708800CZ	19708800BZ	on request	on request	on request
FO Cabical DLTS10 x 12	120	on request	on request	on request	on request	on request	on request
FO Universal DLTS12 x 12	144	19708900DZ	19708900CZ	19708900BZ	on request	on request	on request

FO Universal … Safety / U-DQ(ZN)BH
Safety cables E30 for indoor and outdoor use

metal-free, water resistant, rodent protection,
in accordance with IEC 60332-1-2 and IEC 60332-3-24

**30 minutes System Circuit Integrity
according to DIN 4102-12***

FO Universal ZGGFR Safety / U-DQ(ZN)BH
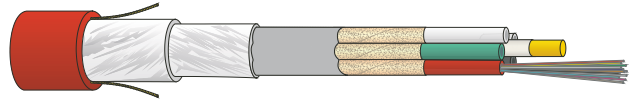
FO Universal wbGGFR Safety / U-DQ(ZN)BH

FO Universal ZGGFR Safety

U-DQ(ZN)BH Description	1 x m	Fibres number	Article No. E9/125 G.652.D	Article No. G50/125 OM3	Article No. G50/125 OM4
FO Universal ZGGFR Safety	1 x 4	4	187288	190604	193447
FO Universal ZGGFR Safety	1 x 6	6	191867	191851	193448
FO Universal ZGGFR Safety	1 x 8	8	196130	196120	193449
FO Universal ZGGFR Safety	1 x 12	12	190719	191796	193450

FO Universal wbGGFR Safety

U-DQ(ZN)BH Description	1 x m	Fibres number	Article No. E9/125 G.652.D	Article No. G50/125 OM3	Article No. G50/125 OM4
FO Universal wbGGFR Safety	2 x 12	24	190223	187360	193454
FO Universal wbGGFR Safety	3 x 12	36	190224	on request	193455
FO Universal wbGGFR Safety	4 x 12	48	190225	191191	193456
FO Universal wbGGFR Safety	5 x 12	60	190226	190605	193457

* Please find the necessary E30-tested and certified fire safety system components on our website.

FIBRE OPTIC SOLUTIONS
Cables

With selected items from our wide range of fibre optic products.
For more information and products please visit ITinfra.datwyler.com

FO Outdoor ZGGT HP / A-DQ(ZN)B2Y
HighP

central tube design, non metallic,
water resistant, rodent protection

FO Outdoor wbGGT HP / A-DQ(ZN)B2Y
HighP

non metallic, dry interstices,
water resistant, rodent protection
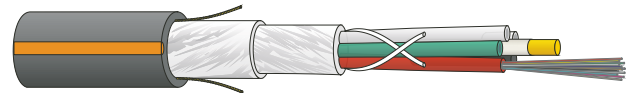
FO Outdoor wbGGT SMALL / A-DQ(ZN)B2Y
Small, 2-layer

non metallic, dry interstices,
water resistant, rodent protection

FO Outdoor ZGGT HP / A-DQ(ZN)B2Y, 1 x m, ≤ 24 fibres

FO Outdoor wbGGT HP / A-DQ(ZN)B2Y, n x m, 12-576 fibres
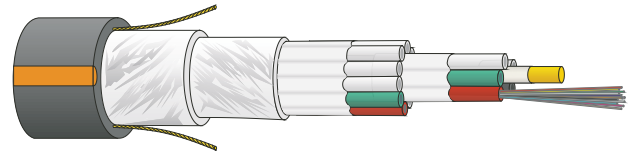
FO Outdoor wbGGT HP / A-DQ(ZN)B2Y, n x m, 12-432 fibres

FO Outdoor ZGGT HP, ≤ 24 fibres

| A-DQ(ZN)B2Y | 1 x m | Fibres | Article No. | Article No. | Article No. |
Description		number	E9/125 G.652.D	G50/125 OM3	G50/125 OM4
FO Outdoor ZGGT HP	1 x 4	4	19016600FZ	19112100FZ	19608900FZ
FO Outdoor ZGGT HP	1 x 6	6	19016700FZ	19074700FZ	on request
FO Outdoor ZGGT HP	1 x 8	8	19016800FZ	on request	on request
FO Outdoor ZGGT HP	1 x 12	12	19016900FZ	18636100FZ	19261000FZ
FO Outdoor ZGGT HP	1 x 24	24	19014900FZ	19264500FZ	19216700FZ

FO Outdoor wbGGT HP, 12-432 fibres

| A-DQ(ZN)B2Y | n x m | Fibres | Article No. | Article No. | Article No. |
Description		number	E9/125 G.652.D	G50/125 OM3	G50/125 OM4
FO Outdoor wbGGT HP	1 x 12	12	19005900FZ	19065100FZ	on request
FO Outdoor wbGGT HP	2 x 12	24	18674800FZ	19036800FZ	19444400FZ
FO Outdoor wbGGT HP	4 x 12	48	18738500FZ	19036900FZ	on request
FO Outdoor wbGGT HP	6 x 12	72	19017200FZ	on request	on request
FO Outdoor wbGGT HP	8 x 12	96	18676000FZ	on request	19617400FZ
FO Outdoor wbGGT HP	12 x 12	144	18739400FZ	19031100FZ	on request
FO Outdoor wbGGT HP	6 x 24	144	19076400FZ	on request	on request
FO Outdoor wbGGT HP	8 x 24	192	19127000FZ	on request	on request
FO Outdoor wbGGT HP	9 x 24	216	19069600FZ	on request	on request
FO Outdoor wbGGT HP	12 x 24	288	19032500FZ	on request	on request
FO Outdoor wbGGT HP	18 x 24	432	19017800FZ	on request	on request
FO Outdoor wbGGT HP	24 x 24	576	19720400FZ	on request	on request

FO Outdoor wbGGT SMALL, ≤ 432 fibres

| A-DQ(ZN)B2Y | n x m | Fibres | Article No. |
Description		number	E9/125 G.652.D
FO Outdoor wbGGT SMALL	18 x 24	432	19261900FZ

Outdoor cable with steel armor (rodent protection) on request.

FO patch panel OV-E, 19"/1U, loaded
Splice box with shelf for excess tube lengths below the drawer

For the termination of fibre optic cables - maximum of 48 fibres.
Loaded with FO adapters, ready for splicing, with prepared pigtails (per 2 m, colour code: IEC 60304).
Telescopic, folding drawer with stop.
Shelf for excess tube lengths below the drawer.
Cable mounting plate at the rear.
Splice cassettes are hinged, can be easily folded up.

Splice box OV-E, 19"/1U, extractable
configuration example with 12 LC Duplex adapters APC and 24 pigtails

Article No.	Product	Colour front plate	Number of adapter	adapter	Colour adapter	Fibre type	Pigtail type, length
41516002ZY	Splice box OV-E, extractable, 1U	aluminium	6	LCD	blue	E9/125 G.652.D, OS2	12x LC, 2 m
41516402ZY	Splice box OV-E, extractable, 1U	aluminium	12	LCD	blue	E9/125 G.652.D, OS2	24x LC, 2 m
41516802ZY	Splice box OV-E, extractable, 1U	aluminium	24	LCD	blue	E9/125 G.652.D, OS2	48x LC, 2 m
41516102ZY	Splice box OV-E, extractable, 1U	aluminium	6	LCD/APC	green	E9/125 G.652.D, OS2	12x LC/APC, 2 m
41516502ZY	Splice box OV-E, extractable, 1U	aluminium	12	LCD/APC	green	E9/125 G.652.D, OS2	24x LC/APC, 2 m
41516902ZY	Splice box OV-E, extractable, 1U	aluminium	24	LCD/APC	green	E9/125 G.652.D, OS2	48x LC/APC, 2 m
41517202ZY	Splice box OV-E, extractable, 1U	aluminium	6	LSH/APC	green	E9/125 G.652.D, OS2	6x LSH/APC, 2 m
41517302ZY	Splice box OV-E, extractable, 1U	aluminium	12	LSH/APC	green	E9/125 G.652.D, OS2	12x LSH/APC, 2 m
41517402ZY	Splice box OV-E, extractable, 1U	aluminium	24	LSH/APC	green	E9/125 G.652.D, OS2	24x LSH/APC, 2 m
41517502ZY	Splice box OV-E, extractable, 1U	aluminium	24	LSH-C/APC	green	E9/125 G.652.D, OS2	48x LSH/APC, 2 m
41516202ZY	Splice box OV-E, extractable, 1U	aluminium	6	LCD	turquoise	G50/125, OM3	12x LC, 2 m
41516602ZY	Splice box OV-E, extractable, 1U	aluminium	12	LCD	turquoise	G50/125, OM3	24x LC, 2 m
41517002ZY	Splice box OV-E, extractable, 1U	aluminium	24	LCD	turquoise	G50/125, OM3	48x LC, 2 m
41516302ZY	Splice box OV-E, extractable, 1U	aluminium	6	LCD	violet	G50/125, OM4	12x LC, 2 m
41516702ZY	Splice box OV-E, extractable, 1U	aluminium	12	LCD	violet	G50/125, OM4	24x LC, 2 m
41517102ZY	Splice box OV-E, extractable, 1U	aluminium	24	LCD	violet	G50/125 OM4	48x LC, 2 m

Variants on request.

FO patch panel OV-S, 19"/1U, loaded
Splice box with adapters and pigtails

For the termination of fibre optic cables - maximum of 96 fibres.
Drawer extractable.
Front panel numbered.
Loaded with FO adapters, ready for splicing, with prepared pigtails
(per 2 m, colour code: IEC 60304).

Splice box OV-S, 19"/1U, extractable,
configuration example with 24 LCD/APC adapters
and 48 pigtails

19"/1U splice box, E9/125 G.652.D, OS2

Article No.	Product	Colour front plate	Number of adapters	Adapter	Colour adapter	Fibre type	Pigtail type
41521000ZY	Splice box OV-S	light grey	6	LCD	blue	E9/125 G.652.D, OS2	12x LC
41535700ZY	Splice box OV-S	black	6	LCD	blue	E9/125 G.652.D, OS2	12x LC
41521400ZY	Splice box OV-S	light grey	12	LCD	blue	E9/125 G.652.D, OS2	24x LC
41534100ZY	Splice box OV-S	black	12	LCD	blue	E9/125 G.652.D, OS2	24x LC
41521800ZY	Splice box OV-S	light grey	24	LCD	blue	E9/125 G.652.D, OS2	48x LC
41533700ZY	Splice box OV-S	black	24	LCD	blue	E9/125 G.652.D, OS2	48x LC
41522200ZY	Splice box OV-S	light grey	6	SCD	blue	E9/125 G.652.D, OS2	12x SC
41536400ZY	Splice box OV-S	black	6	SCD	blue	E9/125 G.652.D, OS2	12x SC
41522600ZY	Splice box OV-S	light grey	12	SCD	blue	E9/125 G.652.D, OS2	24x SC
41523000ZY	Splice box OV-S	light grey	24	SCD	blue	E9/125 G.652.D, OS2	48x SC
41538800ZY	Splice box OV-S	black	24	SCD	blue	E9/125 G.652.D, OS2	48x SC
41531300ZY	Splice box OV-S	light grey	6	LSH/APC	green	E9/125 G.652.D, OS2	6x LSH/APC
41531500ZY	Splice box OV-S	light grey	12	LSH/APC	green	E9/125 G.652.D, OS2	12x LSH/APC
41531700ZY	Splice box OV-S	light grey	24	LSH/APC	green	E9/125 G.652.D, OS2	24x LSH/APC
41544200ZY	Splice box OV-S	light grey	12	LCD/APC	green	E9/125 G.652.D, OS2	24x LC/APC
41544300ZY	Splice box OV-S	light grey	24	LCD/APC	green	E9/125 G.652.D, OS2	48x LC/APC
41527500ZY	Splice box OV-S	light grey	24	LCQ	blue	E9/125 G.652.D, OS2	96x LC
41533100ZY	Splice box OV-S	black	24	LCQ	blue	E9/125 G.652.D, OS2	96x LC
41523400ZY	Splice box OV-S	light grey	6	ST	metal	E9/125 G.652.D, OS2	6x ST
41523800ZY	Splice box OV-S	light grey	12	ST	metal	E9/125 G.652.D, OS2	12x ST
41524200ZY	Splice box OV-S	light grey	24	ST	metal	E9/125 G.652.D, OS2	24x ST

Variants on request.

Splice box OV-S, 19"/1U, extractable,
configuration example with 24 LCD adapters
and 48 pigtails

19"/1U, Splice box, G50/125 OM4

Article No.	Product	Colour front plate	Number of adapters	Adapter	Colour adapter	Fibre type	Pigtail type
41534000ZY	Splice box OV-S	black	6	LCD	heather violet	G50/125 OM4	12x LC
41521300ZY	Splice box OV-S	light grey	6	LCD	heather violet	G50/125 OM4	12x LC
41531200ZY	Splice box OV-S	black	12	LCD	heather violet	G50/125 OM4	24x LC
41521700ZY	Splice box OV-S	light grey	12	LCD	heather violet	G50/125 OM4	24x LC
41533000ZY	Splice box OV-S	black	24	LCD	heather violet	G50/125 OM4	48x LC
41522100ZY	Splice box OV-S	light grey	24	LCD	heather violet	G50/125 OM4	48x LC
41533200ZY	Splice box OV-S	black	24	LCQ	heather violet	G50/125 OM4	96x LC
41529500ZY	Splice box OV-S	light grey	24	LCQ	heather violet	G50/125 OM4	96x LC
41537300ZY	Splice box OV-S	black	6	LSH	heather violet	G50/125 OM4	6x LSH
41532500ZY	Splice box OV-S	light grey	6	LSH	heather violet	G50/125 OM4	6x LSH
41537600ZY	Splice box OV-S	black	12	LSH	heather violet	G50/125 OM4	12x LSH
41532600ZY	Splice box OV-S	light grey	12	LSH	heather violet	G50/125 OM4	12x LSH
41537900ZY	Splice box OV-S	black	24	LSH	heather violet	G50/125 OM4	24x LSH
41532700ZY	Splice box OV-S	light grey	24	LSH	heather violet	G50/125 OM4	24x LSH
41522500ZY	Splice box OV-S	light grey	6	SCD	heather violet	G50/125 OM4	12x SC
41522900ZY	Splice box OV-S	light grey	12	SCD	heather violet	G50/125 OM4	24x SC
41523300ZY	Splice box OV-S	light grey	24	SCD	heather violet	G50/125 OM4	48x SC

Variants on request.

Splice box OV-S, 19"/1U, extractable,
configuration example with 24 LCD adapters
and 48 pigtails

19"/1U splice box, G50/125 OM3

Article No.	Product	Colour front plate	Number of adapters	Adapter	Colour adapter	Fibre type	Pigtail type
41521200ZY	Splice box OV-S	light grey	6	LCD	turquoise	G50/125 OM3	12x LC
41533600ZY	Splice box OV-S	black	6	LCD	turquoise	G50/125 OM3	12x LC
41521600ZY	Splice box OV-S	light grey	12	LCD	turquoise	G50/125 OM3	24x LC
41522000ZY	Splice box OV-S	light grey	24	LCD	turquoise	G50/125 OM3	48x LC
41536100ZY	Splice box OV-S	black	24	LCD	turquoise	G50/125 OM3	48x LC
41522400ZY	Splice box OV-S	light grey	6	SCD	turquoise	G50/125 OM3	12x SC
41533300ZY	Splice box OV-S	black	6	SCD	turquoise	G50/125 OM3	12x SC
41522800ZY	Splice box OV-S	light grey	12	SCD	turquoise	G50/125 OM3	24x SC
41523200ZY	Splice box OV-S	light grey	24	SCD	turquoise	G50/125 OM3	48x SC
41531400ZY	Splice box OV-S	light grey	6	LSH	beige	G50/125 OM3	6x LSH
41531600ZY	Splice box OV-S	light grey	12	LSH	beige	G50/125 OM3	12x LSH
41531800ZY	Splice box OV-S	light grey	24	LSH	beige	G50/125 OM3	24x LSH
41529800ZY	Splice box OV-S	light grey	24	LCQ	turquoise	G50/125 OM3	96x LC
41523600ZY	Splice box OV-S	light grey	6	ST	metal	G50/125 OM3	6x ST
41524000ZY	Splice box OV-S	light grey	12	ST	metal	G50/125 OM3	12x ST
41524400ZY	Splice box OV-S	light grey	24	ST	metal	G50/125 OM3	24x ST

Variants on request.

FO patch panel OV-S, 19"/1U, loaded
Breakout box with adapters

Made of powder-coated sheet steel.
For the termination of pre-assembled fibre optic cables - maximum of 96 fibres.
Extractable drawer.
Numbered front panel, labeling strips as accessories (not for versions with LCQ adapters).
Loaded with a maximum of 24 FO adapters.

Breakout box OV-S, 19"/1U, extractable,
configuration example with 6 SCD adapters

19"/1U breakout box, E9/125 OS2

Article No.	Product	Colour front plate	Number of adapters	Adapter	Colour adapter	Fibre category
441525000ZY	Breakout box OV-S	light grey	6	LCD	blue	OS2
41542300ZY	Breakout box OV-S	black	6	LCD	blue	OS2
41525400ZY	Breakout box OV-S	light grey	12	LCD	blue	OS2
41542400ZY	Breakout box OV-S	black	12	LCD	blue	OS2
41525800ZY	Breakout box OV-S	light grey	24	LCD	blue	OS2
41526200ZY	Breakout box OV-S	light grey	6	SCD	blue	OS2
41526600ZY	Breakout box OV-S	light grey	12	SCD	blue	OS2
41527000ZY	Breakout box OV-S	light grey	24	SCD	blue	OS2
41531900ZY	Breakout box OV-S	light grey	6	LSH/APC	green	OS2
41532100ZY	Breakout box OV-S	light grey	12	LSH/APC	green	OS2
41532300ZY	Breakout box OV -S	light grey	24	LSH/APC	green	OS2
41520700ZY	Breakout box OV-S	light grey	24	LCQ	blue	OS2

Variants on request.

Breakout box OV-S, 19"/1U, extractable,
configuration example with 6 SCD adapters

19"/1HE breakout box, G50/125 OM4

Article No.	Product	Colour front plate	Number of adapters	Adapter	Colour adapter	Fibre category
41547400ZY	Breakout box OV-S	light grey	6	LSH	heather violet	OM4
41547500ZY	Breakout box OV-S	light grey	12	LSH	heather violet	OM4
41547600ZY	Breakout box OV-S	light grey	24	LSH	heather violet	OM4
41525300ZY	Breakout box OV-S	light grey	6	LCD	heather violet	OM4
41542500ZY	Breakout box OV-S	black	6	LCD	heather violet	OM4
41525700ZY	Breakout box OV-S	light grey	12	LCD	heather violet	OM4
41542700ZY	Breakout box OV-S	black	12	LCD	heather violet	OM4
41526100ZY	Breakout box OV-S	light grey	24	LCD	heather violet	OM4
41534300ZY	Breakout box OV-S	black	24	LCD	heather violet	OM4
41526500ZY	Breakout box OV-S	light grey	6	SCD	heather violet	OM4
41543100ZY	Breakout box OV-S	black	6	SCD	heather violet	OM4
41526900ZY	Breakout box OV-S	light grey	12	SCD	heather violet	OM4
41543300ZY	Breakout box OV-S	black	12	SCD	heather violet	OM4
41527300ZY	Breakout box OV-S	light grey	24	SCD	heather violet	OM4
41543600ZY	Breakout box OV-S	black	24	SCD	heather violet	OM4
41529600ZY	Breakout box OV-S	light grey	24	LCQ	heather violet	OM4

Variants on request.

Breakout box OV-S, 19"/1U, extractable,
configuration example with 6 SCD adapters

19"/1HE breakout box, G50/125 OM3

Article No.	Product	Colour front plate	Number of adapters	Adapter	Colour adapter	Fibre category
41525200ZY	Breakout box OV-S	light grey	6	LCD	turquoise	OM3
41542600ZY	Breakout box OV-S	black	6	LCD	turquoise	OM3
41525600ZY	Breakout box OV-S	light grey	12	LCD	turquoise	OM3
41542800ZY	Breakout box OV-S	black	12	LCD	turquoise	OM3
41526000ZY	Breakout box OV-S	light grey	24	LCD	turquoise	OM3
41543000ZY	Breakout box OV-S	black	24	LCD	turquoise	OM3
41526400ZY	Breakout box OV-S	light grey	6	SCD	turquoise	OM3
41543200ZY	Breakout box OV-S	black	6	SCD	turquoise	OM3
41526800ZY	Breakout box OV-S	light grey	12	SCD	turquoise	OM3
41533500ZY	Breakout box OV-S	black	12	SCD	turquoise	OM3
41527200ZY	Breakout box OV-S	light grey	24	SCD	turquoise	OM3
41543500ZY	Breakout box OV-S	black	24	SCD	turquoise	OM3
41528000ZY	Breakout box OV-S	light grey	24	LCQ	turquoise	OM3

Variants on request.

Blank covers and shutters

Shutter for SC Duplex

Shutter for LC Duplex and SC Simplex

Blank cover plugs: ST/FC

SC/LSH/LCD

SCD/LCQ

Article No.	Description	Fibre type	Cover material	Colour	PU
1414887	Shutter for SCD	SM	polymer	blau	1 pc.
1414888	Shutter for SCD	SM	polymer	grün	1 pc.
1414889	Shutter for SCD	MM	polymer	beige	1 pc.
414498	Shutter for SCD	MM	polymer	türkis	1 pc.
414499	Shutter for SCD	MM	polymer	violett	1 pc.
414494	Shutter for LCD or SC simplex	SM	polymer	blau	1 pc.
414495	Shutter for LCD or SC simplex	SM	polymer	grün	1 pc.
414492	Shutter for LCD or SC simplex	MM	polymer	beige	1 pc.
414493	Shutter for LCD or SC simplex	MM	polymer	türkis	1 pc.
414496	Shutter for LCD or SC simplex	MM	polymer	violett	1 pc.
418560	Blank cover for LSH-C				1 pc.
418596	Blank cover for SC/LSH/LCD (21,5 mm)				1 pc.
1414224	Blank cover for SCD /LCQ				1 pc.
1414225	Blank cover for ST/FC				1 pc.
418535	Self-tapping screw M 2.5 x 6 mm				50 pcs.
418599	Screws and nuts M2				50 pcs.

Fibre optic couplers

SC Duplex

ST

LC Duplex with flange

LC Duplex without flange

LC/APC Quad

Article No.	Coupler	Fibre type	Sleeve	Cover material	Colour	Mounting	2 pieces M2 screws	PU
1414886	ST	MM/SM	ceramic	metal		D hole		1 pc.
418506	SC/APC	SM	ceramic	Polymer	green	flange	without	1 pc.
418507	SCD	MM	PB	Polymer	beige	flange	without	1 pc.
418508	SCD	MM	ceramic	Polymer	beige	flange	without	1 pc.
418509	SCD	MM	PB	Polymer	türkis	flange	without	1 pc.
418510	SCD	MM	ceramic	Polymer	türkis	flange	without	1 pc.
418534	SCD	MM	PB	Polymer	violet	flange	without	1 pc.
418532	SCD	MM	ceramic	Polymer	violet	flange	without	1 pc.
418511	SCD	SM	ceramic	Polymer	blue	flange	without	1 pc.
418512	SCD/APC	SM	ceramic	Polymer	green	flange	without	1 pc.
418513	LCD	MM	ceramic	Polymer	beige	flange	without	1 pc.
418516	LCD	MM	ceramic	Polymer	türkis	flange	without	1 pc.
418531	LCD	MM	ceramic	Polymer	violet	flange	without	1 pc.
418514	LCD	SM	ceramic	Polymer	blue	flange	without	1 pc.
418515	LCD/APC	SM	ceramic	Polymer	green	flange	without	1 pc.
418525 [1]	LCD	MM	ceramic	Polymer	beige	threaded flange	without	1 pc.
418526 [1]	LCD	SM	ceramic	Polymer	blue	threaded flange	without	1 pc.
418527 [1]	LCD/APC	SM	ceramic	Polymer	green	threaded flange	without	1 pc.
418528 [1]	LCD	MM	ceramic	Polymer	türkis	threaded flange	without	1 pc.
418533 [1]	LCD	MM	ceramic	Polymer	violet	threaded flange	without	1 pc.
418517	LCQ	MM	ceramic	Polymer	beige	flange	without	1 pc.
418518	LCQ	MM	ceramic	Polymer	türkis	flange	without	1 pc.
418530	LCQ	MM	ceramic	Polymer	violet	flange	without	1 pc.
418519	LCQ	SM	ceramic	Polymer	blue	flange	without	1 pc.
418520	LCQ/APC	SM	ceramic	Polymer	green	flange	without	1 pc.

[1] These couplers are used with Datwyler FO-DCS subracks 7HP/3U - Article No. 417212.

Duplex patch cord
LSH - LCD/APC, OS2

Duplex patch cord
LSH - LSH, OM3

Duplex patch cord
LCD - LSH, OM4

Duplex patch cord
LCD - LCD, OM5

Duplex patch cord Fig. 0, OS2

Connector type		Fibre type	polarity	Length in m / Article No.									
Side A	Side B			1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m
LCD	LCD	E9/125 G.652.D OS2	A to B	423311	423312	423313	423314	423315	423316	423317	423318	423319	423320
LCD	LCD/APC	E9/125 G.652.D OS2	A to B	423911	423912	423913	423914	423915	423916	423917	423918	423919	423920
LCD	LSH	E9/125 G.652.D OS2	A to B	423411	423412	423413	423414	423415	423416	423417	423418	423419	423420
LCD	LSH/APC	E9/125 G.652.D OS2	A to B	423811	423812	423813	423814	423815	423816	423817	423818	423819	423820
LCD/APC	LCD/APC	E9/125 G.652.D OS2	A to B	429911	429912	429913	429914	429915	429916	429917	429918	429919	429923
LCD/APC	LSH/APC	E9/125 G.652.D OS2	A to B	428911	428912	428913	428914	428915	428916	428917	428918	428919	428920
LSH	LSH	E9/125 G.652.D OS2	A to B	424411	424412	424413	424414	424415	424416	424417	424418	424419	424420
LSH	LSH/APC	E9/125 G.652.D OS2	A to B	424811	424812	424813	424814	424815	424816	424817	424818	424819	424820
LSH	LCD/APC	E9/125 G.652.D OS2	A to B	424911	424912	424913	424914	424915	424916	424917	424918	424919	424920
LSH/APC	LSH/APC	E9/125 G.652.D OS2	A to B	428811	428812	428813	428814	428815	428817	428816	428818	428819	428820

Duplex patch cord Fig. 0, OM3

Connector type		Fibre type	polarity	Length in m / Article No.									
Side A	Side B			1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m
LCD	LCD	G50/125 OM3	A to B	423331	423332	423333	423334	423335	423336	423337	423338	423339	423340
LCD	LSH	G50/125 OM3	A to B	423431	423432	423433	423434	423435	423436	423437	423438	423439	423440
LSH	LSH	G50/125 OM3	A to B	424431	424432	424433	424434	424435	424436	424437	424438	424439	424440

Duplex patch cord Fig. 0, OM4

Connector type		Fibre type	polarity	Length in m / Article No.									
Side A	Side B			1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m
LCD	LCD	G50/125 OM4	A to B	433341	433342	433343	433344	433345	433346	433347	433348	433349	433350
LCD	LSH	G50/125 OM4	A to B	42349000ZY	42349100ZY	42349200ZY	42349300ZY	42349400ZY	42349500ZY	42349600ZY	42349700ZY	42349800ZY	42349900ZY

Duplex patch cord Fig. 0, OM5

Connector type		Fibre type	polarity	Length in m / Article No.									
Side A	Side B			1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m
LCD	LCD	G50/125 OM5	A to B	433041	433042	433043	433044	433045	433046	433047	433048	433049	433050

Datwyler offers fiber optic patch cables for individual needs
with a wide range of connector types: ITinfra.datwyler.com.

Duplex patch cord
LSH - LCD/APC, OS2

Duplex patch cord
SCD - SCD, OM3

Duplex patch cord
LCD - ST, OM4

Duplex patch cord Fig. 8, OS2

Connector type		Fibre type	polarity	Length in m / Article No.									
Side A	Side B			1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m
LCD	LCD	E9/125 G.652.D OS2	A to B	42331108ZY	42331208ZY	42331308ZY	42331408ZY	42331508ZY	42331608ZY	42331708ZY	42331808ZY	42331908ZY	42332008ZY
LCD	LCD/APC	E9/125 G.652.D OS2	A to B	42391108ZY	42391208ZY	42391308ZY	42391408ZY	42391508ZY	42391608ZY	42391708ZY	42391808ZY	42391908ZY	42392008ZY
LCD	LSH	E9/125 G.652.D OS2	A to B	42341108ZY	42341208ZY	42341308ZY	42341408ZY	42341508ZY	42341608ZY	42341708ZY	42341808ZY	42341908ZY	42342008ZY
LCD	LSH/APC	E9/125 G.652.D OS2	A to B	42381108ZY	42381208ZY	42381308ZY	42381408ZY	42381508ZY	42381608ZY	42381708ZY	42381808ZY	42381908ZY	42382008ZY
LCD/APC	LCD/APC	E9/125 G.652.D OS2	A to B	42991108ZY	42991208ZY	42991308ZY	42991408ZY	42991508ZY	42991608ZY	42991708ZY	42991808ZY	42991908ZY	42992008ZY
LCD/APC	LSH/APC	E9/125 G.652.D OS2	A to B	42891108ZY	42891208ZY	42891308ZY	42891408ZY	42891508ZY	42891608ZY	42891708ZY	42891808ZY	42891908ZY	42892008ZY
LSH	LSH	E9/125 G.652.D OS2	A to B	42441108ZY	42441208ZY	42441308ZY	42441408ZY	42441508ZY	42441608ZY	42441708ZY	42441808ZY	42441908ZY	42442008ZY
LSH	LSH/APC	E9/125 G.652.D OS2	A to B	42481108ZY	42481208ZY	42481308ZY	42481408ZY	42481508ZY	42481608ZY	42481708ZY	42481808ZY	42481908ZY	42482008ZY
LSH	LCD/APC	E9/125 G.652.D OS2	A to B	42491108ZY	42491208ZY	42491308ZY	42491408ZY	42491508ZY	42491608ZY	42491708ZY	42491808ZY	42491908ZY	42492008ZY
LSH/APC	LSH/APC	E9/125 G.652.D OS2	A to B	42881108ZY	42881208ZY	42881308ZY	42881408ZY	42881508ZY	42881608ZY	42881708ZY	42881808ZY	42881908ZY	42882008ZY

Duplex patch cord Fig. 8, OM3

Connector type		Fibre type	polarity	Length in m / Article No.									
Side A	Side B			1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m
LCD	LCD	G50/125 OM3	A to B	42333108ZY	42333208ZY	42333308ZY	42333408ZY	42333508ZY	42333608ZY	42333708ZY	42333808ZY	42333908ZY	42334008ZY
SCD	SCD	G50/125 OM3	A to B	42113108ZY	42113208ZY	42113308ZY	42113408ZY	42113508ZY	42113608ZY	42113708ZY	42113808ZY	42113908ZY	42114008ZY
SCD	ST	G50/125 OM3	A to B	42123108ZY	42123208ZY	42123308ZY	42123408ZY	42123508ZY	42123608ZY	42123708ZY	42123808ZY	42123908ZY	42124008ZY
ST	ST	G50/125 OM3	A to B	42223108ZY	42223208ZY	42223308ZY	42223408ZY	42223508ZY	42223608ZY	42223708ZY	42223808ZY	42223908ZY	42224008ZY
LCD	ST	G50/125 OM3	A to B	42233108ZY	42233208ZY	42233308ZY	42233408ZY	42233508ZY	42233608ZY	42233708ZY	42233808ZY	42233908ZY	42234008ZY
LCD	SCD	G50/125 OM3	A to B	42133108ZY	42133208ZY	42133308ZY	42133408ZY	42133508ZY	42133608ZY	42133708ZY	42133808ZY	42133908ZY	42134008ZY

Duplex patch cord Fig. 8, OM4

Connector type		Fibre type	polarity	Length in m / Article No.									
Side A	Side B			1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m
LCD	LCD	G50/125 OM4	A to B	43334108ZY	43334208ZY	43334308ZY	43334408ZY	43334508ZY	43334608ZY	43334708ZY	43334808ZY	43334908ZY	43335008ZY
LCD	SCD	G50/125 OM4	A to B	43134108ZY	43134208ZY	43134308ZY	43134408ZY	43134508ZY	43134608ZY	43134708ZY	43134808ZY	43134908ZY	43135008ZY
SCD	SCD	G50/125 OM4	A to B	43114108ZY	43114208ZY	43114308ZY	43114408ZY	43114508ZY	43114608ZY	43114708ZY	43114808ZY	43114908ZY	43115008ZY
LCD	ST	G50/125 OM4	A to B	42230108ZY	42230208ZY	42230308ZY	42230408ZY	42230508ZY	42230608ZY	42230708ZY	42230808ZY	42230908ZY	42231008ZY

Pigtails

Connector type	Fibre type	Fibre pigtail 2 m	Set of 12 fibre pigtails 2 m*
SC	E09/OS2	421121	421122
SC	G50/OM4	421144	421145
SC	G50/OM3	421141	421142
ST	E09/OS2	422221	422222
ST	G50/OM4	422244	422245
ST	G50/OM3	422241	422242
LC	E09/OS2	423321	423322
LC	G50/OM4	423348	423349
LC	G50/OM3	423341	423342
SC/APC	E9/OS2	427721	427722
LC/APC	E9/OS2	429921	429922
LSH/APC	E9/OS2	428821	309631

* Set has 12 fibre pigtails in 12 colours (according to IEC 60304)

Connector termination: optical performance values

Datwyler offers a broad range of terminated connectors
for individual customer needs.
These can be supplied in Simplex as well as in Duplex variants.
Most types are available as APC/HRL variants, too.
We are also able to deliver terminations for higher optical
performance requirements.

ST   LC

Ferrule material:	zyrconia
	MPO: polymer
Lifetime:	1000 connections with
	stable attenuation values
Test conditions IL:	IEC 61300-3-4
Test conditions RL:	IEC 61300-3-6
Reproducibility of the IL value:	during the whole lifetime a
	maximum of +/- 0.1 dB
Operating temperature:	-10° C up to +60° C

MTP®/MPO   SC

Connector	IL [dB] typical	IL [dB] maximum	RL [dB] typical	RL [dB] minimum	Grade (IEC 61755)
MM	0.15	0.3	35	30	better than Bm2m
SM	0.12	0.25	55	50	better than B2
SM/APC	0.12	0.25	70	65	better than B1
MTP®/MPO MM	0.15	0.3	25	20	better than Bm2m
MTP®/MPO SM	0.1	0.25	65	60	better than C1

All connectors are tested with our Simplex, Duplex and Mini Zipcord cables as well as our pigtails.

Please note
Our single fibre cables and the
connectors of our Duplex patch cables
are marked with cable clips "A" and "B".

There is a single Duplex clip enclosed
to enable a change of polarity.

Wiring of a FO Duplex patch cable A to B

A   B
B   A

MTP® is a registered brand name of US Conec.

FLEXIBLE TRUNKS

Length determination & design
of pre-assembled FO trunks

Divider

Fibre-optic connector
(single fibre) with labelling

Sturdy HDPE braided hose

Type of assembly (example): legs graded in length
(as required / depending on apllication)
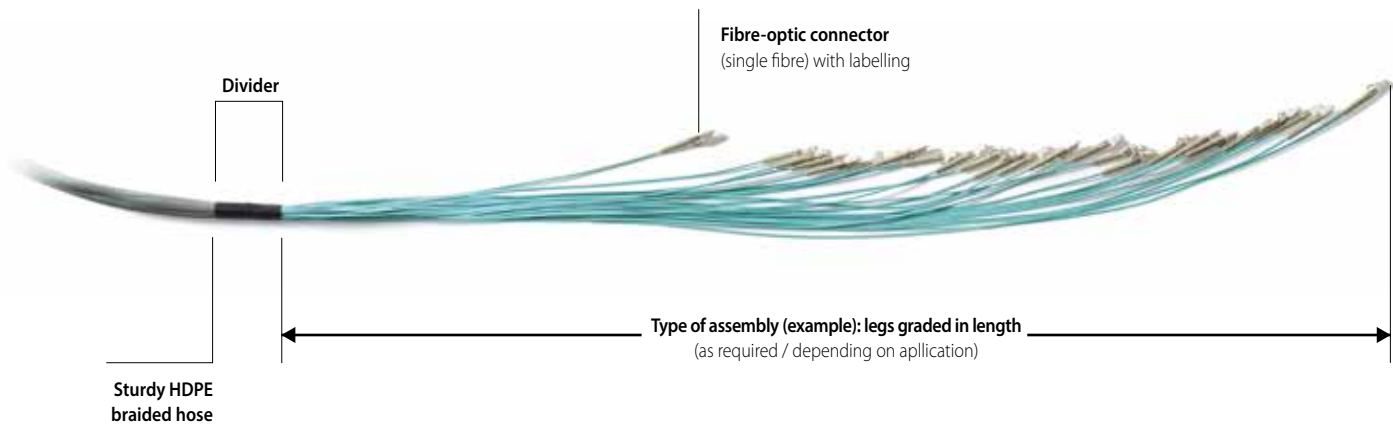
Description
A Datwyler FO flexible trunk consists of up to 24 single fibre cables (per 2.0 mm) that are combined in a sturdy HDPE braided hose and have pre-assembled connectors on both ends. FO flexible trunks come in customized lengths and gradations.
This solution is suitable especially for data centre cabling, rack-to-rack connections and multiple patch links.
Delivery with optical attenuation measurement report.

Rack A

Rack B

fixing point

A

B

L
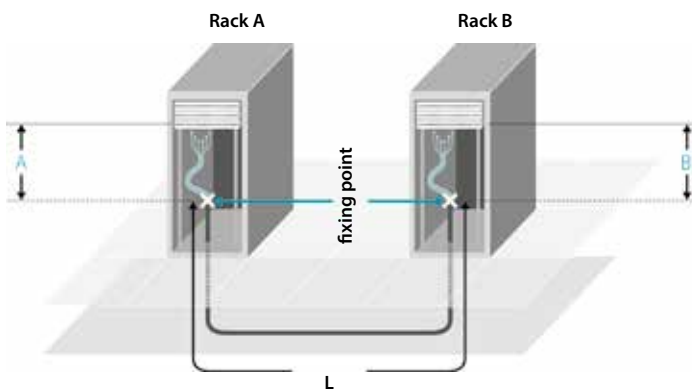
Length definition
The following criteria are decisive for all pre-assembled Datwyler FO trunks:

L = Length between dividers / fixing points
(= purchase order length)
A = Type of assembly side A:
as required / depending on application,
legs graded in length or of equal length
B = Type of assembly side B:
as required / depending on application,
legs graded in length or of equal length

FIBRE-OPTIC TRUNKS

Pre-assembly of loose-tube cables
with all current FO connector types

Trunk termination
Up to 48 fibres, with all current FO connectors.
After the divider (screwable) each single fibre
is protected by aramide yarn and has its own sheath.
Single fibre termination graded in length (max. 2 m after divider).
Comes in crush-resistant hose (IP67), optional with braided sleeving only.
Delivery with optical attenuation measurement report (with OTDR: optional at an extra charge).

Trunk termination (article numbers are valid for both sides)

Number of fibres	Multimode connector types					Single-mode connector types					
	ST	SC	LC	LSH	ST	SC	LC	LSH	SC/APC	LSH/APC	LC/APC
2	4118 000ZY	-	-	-	-	41181000ZY	-	-	-	-	-
4	4060 800ZY	40642100ZY	41660100ZY	41713100ZY	417218 0ZY	40724400ZY	41509600ZY	41721900ZY	41500100ZY	41722200ZY	41549200ZY
6	4077 800ZY	40765800ZY	41501800ZY	41721300ZY	407719 0ZY	40777800ZY	41501400ZY	41501000ZY	41722100ZY	41500600ZY	41549300ZY
8	4067 800ZY	40777700ZY	41502800ZY	41721400ZY	405818 0ZY	41092300ZY	41713200ZY	41722000ZY	41500200ZY	41722300ZY	41549400ZY
12	40640300ZY	40679400ZY	41501900ZY	41721500ZY	40772000ZY	40703500ZY	41501500ZY	41501100ZY	41500300ZY	41500700ZY	41549500ZY
24	40678000ZY	40859700ZY	41502000ZY	41721600ZY	40852900ZY	40624200ZY	41501600ZY	41501200ZY	41500400ZY	41500800ZY	41549600ZY
48	-	-	41502100ZY	-	-	40676800ZY	41501700ZY	-	-	41500900ZY	41549700ZY

LCD-U on request (up to 96 fibres)

Pre-assembly of breakout cables
with all current FO connector types

Breakout assembly
Termination of up to 24 single-fibre cables, with all current FO connectors.
Single fibre termination optionally graded in length.
Delivery with optical attenuation measurement report.
Comes in braided sleeving (optional at an extra charge: with cable gland
and/or crush-resistant hose protection).

Breakout assembly	Connector type	Number of connectors	Multimode fibre Article No.	Single-mode fibre Article No.
on one cable end	SC	4	1410596	415023
on one cable end	SC	8	1410597	415024
on one cable end	SC	12	1410598	415025
on one cable end	SC	24	415083	415081
on one cable end	LC	4	415085	415090
on one cable end	LC	8	415086	415091
on one cable end	LC	12	415087	415092
on one cable end	LC	24	415088	415093

**Attention: please order the breakout cable seperately - according to your individual needs.
When ordering a trunk cable please ensure that the specified length of the trunk cable is defined by the length of the
longest single-fibre cable. This means: the total length of the trunk cable is the length of the cable between the two splits
plus the additional length of the longest single-fibre cable on both sides.**

WE DO IT. FOR YOU.

Your successful digitalization starts with Datwyler's pioneering IT infrastructure:

- **Fibre networks / FTTx**
- **Intelligent buildings**
- **Data centres**

With our innovative systems, products and services we enable you to scale your business with ease.

TURNKEY SOLUTIONS FROM A SINGLE SOURCE

As an expert turnkey partner we can, if you wish, hand over your complete ready-to-use IT infrastructure: on time, with the services previously arranged, in the version you want and at the cost agreed.

In collaboration with experienced local partners we are also happy to support you in business and engineering planning at the preliminary stage of your project as well as turnkey execution in the passive network sector right through to acceptance, documentation and maintenance of the systems and installations implemented.

THE CENTRAL OFFICE - THE HEART OF FIBRE OPTIC INFRASTRUCTURE

PRODUCTS

Central office	Shafts		Buildings

Service room (active) — Infrastructure space (passive) — Feeder cable — Collection closures — Distribution cable — Drop cable — District closures — BEP — OTO

BB | Central office (PoP) | Feeder | Drop | Inhouse

SERVICES

Pre-study	PoP specification	Project development	Resources	Implementation	Operation (L1+)
Strategy and feasibility: - Business model - Network design (P2P, PON, G-PON) - Business plan (successive levels of detail) - Models of cooperation - Partner models - Assistance in raising state subsidies	Application for residential and business customers: - FTTx project - Full project - Subproject - Synergies Use for in-house requirements: - Administration - Plants - Cable network	- Acquisition support - Building inspections - Strategic cell design - Master plan for conduits - Processes and organisation - Resources (project mangement, team)	Material / logistics: - Materialisation - Training - Development - Logistics Areas of application: - Central office / PoP - Outdoor - Indoor - Tools Partners: - Establishing a network	- Contract models - Project mangement - Coordination of local partners - Operative cell design - Network construction - Documentation - Commissioning - Training	- Activation and switch-over - New connections and expansions - Maintenance - Continuous documentation

FO Indoor FTTH
2.2 mm, 2.8 mm LS0H, for indoor use
flame retardant, in accordance with IEC 60794-2-20

FO Indoor FTTH / I-M(ZN)H, 2.2 mm, LS0H

FO Indoor FTTH STB / I-V(ZN)H, 2,8mm, LS0H

FO Indoor FTTH / I-M(ZN)H, up to 4 fibres, Coating buffer, 2.2 mm

I-M(ZN)H Description	Fibres number	Article No. E9/125 G.652.D BLO Sheath colour: yellow	Article No. G50/125 OM4 Sheath colour: heather violet
FO Indoor FTTH	4	19455000DZ	

FO Indoor FTTH STB / I-V(ZN)H, up to 4 fibres, Semi Tight Buffer, 2.8 mm

FO Indoor FTTH 2.8, 4x1	4	19341000DZ	19440500DZ

The "D" in these article numbers stands for Euroclass D_{ca}. For higher fire performance requirements, Datwyler offers these cables also with Class C_{ca} or even $B2_{ca}$ performance.
For the available Euroclasses please refer to the online data sheets on ITinfra.datwyler.com.

FTTH data outlet AP 80 x 80
SC/APC or LCD/APC design
surface mounted, also on top of installation cups

Article No.	Product	Description	Colour (similar to)	PU
41860500ZY	FTTH data outlet AP	1x SC	pure white	1 pc.
41860600ZY	FTTH data outlet AP	1x LCD/APC	pure white	1 pc.
41860700ZY	FTTH data outlet AP	2x LCD/APC	pure white	1 pc.
41860800ZY	FTTH data outlet AP	1x LCD/APC / 1x LC/APC	pure white	1 pc.
41860900ZY	FTTH data outlet AP	2x LCD/APC / 4x LC/APC	pure white	1 pc.
41861000ZY	FTTH data outlet AP	1x SC/APC	pure white	1 pc.
41861100ZY	FTTH data outlet AP	2x SC/APC	pure white	1 pc.
41861200ZY	FTTH data outlet AP	1x SC/APC / 1x SC/APC	pure white	1 pc.
41861300ZY	FTTH data outlet AP	2x SC/APC / 2x SC/APC	pure white	1 pc.

FTTH in-house installation kit
Cable & data outlet, preassembled
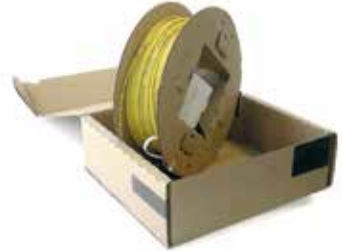
Article No.	Description	Cable length	PU
41861500ZY	2x LC/APC in LCD/APC adapter	10 m	1 set
41861600ZY	2x LC/APC in LCD/APC adapter	15 m	1 set
41861700ZY	2x LC/APC in LCD/APC adapter	20 m	1 set
41861800ZY	2x LC/APC in LCD/APC adapter	25 m	1 set
41861900ZY	2x LC/APC in LCD/APC adapter	30 m	1 set
41862000ZY	2x LC/APC in LCD/APC adapter	35 m	1 set
41862100ZY	2x LC/APC in LCD/APC adapter	40 m	1 set
41862200ZY	2x LC/APC in LCD/APC adapter	45 m	1 set
41862300ZY	2x LC/APC in LCD/APC adapter	50 m	1 set
41862400ZY	2x LC/APC in LCD/APC adapter	55 m	1 set
41862500ZY	2x LC/APC in LCD/APC adapter	60 m	1 set
41863400ZY	4x LC/APC in 2 LCD/APC adapter	10 m	1 set
41863500ZY	4x LC/APC in 2 LCD/APC adapter	15 m	1 set
41863600ZY	4x LC/APC in 2 LCD/APC adapter	20 m	1 set
41863700ZY	4x LC/APC in 2 LCD/APC adapter	25 m	1 set
41863800ZY	4x LC/APC in 2 LCD/APC adapter	30 m	1 set
41863900ZY	4x LC/APC in 2 LCD/APC adapter	35 m	1 set
41864000ZY	4x LC/APC in 2 LCD/APC adapter	40 m	1 set
41864100ZY	4x LC/APC in 2 LCD/APC adapter	45 m	1 set
41864200ZY	4x LC/APC in 2 LCD/APC adapter	50 m	1 set
41864300ZY	4x LC/APC in 2 LCD/APC adapter	55 m	1 set
41864400ZY	4x LC/APC in 2 LCD/APC adapter	60 m	1 set
41814500ZY	4x LC/APC in 2 LCD/APC adapter	65 m	1 set
41814600ZY	4x LC/APC in 2 LCD/APC adapter	70 m	1 set
41814700ZY	4x LC/APC in 2 LCD/APC adapter	75 m	1 set

DROP / FEEDER CABLING

FO Outdoor ZGGT HP / A-DQ(ZN)B2Y
HighP

Central loose tube, metal-free,
longitudinally watertight, rodent protection
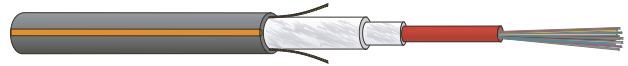
FO Outdoor ZGGT HP / A-DQ(ZN)B2Y, 1 x m, ≤ 24 fibres

FO Outdoor wbGGT HP / A-DQ(ZN)B2Y
HighP

Metal-free, trockene dry interstices,
longitudinally watertight, rodent protection
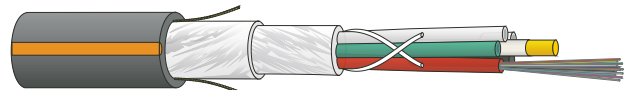
FO Outdoor wbGGT HP / A-DQ(ZN)B2Y, n x m, 12-576 fibres

FO Outdoor ZKT Micro / A-DQ(ZN)2Y
Micro

Very compact, metal-free, dry interstices,
stranded loose tubes, easily cut-back, installation-friendly

FO Outdoor ZKT Micro / A-DQ(ZN)2Y, 1 x m , ≤ 24 fibres

FO Outdoor ZGGT HP, up to 24 fibres

A-DQ(ZN)B2Y Description	1 x m	Fibres number	Article No. with E9/125 G.652.D
FO Outdoor ZGGT HP	1 x 4	4	19016600FZ
FO Outdoor ZGGT HP	1 x 6	6	19016700FZ
FO Outdoor ZGGT HP	1 x 8	8	19016800FZ
FO Outdoor ZGGT HP	1 x 12	12	19016900FZ
FO Outdoor ZGGT HP	1 x 24	24	19014900FZ

FO Outdoor wbGGT HP, 12-576 fibres

A-DQ(ZN)B2Y Description	n x m	Fibres number	Article No. with E9/125 G.652.D
FO Outdoor wbGGT HP	1 x 12	12	19005900FZ
FO Outdoor wbGGT HP	2 x 12	24	18674800FZ
FO Outdoor wbGGT HP	3 x 12	36	19005800FZ
FO Outdoor wbGGT HP	4 x 12	48	18738500FZ
FO Outdoor wbGGT HP	5 x 12	60	19017100FZ
FO Outdoor wbGGT HP	6 x 12	72	19017200FZ
FO Outdoor wbGGT HP	8 x 12	96	18676000FZ
FO Outdoor wbGGT HP	9 x 12	108	19017400FZ
FO Outdoor wbGGT HP	10 x 12	120	19017500FZ
FO Outdoor wbGGT HP	12 x 12	144	18739400FZ
FO Outdoor wbGGT HP	6 x 24	144	19076400FZ
FO Outdoor wbGGT HP	8 x 24	192	19127000FZ
FO Outdoor wbGGT HP	9 x 24	216	19069600FZ
FO Outdoor wbGGT HP	12 x 24	288	19032500FZ

FO Outdoor ZKT Micro, up to 24 fibres

A-DQ(ZN)B2Y Description	1 x m	Fibres number	Sheath Ø mm	Article No. with E9/125 G.652.D BLO
FO Outdoor ZKT Micro	1 x 2	2	4	19170200FZ
FO Outdoor ZKT Micro	1 x 4	4	4	19065800FZ
FO Outdoor ZKT Micro	1 x 6	6	4	19170300FZ
FO Outdoor ZKT Micro	1 x 8	8	4	19170400FZ
FO Outdoor ZKT Micro	1 x 10	10	4	19170500FZ
FO Outdoor ZKT Micro	1 x 12	12	4	19022700FZ
FO Outdoor ZKT Micro	1 x 24	24	4	19123500FZ

FO Outdoor wbKT Micro / A-DQ(ZN)2Y
Micro

Very thin, metal-free, stranded loose tubes,
easily cut-back, installation friendly

FO Outdoor ZT S-Micro / A-D2Y
S-Micro

Very thin, metal-free, with one central loose tube,
easily cut-back, installation friendly,
optimised for injection into microducts

FO Outdoor wbKT S-Micro / A-DQ(ZN)2Y
S-Micro

Very compact, metal-free, dry interstices,
stranded loose tubes, easily cut-back, installation-friendly,
optimised for injection into microducts

FO Outdoor wbKT C-Micro / A-DQ(ZN)2Y
C-Micro

Highly compact, metal-free, dry interstices,
stranded loose tubes, easily cut-back, installation-friendly,
optimised for injection into microducts

FO Outdoor wbKT Micro / A-DQ(ZN)2Y, n x m, ≤ 144 fibres

FO Outdoor ZT S-Micro / A-D2Y, 1 x m, ≤ 24 fibres

FO Outdoor wbKT S-Micro / A-DQ(ZN)2Y, 1 x m, 12-288 fibres

FO Outdoor wbKT C-Micro / A-DQ(ZN)2Y, n x m, with 72 fibres (200 µm)

FO Outdoor wbKT Micro, up to 144 fibres

A-DQ(ZN)2Y Description	n x m	Fibres number	Sheath Ø mm	Article No. with E9/125 G.652.D BLO
FO Outdoor wbKT Micro	1 x 12	12	6.6	19170600FZ
FO Outdoor wbKT Micro	2 x 12	24	6.6	19008000FZ
FO Outdoor wbKT Micro	3 x 12	36	6.6	19022900FZ
FO Outdoor wbKT Micro	4 x 12	48	6.6	19023000FZ
FO Outdoor wbKT Micro	5 x 12	60	6.6	19023100FZ
FO Outdoor wbKT Micro	6 x 12	72	6.5	19023200FZ
FO Outdoor wbKT Micro	8 x 12	96	7.6	19181300FZ
FO Outdoor wbKT Micro	6 x 24	144	8.2	19181400FZ

FO Outdoor ZT S-Micro, up to 24 fibres

A-D2Y Description	1 x m	Fibres number	Sheath Ø mm	Article No. with E9/125 G.652.D BLO
FO Outdoor ZT S-Micro	1 x 4	4	2.4	19343400FZ
FO Outdoor ZT S-Micro	1 x 6	6	2.4	19604800FZ
FO Outdoor ZT S-Micro	1 x 12	12	2.4	19346000FZ
FO Outdoor ZT S-Micro	1 x 24	24	2.4	19343300FZ

FO Outdoor wbKT S-Micro, up to 288 fibres

A-DQ(ZN)2Y Description	n x m	Fibres number	Sheath Ø mm	Article No. with E9/125 G.652.D BLO
FO Outdoor wbKT S-Micro	2 x 12	24	4.2	19269300FZ
FO Outdoor wbKT S-Micro	4 x 12	48	4.2	19215000FZ
FO Outdoor wbKT S-Micro	8 x 12	96	6.6	19215900FZ
FO Outdoor wbKT S-Micro	12 x 12	144	8.2	19709000FZ
FO Outdoor wbKT S-Micro	6 x 24	144	6.5	19450000FZ
FO Outdoor wbKT S-Micro	8 x 24	192	8.4	19339600FZ
FO Outdoor wbKT S-Micro	9 x 24	216	8.4	19262500FZ
FO Outdoor wbKT S-Micro	12 x 24	288	10.4	19600000FZ

FO Outdoor wbKT C-Micro, 72 fibres

A-DQ(ZN)2Y Description	n x m	Fibres number	Sheath Ø mm	Article No. with E9/125 G.652.D BLO200
FO Outdoor wbKT C-Micro	3 x 24	72	4.1	19618000FZ

FO CABLE - MICRO DUCT DIMENSIONS

Cable family	VDE designation	Art. No.	Article	No. of fibres	Fibre type	Sheath Ø [mm]	4	5	5,5	6	8	10	12	14	15	16
ZT S-Micro	**A-D2Y**	19343400FZ	FO Outdoor S-Micro 1x4	4	E9/125 G.652.D BLO	2,4	✓	✓	✓	✓	✓					
		19604800FZ	FO Outdoor S-Micro 1x6	6	E9/125 G.652.D BLO	2,4	✓	✓	✓	✓	✓					
		19346000FZ	FO Outdoor S-Micro 1x12	12	E9/125 G.652.D BLO	2,4	✓	✓	✓	✓	✓					
		19343300FZ	FO Outdoor S-Micro 1x24	24	E9/125 G.652.D BLO	2,4	✓	✓	✓	✓	✓					
wbKT S-Micro	**A-DQ(ZN)2Y**	19269300FZ	FO Outdoor S-Micro 2x12	24	E9/125 G.652.D BLO	4,2			✓	✓	✓					
		19215000FZ	FO Outdoor S-Micro 4x12	48	E9/125 G.652.D BLO	4,2			✓	✓	✓					
		19215900FZ	FO Outdoor S-Micro 8x12	96	E9/125 G.652.D BLO	6,6						✓	✓			
		19709000FZ	FO Outdoor S-Micro 12x12	144	E9/125 G.652.D BLO	8,2							✓	✓	✓	✓
		19450000FZ	FO Outdoor S-Micro 6x24	144	E9/125 G.652.D BLO	6,5						✓	✓			
		19339600FZ	FO Outdoor S-Micro 8x24	192	E9/125 G.652.D BLO	8,4							✓	✓	✓	✓
		19262500FZ	FO Outdoor S-Micro 9x24	216	E9/125 G.652.D BLO	8,4							✓	✓	✓	✓
		19600000FZ	FO Outdoor S-Micro 12x24	288	E9/125 G.652.D BLO	10,4								✓	✓	✓
wbKT C-Micro	**A-DQ(ZN)2Y**	19618000FZ	FO Outdoor C-Micro 3x24	72	E9/125 G.652.D BLO200	4,1			✓	✓	✓	✓				
ZKT Micro	**A-DQ(ZN)2Y**	19170200FZ	FO Outdoor Micro 1x2	2	E9/125 G.652.D BLO	4,0		✓	✓	✓	✓					
		19065800FZ	FO Outdoor Micro 1x4	4	E9/125 G.652.D BLO	4,0		✓	✓	✓	✓					
		19170300FZ	FO Outdoor Micro 1x6	6	E9/125 G.652.D BLO	4,0		✓	✓	✓	✓					
		19170400FZ	FO Outdoor Micro 1x8	8	E9/125 G.652.D BLO	4,0		✓	✓	✓	✓					
		19170500FZ	FO Outdoor Micro 1x10	10	E9/125 G.652.D BLO	4,0		✓	✓	✓	✓					
		19022700FZ	FO Outdoor Micro 1x12	12	E9/125 G.652.D BLO	4,0		✓	✓	✓	✓					
		19123500FZ	FO Outdoor Micro 1x24	24	E9/125 G.652.D BLO	4,0		✓	✓	✓	✓					
wbKT Micro	**A-DQ(ZN)2Y**	19170600FZ	FO Outdoor Micro 1x12	12	E9/125 G.652.D BLO	6,6						✓	✓	✓		
		19008000FZ	FO Outdoor Micro 2x12	24	E9/125 G.652.D BLO	6,6						✓	✓	✓		
		19022900FZ	FO Outdoor Micro 3x12	36	E9/125 G.652.D BLO	6,6						✓	✓	✓		
		19023000FZ	FO Outdoor Micro 4x12	48	E9/125 G.652.D BLO	6,6						✓	✓	✓		
		19023100FZ	FO Outdoor Micro 5x12	60	E9/125 G.652.D BLO	6,6						✓	✓	✓		
		19023200FZ	FO Outdoor Micro 6x12	72	E9/125 G.652.D BLO	6,5						✓	✓	✓		
		19181300FZ	FO Outdoor Micro 8x12	96	E9/125 G.652.D BLO	7,6							✓	✓	✓	
		19181400FZ	FO Outdoor Micro 6x24	144	E9/125 G.652.D BLO	8,2							✓	✓	✓	✓

The information provided is a non-binding recommendation without guarantee.
The achievable blowing-in lengths depend on the installation, equipment and quality of the pipe.

✓ Possible combinations with limited installation lengths
✓ Recommended combinations

DATWYLER'S FUTURE-PROOF DATA CENTRE CABLING SOLUTIONS — A COMPARISON

HIGH-DENSITY DATA CENTRE SOLUTION (HD-DCS)

DATA CENTRE SOLUTION (DCS)

The HD-DCS offers users higher quality features than the DCS and, in addition, more than twice the port density and even greater flexibility. The HD-DCS housings feature integrated cable management, which simplifies installation and maintenance. Port labelling is also simpler and more flexible.

DCS is a future-proof, preassembled plug-and-go fibre optic solution characterised by high-quality cables and components and high-precision connector assembly. Due to its outstanding optical and geometric values, it is suitable for all current and future high-speed applications in the data centre. Modular components can be combined as required, thus providing users with a maximum in design flexibility.

Performance features:

- Extremely compact solution with maximum port density (MTP and LCD)
- Flexible assembly with plug-in modules of different size/port density (6, 12, 24)
- Integrated cable management and labelling system
- Compact patch cables (2 mm) with push-pull tabs
- Patch and breakout cables with CPR classification (up to B2$_{ca}$)

Performance features:

- Simple installation with intuitive labelling and easy access from the front
- High quality 3U/7HP plug-in modules
- Connectivity solutions with MTP, LDC and LCQ
- Breakout and splice solutions available
- Simple integration of copper connections

Product details from page 77

Product details from page 83

DCS cabling solutions, suitable for both systems from page 91

FUTURE-PROOF
DATA CENTRE CABLING

FO-DCS VS. HD-DCS

CRITERIA	HD-DC Solution (HD-DCS)	DC Solution (DCS)
Solution	Premier	Standard
Max. number of ports on 1U	96	36
Max. number of ports on 4U	384	144
Connection types	LCD, MTP	LCD, LSH-C, (SCD), MTP
Fibre types	OM4, G.652.D (BLO) OM5, on request	OM3, OM4, G.652.D (BLO)
Max. number of fibres / 1U - LCD	192	72
Max. number of fibres / 1U - MTP$_{12}$	1152	432
Max. number of fibres / 4U - LCD	768	288
Max. number of fibres / 4U - MTP$_{12}$	4608	1728
LCD adapters with integral dust cover	●	–
Splice modules	–	●
Breakout modules	●	●
Copper module with 6x RJ45	–	●
FO modules with 6 ports	●	●
FO modules with 12 ports	●	●
FO modules with 24 ports	●	–
Patch cables, round, 2 mm	●	●
Patch cables, round, 3 mm	–	●
Patch cable management 0U	●	● (only with 4U subrack)
	details from page 77	**details from page 83**

DCS cabling solutions from page 91

HIGH-DENSITY DATA CENTRE SOLUTION

Datwyler's modular high-density cabling solution is characterised by its port density and flexibility

The implementation of IoT, AI and Big Data is expected to lead to a general, steady increase in the traffic of digital data. Large amounts of data are generated every second and have to be processed and transferred to their destination. As a result, data centers and data networks are growing rapidly.

In order to cope with this growth, companies need connection technology for their active components with very high port densities and flexibility for future requirements.

A Datwyler HD-DCS modular solution offers this network flexibility, a great scalability in the smallest space, saves rack space and enables intelligent connection configurations. HD-DCS is the ideal solution for fibre optic data networks, especially in data centres. HD-DCS modules are particularly suitable for all high-density and high-performance applications with duplex signals. With these modules, a packing density of up to 1152 fibres per 1U can be achieved (MTP$_{12}$).

With a Datwyler HD-DCS solution, your data network infrastructure is ready for future growth.

PATCH PANEL

HD-DCS modular panel, 19"/1U
to take 4 or 12 HD-DCS plug-in modules

Modular, scalable high-density platform for the data centre environment.
Sturdy stainless steel housing with depth-adjustable cable support plate and front 19"/1U mounting brackets.
Pre-assembled with four slots to take HD-DCS plug-in modules from the front or rear.
Each slot accepts three modules with 6 ports or one module with 12 or 24 ports.

Allows for variable, scalable port densities from 48 up to 96 ports (LCD and MPO/MTP®).
Up to 192 fibres (with LCD) or 1152 fibres (with MTP$_{12}$) per height unit.

Article No.	Description	Colour (front plate)	Colour	PU
473600	HD-DCS panel, 19" 1U, 4x 12/24-port	black	silver	1 pc.
473601	HD-DCS panel, 19" 1U, 12x 6-port	black	silver	1 pc.
473602	HD-DCS panel, 19" 1U, 6/12/24-port	black	silver	1 pc.

CASSETTES

HD-DCS MTP module, 1x MTP on 6x LCD/PC or LCD/APC
OM4 or OS2, for HD-DCS modular panel

Accepts pre-assembled MTP trunk cables.
Suitable for all high-density and high-performance applications with duplex signals,
particularly in the data centre environment.
Assembled to a very high quality which guarantees optimum values for optical performance (IL/RL).
Polycarbonate (PC) housing with press-fit cover (sealed).
Insertion into the panel from the front.
The MTP coupler at the rear is routed to the front couplers (6LCD) by way of an internal fanout.
Front couplers with integrated, automatic transparent dust shutters.

A packing density of up to 144 fibres on 1U can be achieved with this module type.

Article No.	Description	Colour	PU
473520	HD-DCS MTP module, 1x MTP on 6x LCD/PC, OM4	black	1 pc.
473522	HD-DCS MTP module, 1x MTP on 6x LCD/PC, OS2	black	1 pc.
473523	HD-DCS MTP module, 1x MTP on 6x LCD/APC, OS2	black	1 pc.

HD-DCS MTP module, 1x MTP Duplex on 12x LCD/PC or LCD/APC
OM4 or OS2, for HD-DCS modular panel

Accepts pre-assembled MTP® trunk cables.
Suitable for all high-density and high-performance applications with duplex signals,
particularly in the data centre environment.
Assembled to a very high quality which guarantees optimum values for optical performance (IL/RL).
Polycarbonate (PC) housing with press-fit cover (sealed).
Insertion into panel from the front or rear.
The MTP Duplex coupler at the rear is routed to the front couplers (2x 6LCD) by way of internal fanouts.
Front couplers with integrated, automatic transparent dust shutters.

A packing density of up to 96 fibres on 1U can be achieved with this module type.

Article No.	Description	Colour	PU
473500	HD-DCS MTP module, 1x MTP Duplex on 12x LCD/PC, OM4	black	1 pc.
473504	HD-DCS MTP module, 1x MTP Duplex on 12x LCD/PC, OS2	black	1 pc.
473506	HD-DCS MTP module, 1x MTP Duplex on 12x LCD/APC, OS2	black	1 pc.

HD-DCS MTP module, 2x MTP Duplex on 24x LCD/PC or LCD/APC
OM4 or OS2, for HD-DCS modular panel

Accepts pre-assembled MTP trunk cables.
Suitable for all high-density and high-performance applications with duplex signals,
particularly in the data centre environment.
Assembled to a very high quality which guarantees optimum values for optical performance (IL/RL).
Polycarbonate (PC) housing with press-fit cover (sealed).
Insertion into panel from the front or rear.
Two MTP Duplex couplers at the rear are routed to the front couplers (4x 6LCD) by way of internal fanouts.
Front couplers with integrated, automatic transparent dust shutters.

A packing density of up to 192 fibres on 1U can be achieved with this module type.

Article No.	Description	Colour	PU
473501	HD-DCS MTP module, 2x MTP Duplex on 24x LCD/PC, OM4	black	1 pc.
473505	HD-DCS MTP module, 2x MTP Duplex on 24x LCD/PC, OS2	black	1 pc.
473507	HD-DCS MTP module, 2x MTP Duplex on 24x LCD/APC, OS2	black	1 pc.

HD-DCS BO module, 6x LCD/PC or LCD/APC
OM4 or OS2, for HD-DCS modular panel

Accepts pre-assembled LC/LCD trunk cables.
Suitable for all high-density and high-performance applications with duplex signals,
particularly in the data centre environment.
Polycarbonate (PC) housing with press-fit cover (sealed).
Insertion into panel from the front.
Rear side slot fitted with a cable grommet.
Front couplers with integrated, automatic transparent dust shutters.

A packing density of 144 fibres on 1U can be achieved with this module type.

Article No.	Description	Colour	PU
473560	HD-DCS BO module, 6x LCD/PC, OM4	black	1 pc.
473562	HD-DCS BO module, 6x LCD/PC, OS2	black	1 pc.
473563	HD-DCS BO module, 6x LCD/APC, OS2	black	1 pc.

HD-DCS BO module, 12x LCD/PC or LCD/APC
OM4 or OS2, for HD-DCS modular panel

Accepts pre-assembled LC/LCD trunk cables.
Suitable for all high-density and high-performance applications with duplex signals,
particularly in the data centre environment.
Polycarbonate (PC) housing with press-fit cover (sealed).
Insertion into panel from the front or rear.
Rear side slot fitted with a cable grommet.
Front couplers with integrated, automatic transparent dust shutters.

A packing density of up to 96 fibres on 1U can be achieved with this module type.

Article No.	Description	Colour	PU
473540	HD-DCS BO module, 12x LCD/PC, OM4	black	1 pc.
473544	HD-DCS BO module, 12x LCD/PC, OS2	black	1 pc.
473546	HD-DCS BO module, 12x LCD/APC, OS2	black	1 pc.

HD-DCS BO module, 24x LCD/PC or LCD/APC
OM4 or OS2, for HD-DCS modular panel

Accepts pre-assembled LC/LCD trunk cables.
Suitable for all high-density and high-performance applications with duplex signals,
particularly in the data centre environment.
Polycarbonate (PC) housing with press-fit cover (sealed).
Insertion into panel from the front or rear.
Rear side slot fitted with a cable grommet.
Front couplers with integrated, automatic transparent dust shutters.

A packing density of up to 192 fibres on 1U can be achieved with this module type.

Article No.	Description	Colour	PU
473541	HD-DCS BO module, 24x LCD/PC, OM4	black	1 pc.
473545	HD-DCS BO module, 24x LCD/PC, OS2	black	1 pc.
473547	HD-DCS BO module, 24x LCD/APC, OS2	black	1 pc.

HD-DCS BO module, 6x MPO
OM4 or OS2, for HD-DCS modular panel

Accepts pre-assembled MTP® trunk cables.
Suitable for all high-density and high-performance applications with parallel optic signals,
particularly in the data centre environment.
Polycarbonate (PC) housing with press-fit cover (sealed).
Insertion into panel from the front.
Rear side entry fitted with a rubber grommet.
Front couplers with translucent dust plugs.

A packing density of 864 fibres (MTP$_{12}$) on 1U can be achieved with this module type.
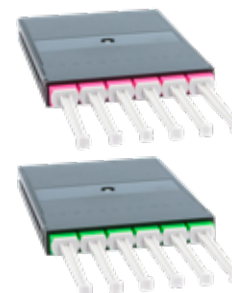
Article No.	Description	Colour	PU
473590	HD-DCS BO module, 6x MPO, OM4	black	1 pc.
473592	HD-DCS BO module, 6x MPO, OS2	black	1 pc.

HD-DCS BO module, 12x MPO
for HD-DCS modular panels, for OM4, OS2

Accepts pre-assembled MTP® trunk cables.
Suitable for all high-density and high-performance applications with parallel optic signals,
particularly in the data centre environment.
Polycarbonate (PC) housing with press-fit cover (sealed).
Insertion into panel from the front and back.
Two rear side entries fitted with rubber grommets.
Front couplers with translucent dust plugs.

A packing density of 576 fibres (MTP$_{12}$) on 1U can be achieved with this module type.

Article No.	Description	Colour	PU
473570	HD-DCS BO module, 12x MPO, OM4	black	1 pc.
473574	HD-DCS BO module, 12x MPO, OS2	black	1 pc.

HD-DCS BO module, 24x MPO
for HD-DCS modular panels, for OM4, OS2

Accepts pre-assembled MTP® trunk cables.
Suitable for all high-density and high-performance applications with parallel optic signals,
particularly in the data centre environment.
Polycarbonate (PC) housing with press-fit cover (sealed).
Insertion into panel from the front and back.
Two rear side entries fitted with rubber grommets.
Front couplers with translucent dust plugs.

A packing density of 1,152 fibres (MTP$_{12}$) on 1U can be achieved with this module type.

Article No.	Description	Colour	PU
473571	HD-DCS BO module, 24x MPO, OM4	black	1 pc.
473575	HD-DCS BO module, 24x MPO, OS2	black	1 pc.

ACCESSORIES

HD-DCS patch cable management set, 0U
4 management elements, detachable label plate

The patch cable management 0U comes in a set of 4 pieces.
Patch cables can be routed easely within the same rack unit
of the modular panal.
No additional rack unit needed for patch cable routing.
An appropriate label plate including label cover is part of the set.
The label plate can be fold down during the patching process
for additional space.

HD-DCS patch cable management set 0U includes
the following preassembled parts:
- 4 cable guides
- 4 label plates
- 4 label plate covers
- 4 paper labels (preprinted)

Application
example

Article No.	Description	Colour	PU
473620	HD-DCS patch cable management set, 0U	black	1 pc.

HD-DCS blind plates
for HD-DCS modular panel

Unused slots of the HD-DCS panel can be covered
by blind plates depending on panel version.
Blind plates for 6-port and 12/24-port module available.

Article No.	Description	Colour	PU
473023	HD-DCS blind plate, 1x6-port	black	1 pc.
473029	HD-DCS blind plate 12/24-port	black	1 pc.

HD-DCS cable fixation base
for HD-DCS modular panel

For mounting installation cables
on the cable tray of the HD-DCS panel.
Velcro tape provides the necessary hold.
The Velcro base is attached without tools by a 45° turn.

Article No.	Description	PU
473043	HD-DCS cable fixation base, 8-35 mm	10 Stk.
473042	HD-DCS cable fixation base, 4-20 mm	10 Stk.

HD-DCS snap-on fixation clip
for HD-DCS modular panel

Fixation clip for the storage of the installation cables.
Excessive cable lengths can thus be optimally guided and deposited.
Easy mounting by sliding it into the HD-DCS cable tray.

Article No.	Description	Colour	PU
473040	HD-DCS snap-on fixation clip, 8 mm	black	1 pc.
473041	HD-DCS snap-on fixation clip, 14 mm	black	1 pc.

Cleaning tools

DATWYLER DATA CENTRE SOLUTION

The future-proof solution
for your data centre cabling

High-performance system solutions in copper, but chiefly in fibre optic technology constitute the backbone of high-speed data transfer in data centres. The ever higher transmission rates not only call for high-quality optical fibres, they also make increasing demands on the connecting components. Both system components are crucial to the efficient performance of transmission channels.

Flexibility is a core requirement for a cabling solution in today's data centre environment. New systems need to be planned, assembled and installed within a very short time. New technologies (like BiDi), new generations of devices (like 25G servers) and new network designs (fabrics) mean that the demands on link performance are continually rising.

Datwyler's Data Centre Solution (DCS) surpasses all the requirements for modern, powerful cabling solutions, its high quality and excellent optical and geometric connector assembly values being of particular note here.

FO-DCS - DATWYLER DATA CENTRE SOLUTION

FUTURE-PROOF CABLING SOLUTION

for data centres

Benefits of the Datwyler Data Centre Solution:

- Top quality guarantees top performance
- High packing densities hand in hand with good clear layout
- Fast and easy assembly (plug-and-go)
- Modifications/installations possible during ongoing operation, no need for outside companies (reduced OPEX)
- Preassembly: no in-situ stripping, splicing or connector termination work necessary
- Slimline cable design, so no disruption to cooling air flow and no redundant lengths of cable in rack
- Scalable thanks to modular design
- Investment protection and future viability as migratable to future applications
- High spare capacity due to extremely low optical losses
- Power budget protection thanks to bend-optimised fibres (multimode)

The most important system components:

- Preassembled fibre optic mini trunks
- Preassembled fibre optic plug-in modules (MTP, Breakout or Splice version)
- Fibre optic fanout cables (100G on 4x 25G, for example)
- Fibre optic patch cables (LCD and MTP)
- Modularly equipped 19-inch 1U panels and 3U/4U subracks
- Patch management trays and cable management accessories

These system components provide high-performance modular solutions for server room and data centre cabling tailored to customer requirements, the outstanding features of which are clear layout, flexibility, high packing density and good handling during operation.

Optical values of the Datwyler Data Centre Solution:

Criterion	Assembly Class	Insertion Loss IL [dB]		Return Loss RL [dB]	
Connector type	IEC 61755-3-2	mean	maximum	mean	minimum
MTP Elite® 0° PC (multimode)	Grade B	0.15	0.3	≥ 40	≥ 35
MTP Elite 8° APC (single-mode)	Grade B	0.1	0.3	≥ 70	≥ 65
LCD Uniboot 0° PC (multimode)	Grade B	0.1	0.25	≥ 40	≥ 35
LCD Uniboot 8° APC (single-mode)	Grade B	0.1	0.25	≥ 75	≥ 65

FIBRE OPTIC CHANNEL CONFIGURATION OPTIONS

The high-performance carefully coordinated cables and components of the Datwyler Data Centre Solution can be combined as required and make it possible to implement an open infrastructure design decoupled from the user's equipment pool. The system also allows simple migration to future applications. The graphics below show some typical configurations. Please see our website for more.

Module-to-module configuration
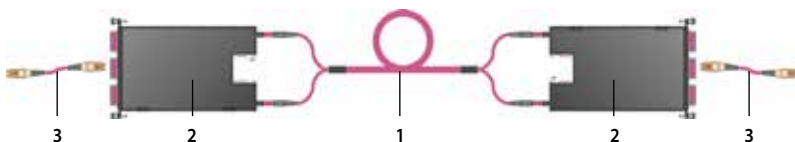
Two FO-DCS plug-in modules are interconnected by a thin mini breakout cable MTP-MTP.
For all known Duplex applications up to 25G Ethernet or up to 32G Fiber Channel.

Part	Level	Description	Remarks
1	High-performance	Mini breakout cable MTP-MTP, type A or type C	12, 24, 48, 72, 96 or 144 fibres
2	High-performance	Plug-in module, 3U/7HP, 24F, 2x MTP on 6x LCQ	24 fibres
3	High-performance	Patch cable LCD-LCD (Uniboot)	Polarity: A to A or A to B

These system components are available in multimode (OM3 or OM4) and single-mode (G.652.D) versions.

MTP® and MTP Elite® are registered brand names of US Conec.

Module-to-module configuration (without MTP)
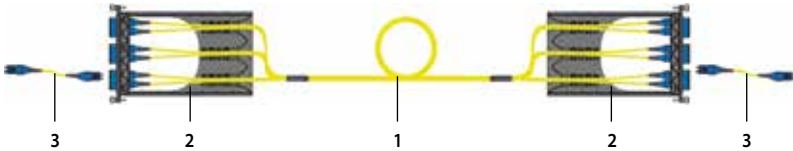
Two FO-DCS splice plug-in modules are interconnected by a thin FO Universal cable with LCD connectors.
For all known Duplex applications up to 25G Ethernet or 16G Fiber Channel.

Part	Level	Description	Remarks
1	High-performance	FO Universal cable U-DQ(ZN)BH (e.g. with LCD)	12, 24, 48, 72, 96 or 144 fibres
2	High-performance	Breakout plug-in module, 3U/7HP, 6x LCQ	Capacity: 24 fibres
3	High-performance	Patch cable LCD-LCD (Uniboot)	Polarity: A to A or A to B

These system components are available in multimode (OM3 or OM4) and single-mode (G.652.D) versions.

Module-to-fanout configuration

One FO-DCS plug-in module is connected to two FO-DCS fanout cables (MTP® on LCD Uni-boot) by a thin FO-DCS mini breakout cable MTP-MTP for a direct link between the active ports (e.g. ports of a SAN switch). For all well-known Duplex applications such as 10G and 25G Ethernet or 16G and 32G Fiber Channel.

Part	Level	Description	Remarks
1	High-performance	Mini Breakout cable MTP-MTP, type A or type C	12, 24, 48, 72, 96 or 144 fibres
2	High-performance	Plug-in module, 3U/7HP, 24F, 2x MTP on 6x LCD	24 fibres
3	High-performance	Patch cable LCD-LCD (Uniboot)	Polarity: A to A or A to B
4		Front plate, 3U/7HP, 2x MTP adapter, type A	also available with 4x or 8x MTP adapter
5	High-performance	Fanout cable, 1x MTP on 6x LCD Uniboot	Polarity: type A or type C

These system components are available in multimode (OM3 or OM4) and single-mode (G.652.D) versions.

Converter plug-in module configuration
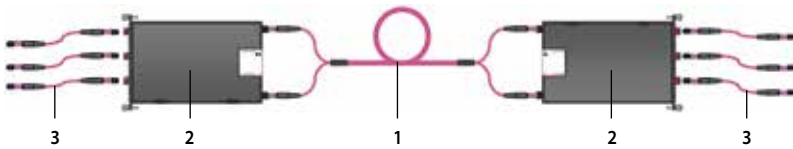
Two FO-DCS converter plug-in modules are interconnected by a FO-DCS mini breakout cable MTP-MTP.
For three 40G, NG100G, PSM4, PLR4 or 64GFC links.
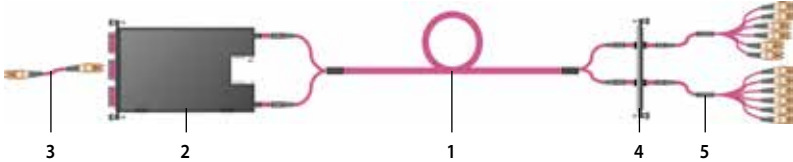
Part	Level	Description	Remarks
1	High-performance	Mini Breakout cable MTP-MTP, type A or type C	12, 24, 48, 72, 96 or 144 fibres
2	High-performance	Converter plug-in module, 3U/7HP, 24F, 2x MTP on 3x MTP	24 fibres (2x 12 on 3x 8 fibres)
3	High-performance	Patch cable MTP-MTP	Polarity: type A, B or C, 12 fibres

These system components are available in multimode (OM4) and single-mode (G.652.D) versions.

Migration to 40G/100G (parallel optics)
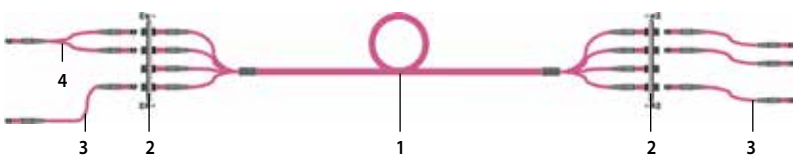
The FO-DCS plug-in modules in subracks are replaced by FO-DCS front plates with MTP adapters.
The high-performance FO-DCS mini-breakout cables MTP-MTP can continue to be used.

Part	Level	Description	Remarks
1	High-performance	Mini Breakout cable MTP-MTP type A or type C	12, 24, 48, 72, 96 or 144 fibres
2		Front plate 3U/7HP 4x MTP adapter, type A	also available with 2x or 8x MTP adapter
3	High-performance	Patch cable MTP-MTP	Polarity: type A, B or C, 12 fibres
4	High-performance	Y patch cable (1x MTP 24F on 2x MTP 12F)	Polarity: type A, B or C, 24 fibres

MTP® is registered brand name of US Conec.

FO-DCS - DATWYLER DATA CENTRE SOLUTION
Subracks and patch panels

SUBRACKS & PATCH PANELS

FO-DCS modular subracks, 19"

Pre-assembled with horizontal guide rails - can be modularly fitted.
Take a maximum of twelve 3U/7HP FO-DCS plug-in modules or front plates.
Capacity: up to 144 Duplex ports (288 fibres) or up to 144 MTP® ports (1728 fibres).
Any mixture of modules / front plates can be installed in the same subrack.
Extractable excess cable length tray (1U) - can be inserted on the fourth rack unit
in two ways, so that optionally the slots or holes can be used as cable entry openings.

Kabelzugentlastungen   Blind-Frontplatten

Article No.	Description	Material / Colour	PU
470542	FO-DCS modular subrack, 19"/4U, 84HP	Aluminium, anodised	1 pc.
470642	FO-DCS modular subrack, 19"/4U, 84HP	Aluminium, black	1 pc.
470648	Strain relief for FO-DCS modular subrack 4U (depth: 48 mm)		1 pc.
470549	Strain relief for FO-DCS modular subrack 4U (depth: 80 mm)		1 pc.
470649	Strain relief for FO-DCS modular subrack 4U, with black brush strip (depth: 48 mm)		1 pc.
470555	FO-DCS blank partial front plate 3U/7HP	Aluminium, anodised	1 pc.
571595	FO-DCS blank partial front plate 3U/7HP	PC, black	1 pc.

FO-DCS modular panels, 19"

Take a maximum of three 3U/7HP FO-DCS plug-in modules or front plates.
Capacity: up to 36 Duplex ports (72 fibres) or up to 36 MTP ports (432 fibres).
Any mixture of modules / front plates can be installed in the same panel.

Article No.	Description	Material / Colour	PU
470543	FO-DCS modular panel, 19"/1U	Aluminium, anodised	1 pc.
470643	FO-DCS modular panel, 19"/1U	Aluminium, black	1 pc.

FO-DCS compact breakout panels, 19"/1U

Pre-assembled with 12 or 24 LC Quad adapters.
Capacity: up to 24 or 48 Duplex ports (48 or 96 fibres).
Sturdy aluminium housing.

Article No.	Description	Material / Colour	PU
470618	FO-DCS compact breakout panel, 19"/1U, 12x LCQ, OM3 turquoise	Aluminium, anodised	1 pc.
470619	FO-DCS compact breakout panel, 19"/1U, 12x LCQ, OM4 heather violet	Aluminium, anodised	1 pc
470620	FO-DCS compact breakout panel, 19"/1U, 12x LCQ, OS2 blue	Aluminium, anodised	1 pc
470621	FO-DCS compact breakout panel, 19"/1U, 12x LCQ, OS2 green	Aluminium, anodised	1 pc
470622	FO-DCS compact breakout panel, 19"/1U, 24x LCQ, OM3 turquoise	Aluminium, anodised	1 pc
470623	FO-DCS compact breakout panel, 19"/1U, 24x LCQ, OM4 heather violet	Aluminium, anodised	1 pc
470624	FO-DCS compact breakout panel, 19"/1U, 24x LCQ, OS2 blue	Aluminium, anodised	1 pc
470625	FO-DCS compact breakout panel, 19"/1U, 24x LCQ, OS2 green	Aluminium, anodised	1 pc

Variants in Aluminium black available on request.

FO-DCS compact panels, 19"/1U, with MTP®-LCD pre-assembly

Pre-assembled with 4 or 8 MTP® couplers (Type A: key-up/key-down) at rear side, MTP-on-LC fanouts, and 12 or 24 LC Quad adapters at front side.
Capacity: 24 or 48 Duplex ports (48 or 96 fibres).
Top-quality assembly ensures optimum values for optical performance.
Sturdy aluminium housing.

Article No.	Description	Material / Colour	PU
470610	FO-DCS compact panel, 19"/1U, 4x MTP on 24x LCD, OS2 blue	Aluminium, anodised	1 pc.
470611	FO-DCS compact panel, 19"/1U, 4x MTP on 24x LCD-APC, OS2 green	Aluminium, anodised	1 pc.
470612	FO-DCS compact panel, 19"/1U, 4x MTP on 24x LCD, OM3 turquoise	Aluminium, anodised	1 pc.
470613	FO-DCS compact panel, 19"/1U, 4x MTP on 24x LCD, OM4 heather violet	Aluminium, anodised	1 pc.
470614	FO-DCS compact panel, 19"/1U, 8x MTP on 48x LCD, OS2 blue	Aluminium, anodised	1 pc.
470615	FO-DCS compact panel, 19"/1U, 8x MTP on 48x LCD-APC, OS2 green	Aluminium, anodised	1 pc.
470616	FO-DCS compact panel, 19"/1U, 8x MTP on 48x LCD, OM3 turquoise	Aluminium, anodised	1 pc.
470617	FO-DCS compact panel, 19"/1U, 8x MTP on 48x LCD, OM4 heather violet	Aluminium, anodised	1 pc.

Variants in Aluminium black available on request.

MTP® is a registered brand name of US Conec.

FO-DCS management panel, 19"/1U

The FO-DCS management panel is used for the proper routing of fibre optic patch cables in all 19" IT racks and cabinets.
19"/1U FO-DCS management panel with 6 cable routing elements and hinged front plate.

Article No.	Description	Material / Colour	PU
470698	FO-DCS management panel, 19"/1U, left/right-side routing	Alu, black	1 pc.

MTP® is registered brand name of US Conec.

CASSETTES AND FRONT PANELS

FO-DCS MTP® plug-in modules, 24F and 12F, 3U/7HP

Polycarbonate (PC) housing with press-fit side panels (sealed).
3U/7HP front panel, black PC,
provides 6x LCQ or 6x LCD or 6x LSH-C.
MTP couplers (rear side) are routed to the front couplers
by way of an internal fanout.
Integrated fibre management.
PC front panels provide labelling strips on both sides.

Article No. with black PC front panel	Description	PU
57150000ZY	FO-DCS 3U/7HP plug-in module, 2x MTP on 6x LCQ, OM3	1 pc.
57150100ZY	FO-DCS 3U/7HP plug-in module, 2x MTP on 6x LCQ, OM4	1 pc.
57150200ZY	FO-DCS 3U/7HP plug-in module, 2x MTP on 6x LCQ/PC, OS2 (G.652.D)	1 pc.
57150300ZY	FO-DCS 3U/7HP plug-in module 2x MTP on 6x LCQ/APC, OS2 (G.652.D)	1 pc.
57150600ZY	FO-DCS 3U/7HP plug-in module, 1x MTP on 6x LCD, OM3	1 pc.
57150700ZY	FO-DCS 3U/7HP plug-in module, 1x MTP on 6x LCD, OM4	1 pc.
57150800ZY	FO-DCS 3U/7HP plug-in module, 1x MTP on 6x LCD/PC, OS2 (G.652.D)	1 pc.
57150900ZY	FO-DCS 3U/7HP plug-in module, 1x MTP on 6x LCD/APC, OS2 (G.652.D)	1 pc.
57150500ZY	FO-DCS 3U/7HP plug-in module, 1x MTP on 6x LSH-C/APC, OS2 (G.652.D)	1 pc.
571599	Labelling sheet A4, perforated (blank)	10 pcs.

MTP® is a registered brand name of US Conec.

FO-DCS breakout plug-in modules, 3U/7HP

Open polycarbonate (PC) housing.
3U/7HP front panel, black PC, with 6x LCQ, 6x LCD or 6x LSH-C,
optional: with 6x MTP® or 6x MTPD, type A.
Integrated radius limiters and retaining clips for
pre-assembled fibre optic cables.
Two integrated labelling strips.

Article No. with 6x LCD	Article No. with 6x LCQ	Description	PU
57157600ZY	57157000ZY	FO-DCS BO plug-in module, 3U/7HP, 6x LCD or 6x LCQ, turquoise	1 pc.
57157700ZY	57157100ZY	FO-DCS BO plug-in module, 3U/7HP, 6x LCD or 6x LCQ, heather violet	1 pc.
57157800ZY	57157200ZY	FO-DCS BO plug-in module, 3U/7HP, 6x LCD or 6x LCQ, blue	1 pc.
57157900ZY	57157300ZY	FO-DCS BO plug-in module, 3U/7HP, 6x LCD or 6x LCQ, green	1 pc.
with 6x LSH-C			
57157500ZY		FO-DCS BO plug-in module, 3U/7HP, 6x LSH-C/APC, green	1 pc.
with 6x MTP	with 6x MTPD		
57159000ZY	57158000ZY	FO-DCS BO plug-in module, 3U/7HP, 6x MTP or 6x MTPD, turquoise	1 pc.
57159100ZY	57158100ZY	FO-DCS BO plug-in module, 3U/7HP, 6x MTP or 6x MTPD, heather violet	1 pc.
57159200ZY	57158200ZY	FO-DCS BO plug-in module, 3U/7HP, 6x MTP or 6x MTPD, black	1 pc.
57159300ZY	57158300ZY	FO-DCS BO plug-in module, 3U/7HP, 6x MTP or 6x MTPD, green	1 pc.
571599		Labelling sheet A4, perforated (blank)	10 pcs.

MTP® is a registered brand name of US Conec.

FO-DCS converter plug-in modules, 3U/7HP

Polycarbonate (PC) housing with press-fit side panels (sealed).
3U/7HP front plate, black PC, provides 3x MTP_8 Type A / 6x LCQ (speed converter).
2x MTP_{12} adapters (rear side).

Article No.	Description	PU
with black PC front panel		
571520	FO-DCS converter plug-in module, 3U/7HP, 2xMTP on 3x MTP, OM3	1 pc.
571521	FO-DCS converter plug-in module, 3U/7HP, 2xMTP on 3x MTP, OM4	1 pc.
571522	FO-DCS converter plug-in module, 3U/7HP, 2xMTP on 3x MTP, OS2	1 pc.
571540	FO-DCS speed converter plug-in module, 3U/7HP, 2x MTP on 6x LCQ, OM3	1 pc.
571541	FO-DCS speed converter plug-in module, 3U/7HP, 2x MTP on 6x LCQ, OM4	1 pc.
571542	FO-DCS speed converter plug-in module, 3U/7HP, 2x MTP on 6x LCQ/PC, OS2	1 pc.
571543	FO-DCS speed converter plug-in module, 3U/7HP, 2x MTP on 6x LCQ/APC, OS2	1 pc.

FO-DCS splice plug-in modules, 3U/7HP

Polycarbonate (PC) housing, press-fit side panels (sealed).
Black PC or aluminium 3U/7HP front panel with 6x LCQ or 6x LCD.
Ready-to-splice pigtails (1.3 m) are neatly inserted.
Cassette has splice reserve on both sides (cable/pigtail),
splice comb and strain relief.
Black PC front panels provide labelling strips.

There is a separate distribution box available for multi-fibre loose tube cables
or for storing the excess tube lengths (see our website for more information).

Article No.	Description	PU
with black PC front panel		
57153000ZY	FO-DCS 3U/7HP splice plug-in module, 6x LCQ, OM3	1 pc.
57153100ZY	FO-DCS 3U/7HP splice plug-in module, 6x LCQ, OM4	1 pc.
57153200ZY	FO-DCS 3U/7HP splice plug-in module, 6x LCQ/PC, OS2 (G.652.D)	1 pc.
57153300ZY	FO-DCS 3U/7HP splice plug-in module, 6x LCQ/APC, OS2 (G.652.D)	1 pc.
57153600ZY	FO-DCS 3U/7HP splice plug-in module, 6x LCD, OM3	1 pc.
57153700ZY	FO-DCS 3U/7HP splice plug-in module, 6x LCD, OM4	1 pc.
57153800ZY	FO-DCS 3U/7HP splice plug-in module, 6x LCD/PC, OS2 (G.652.D)	1 pc.
57153900ZY	FO-DCS 3U/7HP splice plug-in module, 6x LCD/APC, OS2 (G.652.D)	1 pc.
571599	Labelling sheet A4, perforated (blank)	10 pcs.

FO-DCS MTP® front panels, 3U/7HP

Polycarbonate (PC) front panel with 2, 4 or 8 MTP adapters (with dust caps).
Black PC front panels provide labelling strips on both sides.

Article No.	Description		PU
black PC			
571550	FO-DCS front panel, 2x MTP, 3U/7HP	2x MTP type A turquoise	1 pc.
571551	FO-DCS front panel, 2x MTP, 3U/7HP	2x MTP type A magenta	1 pc.
571552	FO-DCS front panel, 2x MTP, 3U/7HP	2x MTP type A black	1 pc.
571556	FO-DCS front panel, 4x MTP, 3U/7HP	4x MTP type A turquoise	1 pc.
571557	FO-DCS front panel, 4x MTP, 3U/7HP	4x MTP type A magenta	1 pc.
571558	FO-DCS front panel, 4x MTP, 3U/7HP	4x MTP type A black	1 pc.
571560	FO-DCS front panel, 8x MTP, 3U/7HP	8x MTP type A turquoise	1 pc.
571561	FO-DCS front panel, 8x MTP, 3U/7HP	8x MTP type A magenta	1 pc.
571562	FO-DCS front panel, 8x MTP, 3U/7HP	8x MTP type A black	1 pc.
571599	Labelling sheet A4, perforated (blank)		10 pcs.

MTP® is a registered brand name of US Conec.

CU-DCS plug-in modules for 6 RJ45 Keystone modules

For the insertion of up to 6 RJ45 modules .
Delivery without modules.

Enables data transmission via copper and fibre optics in parallel in
- FO-DCS modular panel, 19"/1U
- FO-DCS modular subrack, 19"/4U

suitable for the following modules:
- MS-K, MS-K Plus
- KS-T, KS-T Plus, KS-TC Plus
- KU-T, KU-T Plus, KU-TC Plus
- GG45

Plug-in module for
6 RJ45 Keystone modules

Article No.	Description	Material/colour	PU
440046	Plug-in module for 6x RJ45 module Keystone (without modules)	stainless steel, blank	1 pc.
440055	Plug-in module for 6x RJ45 module Keystone (without modules)	black	1 pc.

CLEANING TOOLS

The cleanliness of high-quality FO connectors is critical for satisfactory optical performance and long-term trouble-free transmission. Connectors that are dirty, worn or scratched due to improper use will have a negative effect on optical performance because the Insertion Loss (IL) increases whilst the Return Loss (RL) falls.

All FO-related cabling standards point out that professional cleaning tools are necessary to ensure successful acceptance tests and trouble-free patching.

For professional cleaning of FO connectors (e.g. MPO/MTP®) the equipment as featured in Datwyler´s FO accessories portfolio is particularly suitable.
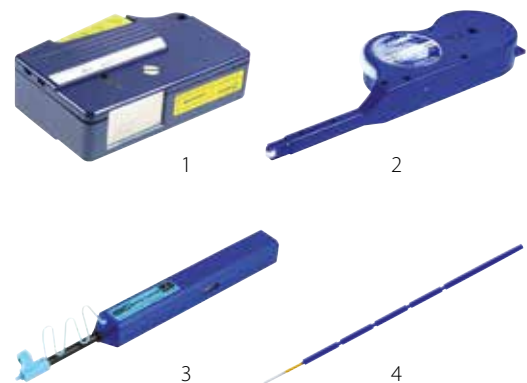
Article No.	Fig.	Description	Items cleaned / method	PU
1411400	1	Reel Cleaner	FO connector	1 pc.
1411401	-	Replacement reels for Reel Cleaner		6 pcs.
415627	2	FO connector cleaning device for MPO/MTP	FO connector and through adapter	1 pc.
415628	3	FO connector cleaning device for 2.5 mm	FO connector and through adapter	1 pc.
415629	-	FO connector cleaning device for 1.25 mm	FO connector and through adapter	1 pc.
1411404	4	Cleaning rod for 2.5 mm	Sleeve in connector	10 pcs.
1411405	-	Cleaning rod for 1.25 mm	Sleeve in connector	10 pcs.

MTP® is a registered brand name of US Conec.

INSTALLATION CABLE

DCS breakout cables, MTP
12-144 fibres, OM4, OM3 or OS2

Compact, metal-free cable construction
with FR/LSZH cable sheath and 12 to 144 fibres.
OM4, OM3 or OS2 versions with
Euroclass D_{ca} (C_{ca} or $B2_{ca}$ available on request).
Sticker labelling at both cable ends.
Project-specific length of individual cables ("legs"):
standard 0.55 m, max. 4.0 m.
Individual cables are assembled using MTP® connectors
with high-performance 12-fibre
Elite® ferrules (MTP_8/MTP_{24} available on request).
Push-pull tabs included.
Standard connectivity methods: type A or C (other types available on request).
Cables fitted with protective sleeves at both ends.

Article No. type A	Article No. type C	Description	Fibre type	Cable sheath colour	PU
475000	475010	DCS breakout cable 1x MTP - 1x MTP	OM4	heather violet	by the metre
475001	475011	DCS breakout cable 2x MTP - 2x MTP	OM4	heather violet	by the metre
475002	475012	DCS breakout cable 4x MTP - 4x MTP	OM4	heather violet	by the metre
475004	475014	DCS breakout cable 8x MTP - 8x MTP	OM4	heather violet	by the metre
475005	475015	DCS breakout cable 12x MTP - 12x MTP	OM4	heather violet	by the metre
475060	475070	DCS breakout cable 1x MTP - 1x MTP	OM3	turquoise	by the metre
475061	475071	DCS breakout cable 2x MTP - 2x MTP	OM3	turquoise	by the metre
475062	475072	DCS breakout cable 4x MTP - 4x MTP	OM3	turquoise	by the metre
475064	475074	DCS breakout cable 8x MTP - 8x MTP	OM3	turquoise	by the metre
475065	475075	DCS breakout cable 12x MTP - 12x MTP	OM3	turquoise	by the metre
475040	475050	DCS breakout cable 1x MTP - 1x MTP	OS2	yellow	by the metre
475041	475051	DCS breakout cable 2x MTP - 2x MTP	OS2	yellow	by the metre
475042	475052	DCS breakout cable 4x MTP - 4x MTP	OS2	yellow	by the metre
475044	475054	DCS breakout cable 8x MTP - 8x MTP	OS2	yellow	by the metre
475045	475055	DCS breakout cable 12x MTP - 12x MTP	OS2	yellow	by the metre

MTP® and MTP Elite® are registered brands of US Conec.

DCS trunk cable, MTP
12-144 fibres, OM4, OM3 or OS2

Compact, metal-free cable construction
with FR/LS0H cable sheath and 12 to 144 fibres.
OM4, OM3 or OS2 versions with Euroclass D_{ca} are available
(Euroclass C_{ca} or $B2_{ca}$ version available on request).
Sticker labelling at both cable ends.
The length of individual cables ("legs") may be defined
on the basis of a specific project (standard 0.75 m).
Individual cables are assembled using MTP® connectors
with high-performance 12-fibre
Elite® ferrules (MTP_8/MTP_{24} available on request).
Standard polarities are A and C (other versions on request).
The cables are fitted at both ends with protective sleeves.

Article No. type A	Article No. type C	Description	Fibre type	Cable sheath colour	PU
474000	474010	DCS trunk cable 1x MTP - 1x MTP, 12F	OM4	heather violet	by the metre
474001	474011	DCS trunk cable 2x MTP - 2x MTP, 24F	OM4	heather violet	by the metre
474002	474012	DCS trunk cable 4x MTP - 4x MTP, 48F	OM4	heather violet	by the metre
474004	474014	DCS trunk cable 8x MTP - 8x MTP, 96F	OM4	heather violet	by the metre
474005	474015	DCS trunk cable 12x MTP - 12x MTP, 144F	OM4	heather violet	by the metre
474070	474080	DCS trunk cable 1x MTP - 1x MTP, 12F	OM3	turquoise	by the metre
474071	474081	DCS trunk cable 2x MTP - 2x MTP, 24F	OM3	turquoise	by the metre
474072	474082	DCS trunk cable 4x MTP - 4x MTP, 48F	OM3	turquoise	by the metre
474074	474084	DCS trunk cable 8x MTP - 8x MTP, 96F	OM3	turquoise	by the metre
474075	474085	DCS trunk cable 12x MTP - 12x MTP, 144F	OM3	turquoise	by the metre
474040	474050	DCS trunk cable 1x MTP - 1x MTP, 12F	OS2	yellow	by the metre
474041	474051	DCS trunk cable 2x MTP - 2x MTP, 24F	OS2	yellow	by the metre
474042	474052	DCS trunk cable 4x MTP - 4x MTP, 48F	OS2	yellow	by the metre
474044	474054	DCS trunk cable 8x MTP - 8x MTP, 96F	OS2	yellow	by the metre
474045	474055	DCS trunk cable 12x MTP - 12x MTP, 144F	OS2	yellow	by the metre

MTP® and MTP Elite® are registered brands of US Conec.

DCS Trunk cable, LCDU
12-96 fibres, OM4, OM3 or OS2

Compact, metal-free cable construction with FR/LS0H
cable sheath and 12 to 96 fibres.
OM4 versions with Euroclass D_{ca} are available
(Euroclass C_{ca} or $B2_{ca}$ version available on request).
Sticker labelling at both cable ends.
The length of individual cables ("legs") may be defined on the basis
of a specific project (standard: 0.75 m).
The leg separation is effected with a divider housing.
All individual cables are assembled using LCDU Intelli-Cross® Pro.
Standard polarities are A to A or A to B.
The cables are fitted at both ends with protective sleeves.

Article No. type A to A	Article No. type A to B	Description	Sheath colour	PU
47406000ZY	47409000ZY	DCS trunk cable 6x LCDU/PC - 6x LCDU/PC	heather violet	by the metre
47406200ZY	47409200ZY	DCS trunk cable 12x LCDU/PC - 12x LCDU/PC	heather violet	by the metre
47406400ZY	47409400ZY	DCS trunk cable24x LCDU/PC - 24x LCDU/PC	heather violet	by the metre
47406600ZY	47409600ZY	DCS trunk cable 48x LCDU/PC - 48x LCDU/PC	heather violet	by the metre
47406100ZY	47409100ZY	DCS trunk cable 6x LCDU/PC - 6x LCDU/PC	yellow	by the metre
47406300ZY	47409300ZY	DCS trunk cable 12x LCDU/PC - 12x LCDU/PC	yellow	by the metre
47406500ZY	47409500ZY	DCS trunk cable 24x LCDU/PC - 24x LCDU/PC	yellow	by the metre
47406700ZY	47409700ZY	DCS trunk cable 48x LCDU/PC - 48x LCDU/PC	yellow	by the metre

PATCH AND FANOUT CABLE

DCS fanout cables, MTP®-LCDU
8 fibres, OM4, OM3 or OS2
for splitting 100G into 4x 25G or 40G into 4x 10G

Thin, very flexible fibre-optic fanout cable (round cable, Ø 2.0 mm) with 8 fibres.
Low fire load due to its halogen-free flame-retardant LS0H sheath.
Available with 2.5 m standard length (other lengths on request).
Standard connectivity method can be type A or type C.
Sticker labelling at both cable ends.
Breakout seperation is effected with a thin divider housing.
The legs (Ø 2.0 mm) with LCD Uniboot (LCDU) plugs are numbered (1-4).
The legs can be ordered graded in length or of equal length.
Project-specific assemblies are available on request.
Suitable for all high-performance applications in the data centre environment.
Assembled to a very high quality which guarantees optimum values for optical performance (IL/RL).

For splitting all known multimode and single-mode QSFP applications like SR4, PSM4,
PLR4 and FCp in four Duplex channels; the connectivity separates a four-channel parallel optics link
in four Duplex links.

Article No. type A	Article No. type C	Description	Fibre type	Cable sheath colour	PU
473750	473755	DCS fanout cable 1x MTP - 4x LCDU, equal length	OM4	heather violet	1 pc.
473751	473756	DCS fanout cable 1x MTP - 4x LCDU, graduated length	OM4	heather violet	1 pc.
473780	473785	DCS fanout cable 1x MTP - 4x LCDU, equal length	OM3	turquoise	1 pc.
473781	473786	DCS fanout cable 1x MTP - 4x LCDU, graduated length	OM3	turquoise	1 pc.
473770	473775	DCS fanout cable 1x MTP - 4x LCDU, equal length	OS2	yellow	1 pc.
473771	473776	DCS fanout cable 1x MTP - 4x LCDU, graduated length	OS2	yellow	1 pc.

MTP® is a registered brand of US Conec.

DCS fanout cables, MTP®-LCDU
12 fibres, OM4, OM3 or OS2
for connecting active components

Thin, very flexible fibre-optic fanout cable (round cable, Ø 2.0 mm) with 12 fibres.
Low fire load due to its halogen-free flame-retardant LS0H sheath.
OM4 versions are available with 2.5 m standard length (other lengths on request).
Standard connectivity method can be type A or type C.
Sticker labelling at both cable ends.
Breakout seperation is effected with a thin divider housing.
The legs (Ø 2.0 mm) with LCD Uniboot (LCDU) plugs are numbered (1-6).
The legs can be ordered graded in length or of equal length.
Project-specific assemblies are available on request.
Assembled to a very high quality which guarantees optimum values
for optical performance (IL/RL).

The connection between six duplex ports and one parallel optic port enables quick
and space-saving cabling of active components such as routers, switches, servers and storage systems.

Article No. type A	Article No. type C	Description	Fibre type	Cable sheath colour	PU
473700	473705	DCS fanout cable 1x MTP - 6x LCDU, equal length	OM4	heather violet	1 pc.
473701	473706	DCS fanout cable 1x MTP - 6x LCDU, graduated length	OM4	heather violet	1 pc.
473730	473735	DCS Fanout-Kabel 1x MTP - 6x LCDU, equal length	OM3	turquoise	1 pc.
473731	473736	DCS Fanout-Kabel 1x MTP - 6x LCDU, graduated length	OM3	turquoise	1 pc.
473720	473725	DCS fanout cable 1x MTP - 6x LCDU, equal length	OS2	yellow	1 pc.
473721	473726	DCS fanout cable 1x MTP - 6x LCDU, graduated length	OS2	yellow	1 pc.

MTP® is a registered brand of US Conec.

DCS patch cords, LCDU
OM4, OM3 and OS2

Round Uniboot patch cables with Intelli-Cross mechanism for fast polarity change.
Compact cable design with FR/LSZH cable sheath (2.1 mm) and 2 fibres.
Available in lengths up to 10 m (other lengths on request).
Connectivity A to A or A to B.
Sticker labelling at both cable ends.
Suitable for all high-performance applications with duplex
signals in the data centre environment.
Preassembled with LCD Uniboot Intelli-Cross connectors
(high-performance) at both ends.
Assembled to a very high quality which guarantees
optimum values for optical performance (IL/RL).

Description	Colour	Type	Length in m / Article No.									
DCS patch cord LCD/PC - LCD/PC	sheath		1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m
G50/125 OM4	heather violet	A zu B	47340000ZY	47340100ZY	47340200ZY	47340300ZY	47340400ZY	47340500ZY	47340600ZY	47340700ZY	47340800ZY	47340900ZY
G50/125 OM4	heather violet	A zu A	47342000ZY	47342100ZY	47342200ZY	47342300ZY	47342400ZY	47342500ZY	47342600ZY	47342700ZY	47342800ZY	47342900ZY
DCS patch cord, LCDU/PC - LCDU/PC												
G50/125 OM3	turquoise	A zu B	47540000ZY	47540100ZY	47540200ZY	47540300ZY	47540400ZY	47540500ZY	47540600ZY	47540700ZY	47540800ZY	47540900ZY
G50/125 OM3	turquoise	A zu A	47542000ZY	47542100ZY	47542200ZY	47542300ZY	47542400ZY	47542500ZY	47542600ZY	47542700ZY	47542800ZY	47542900ZY
DCS patch cord, LCD/PC - LCD/PC												
E9/125 G.652.D (BLO)	yellow	A zu B	47330000ZY	47330100ZY	47330200ZY	47330300ZY	47330400ZY	47330500ZY	47330600ZY	47330700ZY	47330800ZY	47330900ZY
E9/125 G.652.D (BLO)	yellow	A zu A	47332000ZY	47332100ZY	47332200ZY	47332300ZY	47332400ZY	47332500ZY	47332600ZY	47332700ZY	47332800ZY	47332900ZY
DCS patch cord, LCD/APC - LCD/APC												
E9/125 G.652.D (BLO)	yellow	A zu B	47334000ZY	47334100ZY	47334200ZY	47334300ZY	47334400ZY	47334500ZY	47334600ZY	47334700ZY	47334800ZY	47334900ZY
E9/125 G.652.D (BLO)	yellow	A zu A	47336000ZY	47336100ZY	47336200ZY	47336300ZY	47336400ZY	47336500ZY	47336600ZY	47336700ZY	47336800ZY	47336900ZY
DCS patch cord, LCD/PC - LCD/APC												
E9/125 G.652.D (BLO)	yellow	A zu B	47338000ZY	47338100ZY	47338200ZY	47338300ZY	47338400ZY	-	-	-	-	-
E9/125 G.652.D (BLO)	yellow	A zu A	47339000ZY	47339100ZY	47339200ZY	47339300ZY	47339400ZY	-	-	-	-	-

DCS patch cords, MTP®
OM4, OM3 or OS2

Thin, very flexible fibre-optic patch cable (round, Ø 2.0 mm) with 12 fibres.
Low fire load due to halogen-free flame-retardant LSZH sheath.
Available in lengths up to 5 m (other lengths on request).
Standard polarisation modes: A, B or C.
Sticker labelling at both cable ends.
Suitable for all high-performance applications with parallel optic signals in the data centre environment.
Pre-assembled with high-performance MTP connectors (female) at both ends.
Assembled to a very high quality which guarantees optimum values for optical performance (IL/RL).
Comes with push-pull tabs.

Description	Colour	Connectivity	Length in m / Article No.				
DCS patch cord MTP - MTP	sheath		1 m	2 m	3 m	4 m	5 m
G50/125 OM4	heather violet	A	473200	473201	473202	473203	473204
G50/125 OM4	heather violet	B	473210	473211	473212	473213	473214
G50/125 OM4	heather violet	C	473220	473221	473222	473223	473224
G50/125 OM3	turquoise	A	475200	475201	475202	475203	475204
G50/125 OM3	turquoise	B	475210	475211	475212	475213	475214
G50/125 OM3	turquoise	C	475220	475221	475222	475223	475224
E9/125 G.652.D (BLO)	yellow	A	473260	473261	473262	473263	473264
E9/125 G.652.D (BLO)	yellow	B	473270	473271	473272	473273	473274
E9/125 G.652.D (BLO)	yellow	C	473280	473281	473282	473283	473284

MTP® is a registered brand of US Conec.

DCS fanout cable, MTP®-LCDU
12 fibres, OM4 or OS2
for connecting active components

Thin, very flexible fibre-optic fanout cable (round cable, Ø 2.0 mm) with 12 fibres.
Low fire load due to its halogen-free flame-retardant LS0H sheath.
OM4 versions are available with 2.5 m standard length (other lengths on request).
Standard connectivity method can be type A or type C.
Sticker labelling at both cable ends.
Breakout seperation is effected with a thin divider housing.
The legs (Ø 2.0 mm) with LCD Uniboot (LCDU) plugs are numbered (1-6).
The legs can be ordered graded in length or of equal length.
Project-specific assemblies are available on request.
Assembled to a very high quality which guarantees optimum values
for optical performance (IL/RL).

The connection between six duplex ports and one parallel optic port enables
quick and space-saving cabling of active components such as routers,
switches, servers and storage systems

Article No. type A	Article No. type C	Description	Fibre type	Cable sheath colour	PU
473700	473705	DCS fanout cable 1x MTP - 6x LCDU, equal length	OM4	heather violet	1 pc.
473701	473706	DCS fanout cable 1x MTP - 6x LCDU, graduated length	OM4	heather violet	1 pc.
473720	473725	DCS fanout cable 1x MTP - 6x LCDU, equal length	OS2	yellow	1 pc.
473721	473726	DCS fanout cable 1x MTP - 6x LCDU, graduated length	OS2	yellow	1 pc.

MTP® is a registered brand of US Conec.

DCS patch cable CS/PC - LCDU/PC
G50/125 OM4
High-performance

Patch cable with CS® and LCDU connector with
Intelli-Cross® mechanism for fast polarity change.
Compact cable design with FR/LS0H cable sheath (Ø 2.0 mm) and 2 fibres.
Available in standard lengths up to 5 m. Other lengths available on request.
Sticker labelling at both cable ends.
Each connector is equipped with push-pull tab.

The CS to LCDU patch cables are suitable for all high-performance
applications with duplex signals in the data centre environment.
The round patch cables are assembled with SC and
LCD Uniboot Intelli-Cross Pro connectors (high-performance).
The patch cables are assembled to a very high quality and
guarantee optimum values for optical performance (IL/RL).

Article No.	Product	Length	Polarity	Weight	PU
42302000ZY	DCS patch cable CS/PC - LCDU/PC	1 m	A to B	0.02 kg	1 pc.
42302100ZY	DCS patch cable CS/PC - LCDU/PC	2 m	A to B	0.03 kg	1 pc.
42302200ZY	DCS patch cable CS/PC - LCDU/PC	3 m	A to B	0.04 kg	1 pc.
42302300ZY	DCS patch cable CS/PC - LCDU/PC	4 m	A to B	0.06 kg	1 pc.
42302400ZY	DCS patch cable CS/PC - LCDU/PC	5 m	A to B	0.07 kg	1 pc.

CS® is a registered brand of Senko Advance Co., Ltd.

Intelli-Cross® is a registered trademark of Seikoh Giken Co., Ltd.

DCS patch cable MDC/PC - LCDU/PC
E9/125 G.652.D BLO
High-performance

Duplex patch cable with MDC® and LCDU connector
with Intelli-Cross® mechanism for fast polarity change.
Compact cable design with FR/LS0H cable sheath (Ø 2.0 mm) and 2 fibres.
Available in standard lengths up to 5 m. Other lengths available on request.
Sticker labelling at both cable ends.
Each connector is equipped with push-pull tabs.

The MDC to LCDU patch cables are suitable for all high-performance
applications with duplex signals in the data center environment.
The round patch cables are assembled with MDC and
LCD Uniboot Intelli-Cross Pro connectors (high-performance).
The patch cables are assembled to a very high quality and
guarantee optimum values for optical performance (IL/RL).

Article No.	Product	Length	Polarity	Weight	PU
42301000ZY	DCS patch cable MDC/PC - LCDU/PC	1 m	A to B	0.02 kg	1 pc.
42301100ZY	DCS patch cable MDC/PC - LCDU/PC	2 m	A to B	0.03 kg	1 pc.
42301200ZY	DCS patch cable MDC/PC - LCDU/PC	3 m	A to B	0.04 kg	1 pc.
42301300ZY	DCS patch cable MDC/PC - LCDU/PC	4 m	A to B	0.06 kg	1 pc.
42301400ZY	DCS patch cable MDC/PC - LCDU/PC	5 m	A to B	0.07 kg	1 pc.

MDC® is a registered trademark of US Conec.Intelli-Cross® is a registered trademark of SEIKOH GIKEN Co., Ltd.

DCS patch cable SN/PC - LCDU/PC
E9/125 G.652.D BLO
High-performance

Duplex patch cable with SN® and LCDU connector with Intelli-Cross®
mechanism for fast polarity change.
Compact cable design with FR/LS0H cable sheath (Ø 2.0 mm) and 2 fibres.
Available in standard lengths up to 5 m. Other lengths available on request.
Sticker labelling at both cable ends.
Each connector is equipped with push-pull tabs.

The SN to LCDU patch cables are suitable for all high-performance
applications with duplex signals in the data center environment.
The round patch cables are assembled with SN and
LCD Uniboot Intelli-Cross Pro connectors (high-performance).
The patch cables are assembled to a very high quality and guarantee
optimum values for optical performance (IL/RL).

Article No.	Product	Length	Polarity	Weight	PU
42299000ZY	DCS patch cable SN/PC - LCDU/PC	1 m	A to B	0.02 kg	1 pc.
42299100ZY	DCS patch cable SN/PC - LCDU/PC	2 m	A to B	0.03 kg	1 pc.
42299200ZY	DCS patch cable SN/PC - LCDU/PC	3 m	A to B	0.04 kg	1 pc.
42299300ZY	DCS patch cable SN/PC - LCDU/PC	4 m	A to B	0.06 kg	1 pc.
42299400ZY	DCS patch cable SN/PC - LCDU/PC	5 m	A to B	0.07 kg	1 pc.

SN® is a registered brand of Senko Advance Co.,Ltd.

Intelli-Cross® is a registered brand of Seikoh Giken Co., Ltd.

IT RACKS AND ACCESSORIES

Solutions for every requirement

A well-chosen rack or cabinet will not only look good, but will add security, increase the lifespan of your devices and also make it easier to maintain the equipment inside, so saving you money and time.

The Datwyler IT racks are as varied as the requirements of our customers. The range includes Standard and Premium racks as well as wall-mounted racks of various sizes, dimensions and configurations. The racks can be adapted to the intended configuration, the relevant cooling concepts, the cabling and/or your safety requirements.

Our wide range of rack accessories includes fans, lighting, earthing and equipotential bonding sets, PDUs, cable management kits, shelves, faceplates and individual doors to coordinate with the cabinets, as well as a lot more besides.

Type	Server Rack		Network Rack		Network Rack	Wall Mount Rack
	Standard	Premium	Standard	Premium	Standard Flex	Premium
Front door	perforated / two-piece perforated / with safety glass / two-piece with safety glass / sheet steel					with safety glass
Back door	perforated / two-piece perforated / sheet steel / two-piece sheet steel / sheet steel panel					sheet steel panel
Lock type	1 point / 3 point					1 point
Max. load capacity	1000 kg	1500 kg	800 kg		800 kg	30 to 40 kg
Height	42 or 48 U		21, 27, 42, 48 U	27, 42, 48 U	42 U	6, 9, 12, 15 or 18 U

DATWYLER

IT RACKS AND ACCESSORIES

Datwyler offer a wide range of racks and cabinets. Below is a selection from our product range.
In order to find the ideal solution for your installation, please contact us. Our local sales office will be pleased to assist you.

SERVER RACKS

Server Racks Premium DSRP
19"/42U and 48U

with perforated doors

Application

The Datwyler Server Racks Premium DSRP are heavy-duty cabinets with fully welded frames especially designed for data centres, server rooms and comms rooms. Its load capacity of up to 1500 kg makes it possible to install even heavy equipment within a footprint of a standard rack.

Server Rack Premium DSRP,
42U, 600 x 1200 mm

Features

Size:	Height: 42U and 48U
	Width: 600 mm or 800mm
	Depth: 1000 or 1200 mm
Construction:	Welded sheet steel frame (2.0 mm, partially 1.5 mm)
Load capacity:	1500 kg, balanced on 19-inch vertical profiles
19 inch profiles:	2 pairs of 19-inch vertical profiles, 600 mm, front / rear, stepless depth adjustment from inside, with U label
IP rating:	IP20
Colour:	Black or light grey
Front / rear doors:	One-piece perforated doors, 86% perforation, with swivel handle lock, DIN profile, universal key 333, 3-point locking, up to 180° aperture angle; front door can be hinged right or left
Side panels:	Removable, locks with universal key
Top panels:	One-piece (D: 1000 mm) or multi-piece (D: 1200 mm), removable, 100 mm round cable entry hole with plastic cover in each corner, 2-4 additional 300 × 100 mm cable entry holes, covered with sheet steel plates
Bottom panels:	Multi-piece, removable, 100 mm round cable entry hole with plastic cover in each corner, 2-4 additional 300 × 100 mm cable entry holes, covered with sheet steel plates
Feet:	Set of 4 adjustable feet
Delivery:	Fully assembled and packed, including installation instructions
	Comes with pre-installed flat earthing kit and mounting kits (screws, cage nuts, washers)
Optional accessories:	2-door sets, plinths, castors, rack baying kits, etc.
	(see from page 104 or visit ITinfra.datwyler.com)

Article No.	Description	Load kg	Weight kg	Dimensions HxWxD	Colour
195000	Server Rack Premium DSRP-42-60/100	1500	135	42U, 1978 x 600 x 1000 mm	black
195001	Server Rack Premium DSRP-42-60/120	1500	149	42U, 1978 x 600 x 1200 mm	black
195264	Server Rack Premium DSRP-42-80/80	1500	134	42U, 1978 x 800 x 800 mm	black
195115	Server Rack Premium DSRP-42-80/100	1500	157	42U, 1978 x 800 x 1000 mm	black
195116	Server Rack Premium DSRP-42-80/120	1500	175	42U, 1978 x 800 x 1200 mm	black
195002	Server Rack Premium DSRP-48-60/100	1500	148	48U, 2245 x 600 x 1000 mm	black
195003	Server Rack Premium DSRP-48-60/120	1500	178	48U, 2245 x 600 x 1200 mm	black
195117	Server Rack Premium DSRP-48-80/100	1500	173	48U, 2245 x 800 x 1000 mm	black
195118	Server Rack Premium DSRP-48-80/120	1500	208	48U, 2245 x 800 x 1200 mm	black
195111	Server Rack Premium DSRP-42-60/100	1500	135	42U, 1978 x 600 x 1000 mm	light grey
195112	Server Rack Premium DSRP-42-60/120	1500	149	42U, 1978 x 600 x 1200 mm	light grey
195265	Server Rack Premium DSRP-42-80/80	1500	134	42U, 1978 x 800 x 800 mm	light grey
195119	Server Rack Premium DSRP-42-80/100	1500	157	42U, 1978 x 800 x 1000 mm	light grey
195120	Server Rack Premium DSRP-42-80/120	1500	175	42U, 1978 x 800 x 1200 mm	light grey
195113	Server Rack Premium DSRP-48-60/100	1500	148	48U, 2245 x 600 x 1000 mm	light grey
195114	Server Rack Premium DSRP-48-60/120	1500	178	48U, 2245 x 600 x 1200 mm	light grey
195121	Server Rack Premium DSRP-48-80/100	1500	173	48U, 2245 x 800 x 1000 mm	light grey
195122	Server Rack Premium DSRP-48-80/120	1500	208	48U, 2245 x 800 x 1200 mm	light grey

More versions available on request

IT RACKS AND ACCESSORIES

Datwyler offer a wide range of racks and cabinets. Below is a selection from our product range.
In order to find the ideal solution for your installation, please contact us. Our local sales office will be pleased to assist you.

SERVER RACKS

Server Racks Standard DSRS
19"/42U

with perforated doors

Application

The Datwyler Server Racks Standard DSRS are designed to provide good-quality cabinets that offer an unrivaled cost-performance ratio.

Features

Size:	Height: 42U (48U on request)
	Width: 600 or 800 mm
	Depth: 1000 or 1200 mm
Construction:	Welded sheet steel frame (1.5 mm)
Load capacity:	1000 kg, balanced on 19-inch vertical profiles
19 inch profiles:	2 pairs of 19-inch vertical profiles (front/rear), with U label, stepless depth adjustment from inside; cabinets of 800 mm width offer 3 additional vertical 19"/2U positions per 19-inch extrusion
IP rating:	IP20
Colour:	Black or light grey
Front / rear doors:	One-piece perforated doors, 86% perforation, with swivel handle lock, DIN profile, universal key 333, single point locking, up to 180° aperture angle Front door can be hinged right or left
Side panels:	Removable, locks with universal key
Delivery:	Fully assembled and packed, including installation instructions Comes with pre-installed flat earthing kit and 28 pcs. mounting kit
Optional accessories:	Plinths, fan ventilation units, castors, rack baying kits, etc. (see from page 104 or visit ITinfra.datwyler.com)

Server Rack Standard DSRS,
42U, 800 x 1000 mm

Article No.	Description	Load kg	Weight kg	Dimensions HxWxD	Colour
195420	Server Rack Standard DSRS-42-60/100	1000	114	42U, 2000 x 600 x 1000 mm	black
195424	Server Rack Standard DSRS-42-60/120	1000	139	42U, 2000 x 600 x 1200 mm	black
195421	Server Rack Standard DSRS-42-80/100	1000	133	42U, 2000 x 800 x 1000 mm	black
195425	Server Rack Standard DSRS-42-80/120	1000	158	42U, 2000 x 800 x 1200 mm	black
195422	Server Rack Standard DSRS-42-60/100	1000	114	42U, 2000 x 600 x 1000 mm	light grey
195426	Server Rack Standard DSRS-42-60/120	1000	139	42U, 2000 x 600 x 1200 mm	light grey
195423	Server Rack Standard DSRS-42-80/100	1000	133	42U, 2000 x 800 x 1000 mm	light grey
195427	Server Rack Standard DSRS-42-80/120	1000	158	42U, 2000 x 800 x 1200 mm	light grey

More versions available on request

NETWORK RACKS

Network Racks Premium DNRP
19"/27U, 42U and 48U

with glass front door & steel rear door

Application
The Datwyler Nework Racks Premium DNRP are cabinets with fully welded frames and high load capacities designed for data centres, server rooms and comms rooms.

Network Racks Standard DNRS, 42U, 600 x 800 mm

Features

Sizes:	Height: 27U, 42U and 48U
	Width: 800 mm
	Depth: 800, 1000, 1200 mm
Construction:	Welded sheet steel frame (2.0 mm, partially 1.5 mm)
Load capacity:	800 kg
19-inch profiles:	2 pairs of 19-inch vertical profiles, front / rear, adjustable from inside, with U label
IP rating:	IP40 (IP54 on request)
Colours:	Black or light grey
Front / rear doors:	Tinted safety glass front door, sheet steel rear door, non-perforated, both with swivel handle lock, DIN profile, universal key 333, 3-point locking, up to 180° aperture angle
	Doors can be hinged right or left
Side panels:	Removable, locks with universal key
Top panels:	One-piece (D: 800/1000 mm) or multi-piece (D: 1200 mm), removable, 100 mm round cable entry hole with plastic cover in each corner, 2 additional 300 × 100 mm cable entry holes, 2-4 additional 300 × 50 mm cable entry holes and 1-2 openings for the installation of fan ventilation units, each covered with a sheet steel plate
Bottom panels:	Multi-piece, removable, 100 mm round cable entry hole with plastic cover in each corner, 5-8 additional 300 × 100 mm cable entry holes, covered with sheet steel plates
Feet:	4 adjustable feet
Delivery:	Fully assembled and packed, including installation instructions
	Comes with pre-installed flat earthing kit and 28 pcs. mounting kits (screws, cage nuts, washers)
Optional accessories:	2-door sets, plinths, castors, rack baying kits, etc.
	(see from page 104 or visit ITinfra.datwyler.com)

Article No.	Description	Load kg	Weight kg	Dimensions HxWxD	Colour
95012	Network Rack Premium DNRP-27-80/100	800	124	27 HE, 1311 x 800 x 1000 mm	black, RAL 9005
195008	Network Rack Premium DNRP-42-80/100	800	157	42 HE, 1978 x 800 x 1000 mm	black, RAL 9005
195009	Network Rack Premium DNRP-42-80/120	800	175	42 HE, 1978 x 800 x 1200 mm	black, RAL 9005
195010	Network Rack Premium DNRP-48-80/100	800	173	48 HE, 2245 x 800 x 1000 mm	black, RAL 9005
195011	Network Rack Premium DNRP-48-80/120	800	208	48 HE, 2245 x 800 x 1200 mm	black, RAL 9005
195020	Network Rack Premium DNRP-27-80/80	800	100	27 HE, 1311 x 800 x 800 mm	light grey, RAL 7035
195021	Network Rack Premium DNRP-27-80/100	800	124	27 HE, 1311 x 800 x 1000 mm	light grey, RAL 7035
195014	Network Rack Premium DNRP-42-80/80	800	134	42 HE, 1978 x 800 x 800 mm	light grey, RAL 7035
195015	Network Rack Premium DNRP-42-80/100	800	157	42 HE, 1978 x 800 x 1000 mm	light grey, RAL 7035
195016	Network Rack Premium DNRP-42-80/120	800	175	42 HE, 1978 x 800 x 1200 mm	light grey, RAL 7035
195017	Network Rack Premium DNRP-48-80/80	800	147	48 HE, 2245 x 800 x 800 mm	light grey, RAL 7035
195018	Network Rack Premium DNRP-48-80/100	800	173	48 HE, 2245 x 800 x 1000 mm	light grey, RAL 7035
195019	Network Rack Premium DNRP-48-80/120	800	208	48 HE, 2245 x 800 x 1200 mm	light grey, RAL 7035

More versions available on request

NETWORK RACKS

Network Racks Standard DNRS
19"/ 21U, 27U, 42U and 48U

Application
The Datwyler Network Racks Standard DNRS are designed to provide good-quality cabinets that offer an unrivaled cost-performance ratio.

Features

Sizes:	Height: 21U, 27U, 42U and 48U
	Width: 600 or 800 mm
	Depth: 600 - 1200 mm
Construction:	Welded sheet steel frame (1.5 mm)
Load capacities:	800 kg
	balanced on 19-inch vertical profiles
19 inch profiles:	2 pairs of 19-inch vertical profiles, front / rear,
	adjustable from inside, with U label
IP rating:	IP30
Colour:	Black or light grey
Front door:	With tinted safety glass and swivel handle lock, DIN profile,
	universal key 333, single point locking, up to 180° aperture angle,
	door can be hinged right or left
Rear panel:	Sheet steel, removable, with knock-out cable entry, lock with universal key
Side panels:	Removable, locks with universal key
Delivery:	Fully assembled and packed, including installation instructions
	Comes with pre-installed flat earthing kit and 28 pcs. mounting kits (screws, cage nuts, washers)
Optional accessories:	Plinths, fan ventilation units, castors, rack baying kits, etc.
	(see from page 104 or visit ITinfra.datwyler.com)

Network Racks Standard DNRS, 42U, 600 x 800 mm

Article No.	Description	Load kg	Weight kg	Dimensions HxWxD	Colour
195433	Network Rack Standard DNRS-21-60/60	800	52	21U, 1045 x 600 x 600 mm	black, RAL 9005
195431	Network Rack Standard DNRS-21-60/80	800	61	21U, 1045 x 600 x 800 mm	black, RAL 9005
195432	Network Rack Standard DNRS-21-80/80	800	72	21U, 1045 x 800 x 800 mm	black, RAL 9005
195444	Network Rack Standard DNRS-27-60/60	800	61	27U, 1300 x 600 x 600 mm	black, RAL 9005
195445	Network Rack Standard DNRS-27-60/80	800	70	27U, 1300 x 600 x 800 mm	black, RAL 9005
195446	Network Rack Standard DNRS-27-80/80	800	83	27U, 1300 x 800 x 800 mm	black, RAL 9005
195434	Network Rack Standard DNRS-33-60/60	800	68	33U, 1700 x 600 x 600 mm	black, RAL 9005
195430	Network Rack Standard DNRS-42-60/60	800	83	42U, 2000 x 600 x 600 mm	black, RAL 9005
195428	Network Rack Standard DNRS-42-60/80	800	94	42U, 2000 x 600 x 800 mm	black, RAL 9005
195429	Network Rack Standard DNRS-42-80/80	800	113	42U, 2000 x 800 x 800 mm	black, RAL 9005
195454	Network Rack Standard DNRS-42-80/100	800	133	42U, 2000 x 800 x 1000 mm	black, RAL 9005
195455	Network Rack Standard DNRS-42-80/120	800	158	42U, 2000 x 800 x 1200 mm	black, RAL 9005
195435	Network Rack Standard DNRS-48-60/80	800	112	48U, 2200 x 600 x 800 mm	black, RAL 9005
195436	Network Rack Standard DNRS-48-80/80	800	134	48U, 2200 x 800 x 800 mm	black, RAL 9005
195442	Network Rack Standard DNRS-21-60/60	800	52	21U, 1045 x 600 x 600 mm	light grey, RAL 7035
195440	Network Rack Standard DNRS-21-60/80	800	61	21U, 1045 x 600 x 800 mm	light grey, RAL 7035
195441	Network Rack Standard DNRS-21-80/80	800	72	21U, 1045 x 800 x 800 mm	light grey, RAL 7035
195447	Network Rack Standard DNRS-27-60/60	800	61	27U, 1300 x 600 x 600 mm	light grey, RAL 7035
195448	Network Rack Standard DNRS-27-60/80	800	70	27U, 1300 x 600 x 800 mm	light grey, RAL 7035
195449	Network Rack Standard DNRS-27-80/80	800	83	27U, 1300 x 800 x 800 mm	light grey, RAL 7035
195443	Network Rack Standard DNRS-33-60/60	800	68	33U, 1700 x 600 x 600 mm	light grey, RAL 7035
195439	Network Rack Standard DNRS-42-60/60	800	83	42U, 2000 x 600 x 600 mm	light grey, RAL 7035
195437	Network Rack Standard DNRS-42-60/80	800	94	42U, 2000 x 600 x 800 mm	light grey, RAL 7035
195438	Network Rack Standard DNRS-42-80/80	800	113	42U, 2000 x 800 x 800 mm	light grey, RAL 7035
195452	Network Rack Standard DNRS-42-80/100	800	133	42U, 2000 x 800 x 1000 mm	light grey, RAL 7035
195453	Network Rack Standard DNRS-42-80/120	800	158	42U, 2000 x 800 x 1200 mm	light grey, RAL 7035
195450	Network Rack Standard DNRS-48-60/80	800	112	48U, 2200 x 600 x 800 mm	light grey, RAL 7035
195451	Network Rack Standard DNRS-48-80/80	800	134	48U, 2200 x 800 x 800 mm	light grey, RAL 7035

More versions available on request

IT RACKS AND ACCESSORIES

Datwyler offer a wide range of racks and cabinets. Below is a selection from our product range.
In order to find the ideal solution for your installation, please contact us. Our local sales office will be pleased to assist you.

NETWORK RACKS

Network Racks Standard Flex (disassembled) 19"/42U

with glass front door and steel rear door

Application

The Datwyler Network Racks Standard Flex are designed to provide good-quality cabinets that offer an unrivaled cost-performance ratio. Flex racks are used in areas with limited space in which racks with welded construction cannot be installed

Features

Sizes:	Height: 42U
	Width: 800 mm
	Depth: 1000 mm
Construction:	Whelded sheet steel frame (1.5 mm),
	connected by 32 M6x12 screws,
	delivery in disassembled state (for on-site assembly),
	bayable
Load capacity:	800 kg
19-inch profiles:	2 pairs of 19-inch vertical profiles, front / rear,
	adjustable from inside, with U label
IP rating:	IP40 (with side panels)
Colours:	Black or light grey
Front door:	With tinted safety glass, up to 180° aperture angle, with swivel handle lock,
	DIN profile, universal key, 1-point locking
Rear doors:	2 sheet steel doors with swivel handle lock, DIN profile,
	universal key 333, 3-point lock
	(or with removable rear panel, see list below)
Side panels:	Sheet steel, with locks
Top panel:	One-piece, with 100 x 300 mm cable entry hole,
	suitable for dust protection panel with brush (195060),
	opening for the installation of fan ventilation unit 420 x 440 mm
Bottom panel:	with one 100 x 300 mm cable entry hole,
	suitable for dust protection panel with brush (195060),
	two 100 x 115 mm opening, one 300 x 115 mm opening and
	opening for the installation of fan ventilation unit 420 x 440 mm
Feet:	4 adjustable feets
Delivery:	with earthing kit; comes without plinth

Article No.	Description	Load kg	Dimensions HxWxD	Colour
19699200ZY	Network Rack Standard Flex	800	42U, 2000 x 800 x 800 mm	black, RAL 9005
19699300ZY	Network Rack Standard Flex	800	42U, 2000 x 800 x 1000 mm	black, RAL 9005
19699400ZY	Network Rack Standard Flex	800	42U, 2000 x 800 x 800 mm	light grey, RAL 7035
19699500ZY	Network Rack Standard Flex	800	42U, 2000 x 800 x 1000 mm	light grey, RAL 7035
195490	Network Rack Standard Flex*	800	42U, 2000 x 800 x 1000 mm	light grey, RAL 7035
19546300ZY	Network Rack Standard Flex*	800	42U, 2000 x 800 x 800 mm	light grey, RAL 7035

* with removable rear panel. More versions available on request

WALL MOUNT RACKS

**Wall Mount Racks Premium DWMR
19"/ 6U, 9U, 12U, 15U and 18U**

Wall Mount Rack Premium DWMR,
9U, 600 x 500 mm

Application
The Datwyler Wall Mount Racks DWMR are designed to host
patch panels, active components and other data network equipment.
They offer an extended access level from all sides thanks to removable
(and lockable) side panels.

Features

Sizes:	Height: 6U (358 mm), 9U (491 mm), 12U (624 mm), 15U (758 mm), 18U (891 mm)
	Width: 600 mm
	Depth (usable depth): 400 mm (380 mm), 500 mm (480 mm) and 600 mm (580 mm)
Construction:	Welded sheet steel frame (1.25 mm)
Load capacities:	40 kg (D: 500 mm), 30 kg (D: 600 mm)
IP rating:	IP30
Colours:	Black or light grey
Front door:	With tinted safety glass and
	round lock, universal key 333,
	up to 180° aperture angle,
	door can be hinged right or left (easy to change)
Rear panel:	Removable, with 150 × 56 mm knock-out panel
	and pre-punched holes for wall-mount installation
	(cabinet can also be installed without rear panel)
Standard configuration:	1 pair of adjustable 19-inch vertical profiles with U label,
	2 removable side panels, each with universal lock,
	tinted safety glass door with universal round lock,
	pre-installed flat earthing kit,
	16 pcs. mounting set: screws, cage nuts and washers
Delivery:	Fully assembled and packed, including 2 keys and drilling template
Optionally available:	1 additional pair of adjustable 19-inch profiles (rear), spare key, cable entry panel with brush
	(see from page 104 or visit ITinfra.datwyler.com)

More configurations are available on request.

Article No.	Description	Load kg	Weight kg	Dimensions HxWxD	Colour
195099	Wall Mount Rack Premium DWMR-9-60/50	40	23	9U, 500 x 600 x 500 mm	black, RAL 9005
195103	Wall Mount Rack Premium DWMR-9-60/60	30	26	9U, 500 x 600 x 600 mm	black, RAL 9005
195100	Wall Mount Rack Premium DWMR-12-60/50	40	26	12U, 630 x 600 x 500 mm	black, RAL 9005
195104	Wall Mount Rack Premium DWMR-12-60/60	30	29	12U, 630 x 600 x 600 mm	black, RAL 9005
195101	Wall Mount Rack Premium DWMR-15-60/50	40	30	15U, 760 x 600 x 500 mm	black, RAL 9005
195105	Wall Mount Rack Premium DWMR-15-60/60	30	33	15U, 760 x 600 x 600 mm	black, RAL 9005
195102	Wall Mount Rack Premium DWMR-18-60/50	40	36	18U, 900 x 600 x 500 mm	black, RAL 9005
195106	Wall Mount Rack Premium DWMR-18-60/60	30	39	18U, 900 x 600 x 600 mm	black, RAL 9005
19546100ZY	Wall Mount Rack Premium DWMR-6-60/40	40	12,5	6U, 358 x 600 x 400 mm	light grey, RAL 7035
19546200ZY	Wall Mount Rack Premium DWMR-6-60/50	40	16	6U, 358 x 600 x 500 mm	light grey, RAL 7035
195033	Wall Mount Rack Premium DWMR-9-60/50	40	23	9U, 500 x 600 x 500 mm	light grey, RAL 7035
195037	Wall Mount Rack Premium DWMR-9-60/60	30	26	9U, 500 x 600 x 600 mm	light grey, RAL 7035
195034	Wall Mount Rack Premium DWMR-12-60/50	40	26	12U, 630 x 600 x 500 mm	light grey, RAL 7035
195038	Wall Mount Rack Premium DWMR-12-60/60	30	29	12U, 630 x 600 x 600 mm	light grey, RAL 7035
195035	Wall Mount Rack Premium DWMR-15-60/50	40	30	15U, 760 x 600 x 500 mm	light grey, RAL 7035
195039	Wall Mount Rack Premium DWMR-15-60/60	30	33	15U, 760 x 600 x 600 mm	light grey, RAL 7035
195036	Wall Mount Rack Premium DWMR-18-60/50	40	36	18U, 900 x 600 x 500 mm	light grey, RAL 7035
195040	Wall Mount Rack Premium DWMR-18-60/60	30	39	18U, 900 x 600 x 600 mm	light grey, RAL 7035

ACCESSORIES: CABLE MANAGEMENT

Cable management	Article No.	Description	Suitable for	Colour	PU
		Horizontal cable management unit,	all racks		
		10 fingers, removeable cover, depth: 112 mm, with mounting kit			
	195041	1U		black, RAL 9005	1
	195042	2U		black, RAL 9005	1
	195043	3U		black, RAL 9005	1
		Horizontal cable management holders			
	195204	depth = 600 mm	DNRS/DSRS	black, RAL 9005	1
	195205	depth = 800 mm	all racks	black, RAL 9005	1
		19" cable management panel, 5 plastic rings, 4 holes for cable entry	all racks		
	195220	1U, 40 x 50 mm rings		black, RAL 9005	1
	195097	1U, 40 x 80 mm rings		black, RAL 9005	1
	195098	2U, 80 x 60 mm rings		black, RAL 9005	1
	195221	2U, 80 x 80 mm rings		black, RAL 9005	1
	1411604	Management panel 19"/1U for 5 support brackets (delivery without brackets)		grey	1
	1407689	Management panel 19"/1U for 5 support brackets (delivery without brackets)		black, RAL 9005	1
	418200	Management panel 19"/1U for 5 support brackets (delivery without brackets)		stainless steel	1
	1411480	Support bracket, depth: 60 mm plastic		black, RAL 9005	1
	1411481	Support bracket, depth: 75 mm metal			1
	1411482	Support bracket, depth: 110 mm metal			1
	185735	Management panel, 19"/1U, with 4 metal brackets		grey	1
	185736	Management panel, 19"/2U, with 4 metal brackets		grey	1
		Cable bracket, metal, for vertical cable management	all racks		
	195139	side entry, zinc plated, 100 x 140 mm			10
	195140	front entry, zinc plated, 100 x 140 mm			10
	195141	front entry, zinc plated, 100 x 100 mm			10
		HD Cable manager - vertical	all racks		
	195044	42U, 100 x 112 mm, with 41 fingers, high density	42U	black, RAL 9005	1 set
		Vertical cable manager with plastic duct	800 mm		
	195235	15U, 80 x 60 mm	wide DNRS	black, RAL 9005	1
	195237	33U, 80 x 60 mm		black, RAL 9005	1
	195239	21U, 80 x 60 mm		black, RAL 9005	1
	195241	27U, 80 x 60 mm		black, RAL 9005	1
	195243	42U, 80 x 60 mm		black, RAL 9005	1
		Holder for vertical cable manager	800 mm		
	195236	for 15U, 80 mm (Article No. 195235)	wide DNRS	black, RAL 9005	2
	195238	for 33U, 80 mm (Article No. 195237)		black, RAL 9005	2
	195240	for 21U, 80 mm (Article No. 195239)		black, RAL 9005	2
	195242	for 27U, 80 mm (Article No. 195241)		black, RAL 9005	2
	195244	for 42U, 80 mm (Article No. 195243)		black, RAL 9005	2
	195313	C-rail, 1145 mm, with mounting material	all racks		1 set
	195309	C-rail, 945 mm, with mounting material			1 set
	195307	C-rail, 745 mm, with mounting material			1 set

ACCESSORIES: STRUCTURE

Plinths	Article No.	Description	Suitable for	Colour	PU
		Plinth front and rear panel set (corners are also covered)			
	19554000ZY	width: 300 mm	all racks	black, RAL 9005	1 set
	19554100ZY	width: 400 mm		black, RAL 9005	1 set
	19554200ZY	width: 600 mm		black, RAL 9005	1 set
	19554300ZY	width: 800 mm		black, RAL 9005	1 set
		Plinth side panel set (for completely closed plinth)			
	19554400ZY	width: 600 mm	all racks	black, RAL 9005	1 set
	19554500ZY	width: 800 mm		black, RAL 9005	1 set
	19554600ZY	width: 1000 mm		black, RAL 9005	1 set
	19554700ZY	width: 1200 mm		black, RAL 9005	1 set
		Plinth front and rear panel set (corners are also covered)			
	19554800ZY	width: 300 mm	all racks	light grey, RAL 7035	1 set
	19554900ZY	width: 400 mm		light grey, RAL 7035	1 set
	19555000ZY	width: 600 mm		light grey, RAL 7035	1 set
	19555100ZY	width: 800 mm		light grey, RAL 7035	1 set
		Plinth side panel set (for completely closed plinth)			
	19555200ZY	width: 600 mm	all racks	light grey, RAL 7035	1 set
	19555300ZY	width: 800 mm		light grey, RAL 7035	1 set
	19555400ZY	width: 1000 mm		light grey, RAL 7035	1 set
	19555500ZY	width: 1200 mm		light grey, RAL 7035	1 set
	19555600ZY	Filter set for plinth panels	all racks	black, RAL 9005	1 set
	19555700ZY	Filter set for plinth panels	all racks	light grey, RAL 7035	1 set
	19555800ZY	Adjustable feet set for plinth, 4 pcs.	all racks		1 set

Panels & plates	Article No.	Description	Suitable for	Colour	PU
	195060	Dust protection panel for 300 x 100 mm prepunched openings in racks, 2 brush layers	all racks	black, RAL 9005	1
		19" blank plate set for covering unused height units in the racks, sheet steel, screwable, without mounting kit (see article no. 401261)	all racks		
	401240	19" blank plate 1U		light grey, RAL 7035	1
	401241	19" blank plate 1U		black, RAL 9005	1
	401242	19" blank plate 1U		stainless steel	1
	401243	19" blank plate 2U		light grey, RAL 7035	1
	401244	19" blank plate 2U		black, RAL 9005	1
	401245	19" blank plate 2U		stainless steel	1

Subject to technical modification.

ACCESSORIES: STRUCTURE

Panels & plates	Article No.	Description	Colour	PU
		19" blank plate set for covering unused height units in the racks,		
		tool-less (with 1/4-turn fastener)		
	195184	1U	black, RAL 9005	5 pcs.
	195185	2U	black, RAL 9005	5 pcs.
	195186	3U	black, RAL 9005	5 pcs.
	195187	1U	light grey, RAL 7035	5 pcs.
	195188	2U	light grey, RAL 7035	5 pcs.
	195189	3U	light grey, RAL 7035	5 pcs.
	195230	19" vented panel, with brush, for front to rear cabling, minimizes by-pass airflow in the rack; sheet steel, powder coated, screwable; delivery without mounting kit	black, RAL 9005	1

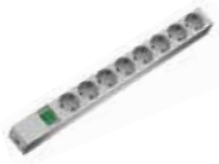| Shelves	Article No.	Description	Colour	PU
		19" shelves, 20 kg load capacity per shelf		
		quick fastening with two brackets		
	195148	1U, 250 mm depth	light grey, RAL 7035	1 pc.
	195161	1U, 350 mm depth	light grey, RAL 7035	1 pc.
	195162	1U, 450 mm depth	light grey, RAL 7035	1 pc.
	195163	1U, 550 mm depth	light grey, RAL 7035	1 pc.
	195164	1U, 650 mm depth	light grey, RAL 7035	1 pc.
	195165	1U, 750 mm depth	light grey, RAL 7035	1 pc.
	195147	1U, 250 mm depth	black, RAL 9005	1 pc.
	195082	1U, 350 mm depth	black, RAL 9005	1 pc.
	195083	1U, 450 mm depth	black, RAL 9005	1 pc.
	195084	1U, 550 mm depth	black, RAL 9005	1 pc.
	195085	1U, 650 mm depth	black, RAL 9005	1 pc.
	195086	1U, 750 mm depth	black, RAL 9005	1 pc.
		19" shelves, 60 kg load capacity per shelf		
	195166	2U, 450 mm depth	light grey, RAL 7035	1 pc.
	195167	2U, 550 mm depth	light grey, RAL 7035	1 pc.
	195168	2U, 650 mm depth	light grey, RAL 7035	1 pc.
	195087	2U, 450 mm depth	black, RAL 9005	1 pc.
	195088	2U, 550 mm depth	black, RAL 9005	1 pc.
	195089	2U, 650 mm depth	black, RAL 9005	1 pc.
		19" high load shelf set, 100 kg maximum load, all racks		
		with 1 high load shelf, 4 mounting brackets, screws and nuts		
	195173	1U shelf, high load, 450 mm, mounting distance: 113 - 463 mm	black, RAL 9005	1 set
	195174	1U shelf, high load, 550 mm, mounting distance: 213 - 563 mm	black, RAL 9005	1 set
	195175	1U shelf, high load, 650 mm, mounting distance: 313 - 663 mm	black, RAL 9005	1 set
		19" telescopic high load shelf set, 80 kg maximum load, all racks		
		completely assembled, with telescopic slides, without screws/nuts		
	195179	1U shelf, telescopic, high load, 450 mm, mounting distance: 296 - 507 mm, depth: 471 mm	black, RAL 9005	1 set
	195174	1U shelf, telescopic, high load, 550 mm, mounting distance: 406 - 607 mm, depth: 571 mm	black, RAL 9005	1 set
	195182	Support bracket for shelves - short, 88 mm (according to combination rack/shelf)		1 pair
	195183	Support bracket for shelves - long, 289 mm (according to combination rack/shelf)		1 pair

ACCESSORIES: STRUCTURE

Various	Article No.	Description		PU
	195090	Castor for free-standing racks, 1 pc., 50 kg load capacity		1 set
	195091	Swivel braked castor for free-standing racks, 1 pc., 50 kg load capacity		1 set
	195477	Castor for free-standing racks, 1 pc., 100 kg load capacity		1 set
	195478	Swivel braked castor for free-standing racks, 1 pc., 100 kg load capacity		1 set
	195093	Rack baying kit for baying 2 racks with side panels together		1 set
	401261	Mounting kit 50 Torx M6 screws, nuts and washers		1 set
	195481	Slide rails, nominal depth: 500 mm, distance between the 19" levels: 496 mm, depth: 442 mm, maximum load: 50 kg, including mounting material	black, RAL 9005	1 pair
	195469	Slide rails, nominal depth: 600 mm, distance between the 19" levels: 596 mm, depth: 542 mm, maximum load: 50 kg, including mounting material	black, RAL 9005	1 pair
	19550100ZY	Slide rails, nominal depth: 800 mm, distance between the 19" levels: 796 mm, depth: 742 mm, maximum load: 50 kg, including mounting material	black, RAL 9005	1 pair
	195418	Keyboard holder, folding, 19", 1U, for maximum keyboard size of 480 x 175 mm, the keyboard can be fixed with self-adhesive velcro tapes (included)	black, RAL 9005	1 pc.
	195190	Keyboard holder, telescopic, 19", 1U, depth: 480 mm, for a maximum keyboard width of 400 mm and height of 36 mm, including mounting bracket	black, RAL 9005	1 pc.
	195191	19"/3U drawer, 1.25 / 1.5 mm powder coated sheet steel, 430 mm total depth, 280 mm pull distance, 10 kg maximum load, comes with universal lock and 2 keys	black, RAL 9005	1 set
	195181	Documents pocket, A4, self-adhesive		1 pc.
	195329	Vertical grounding bar 15U, 5 clamps		1 pc.
	195330	Vertical grounding bar 18U, 5 clamps		1 pc.
	195331	Vertical grounding bar 21U, 5 clamps		1 pc.
	195332	Vertical grounding bar 27U, 5 clamps		1 pc.
	195333	Vertical grounding bar 33U, 5 clamps		1 pc.
	195297	Vertical grounding bar 42U, 5 clamps		1 pc.
	195334	Vertical grounding bar 45U, 5 clamps		1 pc.
	195359	Vertical grounding bar 48U, 5 clamps		1 pc.
	19538600ZY	Clamp for grounding bar		1 pc.
	195251	Grounding bar, 8 x 8 mm, 22 connection points, 40A, with mounting kit and grounding cable		1 pc.

Subject to technical modification.

ACCESSORIES: VENTILATION & LIGHTNING

Fan ventilation	Article No.	Description	Colour	PU
		19" 2-fan ventilation unit, 224 m³/h, 38W / 0.18A, AC 230V/50Hz		
		including thermostat, 0-60 °C, and 1.8 m cord, Schuko to C13 (w/o installation frame)		
	195069		black, RAL 9005	1 pc.
	195075		light grey, RAL 7035	1 pc.
		Installation frame for 19" 2-fan ventilation unit, top and bottom installation, w/o filter		
	195070	for racks of 600, 800 and 1200 mm depth	black, RAL 9005	1 pc.
	195071	for racks of 1000 mm depth	black, RAL 9005	1 pc.
	195076	for racks of 600, 800 and 1200 mm depth	light grey, RAL 7035	1 pc.
	195077	for racks of 1000 mm depth	light grey, RAL 7035	1 pc.
		19" 4-fan ventilation unit, 448 m³/h, 76W / 0.36A, AC 230V/50Hz		
		including thermostat, 0-60 °C, and 1.8 m cord,		
		Schuko to C13 (w/o installation frame)		
	195072		black, RAL 9005	1 pc.
	195078		light grey, RAL 7035	1 pc.
		Installation frame for 19" 4-fan ventilation unit, top and bottom installation, w/o filter		
	195073	for racks of 600, 800 and 1200 mm depth	black, RAL 9005	1 pc.
	195074	for racks of 1000 mm depth	black, RAL 9005	1 pc.
	195079	for racks of 600, 800 and 1200 mm depth	light grey, RAL 7035	1 pc.
	195080	for racks of 1000 mm depth	light grey, RAL 7035	1 pc.
		Compact fan ventilation units for roof mounting		
	195131	2-fan ventilation unit, including thermostat, for rack depths 600 / 800 / 1200 mm	black, RAL 9005	1 set
	195132	2-fan ventilation unit, without thermostat, for rack depths 600 / 800 / 1200 mm	black, RAL 9005	1 set
	195133	2-fan ventilation unit, including thermostat, for racks depth 1000 mm	black, RAL 9005	1 set
	195134	2-fan ventilation unit, without thermostat, for racks depth 1000 mm	black, RAL 9005	1 set
	195135	4-fan ventilation unit, including thermostat, for rack depths 600 / 800 / 1200 mm	black, RAL 9005	1 set
	195136	4-fan ventilation unit, without thermostat, for rack depths 600 / 800 / 1200 mm	black, RAL 9005	1 set
	195137	4-fan ventilation unit, including thermostat, for rack depth 1000 mm	black, RAL 9005	1 set
	195138	4-fan ventilation unit, without thermostat, for racks depth 1000 mm	black, RAL 9005	1 set

Rack lighting	Article No.	Type	Dimensions	Voltage [V]	Colour	PU
	280504	LED, 19" 1U, 230V / 7.2W S DC 3m GR	448 x 54.5 x 26 mm	230 V AC	light grey, RAL 7035	1 pc.
	280505	LED, 19" 1U, 230V / 7.2W S DC 3m BK	448 x 54.5 x 26 mm	230 V AC	black, RAL 9005	1 pc.
		Designed for a variety of installation methods: tool-less, magnetic and/or with monting frame				
	280510	Mounting frame	448 x 42 x 5 mm		light grey, RAL 7035	1 pc.
	280511	Mounting frame	448 x 42 x 5 mm		black, RAL 9005	1 pc.
	280506	LED, 350 mm, 230V /11.5W S DC SK ALU	350 x 92 x 46 mm	230 V AC	aluminum	1 pc.
	280512	Connection cable 230V 3 m OR 3 x 1.52 mm	L = 3000 mm	230 V AC	orange	1 pc.
	280508	Door position contact 230V 1.5m AN BK, angled	95 x 63 x 24 mm	230 V AC	black, RAL 9005	1
	280509	Door position contact 230V 1.5m ST BK, straight	95 x 63 x 24 mm	230 V AC	black, RAL 9005	1

ACCESSORIES: PDU & RACK MONITORING SYSTEM

PDU	Article No.	Product	Sockets	Plug	Extra Functions	Connection cable	Colour	PU
	195081	PDU-Basis-Set, 19" 1U	9x SK	SK		2 m	black, RAL 9005	1 pc.
	195144	PDU-Basis-Set, 19" 1U	6x SK	SK	Switch, overvoltage protection	2 m	black, RAL 9005	1 pc.
	280020	PDU, 19" 1U, 8xSK-SK 2m S GR	8x SK	SK	Switch	2 m	light grey, RAL 7035	1 pc.
	280021	PDU, 19" 1U, 9xSK-SK 2m GR	9x SK	SK		2 m	light grey, RAL 7035	1 pc.
	280024	PDU, 19" 1U, 8xSK-SK 2m OV GR	8x SK	SK	Overvoltage protection	2 m	light grey, RAL 7035	1 pc.
	280033	PDU, 19" 1U, 7xSK-SK 2m OV S BK	7x SK	SK	Switch, overvoltage protection	2 m	black, RAL 9005	1 pc.
	280045	PDU, 19" 1U, 9xC13-SK 2m	9x C13	SK		2 m	light grey, RAL 7035	1 pc.
	280047	PDU, 19" 1U, 9xC13-T12 3m	9x C13	T12		3 m	light grey, RAL 7035	1 pc.
	280048	PDU, 19" 1U, 7xT23-T23 3m S	7x T23	T23	Switch	3 m	silver	1 pc.
	280049	PDU, 19" 1U, 5xT23-T23 3m OV RF	5x T23	T23	Overvoltage protection, mains & frequency filter	3 m	silver	1 pc.
	280053	PDU, 19" 1U, 8xT23-T23 3m	8x T23	T23		3 m	silver	1 pc.
	280054	PDU, 19" 1U, 8xT23-T23 3m AL	8x T23	T23		3 m	white	1 pc.
	280055	PDU, 19" 1U, 8xT23-T23 3m AL	8x T23	T23		3 m	orange	1 pc.
	280056	PDU, 19" 1U, 7xT23-T23 3m OV	7x T23	T23	Overvoltage protection	3 m	silver	1 pc.
	280059	PDU, 19" 1U, 8xUTE-SK 2m OV AL	8x UTE	SK	Overvoltage protection	2 m	light grey, RAL 7035	1 pc.
	280062	PDU, 19" 1U, 9xUTE-SK 2m AL	9x UTE	SK		2 m	light grey, RAL 7035	1 pc.
	280063	PDU, 19" 1U, 8xUTE-SK 2m S AL	8x UTE	SK	Switch	2 m	light grey, RAL 7035	1 pc.

Rack Monitoring System DIMS	Article No.	Type	
	41847300ZY	DIMS 300	Monitoring system including software, with 8 ports for connecting sensors
	41847200ZY	DIMS 200	Monitoring system including software, with 4 ports for connecting sensors

DIMS Sensores	Article No.	Type
	41847900ZY	DIMS door status sensor
	41847700ZY	DIMS temperature sensor
	41847800ZY	DIMS humidity sensor
	41848500ZY	DIMS smoke detection sensor

DIMS system description: see from page 13

WIRELESS SOLUTIONS FOR HIGH REQUIREMENTS

Mobility has become an integral part of modern day-to-day business. Employees, customers and partners take for granted the existence of wireless access points, and what's more, they are dependent on it. The massive increase of smartphones and tablet PCs in the workplace impressively proves this trend. Forward-looking companies have recognised the signs of the times and responded accordingly. Our future-proof high-density access point solutions are ideally suited for professional use in offices, factory buildings, conference halls, schools, hospitals and hotels.

Bandwidth-hungry applications such as IP television (IPTV), Video on Demand and Voice over WiFi in particular benefit from trouble-free operation with superlative "Quality of experience", even when being simultaneously used by a lot of people and over a large coverage area.

Conventional installation

WIFI ARRAYS

Unlike conventional access points, the HD Access Points provide many already integrated devices: from 2 up to 4 radio cells, highly sensitive directional antennas, multi-gigabit switch, controller, firewall, spectrum analyser, and threat sensor.
The advantages of this all-in-one architecture are obvious: less arrays, less cables and less switch ports will result in less investment in communications infrastructure – already in the project implementation period.

Enhance your WiFi performance and network efficiency
Up to 13.88 Gbit/s bandwidth in the 802.11 a/b/g/n/ac (Wave 2) range ensure WiFi coverage of up to 780 users and an area of over 100 x 100 metres.

POWER SUPPLY

There are two ways of supplying power to the HD Access Points: you can use a PoE (Power over Ethernet) adapter or a multi-port PoE switch.

WiFi bandwidth for the future
The XD4 access point with its 4 radio cells and 4×4 Wave 2 (3.47 Gbps) 802.11ac can be used for demanding indoor applications and as a reliable, robust outdoor solution - also as a part of the existing cabling infrastructure.
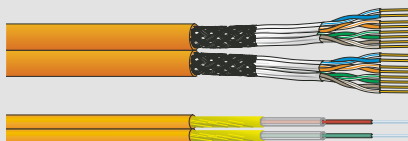
Powerful connection
HD Access Points can be connected with fibre optic cables or high-performance copper data cables.

MANAGEMENT

XMS-Cloud Managementprovides a platform for the centralized management of HD Access Points. Network administrators use it for efficient and centralized configuration, administration and control of Cambium WLAN networks.
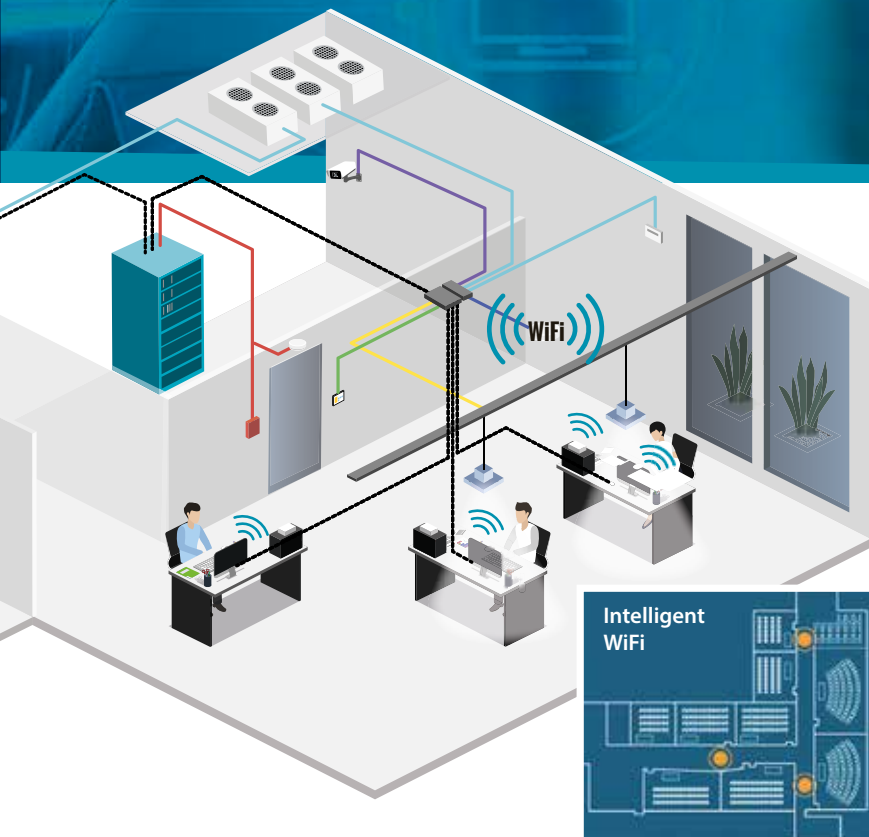
Main functions:
- Web-based user interface
- Network discovery
- Configuration management
- Station assurance
- Network assurance
- Intrusion detection
- Real-time monitoring
- Wireless network mapping
- Drill-down reports
- Safety monitoring and management

On-premise installation

or
Cloud based management

Intelligent WiFi

BENEFITS AT A GLANCE

Less WiFi equipment
- up to 13.88 Gbps bandwidth
- higher range and coverage
- up to 780 users per array
- wireless mesh
- access points can be configured
- integrated Gigabit switch
- integrated WiFi controller

Security
- intelligence at the interface
- integrated firewall
- integrated WiFi threat sensor

Professional support
- measurement
- network planning
- monitoring

Investment protection
- new standards by means of software updates
- switchable between 2.4 and 5 GHz

NETWORK CONTROL

Due to an increasing numer of devices and operating systems network designers have to select a solution which makes it easy to connect new devices.

GUESTS
Unknown user + unknown devices

BYOD USERS
Known user + unknown devices

EMPLOYEES
Known user + known devices

IOT DEVICES
No user + known devices

Cambium EasyPass provides a simple selection of access control solutions for the management, for SSO access of employees and students, for the integration of headless IoT devices and for various types of guest access. Administrators get detailed information about users and devices which access the network and can use various levels of control without the need of additional operational expenses.
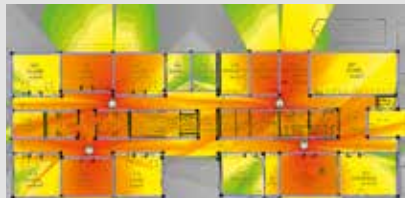
SERVICES

Datwyler complements its services with professional support when measuring a building, designing the network and checking the network installed.

Site Survey
Measurement is carried out with the arrays directly in the building in which WiFi is to be installed.

Simulation
A simulation based on building plans or site maps is carried out to determine the number of HD Access Points required.

Checks
After the installation, the range and coverage is measured and the WiFi network is tested to guarantee the highest possible quality.

MAINTENANCE CONTRACTS

Protect your investment with a maintenance contract. This is the way to keep HD Access Points and software up to date at no extra cost.

Upgrade and update
Hardware upgrades and software updates ensure that your WiFI HD Access Points will always be fully compliant with the latest standards.

WiFi 6
WiFi 6 (802.11ax) increases the transmission speed, improves the efficiency and minimizes network congestion when using multiple devices.

Overview of the main advantages:
- up to 25% higher data throughput due to QAM 1024 modulation
- multi-user MIMO transmits various data streams to several WLAN clients at the same time
- transmission channels of up to 160 MHz for 4K streaming and VR applications
- OFDMA for bundling of small data packets and optimal utilization of radio cells

We shall be pleased to advise you and to find the best WiFi solution for you.

LONG-TERM SECURITY

Even the best matched systems can only show their optimal potential when the installation is optimised. With the increased technical demands of class E_A, class F and class F_A links, for example, the demands on the installer are constantly growing.

We train network installers in the Datwyler system solutions in order to be able to guarantee an optimal quality of installation. Our seminars provide participants with the knowledge of the right application for products, combinations and dependencies of different parameters in the cabling system, and the resulting high quality of installation in copper and fibre optic networking.

DATWYLER SYSTEM WARRANTY

Certified installers can offer a Datwyler warranty for the installed copper and fibre optic cabling systems: normally for 25 years, but this can be extended depending on project criteria.

An acceptance test for each link documents that all required electrical or optical values are maintained.

Cabling solutions from Datwyler consistently perform beyond the standards, guaranteeing excess headroom for future application support.

DATWYLER TRAINING

Nowadays simply selling good products and solutions is no longer enough. A high-tech field like ours needs a great deal of know-how.

In our training courses we pass on to you the knowledge and experience we have gained in international standardisation consortia and in collaboration with research and development partners. You can thus provide your own customers with system solutions of the highest level of expertise. The consistently high standard makes us mutually strong and competitive.

You will find individual course types and dates on our home page via the country selection in the "Training" menu.

- . Native speaker as contact person
- . Representatives in 70 countries
- . Excellent market knowledge and
  understanding of market conditions
- . Familiar with the local variances

ANYWHERE IN THE WORLD:

WE REALIZE YOUR PROJECT

WE SPEAK
YOUR LANGUAGE
– ALSO FROM A
CULTURAL POINT OF VIEW

You will find us wherever IT infrastructures are involved.

Not only are we fluent speakers of all the major languages, but we're also well versed in the special cultural and application-specific features of each particular country. We are familiar with the rules and requirements and know what is important. This saves our international customers time and money. For they know that Datwyler's development, production and quality control, geared to the specific criteria of the domestic market, give them significant competitive advantages.

And they are sure to feel "at home" if they are then given advice and support in their native language into the bargain.

Headquarters

Manufacturing plant

Offices

Active market presence by Datwyler and their distribution partners

Are you searching for a distribution partner in one of our export markets? Please visit www.ITinfra.datwyler.com for details of our partners or contact our relevant branches.

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